

```
In [1]: # 確率勾配降下法
import sys, os
sys.path.append(os.pardir) # 親ディレクトリのファイルをインポートするための設定
import numpy as np
from common import functions
import matplotlib.pyplot as plt

def print_vec(text, vec):
    print("*** " + text + " ***")
    print(vec)
    #print("shape: " + str(x.shape))
    print("")
```

```
In [2]: # サンプルとする関数
        #yの値を予想するAI

def f(x):
    y = 3 * x[0] + 2 * x[1]
    return y

# 初期設定
def init_network():
    print("##### ネットワークの初期化 #####")
    network = {}
    nodesNum = 10
    network['W1'] = np.random.randn(2, nodesNum)
    network['W2'] = np.random.randn(nodesNum)
    network['b1'] = np.random.randn(nodesNum)
    network['b2'] = np.random.randn()

    print_vec("重み1", network['W1'])
    print_vec("重み2", network['W2'])
    print_vec("バイアス1", network['b1'])
    print_vec("バイアス2", network['b2'])

    return network
```

試してみよう ReLU関数をsigmoid関数に変更

```
In [20]: # 順伝播
def forward(network, x):
    print("##### 順伝播開始 #####")

    W1, W2 = network['W1'], network['W2']
    b1, b2 = network['b1'], network['b2']
    u1 = np.dot(x, W1) + b1
    #z1 = functions.relu(u1)

    ## 試してみよう
    z1 = functions.sigmoid(u1)

    u2 = np.dot(z1, W2) + b2
    y = u2

    print_vec("総入力1", u1)
    print_vec("中間層出力1", z1)
    print_vec("総入力2", u2)
    print_vec("出力1", y)
    print("出力合計: " + str(np.sum(y)))

    return z1, y
```

試してみよう ReLU関数の導関数をsigmoid関数の導関数に変更

```

In [22]: # 誤差逆伝播
def backward(x, d, z1, y):
    print("\n##### 誤差逆伝播開始 #####")

    grad = {}

    W1, W2 = network['W1'], network['W2']
    b1, b2 = network['b1'], network['b2']

    # 出力層でのデルタ
    delta2 = functions.d_mean_squared_error(d, y)
    # b2の勾配
    grad['b2'] = np.sum(delta2, axis=0)
    # W2の勾配
    grad['W2'] = np.dot(z1.T, delta2)
    # 中間層でのデルタ
    #delta1 = np.dot(delta2, W2.T) * functions.d_relu(z1)

    ## 試してみよう
    delta1 = np.dot(delta2, W2.T) * functions.d_sigmoid(z1)

    delta1 = delta1[np.newaxis, :]
    # b1の勾配
    grad['b1'] = np.sum(delta1, axis=0)
    x = x[np.newaxis, :]
    # W1の勾配
    grad['W1'] = np.dot(x.T, delta1)

    print_vec("偏微分_重み1", grad["W1"])
    print_vec("偏微分_重み2", grad["W2"])
    print_vec("偏微分_バイアス1", grad["b1"])
    print_vec("偏微分_バイアス2", grad["b2"])

    return grad

```

試してみよう_入力値の設定

```
In [23]: # サンプルデータを作成
data_sets_size = 100000
data_sets = [0 for i in range(data_sets_size)]

for i in range(data_sets_size):
    data_sets[i] = {}
    # ランダムな値を設定
    #data_sets[i]['x'] = np.random.rand(2)

    ## 試してみよう_入力値の設定
    data_sets[i]['x'] = np.random.rand(2) * 10 -5 # -5~5のランダム数値

    # 目標出力を設定
    data_sets[i]['d'] = f(data_sets[i]['x'])

losses = []
# 学習率
learning_rate = 0.07

# 抽出数
epoch = 1000

# パラメータの初期化
network = init_network()
# データのランダム抽出
random_datasets = np.random.choice(data_sets, epoch)

# 勾配降下の繰り返し
for dataset in random_datasets:
    x, d = dataset['x'], dataset['d']
    z1, y = forward(network, x)
    grad = backward(x, d, z1, y)
    # パラメータに勾配適用
    for key in ('W1', 'W2', 'b1', 'b2'):
        network[key] -= learning_rate * grad[key]

    # 誤差
    loss = functions.mean_squared_error(d, y)
    losses.append(loss)

print("##### 結果表示 #####")
```

```
lists = range(epoch)

plt.plot(lists, losses, '.')
# グラフの表示
plt.show()
```

ネットワークの初期化

*** 重み1 ***

```
[[-0.74589927  1.09328768  0.34097696 -1.00567282  0.77642358 -1.83533072
  0.26335281  0.56719021 -0.58703137  0.2553682 ]
 [ 0.09644783 -2.15810279  0.36821466 -0.68058518  1.10420867  0.56481905
  1.64779848 -0.15106961 -0.41238804  0.81797118]]
```

*** 重み2 ***

```
[ 0.05083932 -0.27121409 -0.64969937 -1.0416787 -0.64809543 -0.04123145
 -0.10874086 -1.44337343 -0.47105673 -0.20866282]
```

*** バイアス1 ***

```
[ 0.90869833  0.57936948  1.06844827  0.59146709 -0.19490546  1.02618244
  1.89709118  0.06213439 -0.38082444 -0.00770816]
```

*** バイアス2 ***

-0.9467697325206917

順伝播開始

*** 総入力1 ***

```
[-0.78696625 -6.45812803  3.79046865 -5.52244819  7.25820252 -1.59965656
 10.43735696  0.98450319 -4.02101991  4.59114522]
```

*** 中間層出力1 ***

```
[0.31282044 0.00156527 0.9779138  0.00398015 0.99929612 0.16802962
 0.99997068 0.72800083 0.01761868 0.98996057]
```

*** 総入力2 ***

-3.599736144364947

*** 出力1 ***

-3.599736144364947

出力合計: -3.599736144364947

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.77606794  4.24222437  8.0733682  16.29347514  7.97501861  0.64039574
  1.33767369 19.83103938  7.36751742  2.57871191]
 [-1.27069683  6.94601695 13.21895012 26.6781633  13.05791716  1.0485536
  2.19024345 32.47040318 12.06322353  4.22226056]]
```

*** 偏微分_重み2 ***

[-6.78671341 -0.03395898 -21.21607088 -0.08635025 -21.67996537
-3.64544231 -21.69460014 -15.79415 -0.3822414 -21.47742844]

*** 偏微分_バイアス1 ***

[-0.26910544 1.47101252 2.7994808 5.64984399 2.76537759 0.22206042
0.46384504 6.87651208 2.55472351 0.89418125]

*** 偏微分_バイアス2 ***

-21.695236152450935

順伝播開始

*** 総入力1 ***

[2.86938348 9.46593129 4.35211224 20.64603466 -2.14929677 6.34810453
-5.72346646 14.09625308 9.70583432 -2.78564462]

*** 中間層出力1 ***

[0.94631203 0.99992256 0.9872842 1. 0.10439696 0.998253
0.00325771 0.99999924 0.99993908 0.05810486]

*** 総入力2 ***

0.19204156410282536

*** 出力1 ***

0.19204156410282536

出力合計: 0.19204156410282536

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-9.243049 4.61192461 -14.41529802 17.76577114 -18.91453634
-3.67315565 -30.75311912 5.79449419 7.62194947 -28.21822127]
[-10.55008564 5.26408543 -16.45372956 20.27798478 -21.58919402
-4.19256748 -35.10184143 6.61387924 8.69975044 -32.20848996]]

*** 偏微分_重み2 ***

[20.40766607 21.56380239 21.29125008 21.5654724 2.25136966 21.52779746
0.07025415 21.56545613 21.56415858 1.25305878]

*** 偏微分_バイアス1 ***

[2.28458026 -1.13991735 3.56299153 -4.39111922 4.67505651 0.90788428

7. 60116807 -1. 43220998 -1. 88389733 6. 974624]

*** 偏微分_バイアス2 ***
21. 56547241967917

順伝播開始

*** 総入力1 ***

[-1. 52701324 8. 61143762 0. 5655835 4. 10945388 -2. 10770348 -3. 76781881
-4. 09755534 4. 46834032 1. 19448141 -3. 64523689]

*** 中間層出力1 ***

[0. 17843111 0. 99981802 0. 63774347 0. 98384842 0. 10835033 0. 02258073
0. 01634175 0. 98866366 0. 7675416 0. 02545058]

*** 総入力2 ***

-9. 02294857119288

*** 出力1 ***

-9. 02294857119288

出力合計: -9. 02294857119288

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3. 69387263 5. 76949428 2. 44462113 8. 31839434 -2. 92802229
5. 33294984 -5. 79510853 6. 02437875 6. 97994182 -4. 97826499]
[-5. 0804629 -7. 93522263 -3. 36227266 -11. 44091801 4. 0271309
-7. 33480998 7. 97045184 -8. 28578455 -9. 60004284 6. 84698504]]

*** 偏微分_重み2 ***

[-1. 68756349 -9. 45606646 -6. 03164225 -9. 30502935 -1. 02475445 -0. 21356375
-0. 1545568 -9. 35057084 -7. 25924543 -0. 24070614]

*** 偏微分_バイアス1 ***

[2. 11731712 3. 30705746 1. 40124977 4. 76807961 -1. 67833392 3. 05683144
-3. 32173947 3. 4531565 4. 00088249 -2. 85352711]

*** 偏微分_バイアス2 ***

-9. 457787579482218

順伝播開始

*** 総入力1 ***


```
[ 4.72908001 -9.95374629 6.96334761 -31.98342328 13.6593169  
-2.95793287 28.90676952 -18.18722841 -15.74993209 20.72052961]
```

*** 中間層出力1 ***

```
[9.91242772e-01 4.75469061e-05 9.99054969e-01 1.28758455e-14  
9.99998831e-01 4.93629182e-02 1.00000000e+00 1.26295261e-08  
1.44507818e-07 9.99999999e-01]
```

*** 総入力2 ***

2.0743755167094564

*** 出力1 ***

2.0743755167094564

出力合計: 2.0743755167094564

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 14.79253293 26.65884682 4.37293844 45.22504105 -14.71689159  
30.50086432 -26.58864827 28.48436889 34.52162186 -22.98492236]  
[ 13.71108486 24.70987983 4.05324296 41.91874229 -13.64097349  
28.27101626 -24.64481333 26.40194217 31.99782546 -21.30454754]]
```

*** 偏微分_重み2 ***

```
[-2.03401224e+01 -9.75653916e-04 -2.05004273e+01 -2.64210022e-13  
-2.05197952e+01 -1.01291816e+00 -2.05198192e+01 -2.59155591e-07  
-2.96527429e-06 -2.05198192e+01]
```

*** 偏微分_バイアス1 ***

```
[ 3.17779719 5.7269711 0.93941393 9.71544286 -3.16154759 6.55233025  
-5.71189074 6.11913781 7.41608713 -4.93772244]
```

*** 偏微分_バイアス2 ***

-20.519819187935624

順伝播開始

*** 総入力1 ***

```
[ 4.71328074 -13.88415383 2.0987512 -10.63966713 3.5663833  
6.51563859 13.55661443 -10.58197257 -5.7691294 7.21797446]
```

*** 中間層出力1 ***

```
[9.91104555e-01 9.33658808e-07 8.90781743e-01 2.39464356e-05
```

9. 72518694e-01 9. 98522077e-01 9. 99998705e-01 2. 53686109e-05
3. 11275525e-03 9. 99267251e-01]

*** 総入力2 ***

9. 324918557177776

*** 出力1 ***

9. 324918557177776

出力合計: 9. 324918557177776

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2. 0819222 4. 60350984 -4. 09133276 7. 81003995 -7. 29092232
3. 91768082 -9. 25016915 4. 91904596 5. 96162099 -8. 63074711]
[3. 99965641 -8. 84397006 7. 86000805 -15. 00415158 14. 00685584
-7. 52639901 17. 77083612 -9. 45015796 -11. 45308674 16. 58084194]]

*** 偏微分_重み2 ***

[7. 39693723e+00 6. 96820085e-06 6. 64819529e+00 1. 78720075e-04
7. 25822487e+00 7. 45229662e+00 7. 46331717e+00 1. 89334234e-04
2. 32315098e-02 7. 45785810e+00]

*** 偏微分_バイアス1 ***

[0. 94196068 -2. 08284693 1. 85111364 -3. 53363374 3. 29876023 -1. 77254524
4. 18521673 -2. 22561048 -2. 69732104 3. 90496072]

*** 偏微分_バイアス2 ***

7. 463326841428694

順伝播開始

*** 総入力1 ***

[-2. 5045328 -12. 80513447 1. 77605224 -29. 96223194 10. 44617877
-10. 72182607 22. 8437161 -18. 12188933 -18. 85137982 16. 66930256]

*** 中間層出力1 ***

[7. 55410240e-02 2. 74662625e-06 8. 55208712e-01 9. 71780100e-14
9. 99970942e-01 2. 20577150e-05 1. 00000000e+00 1. 34822836e-08
6. 50054495e-09 9. 99999942e-01]

*** 総入力2 ***

7. 457529838071053

*** 出力1 ***

7. 457529838071053

出力合計: 7. 457529838071053

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.31186543  2.86883763 -1.5857483  4.86712866 -3.46009015  4.44289948
 -4.70866447  3.06550768  3.71937854 -4.32160572]
 [-0.27433514  2.52359797 -1.39491728  4.28141206 -3.04369839  3.90823517
 -4.14201765  2.69660049  3.27178368 -3.80153806]]
```

*** 偏微分_重み2 ***

```
[-3.17094968e-01 -1.15293825e-05 -3.58986898e+00 -4.07919516e-13
 -4.19753052e+00 -9.25906225e-05 -4.19765249e+00 -5.65939412e-08
 -2.72870287e-08 -4.19765225e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.12734821  1.17147106 -0.64752994  1.98746012 -1.41290516  1.81422892
 -1.92275231  1.25177999  1.51878387 -1.7646994 ]
```

*** 偏微分_バイアス2 ***

-4.197652492000084

順伝播開始

*** 総入力1 ***

```
[ -2.73370973 -8.71068399  2.31296036 -25.35603863  9.96240629
 -12.55773844 19.4214468 -14.57971325 -16.95456115 14.85927647]
```

*** 中間層出力1 ***

```
[6.10132837e-02 1.64788325e-04 9.09944738e-01 9.72774862e-12
 9.99952863e-01 3.51756363e-06 9.99999996e-01 4.65704876e-07
 4.33239084e-08 9.99999648e-01]
```

*** 総入力2 ***

8. 901254067776877

*** 出力1 ***

8. 901254067776877

出力合計: 8. 901254067776877

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.04074456  0.31676431 -0.22952917  0.53740713 -0.44762391  0.49056375
 -0.58548333  0.33847999  0.41067756 -0.54274606]
 [-0.01035878  0.08053323 -0.05835482  0.13662881 -0.11380259  0.12471949
 -0.14885156  0.08605416  0.10440946 -0.13798616]]
```

*** 偏微分_重み2 ***

```
[-2.60470235e-02 -7.03493584e-05 -3.88462160e-01 -4.15284806e-12
 -4.26887296e-01 -1.50167401e-06 -4.26907418e-01 -1.98812867e-07
 -1.84952979e-08 -4.26907269e-01]
```

*** 偏微分_バイアス1 ***

```
[-0.0153247  0.11914024 -0.08632968  0.20212761 -0.16835867  0.18450905
 -0.22020986  0.12730786  0.15446255 -0.20413567]
```

*** 偏微分_バイアス2 ***

-0.42690741925849984

順伝播開始

*** 総入力1 ***

```
[ -0.48858099 -19.73415404  1.52128114 -33.06469985  10.41325874
 -6.28203372  26.61522027 -22.14083324 -19.51147828  18.09450837]
```

*** 中間層出力1 ***

```
[3.80227906e-01 2.68884517e-09 8.20727057e-01 4.36700118e-15
 9.99969969e-01 1.86610564e-03 1.00000000e+00 2.42302725e-10
 3.35948456e-09 9.9999986e-01]
```

*** 総入力2 ***

8.99850940703524

*** 出力1 ***

8.99850940703524

出力合計: 8.99850940703524

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.10573976  0.84067303 -0.64909565  1.42625179 -1.20566049  1.30193059
 -1.57154251  0.89830905  1.08991782 -1.4581197 ]
```

```
[-0.51994504  4.1337694 -3.19174239  7.01318564 -5.92849098  6.40187166  
-7.72761126  4.4171781  5.35935947 -7.16988698]]
```

*** 偏微分_重み2 ***

```
[-1.20749100e+00 -8.53897432e-09 -2.60638558e+00 -1.38682998e-14  
-3.17560788e+00 -5.92619774e-03 -3.17570325e+00 -7.69481552e-10  
-1.06687260e-08 -3.17570320e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.1114741  0.8862633 -0.68429655  1.5035984 -1.27104429  1.37253517  
-1.65676834  0.94702497  1.14902481 -1.53719453]
```

*** 偏微分_バイアス2 ***

-3.1757032461464547

順伝播開始

*** 総入力1 ***

```
[ -1.34189664 -4.97699021  1.67232814 -14.5631798  5.6706976  
-7.31389556 11.97682329 -8.67657994 -10.20536762  8.58183659]
```

*** 中間層出力1 ***

```
[2.07198330e-01 6.84757072e-03 8.41885976e-01 4.73468583e-07  
9.96566370e-01 6.65773152e-04 9.9993712e-01 1.70504229e-04  
3.69699701e-05 9.99812555e-01]
```

*** 総入力2 ***

10.041074145683478

*** 出力1 ***

10.041074145683478

出力合計: 10.041074145683478

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.41627245 -2.04150072  1.84411141 -3.46356799  3.25270165 -3.16090507  
  4.13613714 -2.18149032 -2.64680088  3.86101892]  
[ 0.09251867 -0.45373393  0.40986315 -0.76979562  0.7229295 -0.70252725  
  0.91927754 -0.48484733 -0.58826497  0.85813111]]
```

*** 偏微分_重み2 ***

```
[1.02149766e+00 3.37588506e-02 4.15053806e+00 2.33422272e-06
```

4. 91311979e+00 3. 28229343e-03 4. 93001675e+00 8. 40593989e-04
1. 82263718e-04 4. 92912364e+00]

*** 偏微分_バイアス1 ***

[0. 28054144 -1. 37584303 1. 24281505 -2. 33422689 2. 19211624 -2. 13025112
2. 78749617 -1. 47018721 -1. 78377725 2. 6020838]

*** 偏微分_バイアス2 ***

4. 930047751378966

順伝播開始

*** 総入力1 ***

[1. 93302168 2. 54965307 -0. 47600522 9. 54138902 -4. 8971547 6. 3963427
-4. 95920666 4. 16154053 5. 38006947 -6. 22167817]

*** 中間層出力1 ***

[0. 8735835 0. 9275502 0. 38319588 0. 99992819 0. 00741245 0. 99833513
0. 00696958 0. 98465559 0. 99541363 0. 00198197]

*** 総入力2 ***

-5. 910450255804125

*** 出力1 ***

-5. 910450255804125

出力合計: -5. 910450255804125

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 09424977 -0. 64995358 0. 62564736 -1. 06527159 1. 36888644 -0. 97302792
1. 80988807 -0. 67570368 -0. 81576664 1. 67298786]
[-0. 0085417 0. 0589042 -0. 05670136 0. 09654376 -0. 12405987 0. 08818388
-0. 1640271 0. 06123788 0. 07393155 -0. 15162006]]

*** 偏微分_重み2 ***

[-1. 86681301 -1. 98213771 -0. 81887427 -2. 13680656 -0. 0158401 -2. 13340227
-0. 01489371 -2. 10416963 -2. 12715913 -0. 0042354]

*** 偏微分_バイアス1 ***

[-0. 07040323 0. 48550606 -0. 46734965 0. 79574268 -1. 02253864 0. 72683797
-1. 35196057 0. 50474101 0. 60936604 -1. 24969807]

*** 偏微分_バイアス2 ***

-2.1369600234518007

順伝播開始

*** 総入力1 ***

[-1.03171604 -20.78516772 2.54195834 -37.28418148 13.0726985
-10.10638646 29.9877793 -24.25915329 -22.62654923 21.37834311]

*** 中間層出力1 ***

[2.62751548e-01 9.39975112e-10 9.27031408e-01 6.42222800e-17
9.99997898e-01 4.08163721e-05 1.00000000e+00 2.91328914e-11
1.49078333e-10 9.99999999e-01]

*** 総入力2 ***

8.745326040314506

*** 出力1 ***

8.745326040314506

出力合計: 8.745326040314506

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.45951827 1.58382245 -1.26686042 2.81927935 -2.43437606 2.55254808
-3.21809023 1.6899905 2.09854774 -2.97379209]
[-1.36383823 4.7007437 -3.76000866 8.36754751 -7.2251646 7.57589609
-9.55120781 5.01584769 6.2284349 -8.82613729]]

*** 偏微分_重み2 ***

[-1.15509630e+00 -4.13227545e-09 -4.07537293e+00 -2.82331040e-16
-4.39614487e+00 -1.79435062e-04 -4.39615411e+00 -1.28072680e-10
-6.55371324e-10 -4.39615410e+00]

*** 偏微分_バイアス1 ***

[-0.31246338 1.07696809 -0.86144015 1.91705446 -1.6553278 1.73568245
-2.18823801 1.14916027 1.42697115 -2.02212008]

*** 偏微分_バイアス2 ***

-4.396154106395935

順伝播開始

*** 総入力1 ***

```
[ 4.95000168 -9.16911083  0.3305959   1.4858564  -2.34422378 10.57676866
 4.2381186  -3.73029045  2.04418516 -0.83365709]
```

*** 中間層出力1 ***

```
[9.92966425e-01 1.04198270e-04 5.81904361e-01 8.15455526e-01
 8.75259934e-02 9.99974499e-01 9.85770673e-01 2.34240226e-02
 8.85358742e-01 3.02872353e-01]
```

*** 総入力2 ***

```
2.010973347084197
```

*** 出力1 ***

```
2.010973347084197
```

出力合計: 2.010973347084197

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.03335132  3.4677178  -4.06884989  5.25041179 -7.85121131  4.39524122
 -7.95413567  3.69966112  3.80007438 -9.15640122]
 [ 1.20194175 -4.03347313  4.73267943 -6.10701219  9.13213002 -5.11232123
  9.2518464  -4.30325781 -4.42005341 10.65026059]]
```

*** 偏微分_重み2 ***

```
[4.22323816e+00 4.43171186e-04 2.47492830e+00 3.46825715e+00
 3.72261445e-01 4.25304458e+00 4.19263353e+00 9.96259527e-02
 3.76556622e+00 1.28816247e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0.31048826 -1.04193574  1.22255626 -1.57757696  2.35903212 -1.32062618
 2.38995752 -1.11162712 -1.14179802  2.75119898]
```

*** 偏微分_バイアス2 ***

```
4.253153034938573
```

順伝播開始

*** 総入力1 ***

```
[ 0.59615856  0.78740851  0.10294012  1.8854239  -1.60998239  1.50756621
 0.12612776  0.34087524  0.31880416 -1.67948891]
```

*** 中間層出力1 ***

```
[0.64477695 0.68727462 0.52571233 0.86823289 0.16659106 0.81870024
```


0.53149021 0.58440311 0.57903279 0.15716316]

*** 総入力2 ***

-1.7211404490516307

*** 出力1 ***

-1.7211404490516307

出力合計: -1.7211404490516307

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.00368508 -0.04783349 0.05511157 -0.09070934 0.11956871 -0.08739061
0.13012694 -0.05303028 -0.07881377 0.13928262]
[0.00068483 -0.00888932 0.01024187 -0.01685732 0.02222051 -0.01624057
0.02418264 -0.00985509 -0.01464666 0.02588412]]

*** 偏微分_重み2 ***

[-0.57915719 -0.61732981 -0.47220992 -0.77987173 -0.14963688 -0.73538008
-0.47739978 -0.52492767 -0.52010389 -0.14116846]

*** 偏微分_バイアス1 ***

[-0.01509871 0.19598594 -0.22580607 0.37165914 -0.48990327 0.35806145
-0.53316301 0.2172785 0.32291999 -0.57067618]

*** 偏微分_バイアス2 ***

-0.8982287376479388

順伝播開始

*** 総入力1 ***

[-2.31381222 1.08634375 2.15973329 -9.33185907 5.47300893 -9.47155372
7.63057616 -4.19710791 -7.94503754 6.82185752]

*** 中間層出力1 ***

[8.99854809e-02 7.47692600e-01 8.96574820e-01 8.85496078e-05
9.95818974e-01 7.70057293e-05 9.99514854e-01 1.48161873e-02
3.54291019e-04 9.98911491e-01]

*** 総入力2 ***

8.691016610088301

*** 出力1 ***

8. 691016610088301

出力合計: 8. 691016610088301

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0. 34517381 -2. 45728144  2. 74713326 -5. 81150445  5. 23043845 -5. 48975444
    6. 10170407 -3. 05471415 -4. 58777409  6. 07402866]
  [-0. 26009943  1. 85163962 -2. 07005217  4. 37915321 -3. 94130152  4. 13670436
   -4. 59782784  2. 30182415  3. 45703351 -4. 57697354]]
```

*** 偏微分_重み2 ***

```
[4. 77569536e-01 3. 96814247e+00 4. 75828785e+00 4. 69949093e-04
 5. 28499488e+00 4. 08683602e-04 5. 30460960e+00 7. 86322376e-02
 1. 88028775e-03 5. 30140744e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0. 15228963 -1. 08414508  1. 21202681 -2. 56401804  2. 30765349 -2. 42206291
 2. 69205322 -1. 34773056 -2. 02411193  2. 67984292]
```

*** 偏微分_バイアス2 ***

5. 307184353528019

順伝播開始

*** 総入力1 ***

```
[ 0. 16422532 -10. 43747153  1. 42927167 -17. 67967886  5. 61138044
 -4. 39747637 15. 27541373 -12. 02810198 -11. 21225598  9. 72703482]
```

*** 中間層出力1 ***

```
[5. 40964304e-01 2. 93123731e-05 8. 06787808e-01 2. 09803640e-08
 9. 96357299e-01 1. 21587087e-02 9. 99999768e-01 5. 97391570e-06
 1. 35074458e-05 9. 99940355e-01]
```

*** 総入力2 ***

7. 573049563381335

*** 出力1 ***

7. 573049563381335

出力合計: 7. 573049563381335

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.01361149 -0.21782162  0.11887232 -0.34659755  0.25959126 -0.32739587
  0.31144249 -0.18317693 -0.27363335  0.30973155]
 [ 0.07995214 -1.27945614  0.69824071 -2.03586937  1.52480561 -1.92308117
  1.82937306 -1.07595772 -1.60728705  1.81932322]]
```

*** 偏微分_重み2 ***

```
[9.99720793e-01 5.41702820e-05 1.49097185e+00 3.87724403e-08
 1.84130284e+00 2.24697152e-02 1.84803425e+00 1.10400034e-05
 2.49622283e-05 1.84792445e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0.03506345 -0.56111245  0.30621726 -0.89284159  0.6687118  -0.84337771
 0.80228151 -0.47186711 -0.70488448  0.7978741 ]
```

*** 偏微分_バイアス2 ***

1.8480346778973384

順伝播開始

*** 総入力1 ***

```
[-2.69793055  6.23914167  1.15636174 -1.6606086  2.20965347 -7.31445638
 1.02216985  0.88030287 -3.36234168  1.87452545]
```

*** 中間層出力1 ***

```
[6.30955802e-02 9.98052271e-01 7.60670995e-01 1.59680317e-01
 9.01113052e-01 6.65400126e-04 7.35395044e-01 7.06884979e-01
 3.34933367e-02 8.66981042e-01]
```

*** 総入力2 ***

3.637685039790913

*** 出力1 ***

3.637685039790913

出力合計: 3.637685039790913

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.01543845 -1.27338037  0.77744555 -2.5577342  1.86967641 -2.43365269
  2.42573604 -1.20366887 -2.03162292  2.29379943]
 [-0.01859056  1.5333694  -0.93617842  3.07995274 -2.2514126  2.93053722
 -2.92100421  1.44942474  2.4464241  -2.7621298 ]]
```

*** 偏微分_重み2 ***

[1.39674008e-01 2.20937758e+00 1.68388920e+00 3.53482601e-01
1.99478428e+00 1.47298911e-03 1.62793610e+00 1.56482368e+00
7.41438395e-02 1.91922661e+00]

*** 偏微分_バイアス1 ***

[0.00641451 -0.52907622 0.32302049 -1.06271179 0.77683098 -1.01115722
1.00786794 -0.50011182 -0.84411806 0.95304966]

*** 偏微分_バイアス2 ***

2.2136892501016945

順伝播開始

*** 総入力1 ***

[-0.08758854 16.01331447 -1.24661304 23.92055546 -9.06098004
5.77975939 -17.7229703 15.15243812 12.85976709 -14.18397248]

*** 中間層出力1 ***

[4.78116853e-01 9.99999889e-01 2.23286989e-01 1.00000000e+00
1.16095650e-04 9.96920057e-01 2.00914733e-08 9.9999737e-01
9.99997399e-01 6.91797069e-07]

*** 総入力2 ***

-7.279043512458125

*** 出力1 ***

-7.279043512458125

出力合計: -7.279043512458125

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3.20773671e-06 2.00285994e-03 -1.01844267e-03 2.86314885e-03
-2.91806720e-03 2.67669063e-03 -3.65447779e-03 1.65428210e-03
2.23943254e-03 -3.59389037e-03]
[-5.28355984e-04 3.29897100e-01 -1.67750762e-01 4.71597879e-01
-4.80643647e-01 4.40885784e-01 -6.01940054e-01 2.72481791e-01
3.68863686e-01 -5.91960519e-01]]

*** 偏微分_重み2 ***

[1.55508623e-01 3.25252300e-01 7.26246146e-02 3.25252336e-01

3. 77603813e-05 3. 24250577e-01 6. 53479863e-09 3. 25252250e-01
3. 25251490e-01 2. 25008613e-07]

*** 偏微分_バイアス1 ***

[1. 40227997e-04 -8. 75561383e-02 4. 45217886e-02 -1. 25164147e-01
1. 27564934e-01 -1. 17013022e-01 1. 59757533e-01 -7. 23178635e-02
-9. 78980414e-02 1. 57108920e-01]

*** 偏微分_バイアス2 ***

0. 3252523359047066

順伝播開始

*** 総入力1 ***

[-2. 66995655 -22. 43169004 3. 87365167 -47. 41613099 18. 12219618
-18. 26470917 37. 06325528 -29. 00875293 -29. 70845062 27. 95541526]

*** 中間層出力1 ***

[6. 47696004e-02 1. 81151025e-10 9. 79640772e-01 2. 55526506e-21
9. 99999987e-01 1. 16879297e-08 1. 00000000e+00 2. 52149827e-13
1. 25251758e-13 1. 00000000e+00]

*** 総入力2 ***

6. 386323242185674

*** 出力1 ***

6. 386323242185674

出力合計: 6. 386323242185674

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 0701084 10. 78168449 -3. 37754819 15. 33699523 -9. 55669934
14. 32900631 -11. 96847143 8. 93593166 12. 03434438 -11. 77004662]
[0. 08450049 12. 99498541 -4. 07090279 18. 48542585 -11. 51853114
17. 27051354 -14. 42540002 10. 77033015 14. 50479559 -14. 18624189]]

*** 偏微分_重み2 ***

[-6. 56910407e-01 -1. 83728158e-09 -9. 93577564e+00 -2. 59161736e-20
-1. 01422642e+01 -1. 18542072e-07 -1. 01422643e+01 -2. 55737019e-12
-1. 27033644e-12 -1. 01422643e+01]

*** 偏微分_バイアス1 ***

```
[ 0.0229497  3.52934115 -1.10562685  5.02050385 -3.12834718  4.69054272
-3.9178311  2.92514137  3.93939434 -3.85287753]
```

*** 偏微分_バイアス2 ***

-10.142264316085807

順伝播開始

*** 総入力1 ***

```
[ 2.47412871 -11.31259426  0.93547806 -10.20355075  2.14685912
 0.80521393 10.86662673 -8.87025632 -6.42412433  5.13010834]
```

*** 中間層出力1 ***

```
[9.22308127e-01 1.22179243e-05 7.18185342e-01 3.70371984e-05
8.95374909e-01 6.91088684e-01 9.99980916e-01 1.40486830e-04
1.61932649e-03 9.94118873e-01]
```

*** 総入力2 ***

8.081462062281881

*** 出力1 ***

8.081462062281881

出力合計: 8.081462062281881

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -0.08063294  3.73329374 -2.94265034  5.31062732 -5.03374863
   4.41333284 -5.64181598  3.09417861  4.16704024 -5.588188 ]
 [ 0.15662367 -7.25165327  5.7158856 -10.31550975  9.77769291
 -8.57258007 10.95881979 -6.01021833 -8.09417449 10.85465131]]
```

*** 偏微分_重み2 ***

```
[6.13797026e+00 8.13104143e-05 4.77953098e+00 2.46482944e-04
5.95872941e+00 4.59920244e+00 6.65488348e+00 9.34941325e-04
1.07766348e-02 6.61587152e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0.05001817 -2.31583418  1.82538282 -3.29428466  3.12253146 -2.73767557
 3.49972738 -1.91937873 -2.58489551  3.4664609 ]
```

*** 偏微分_バイアス2 ***

6.6550104867627

順伝播開始

*** 総入力1 ***

[-0.68429119 -8.99919159 1.69169628 -18.11791778 6.66800959
-7.90089502 14.90842129 -11.49175748 -12.27592349 10.50235775]

*** 中間層出力1 ***

[3.35304228e-01 1.23494358e-04 8.44447107e-01 1.35359356e-08
9.98730687e-01 3.70274710e-04 9.9999665e-01 1.02138318e-05
4.66264278e-06 9.99972529e-01]

*** 総入力2 ***

7.510254897828387

*** 出力1 ***

7.510254897828387

出力合計: 7.510254897828387

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.19436618 -0.70842171 0.38958472 -1.00773776 0.74558205 -1.10535033
0.88410761 -0.58717552 -0.79110972 0.87217393]
[-0.23900754 -0.87112956 0.4790632 -1.2391915 0.91682477 -1.35922339
1.0871664 -0.72203597 -0.97280907 1.07249184]]

*** 偏微分_重み2 ***

[6.79612936e-01 2.50305115e-04 1.71157155e+00 2.74353741e-08
2.02428195e+00 7.50493022e-04 2.02685398e+00 2.07019526e-05
9.45049924e-06 2.02679898e+00]

*** 偏微分_バイアス1 ***

[-0.1935138 -0.70531496 0.38787622 -1.00331839 0.74231235 -1.10050288
0.88023041 -0.5846005 -0.78764035 0.86834907]

*** 偏微分_バイアス2 ***

2.0268546592384293

順伝播開始

*** 総入力1 ***

[4.91911597 23.78098633 -5.28013064 54.12103798 -25.15981336
29.30981846 -38.437877 30.18333663 34.00565368 -34.87376366]

*** 中間層出力1 ***

[9.92747398e-01 1.00000000e+00 5.06597082e-03 1.00000000e+00
1.18367342e-11 1.00000000e+00 2.02601252e-17 1.00000000e+00
1.00000000e+00 7.15347200e-16]

*** 総入力2 ***

-8.19979636434565

*** 出力1 ***

-8.19979636434565

出力合計: -8.19979636434565

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.44250917 10.846602 -7.83176231 15.42921784 -17.04180017
16.92414911 -20.47998053 8.99010707 12.11248579 -20.18433411]
[1.63195264 5.14192987 -3.71271782 7.31436039 -8.07881964
8.02304609 -9.70872016 4.26184164 5.74203354 -9.5685663]]

*** 偏微分_重み2 ***

[8.99815122e+00 9.06388799e+00 4.59173921e-02 9.06388799e+00
1.07286833e-10 9.06388799e+00 1.83635505e-16 9.06388799e+00
9.06388799e+00 6.48382689e-15]

*** 偏微分_バイアス1 ***

[-0.7872846 -2.48056353 1.7910848 -3.5285848 3.8973743 -3.8704681
4.68366892 -2.0559244 -2.7700648 4.61605607]

*** 偏微分_バイアス2 ***

9.063887994172825

順伝播開始

*** 総入力1 ***

[1.18257976 4.72916506 -1.17839607 9.26133861 -5.67289358 5.85381564
-6.13698804 4.68240207 5.21053151 -7.15341516]

*** 中間層出力1 ***

[7.65411334e-01 9.91243510e-01 2.35340710e-01 9.99904981e-01
3.42612434e-03 9.97139276e-01 2.15676226e-03 9.90828150e-01
9.94570865e-01 7.81576877e-04]

*** 総入力2 ***

-12.141132887896802

*** 出力1 ***

-12.141132887896802

出力合計: -12.141132887896802

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.30845737 -2.25719638 1.09524773 -2.90067049 2.42623823 -3.11749043
2.91573656 -1.99219847 -2.43442514 2.87364825]
[-0.93536435 -1.61358029 0.78294923 -2.07357445 1.73442162 -2.22857044
2.08434458 -1.42414379 -1.74027412 2.05425732]]

*** 偏微分_重み2 ***

[-7.28207038e+00 -9.43062205e+00 -2.23901520e+00 -9.51302669e+00
-3.25959095e-02 -9.48671396e+00 -2.05192867e-02 -9.42667035e+00
-9.46227828e+00 -7.43586824e-03]

*** 偏微分_バイアス1 ***

[2.20618757 3.80585467 -1.84669519 4.89081519 -4.09087582 5.25639488
-4.91621804 3.35904218 4.10467976 -4.84525303]

*** 偏微分_バイアス2 ***

-9.513930693300747

順伝播開始

*** 総入力1 ***

[5.90272895 10.82219739 -6.34426696 34.95922042 -21.79177431
26.95477785 -25.81454448 17.14827825 23.36937178 -27.13851517]

*** 中間層出力1 ***

[9.97275464e-01 9.99980049e-01 1.75370918e-03 1.00000000e+00
3.43520506e-10 1.00000000e+00 6.15015099e-12 9.99999964e-01
1.00000000e+00 1.63641184e-12]

*** 総入力2 ***

-8.152416088139697

*** 出力1 ***

-8.152416088139697

出力合計: -8.152416088139697

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.2679213   3.08722144 -2.71206635  4.40298432 -4.94818149  4.84063271
    -5.94272487  2.54948858  3.4492554  -5.85436471]
  [-0.3746227  -0.91215694  0.80131283 -1.30091501  1.46200012 -1.43022353
    1.75585     -0.75327726 -1.01912426  1.72974292]]
```

*** 偏微分_重み2 ***

```
[2.57271055e+00 2.57968767e+00 4.52411220e-03 2.57973914e+00
 8.86193294e-10 2.57973914e+00 1.58657852e-11 2.57973905e+00
 2.57973914e+00 4.22151567e-12]
```

*** 偏微分_バイアス1 ***

```
[-0.28461371 -0.69299691  0.60878484 -0.98834975  1.11073163 -1.08658986
 1.33397946 -0.57229057 -0.77426365  1.31414501]
```

*** 偏微分_バイアス2 ***

2.5797391401462892

順伝播開始

*** 総入力1 ***

```
[ -1.96918885 -23.39273818  4.80988372 -43.38719791  18.80768667
 -20.1155186   35.91681289 -26.87861333 -28.30716557  27.87091416]
```

*** 中間層出力1 ***

```
[1.22476039e-01 6.92887764e-11 9.91917059e-01 1.43608241e-19
 9.99999993e-01 1.83629001e-09 1.00000000e+00 2.12210345e-12
 5.08574047e-13 1.00000000e+00]
```

*** 総入力2 ***

7.009841068952917

*** 出力1 ***

7.009841068952917

出力合計: 7.009841068952917

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.83253495  3.84231938 -1.85024994  5.28878743 -3.36437567  5.76989752
 -4.04058722  3.25122587  4.24034621 -3.98050924]
 [ 3.22878947  6.76987928 -3.26000197  9.31844776 -5.92777822 10.16612775
 -7.11921238  5.72841673  7.47117278 -7.01335947]]
```

*** 偏微分_重み2 ***

```
[-6.46178985e-01 -3.65564984e-10 -5.23331718e+00 -7.57671688e-19
 -5.27596243e+00 -9.68819717e-09 -5.27596247e+00 -1.11961381e-11
 -2.68321759e-12 -5.27596247e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0.97308929  2.04029933 -0.98249608  2.8083843 -1.78650777  3.06385724
 -2.14558098  1.72642441  2.25165445 -2.11367914]
```

*** 偏微分_バイアス2 ***

-5.275962468358652

順伝播開始

*** 総入力1 ***

```
[-0.80424005 -20.06064374  3.07899088 -31.64574275 12.0533541
 -12.73144862 26.44510336 -20.8580468 -20.57298649 18.97454109]
```

*** 中間層出力1 ***

```
[3.09119261e-01 1.93987220e-09 9.56017773e-01 1.80479777e-14
 9.99994175e-01 2.95665625e-06 1.00000000e+00 8.73907309e-10
 1.16215884e-09 9.99999994e-01]
```

*** 総入力2 ***

8.67920451317978

*** 出力1 ***

8.67920451317978

出力合計: 8.67920451317978

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -0.03404387 -0.07756368  0.05269826 -0.10676308  0.08247965 -0.11647509
  0.09612989 -0.06563147 -0.08559853  0.09491712]
 [ -0.34156958 -0.7782134  0.52873312 -1.07117728  0.82753632 -1.16862007
  0.96449223 -0.65849485 -0.85882872  0.95232419]]
```

*** 偏微分_重み2 ***

[1. 76369852e-01 1. 10680574e-09 5. 45461685e-01 1. 02973822e-14
5. 70552686e-01 1. 68693799e-06 5. 70556009e-01 4. 98613066e-10
6. 63076711e-10 5. 70556006e-01]

*** 偏微分_バイアス1 ***

[-0. 09684361 -0. 22064316 0. 1499092 -0. 30370583 0. 23462746 -0. 33133332
0. 27345792 -0. 18669993 -0. 24349964 0. 27000797]

*** 偏微分_バイアス2 ***

0. 5705560092056903

順伝播開始

*** 総入力1 ***

[5. 24361488 32. 28320392 -8. 02266532 61. 38119599 -30. 79433115
33. 97082904 -47. 64302834 35. 59809256 38. 95572995 -42. 38048012]

*** 中間層出力1 ***

[9. 94746612e-01 1. 00000000e+00 3. 27837268e-04 1. 00000000e+00
4. 22855426e-14 1. 00000000e+00 2. 03655288e-21 1. 00000000e+00
1. 00000000e+00 3. 92998909e-19]

*** 総入力2 ***

-9. 052802888233163

*** 出力1 ***

-9. 052802888233163

出力合計: -9. 052802888233163

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3. 39486054 7. 40307151 -7. 73931462 10. 19000964 -12. 48493435
11. 11697438 -14. 59143238 6. 26420014 8. 16995755 -14. 40428053]
[3. 84817156 8. 39159338 -8. 77273458 11. 5506675 -14. 15203033
12. 60140856 -16. 53980612 7. 1006501 9. 26088066 -16. 32766414]]

*** 偏微分_重み2 ***

[7. 62746050e+00 7. 66774212e+00 2. 51377163e-03 7. 66774212e+00
3. 24234636e-13 7. 66774212e+00 1. 56157623e-20 7. 66774212e+00
7. 66774212e+00 3. 01341429e-18]

*** 偏微分_バイアス1 ***

[-1.06939844 -2.3320054 2.4379237 -3.20990517 3.9328182 -3.50190381
4.59637586 -1.97325509 -2.57357843 4.53742207]

*** 偏微分_バイアス2 ***

7.667742120483144

順伝播開始

*** 総入力1 ***

[4.15137562 33.77911296 -8.78628951 54.81427561 -28.60135828
28.39368385 -45.54878071 33.35881586 34.42468137 -39.53605041]

*** 中間層出力1 ***

[9.84501247e-01 1.00000000e+00 1.52790583e-04 1.00000000e+00
3.78955248e-13 1.00000000e+00 1.65354448e-20 1.00000000e+00
1.00000000e+00 6.75633957e-18]

*** 総入力2 ***

-12.791874339326428

*** 出力1 ***

-12.791874339326428

出力合計: -12.791874339326428

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.14689442 0.24477312 -0.18994626 0.3131825 -0.30646056 0.33593617
-0.35816757 0.21681789 0.26359743 -0.35357366]
[0.58953147 0.98234807 -0.76231142 1.25689547 -1.22991832 1.34821281
-1.43743407 0.87015535 1.0578957 -1.41899733]]

*** 偏微分_重み2 ***

[4.88142137e-01 4.95826834e-01 7.57576709e-05 4.95826834e-01
1.87896181e-13 4.95826834e-01 8.19871725e-21 4.95826834e-01
4.95826834e-01 3.34997446e-18]

*** 偏微分_バイアス1 ***

[-0.12189815 -0.20312133 0.15762408 -0.25988983 0.25431173 -0.27877163
0.29722002 -0.1799231 -0.2187424 0.29340784]

*** 偏微分_バイアス2 ***

0.4958268343654044

順伝播開始

*** 総入力1 ***

[-6.76974068 -5.00630035 8.00543652 -28.51183651 20.07453614
-27.26101733 24.40596495 -13.74026342 -22.07622635 24.23036311]

*** 中間層出力1 ***

[1.14667593e-03 6.65109578e-03 9.99666467e-01 4.14444839e-13
9.99999998e-01 1.44774010e-12 1.00000000e+00 1.07814940e-06
2.58473912e-10 1.00000000e+00]

*** 総入力2 ***

8.16621946349932

*** 出力1 ***

8.16621946349932

出力合計: 8.16621946349932

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.12835853 0.2131337 -0.10063617 0.27172749 -0.16234272 0.29121562
-0.1897337 0.18919289 0.22925875 -0.18730015]
[-0.08426416 -0.13991692 0.06606512 -0.17838228 0.10657392 -0.19117574
0.12455541 -0.12420039 -0.15050262 0.12295785]]

*** 偏微分_重み2 ***

[-9.43883723e-05 -5.47483458e-04 -8.22873211e-02 -3.41149340e-14
-8.23147756e-02 -1.19170402e-13 -8.23147758e-02 -8.87476263e-08
-2.12762221e-11 -8.23147758e-02]

*** 偏微分_バイアス1 ***

[0.02625282 0.04359165 -0.02058284 0.05557568 -0.03320351 0.05956153
-0.03880572 0.03869511 0.04688967 -0.03830799]

*** 偏微分_バイアス2 ***

-0.08231477579958657

順伝播開始

*** 総入力1 ***

[-1.97064334 4.74213854 1.64154491 -1.22714364 2.42566211 -5.80405387
1.68727425 0.54980494 -2.8844016 2.10117645]

*** 中間層出力1 ***

[0.1223198 0.9913554 0.83774504 0.22668175 0.91876335 0.00300624
0.84386536 0.63409033 0.05293006 0.89101747]

*** 総入力2 ***

3.0129345928332314

*** 出力1 ***

3.0129345928332314

出力合計: 3.0129345928332314

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.27270745 -1.67485375 1.07854929 -2.66990552 1.68001649 -2.89829843
2.02451466 -1.70565934 -2.28008585 1.96049036]
[1.6132187 2.12295873 -1.36711377 3.38423533 -2.12950275 3.67373446
-2.56617096 2.16200632 2.89011991 -2.48501705]]

*** 偏微分_重み2 ***

[0.2623334 2.12611231 1.79667156 0.48615345 1.97042763 0.00644734
1.8097975 1.35990308 0.11351655 1.91092237]

*** 偏微分_バイアス1 ***

[-0.68144281 -0.89676307 0.57748515 -1.42954134 0.89952734 -1.55182922
1.0839812 -0.91325724 -1.22082109 1.04970082]

*** 偏微分_バイアス2 ***

2.144651965661138

順伝播開始

*** 総入力1 ***

[-2.02253386 -4.99675874 3.1667947 -14.23847868 7.95805572
-10.28875057 12.98403629 -8.21237503 -10.7780697 10.60854201]

*** 中間層出力1 ***

[1.16857238e-01 6.71443353e-03 9.59565403e-01 6.55099089e-07
9.99650290e-01 3.40124275e-05 9.99977703e-01 2.71202098e-04
2.08513775e-05 9.99975297e-01]

*** 総入力2 ***
7. 322307575307469

*** 出力1 ***
7. 322307575307469

出力合計: 7. 322307575307469

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1. 71171028 -3. 00895425 1. 22431397 -3. 62956404 2. 00385294 -3. 84206682
2. 3765868 -2. 62201523 -3. 03473218 2. 3371208]
[0. 41613571 0. 73151007 -0. 29764427 0. 88238718 -0. 48715882 0. 93404896
-0. 57777455 0. 63744092 0. 73777697 -0. 56817993]]

*** 偏微分_重み2 ***

[3. 99565612e-01 2. 29584131e-02 3. 28100633e+00 2. 23995597e-06
3. 41806709e+00 1. 16297430e-04 3. 41925499e+00 9. 27311256e-04
7. 12963401e-05 3. 41917837e+00]

*** 偏微分_バイアス1 ***

[-1. 10243662 -1. 93793388 0. 78852628 -2. 3376411 1. 29059273 -2. 4745047
1. 53065407 -1. 68872363 -1. 9545363 1. 50523577]

*** 偏微分_バイアス2 ***

3. 419262841563289

順伝播開始

*** 総入力1 ***

[6. 21909356 29. 93765048 -10. 44380591 56. 03016913 -31. 99536443
34. 14798746 -46. 39709297 32. 35381861 36. 32573314 -42. 45728899]

*** 中間層出力1 ***

[9. 98012907e-01 1. 00000000e+00 2. 91272896e-05 1. 00000000e+00
1. 27230075e-14 1. 00000000e+00 7. 07943419e-21 1. 00000000e+00
1. 00000000e+00 3. 63943255e-19]

*** 総入力2 ***

-13. 769209137730076

*** 出力1 ***

-13.769209137730076

出力合計: -13.769209137730076

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.19617272  0.3363332 -0.17378629  0.40541143 -0.31672169  0.42914854
    -0.38407729  0.29288086  0.33897122 -0.37694664]
  [ 0.19477212  0.33393191 -0.17254553  0.40251696 -0.31446042  0.42608459
    -0.38133513  0.29078981  0.3365511  -0.37425539]]
```

*** 偏微分_重み2 ***

```
[2.67282082e-01 2.67814254e-01 7.80070331e-06 2.67814254e-01
 3.40740275e-15 2.67814254e-01 1.89597338e-21 2.67814254e-01
 2.67814254e-01 9.74691913e-20]
```

*** 偏微分_バイアス1 ***

```
[-0.06967734 -0.11946004  0.06172604 -0.1439955  0.11249436 -0.15242653
 0.13641796 -0.10402648 -0.12039702  0.13388527]
```

*** 偏微分_バイアス2 ***

0.26781425351840404

順伝播開始

*** 総入力1 ***

```
[ -3.44937254 -9.92548007  5.58714031 -26.26394198  15.25238394
 -18.37945838  23.24598696 -14.73747568 -18.87601891  20.10573629]
```

*** 中間層出力1 ***

```
[3.07875770e-02 4.89099853e-05 9.96268254e-01 3.92387286e-12
 9.99999762e-01 1.04208379e-08 1.00000000e+00 3.97736514e-07
 6.34233449e-09 9.99999998e-01]
```

*** 総入力2 ***

6.2861790336745225

*** 出力1 ***

6.2861790336745225

出力合計: 6.2861790336745225

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.87924618  1.5004236 -0.47640131  1.80606448 -0.86673789  1.91109076
    -1.05106254  1.30816608  1.51209568 -1.03154886]
  [-0.10054438 -0.17157785  0.05447789 -0.20652878  0.09911402 -0.21853884
    0.12019209 -0.14959263 -0.17291258  0.11796064]]
```

*** 偏微分_重み2 ***

```
[-3.07317448e-02 -4.88212889e-05 -9.94461558e-01 -3.91675706e-12
 -9.98186300e-01 -1.04019401e-08 -9.98186537e-01 -3.97015233e-07
 -6.33083290e-09 -9.98186535e-01]
```

*** 偏微分_バイアス1 ***

```
[ 0.33450405  0.57082735 -0.18124408  0.68710663 -0.32974534  0.72706326
 -0.39987057  0.49768411  0.57526793 -0.39244671]
```

*** 偏微分_バイアス2 ***

-0.9981865371455187

順伝播開始

*** 総入力1 ***

```
[ 3.72612235 10.68997397 -5.12446271 24.26368228 -15.80214764
 17.55827234 -19.29557668 12.68553189 15.73403793 -19.83804462]
```

*** 中間層出力1 ***

```
[9.76480441e-01 9.99977228e-01 5.91422689e-03 1.00000000e+00
 1.37155876e-07 9.99999976e-01 4.16905399e-09 9.99996904e-01
 9.99999853e-01 2.42352046e-09]
```

*** 総入力2 ***

-13.793620356853173

*** 出力1 ***

-13.793620356853173

出力合計: -13.793620356853173

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [-4.0271858 -6.80817318 3.75239022 -8.19494492 6.62302117 -8.67149751
   7.97527031 -5.93575938 -6.86107378 7.83211346]
  [-0.25815194 -0.43641967 0.2405369 -0.52531495 0.424551 -0.55586307
   0.5112333 -0.38049592 -0.43981072 0.50205661]]
```

*** 偏微分_重み2 ***

[-7.18393806e+00 -7.35680324e+00 -4.35107944e-02 -7.35697077e+00
-1.00905177e-06 -7.35697060e+00 -3.06716083e-08 -7.35694800e+00
-7.35696969e+00 -1.78297692e-08]

*** 偏微分_バイアス1 ***

[1.95720788 3.30876469 -1.82365753 3.98273423 -3.21878102 4.21433827
-3.87597261 2.88477254 3.33447432 -3.80639854]

*** 偏微分_バイアス2 ***

-7.356970770238084

順伝播開始

*** 総入力1 ***

[5.40946968 20.92577626 -8.72932551 46.18459073 -27.65347049
30.34721738 -37.52423226 25.0432165 30.02712399 -35.88421155]

*** 中間層出力1 ***

[9.95545915e-01 9.99999999e-01 1.61745367e-04 1.00000000e+00
9.77800742e-13 1.00000000e+00 5.05164698e-17 1.00000000e+00
1.00000000e+00 2.60426357e-16]

*** 総入力2 ***

-10.23435374662373

*** 出力1 ***

-10.23435374662373

出力合計: -10.23435374662373

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.37489835 2.90997435 -2.07624447 3.67495629 -3.65334644 3.93782899
-4.39926485 2.42875753 2.93917515 -4.32029763]
[0.39370699 0.83328142 -0.59453993 1.0523367 -1.04614864 1.12761122
-1.25974501 0.69548329 0.84164317 -1.23713247]]

*** 偏微分_重み2 ***

[2.35682440e+00 2.36736886e+00 3.82910946e-04 2.36736886e+00
2.31481503e-12 2.36736886e+00 1.19591118e-16 2.36736886e+00
2.36736886e+00 6.16525248e-16]

*** 偏微分_バイアス1 ***

[-0.38979663 -0.82500514 0.58863486 -1.04188472 1.03575813 -1.11641161
1.24723302 -0.68857564 -0.83328384 1.22484507]

*** 偏微分_バイアス2 ***

2.367368861828016

順伝播開始

*** 総入力1 ***

[4.11130785 22.5656514 -7.33608284 40.6408537 -23.02351041
23.95022122 -33.43450647 23.53852198 25.87011324 -30.68309718]

*** 中間層出力1 ***

[9.83877853e-01 1.00000000e+00 6.51173637e-04 1.00000000e+00
1.00234326e-10 1.00000000e+00 3.01702102e-15 1.00000000e+00
1.00000000e+00 4.72607062e-14]

*** 総入力2 ***

-11.380728382981712

*** 出力1 ***

-11.380728382981712

出力合計: -11.380728382981712

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.43892443 -0.84384548 0.55058472 -1.04671117 0.96883155 -1.11642242
1.16664178 -0.71623151 -0.85158925 1.14570045]
[-0.61724732 -1.18667661 0.77427211 -1.47196104 1.36244108 -1.56999405
1.64061614 -1.00721661 -1.19756646 1.61116693]]

*** 偏微分_重み2 ***

[-1.25293920e+00 -1.27347028e+00 -8.29250272e-04 -1.27347028e+00
-1.27645435e-10 -1.27347028e+00 -3.84208659e-15 -1.27347028e+00
-1.27347028e+00 -6.01851046e-14]

*** 偏微分_バイアス1 ***

[0.25241939 0.4852839 -0.31663369 0.60194917 -0.55716167 0.64203915
-0.67091961 0.41189487 0.48973724 -0.65887654]

*** 偏微分_バイアス2 ***

-1.2734702785551377

順伝播開始

*** 総入力1 ***

[-3.29308149 -15.17288451 6.15754513 -32.35800519 17.39244082
-19.94829559 28.43772041 -19.08725096 -22.48185818 23.69095117]

*** 中間層出力1 ***

[3.58092989e-02 2.57335601e-07 9.97887029e-01 8.85313121e-15
9.99999972e-01 2.17052754e-09 1.00000000e+00 5.13466637e-09
1.72287215e-10 1.00000000e+00]

*** 総入力2 ***

7.086811716734652

*** 出力1 ***

7.086811716734652

出力合計: 7.086811716734652

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.72432645 1.46739483 -0.62136295 1.83717277 -1.09224585 1.9642405
-1.31525405 1.23478364 1.48150995 -1.29164512]
[0.30421 0.61629143 -0.26096634 0.77159454 -0.45873254 0.82496174
-0.5523938 0.51859701 0.62221964 -0.54247828]]

*** 偏微分_重み2 ***

[-5.12450716e-02 -3.68261364e-07 -1.42803109e+00 -1.26693165e-14
-1.43105483e+00 -3.10614400e-09 -1.43105487e+00 -7.34798932e-09
-2.46552457e-10 -1.43105487e+00]

*** 偏微分_バイアス1 ***

[0.32653709 0.66152332 -0.28011962 0.82822469 -0.4924006 0.8855087
-0.592936 0.55665875 0.66788662 -0.58229274]

*** 偏微分_バイアス2 ***

-1.431054869553722

順伝播開始

*** 総入力1 ***

```
[ -2.38921683 -21.9138837    5.76173909 -35.23791982  16.47579751
-17.40471835  31.11186664 -22.82024364 -23.64580685  23.91572475]
```

*** 中間層出力1 ***

```
[8.39986715e-02 3.04033355e-10 9.96864228e-01 4.97010846e-16
9.99999930e-01 2.76202019e-08 1.00000000e+00 1.22827076e-10
5.37968152e-11 1.00000000e+00]
```

*** 総入力2 ***

7.542442791564255

*** 出力1 ***

7.542442791564255

出力合計: 7.542442791564255

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.08931271  0.18191236 -0.08481192  0.22775359 -0.14315593  0.24350613
   -0.17080217  0.15307565  0.18366221 -0.16787538]
 [ 0.47497985  0.96744019 -0.45104391  1.21123147 -0.76132706  1.29500608
   -0.90835435  0.81408174  0.97674618 -0.89278919]]
```

*** 偏微分_重み2 ***

```
[-5.49899542e-02 -1.99036247e-10 -6.52599824e-01 -3.25369476e-16
-6.54652620e-01 -1.80816388e-08 -6.54652666e-01 -8.04090727e-11
-3.52182285e-11 -6.54652666e-01]
```

*** 偏微分_バイアス1 ***

```
[ 0.14857675  0.30262152 -0.14108944  0.378881   -0.238148    0.40508624
-0.28413909  0.25465001  0.30553249 -0.27927021]
```

*** 偏微分_バイアス2 ***

-0.6546526658515681

順伝播開始

*** 総入力1 ***

```
[ -4.29402137 -19.8830075    7.79152381 -40.85847376  22.04332097
-25.21743947  35.55907955 -24.16073229 -28.1765511   29.93203326]
```

*** 中間層出力1 ***

```
[1.34661120e-02 2.31696544e-09 9.99586948e-01 1.80048831e-18
```

1.00000000e+00 1.11739106e-11 1.00000000e+00 3.21460255e-11
5.79534556e-13 1.00000000e+00]

*** 総入力2 ***

7.83858480812959

*** 出力1 ***

7.83858480812959

出力合計: 7.83858480812959

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.56754081 3.20083854 -1.55263754 4.00743779 -2.58128677 4.28461152
-3.06773616 2.69344217 3.231628 -3.01623783]
[0.81957259 1.67352552 -0.81178057 2.09524764 -1.34959925 2.24016507
-1.60393431 1.40823854 1.68962347 -1.57700894]]

*** 偏微分_重み2 ***

[-3.59090508e-02 -6.17847451e-09 -2.66552205e+00 -4.80122445e-18
-2.66662351e+00 -2.97966126e-11 -2.66662351e+00 -8.57213474e-11
-1.54540047e-12 -2.66662351e+00]

*** 偏微分_バイアス1 ***

[0.60367842 1.23268062 -0.597939 1.54331148 -0.99408393 1.65005435
-1.18142132 1.0372763 1.244538 -1.16158871]

*** 偏微分_バイアス2 ***

-2.6666235061304127

順伝播開始

*** 総入力1 ***

[3.99483001 17.31377025 -6.40816849 33.51808663 -19.86625131
21.45295921 -27.10544998 18.74682186 21.50579352 -25.88098291]

*** 中間層出力1 ***

[9.81922246e-01 9.99999970e-01 1.64532858e-03 1.00000000e+00
2.35611605e-09 1.00000000e+00 1.69142460e-12 9.99999993e-01
1.00000000e+00 5.75482252e-12]

*** 総入力2 ***

-10.4138246884872

*** 出力1 ***

-10.4138246884872

出力合計: -10.4138246884872

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.6687884 -1.35806637 1.23914295 -1.70029395 1.94506166 -1.81789449
2.27876085 -1.14278591 -1.37112985 2.24343353]
[-0.47663538 -0.96787336 0.88311844 -1.21177378 1.38621602 -1.29558591
1.62403839 -0.81444623 -0.9771835 1.59886115]]

*** 偏微分_重み2 ***

[-1.91882487e+00 -1.95415148e+00 -3.21522138e-03 -1.95415154e+00
-4.60420781e-09 -1.95415154e+00 -3.30530000e-12 -1.95415153e+00
-1.95415154e+00 -1.12457953e-11]

*** 偏微分_バイアス1 ***

[0.34985228 0.71042294 -0.64821248 0.88944683 -1.01748813 0.95096526
-1.1920507 0.59780681 0.71725662 -1.17357051]

*** 偏微分_バイアス2 ***

-1.954151542135513

順伝播開始

*** 総入力1 ***

[4.38248841 8.039628 -5.76831653 25.88375788 -17.96752069
21.09630371 -20.20104516 12.21168671 17.17652011 -21.91769894]

*** 中間層出力1 ***

[9.87659950e-01 9.99677675e-01 3.11527866e-03 1.00000000e+00
1.57327596e-08 9.99999999e-01 1.68576704e-09 9.99995028e-01
9.99999965e-01 3.02875605e-10]

*** 総入力2 ***

-9.463092203168875

*** 出力1 ***

-9.463092203168875

出力合計: -9.463092203168875

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.9259787 -2.05112109 2.02105915 -2.60889985 3.17188975 -2.80067574
 3.71606635 -1.69975311 -2.07211882 3.65845669]
 [ 0.31794302 0.70427067 -0.69394863 0.89578896 -1.08909655 0.96163692
 -1.27594443 0.58362535 0.71148042 -1.25616364]]
```

*** 偏微分_重み2 ***

```
[-1.82852088e+00 -1.85077009e+00 -5.76752360e-03 -1.85136684e+00
 -2.91271093e-08 -1.85136683e+00 -3.12097319e-09 -1.85135763e+00
 -1.85136677e+00 -5.60733851e-10]
```

*** 偏微分_バイアス1 ***

```
[ 0.28141452 0.62335695 -0.61422082 0.7928717 -0.96397016 0.85115438
 -1.12935107 0.51657258 0.62973838 -1.1118429 ]
```

*** 偏微分_バイアス2 ***

-1.8513668357412847

順伝播開始

*** 総入力1 ***

```
[ 4.82138522 25.34085458 -8.12369669 46.4558965 -25.81736369
 27.77301309 -37.65789378 26.83976901 29.79105968 -34.45468778]
```

*** 中間層出力1 ***

```
[9.92008754e-01 1.00000000e+00 2.96342975e-04 1.00000000e+00
 6.13283683e-12 1.00000000e+00 4.41961593e-17 1.00000000e+00
 1.00000000e+00 1.08772528e-15]
```

*** 総入力2 ***

-8.566229909091883

*** 出力1 ***

-8.566229909091883

出力合計: -8.566229909091883

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.82048924 2.0192464 -2.15349714 2.61366574 -3.37870453 2.81794587
 -3.95836274 1.64523713 2.04188528 -3.89699678]
```

```
[ 0.9924387  2.44241871 -2.60480431  3.16141017 -4.0867777  3.40850118  
-4.78791455  1.99002854  2.46980201 -4.71368817]]
```

*** 偏微分_重み2 ***

```
[3.00770724e+00 3.03193618e+00 8.98492989e-04 3.03193618e+00  
1.85943699e-11 3.03193618e+00 1.33999935e-16 3.03193618e+00  
3.03193618e+00 3.29791364e-15]
```

*** 偏微分_バイアス1 ***

```
[-0.38336622 -0.94347473  1.00620218 -1.22121182  1.57866932 -1.31665988  
1.84950941 -0.76872226 -0.95405254  1.82083672]
```

*** 偏微分_バイアス2 ***

3.031936184271416

順伝播開始

*** 総入力1 ***

```
[ 2.46122985 -3.40197352 -2.05805102  6.62768462 -7.552534  10.07184753  
-3.60945919  0.41852801  4.46828601 -7.72704497]
```

*** 中間層出力1 ***

```
[9.21378799e-01 3.22338442e-02 1.13241395e-01 9.98678525e-01  
5.24503404e-04 9.99957749e-01 2.63531926e-02 6.03130962e-01  
9.88663047e-01 4.40550437e-04]
```

*** 総入力2 ***

-7.415258189261929

*** 出力1 ***

-7.415258189261929

出力合計: -7.415258189261929

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.98850718 -5.14606377  3.79446577 -5.10205358  5.97267184 -5.46016141  
6.99614269 -3.93763682 -4.10955136  6.88887804]  
[ 1.81477255  4.69645538 -3.46294566  4.65629033 -5.45084322  4.98311051  
-6.38489405  3.59360794  3.75050241 -6.28700105]]
```

*** 偏微分_重み2 ***

```
[-3.89595633e+00 -1.36297524e-01 -4.78829695e-01 -4.22281034e+00
```

-2.21780918e-03 -4.22821941e+00 -1.11431789e-01 -2.55027779e+00
-4.18046091e+00 -1.86282261e-03]

*** 偏微分_バイアス1 ***

[0.7330025 1.8969394 -1.39871404 1.88071639 -2.20164325 2.01272192
-2.57891455 1.45148968 1.51486073 -2.53937471]

*** 偏微分_バイアス2 ***

-4.228398061170306

順伝播開始

*** 総入力1 ***

[-6.31351897 -30.7180105 11.39676877 -59.4067073 32.07877474
-36.31341613 51.28393291 -35.41389053 -40.51814279 43.50774153]

*** 中間層出力1 ***

[1.80837076e-03 4.56391498e-14 9.99988768e-01 1.58487433e-26
1.00000000e+00 1.69544519e-16 1.00000000e+00 4.16814443e-16
2.53042908e-18 1.00000000e+00]

*** 総入力2 ***

9.175738390692286

*** 出力1 ***

9.175738390692286

出力合計: 9.175738390692286

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.56634874 7.91949246 -4.74753753 8.71727936 -7.26599181 9.42582938
-8.53913799 5.86962094 6.74249509 -8.38042301]
[2.0073815 6.19457612 -3.71349336 6.81859991 -5.68341211 7.37282318
-6.67925888 4.59117979 5.27393634 -6.55511304]]

*** 偏微分_重み2 ***

[-9.97007444e-03 -2.51621920e-13 -5.51322921e+00 -8.73787356e-26
-5.51329113e+00 -9.34748292e-16 -5.51329113e+00 -2.29801937e-15
-1.39509922e-17 -5.51329113e+00]

*** 偏微分_バイアス1 ***

[0.7974529 2.46085894 -1.47522335 2.7087588 -2.25779379 2.92892968

-2. 65340414 1. 82389329 2. 09512534 -2. 60408593]

*** 偏微分_バイアス2 ***

-5. 513291128155197

順伝播開始

*** 総入力1 ***

[6. 23249669 27. 80162813 -10. 59008601 51. 61059713 -30. 41955516
33. 41965334 -42. 69252747 29. 55855022 33. 73360855 -39. 74189205]

*** 中間層出力1 ***

[9. 98039311e-01 1. 00000000e+00 2. 51636222e-05 1. 00000000e+00
6. 15113210e-14 1. 00000000e+00 2. 87654322e-19 1. 00000000e+00
1. 00000000e+00 5. 49940343e-18]

*** 総入力2 ***

-8. 026921664540197

*** 出力1 ***

-8. 026921664540197

出力合計: -8. 026921664540197

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1. 31746366 4. 06678285 -5. 05943035 4. 47645886 -7. 15043419 4. 84031035
-8. 20747603 3. 01414187 3. 46237635 -8. 07570139]
[1. 06835347 3. 2978227 -4. 10277727 3. 63003587 -5. 7984075 3. 92508917
-6. 65558052 2. 4442184 2. 80769929 -6. 54872225]]

*** 偏微分_重み2 ***

[4. 32387938e+00 4. 33237381e+00 1. 09018218e-04 4. 33237381e+00
2. 66490036e-13 4. 33237381e+00 1. 24622605e-18 4. 33237381e+00
4. 33237381e+00 2. 38254714e-17]

*** 偏微分_バイアス1 ***

[-0. 49267354 -1. 52079817 1. 89200474 -1. 67399901 2. 67394834 -1. 81006348
3. 06923556 -1. 12715668 -1. 29477668 3. 01995763]

*** 偏微分_バイアス2 ***

4. 332373814586706

順伝播開始

*** 総入力1 ***

[-2.32667225 -25.79950462 7.17109511 -30.60593524 15.06663721
-13.92507357 29.89056646 -22.36850973 -20.70689046 21.94793786]

*** 中間層出力1 ***

[8.89379357e-02 6.24334750e-12 9.99232109e-01 5.10518178e-14
9.99999714e-01 8.96224883e-07 1.00000000e+00 1.92965494e-10
1.01651019e-09 1.00000000e+00]

*** 総入力2 ***

10.723515868693857

*** 出力1 ***

10.723515868693857

出力合計: 10.723515868693857

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.73845036 4.13180803 -2.71862435 4.48760006 -3.84085479
4.80359479 -4.40864409 3.21761909 3.60689807 -4.33786137]
[-5.72816533 -13.61423944 8.95782248 -14.78656835 12.65555332
-15.82776577 14.52640972 -10.60200194 -11.88466976 14.29318182]]

*** 偏微分_重み2 ***

[5.28853339e-01 3.71249360e-11 5.94175290e+00 3.03570395e-13
5.94631732e+00 5.32923907e-06 5.94631902e+00 1.14743439e-09
6.04449388e-09 5.94631902e+00]

*** 偏微分_バイアス1 ***

[-1.30641038 -3.1049704 2.04299137 -3.37234094 2.88632491 -3.6098046
3.31300712 -2.41797585 -2.71051115 3.25981533]

*** 偏微分_バイアス2 ***

5.946319018250206

順伝播開始

*** 総入力1 ***

[6.18997066 35.22683931 -12.7153006 59.80423068 -35.20478806
35.9319481 -51.76857009 35.50535558 38.67760104 -46.68407563]

*** 中間層出力1 ***

[9.97954307e-01 1.00000000e+00 3.00478780e-06 1.00000000e+00
5.13753517e-16 1.00000000e+00 3.28999831e-23 1.00000000e+00
1.00000000e+00 5.31329052e-21]

*** 総入力2 ***

-10.601748593811347

*** 出力1 ***

-10.601748593811347

出力合計: -10.601748593811347

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.17439433 2.67077824 -2.16397102 2.90076027 -3.33730206 3.10501802
-3.93069916 2.07985148 2.33147929 -3.85672412]
[2.17569602 4.94791354 -4.00899685 5.37398083 -6.18272301 5.75239101
-7.28205709 3.85315604 4.31932454 -7.1450101]]

*** 偏微分_重み2 ***

[3.16069496e+00 3.16717402e+00 9.51668586e-06 3.16717402e+00
1.62714679e-15 3.16717402e+00 1.04199972e-22 3.16717402e+00
3.16717402e+00 1.68281157e-20]

*** 偏微分_バイアス1 ***

[-0.57190931 -1.30062186 1.0538157 -1.41261906 1.6252072 -1.51208898
1.91418111 -1.01285096 -1.13538927 1.87815658]

*** 偏微分_バイアス2 ***

3.1671740237635344

順伝播開始

*** 総入力1 ***

[4.83314147 29.9036898 -10.48585379 46.81876355 -28.02371473
27.28564764 -41.44942592 28.51410807 29.98814465 -37.22779237]

*** 中間層出力1 ***

[9.92101413e-01 1.00000000e+00 2.79279740e-05 1.00000000e+00
6.75235599e-13 1.00000000e+00 9.97109933e-19 1.00000000e+00
1.00000000e+00 6.79477689e-17]

*** 総入力2 ***

-12.146059218881062

*** 出力1 ***

-12.146059218881062

出力合計: -12.146059218881062

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.42093909 -0.85088231 0.6232621 -0.91712126 0.96120276 -0.97595115
1.13211175 -0.68068482 -0.75315814 1.11080561]
[-1.64836426 -3.33198801 2.44064521 -3.59137449 3.76399419 -3.8217477
4.43326031 -2.66550807 -2.94930786 4.34982716]]

*** 偏微分_重み2 ***

[-1.98393617e+00 -1.99973122e+00 -5.58484414e-05 -1.99973122e+00
-1.35028970e-12 -1.99973122e+00 -1.99395186e-18 -1.99973122e+00
-1.99973122e+00 -1.35877274e-16]

*** 偏微分_バイアス1 ***

[0.44937891 0.90837029 -0.66537142 0.97908453 -1.0261443 1.04188913
-1.20860038 0.72667379 0.8040436 -1.18585474]

*** 偏微分_バイアス2 ***

-1.9997312160054062

順伝播開始

*** 総入力1 ***

[-10.83892509 -47.84050424 20.85935607 -90.28132415 53.31348091
-58.94625737 80.29210348 -53.42590628 -61.80758197 70.34308043]

*** 中間層出力1 ***

[1.96203216e-05 1.67160244e-21 9.99999999e-01 6.18470660e-40
1.00000000e+00 2.51168802e-26 1.00000000e+00 6.27225505e-24
1.43650854e-27 1.00000000e+00]

*** 総入力2 ***

8.64054442149937

*** 出力1 ***

8.64054442149937

出力合計: 8.64054442149937

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 15.49912535  33.64132003 -16.22404928  36.42911574 -25.02086239
    38.90508684 -29.46975757  26.4782255   29.52840692 -28.91514211]
  [  9.90855073  21.50680884 -10.37199272  23.28903942 -15.99577258
    24.87192134 -18.83993975  16.92746104  18.87743414 -18.48537553]]
```

*** 偏微分_重み2 ***

```
[-2.45847488e-04 -2.09455925e-20 -1.25302476e+01 -7.74959051e-39
 -1.25302476e+01 -3.14720729e-25 -1.25302476e+01 -7.85929089e-23
 -1.79998077e-26 -1.25302476e+01]
```

*** 偏微分_バイアス1 ***

```
[ 3.13235695  6.79887543 -3.27886331  7.36228601 -5.05669   7.86267717
 -5.95580704  5.35122155  5.96766001 -5.84371984]
```

*** 偏微分_バイアス2 ***

-12.530247614725962

順伝播開始

*** 総入力1 ***

```
[ 19.51444792  71.96016894 -30.79924899 117.29214815 -72.60950985
 83.1862333  -101.15229378  71.23088914  80.35566697 -93.06412834]
```

*** 中間層出力1 ***

```
[9.99999997e-01 1.00000000e+00 4.20780995e-14 1.00000000e+00
 2.92476204e-32 1.00000000e+00 1.17521406e-44 1.00000000e+00
 1.00000000e+00 3.82615536e-41]
```

*** 総入力2 ***

-10.299194191367041

*** 出力1 ***

-10.299194191367041

出力合計: -10.299194191367041

誤差逆伝播開始

*** 偏微分_重み1 ***


```
[[ 11.54325921 25.05542417 -32.4117134 27.13172212 -43.00460107
 28.97577895 -48.36184195 19.72048571 21.99220363 -47.69398882]
 [ 11.18974528 24.28809829 -31.41910014 26.30080933 -41.68757915
 28.08839167 -46.88075377 19.11654308 21.31868931 -46.23335374]]
```

*** 偏微分_重み2 ***

```
[1.26408679e+01 1.26408679e+01 5.31903697e-13 1.26408679e+01
 3.69715305e-31 1.26408679e+01 1.48557257e-43 1.26408679e+01
 1.26408679e+01 4.83659245e-40]
```

*** 偏微分_バイアス1 ***

```
[-2.4851401 -5.39416452 6.97789482 -5.84116924 9.25843011 -6.23817493
 10.4117867 -4.2456094 -4.73468594 10.26800507]
```

*** 偏微分_バイアス2 ***

12.640867900138042

順伝播開始

*** 総入力1 ***

```
[ 15.64361416 47.55945689 -29.13252403 75.09874656 -57.06700257
 58.57754415 -72.88606231 45.80639825 52.58341595 -69.75633297]
```

*** 中間層出力1 ***

```
[9.99999839e-01 1.00000000e+00 2.22795066e-13 1.00000000e+00
 1.64480980e-25 1.00000000e+00 2.21812149e-32 1.00000000e+00
 1.00000000e+00 5.07235353e-31]
```

*** 総入力2 ***

-16.493219159901823

*** 出力1 ***

-16.493219159901823

出力合計: -16.493219159901823

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -4.01402166 -6.50677898 5.97939304 -6.88981956 7.93359516 -7.23001573
 8.92191221 -5.52257634 -5.94166848 8.79870501]
 [-2.28981291 -3.71181518 3.410966 -3.93032204 4.52574753 -4.12438815
 5.0895365 -3.15037329 -3.38944588 5.01925252]]
```

*** 偏微分_重み2 ***

[-3.43493901e+00 -3.43493956e+00 -7.65287586e-13 -3.43493956e+00
-5.64982225e-25 -3.43493956e+00 -7.61911328e-32 -3.43493956e+00
-3.43493956e+00 -1.74232278e-30]

*** 偏微分_バイアス1 ***

[1.2728852 2.06336272 -1.89612352 2.1848286 -2.51581997 2.29270811
-2.82922489 1.75126252 1.8841607 -2.79015469]

*** 偏微分_バイアス2 ***

-3.434939563378185

順伝播開始

*** 総入力1 ***

[6.5943661 26.56700664 -14.08210951 37.70938328 -28.20097123
26.42653098 -37.09754859 23.60825187 25.23310982 -35.05604722]

*** 中間層出力1 ***

[9.98633815e-01 1.00000000e+00 7.65979619e-07 1.00000000e+00
5.65553652e-13 1.00000000e+00 7.73997140e-17 1.00000000e+00
1.00000000e+00 5.96145313e-16]

*** 総入力2 ***

-14.807850961947947

*** 出力1 ***

-14.807850961947947

出力合計: -14.807850961947947

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.61855638 -2.76893162 2.76186119 -2.94585675 3.66450047
-3.1029922 4.12100073 -2.31433179 -2.50790901 4.06409175]
[-6.24824275 -10.68912837 10.66183383 -11.37212662 14.14636447
-11.97872916 15.90862897 -8.93420024 -9.6814819 15.68893867]]

*** 偏微分_重み2 ***

[-8.47824026e+00 -8.48983895e+00 -6.50304361e-06 -8.48983895e+00
-4.80145942e-12 -8.48983895e+00 -6.57111107e-16 -8.48983895e+00
-8.48983895e+00 -5.06117770e-15]

*** 偏微分_バイアス1 ***

[2.746458 4.69847977 -4.68648227 4.99869634 -6.21813163 5.26533265
-6.99274709 3.92708906 4.25556184 -6.89618071]

*** 偏微分_バイアス2 ***

-8.489838950483591

順伝播開始

*** 総入力1 ***

[-13.10457951 -32.42853414 22.15942903 -60.08512005 43.44985623
-50.37377531 56.98375142 -35.76324691 -44.369555 53.17774515]

*** 中間層出力1 ***

[2.03588173e-06 8.25023973e-15 1.00000000e+00 8.04199718e-27
1.00000000e+00 1.32723354e-22 1.00000000e+00 2.93913283e-16
5.37708743e-20 1.00000000e+00]

*** 総入力2 ***

12.976022764318696

*** 出力1 ***

12.976022764318696

出力合計: 12.976022764318696

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.82764011 -3.8619021 3.02012643 -4.1747066 4.00717185 -4.45252283
4.50635995 -3.05816738 -3.40041286 4.44412934]
[0.32810389 0.69330121 -0.54218291 0.74945689 -0.71938051 0.79933137
-0.80899638 0.54901215 0.61045317 -0.79782454]]

*** 偏微分_重み2 ***

[3.29305865e-06 1.33448436e-14 1.61750980e+00 1.30080093e-26
1.61750980e+00 2.14681326e-22 1.61750980e+00 4.75407615e-16
8.69749160e-20 1.61750980e+00]

*** 偏微分_バイアス1 ***

[-0.42494229 -0.89792598 0.70220578 -0.97065576 0.93170247 -1.03525046
1.04776806 -0.71105063 -0.7906257 1.0332989]

*** 偏微分_バイアス2 ***

1. 6175097993049992

順伝播開始

*** 総入力1 ***

[-0.75499116 5.47508764 -0.64246381 3.2999377 -2.3223995 -0.88533018
-3.3992884 2.51675818 0.57795985 -3.36641767]

*** 中間層出力1 ***

[0.31973473 0.99582762 0.3446898 0.96442667 0.08928476 0.29207445
0.03231771 0.92530831 0.64059783 0.03336164]

*** 総入力2 ***

-6.127241820829874

*** 出力1 ***

-6.127241820829874

出力合計: -6.127241820829874

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.62710934 2.77898069 -3.23024913 3.04722891 -4.46440841 3.98066164
-5.05165187 2.27100491 2.80735219 -4.97932294]
[-2.65139456 -4.528383 5.26373046 -4.96549677 7.27480809 -6.48653681
8.23172848 -3.70063026 -4.57461471 8.11386761]]

*** 偏微分_重み2 ***

[-1.86908473 -5.82134514 -2.01496552 -5.6377835 -0.52193509 -1.70739008
-0.1889208 -5.4091079 -3.74476567 -0.19502334]

*** 偏微分_バイアス1 ***

[1.49716532 2.55704605 -2.97227535 2.80387147 -4.10787235 3.6627585
-4.64821743 2.08963818 2.58315175 -4.58166483]

*** 偏微分_バイアス2 ***

-5.845735765219829

順伝播開始

*** 総入力1 ***

[1.55395626 -13.09769204 1.0407722 -10.37144866 2.03145082
1.10922513 11.74689534 -9.72744272 -6.32713201 5.44162894]

*** 中間層出力1 ***

[8.25484405e-01 2.04995218e-06 7.38998975e-01 3.13129134e-05
8.84059867e-01 7.51984624e-01 9.99992086e-01 5.96210213e-05
1.78396374e-03 9.95686269e-01]

*** 総入力2 ***

9.497687291795

*** 出力1 ***

9.497687291795

出力合計: 9.497687291795

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.46196549 8.05198673 -8.68868221 8.90783042 -10.48506898
9.44046871 -11.15819633 6.12772839 7.51909761 -11.02264647]
[-6.04878208 -14.06851486 15.18095583 -15.56385385 18.31962146
-16.49448501 19.49571655 -10.7064307 -13.13744546 19.25888242]]

*** 偏微分_重み2 ***

[6.98310280e+00 1.73413655e-05 6.25148796e+00 2.64888461e-04
7.47861607e+00 6.36133875e+00 8.45933309e+00 5.04358070e-04
1.50912630e-02 8.42290846e+00]

*** 偏微分_バイアス1 ***

[-1.64854925 -3.83426602 4.13745329 -4.24180921 4.99287257 -4.49544561
5.31340829 -2.91795572 -3.58051018 5.24886096]

*** 偏微分_バイアス2 ***

8.459400036657197

順伝播開始

*** 総入力1 ***

[-5.03913401 -15.64553089 9.33734152 -26.15157264 17.67387835
-20.05228488 25.89579897 -16.62864737 -19.52774847 22.35571831]

*** 中間層出力1 ***

[6.43764515e-03 1.60410281e-07 9.99911934e-01 4.39052353e-12
9.99999979e-01 1.95615527e-09 1.00000000e+00 6.00164327e-08
3.30526736e-09 1.00000000e+00]

*** 総入力2 ***

10.279306524773506

*** 出力1 ***

10.279306524773506

出力合計: 10.279306524773506

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.55683443 -3.29040456 2.56676814 -3.64017207 3.32488605 -5.23751719
3.71453978 -2.50412831 -3.07455966 3.65385015]
[-0.77739411 -1.00043284 0.78041441 -1.10677809 1.01091678 -1.59244376
1.12938926 -0.76136905 -0.93480616 1.11093685]]

*** 偏微分_重み2 ***

[3.61281318e-02 9.00224172e-07 5.61151622e+00 2.46396639e-11
5.61201033e+00 1.09779638e-08 5.61201045e+00 3.36812847e-07
1.85491949e-08 5.61201045e+00]

*** 偏微分_バイアス1 ***

[-1.9765816 -2.54367393 1.98426093 -2.81406454 2.57033013 -4.04890515
2.8715551 -1.9358367 -2.37681328 2.82463849]

*** 偏微分_バイアス2 ***

5.612010449132603

順伝播開始

*** 総入力1 ***

[-18.92555096 -70.98547438 37.90107568 -114.99362111 78.35809289
-82.7124168 110.53156529 -71.23733251 -80.87503126 99.3562699]

*** 中間層出力1 ***

[6.03583901e-09 1.48388479e-31 1.00000000e+00 1.14526213e-50
1.00000000e+00 1.19799168e-36 1.00000000e+00 1.15350528e-31
7.52350473e-36 1.00000000e+00]

*** 総入力2 ***

8.324365855559472

*** 出力1 ***

8.324365855559472

出力合計: 8.324365855559472

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 21.51346349 27.63590231 -16.84835436 30.57357668 -23.2162015
    43.98957811 -26.48887887 21.03201679 25.82303356 -25.97915052]
  [ 17.61101629 22.62287176 -13.79213734 25.02766498 -19.00488515
    36.01006304 -21.68391331 17.21690189 21.13884939 -21.26664742]]
```

*** 偏微分_重み2 ***

```
[-7.94326499e-08 -1.95281718e-30 -1.31601671e+01 -1.50718409e-49
 -1.31601671e+01 -1.57657706e-35 -1.31601671e+01 -1.51803222e-30
 -9.90105794e-35 -1.31601671e+01]
```

*** 偏微分_バイアス1 ***

```
[ 4.64345319 5.96491675 -3.63653881 6.59898264 -5.01097115 9.49468443
 -5.71734389 4.53953802 5.57362824 -5.60732443]
```

*** 偏微分_バイアス2 ***

-13.160167084901031

順伝播開始

*** 総入力1 ***

```
[ 3.07165673 21.79172142 -5.20456744 26.5357783 -14.70314864
 14.32901714 -23.60060355 17.45678763 15.91748146 -20.48589226]
```

*** 中間層出力1 ***

```
[9.55708355e-01 1.00000000e+00 5.46143426e-03 1.00000000e+00
 4.11626663e-07 9.99999402e-01 5.62844087e-11 9.99999974e-01
 9.99999878e-01 1.26791470e-09]
```

*** 総入力2 ***

-9.587967597621398

*** 出力1 ***

-9.587967597621398

出力合計: -9.587967597621398

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.33847173  1.68520236 -2.74985729  1.86433802 -3.37769225
   2.68242956 -3.70034983  1.28250579  1.574656 -3.65009503]
 [-5.25228061 -6.61288204 10.79068149 -7.31582612 13.25436099
 -10.52608914 14.52049767 -5.03266534 -6.17908844 14.32329346]]
```

*** 偏微分_重み2 ***

```
[-4.81986051e+00 -5.04323362e+00 -2.75432889e-02 -5.04323362e+00
 -2.07592943e-06 -5.04323061e+00 -2.83855422e-10 -5.04323349e+00
 -5.04323301e+00 -6.39439004e-09]
```

*** 偏微分_バイアス1 ***

```
[ 1.42783848  1.79771953 -2.93345907  1.98881568 -3.60321316  2.86152934
 -3.94741386  1.36813581  1.67979224 -3.89380367]
```

*** 偏微分_バイアス2 ***

-5.043233624862702

順伝播開始

*** 総入力1 ***

```
[-23.26056581 -68.34487778  35.11986385 -103.82875102  69.3645147
 -82.34738542  97.36664459 -65.62453147 -74.65389868  87.40081269]
```

*** 中間層出力1 ***

```
[7.90796290e-11 2.08063890e-30 1.00000000e+00 8.08623519e-46
 1.00000000e+00 1.72577794e-36 1.00000000e+00 3.15957089e-29
 3.78637610e-33 1.00000000e+00]
```

*** 総入力2 ***

13.285378873455162

*** 出力1 ***

13.285378873455162

出力合計: 13.285378873455162

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3.42663642  4.65827339 -5.84301919  5.27317625 -7.17107528  8.08136349
  -7.85609933  3.27597313  4.27881071 -7.74940493]
 [ 3.50280327  4.76181691 -5.9728971  5.39038776 -7.33047305  8.26099504
  -8.03072374  3.34879106  4.37391959 -7.92165774]]
```


*** 偏微分_重み2 ***

[-2.98436804e-10 -7.85207558e-30 -3.77387714e+00 -3.05164581e-45
-3.77387714e+00 -6.51287392e-36 -3.77387714e+00 -1.19238323e-28
-1.42893182e-32 -3.77387714e+00]

*** 偏微分_バイアス1 ***

[1.01326317 1.37746066 -1.72779233 1.55928865 -2.12050115 2.38967517
-2.32306412 0.96871174 1.26525279 -2.29151437]

*** 偏微分_バイアス2 ***

-3.7738771358909453

順伝播開始

*** 総入力1 ***

[27.59821076 66.85086345 -42.75560269 106.08447988 -80.5346772
92.98472872 -100.70566499 63.91341123 76.27774719 -97.12584005]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.70070832e-19 1.00000000e+00
1.05738730e-35 1.00000000e+00 1.83689952e-44 1.00000000e+00
1.00000000e+00 6.58845545e-43]

*** 総入力2 ***

-6.943469915680069

*** 出力1 ***

-6.943469915680069

出力合計: -6.943469915680069

誤差逆伝播開始

*** 偏微分_重み1 ***

[[10.74576678 14.60812101 -32.98651247 16.53642678 -39.72009321
25.34276673 -43.19333869 10.27329398 13.41814433 -42.65237103]
[2.56556602 3.48770819 -7.87557343 3.94809374 -9.48322473
6.05061904 -10.31246668 2.45276251 3.20359969 -10.18330993]]

*** 偏微分_重み2 ***

[1.02768394e+01 1.02768394e+01 2.77547456e-18 1.02768394e+01
1.08665994e-34 1.02768394e+01 1.88775212e-43 1.02768394e+01
1.02768394e+01 6.77084983e-42]

*** 偏微分_バイアス1 ***

[-2.17002098 -2.94999228 6.66136028 -3.33939809 8.02115263 -5.11776745
8.72254656 -2.0746089 -2.70968608 8.6133025]

*** 偏微分_バイアス2 ***

10.276839362184518

順伝播開始

*** 総入力1 ***

[-8.47726112 -22.94783377 13.97251881 -33.9128462 24.34787795
-28.12570367 34.89516102 -22.05423 -25.2250007 30.37477325]

*** 中間層出力1 ***

[2.08104698e-04 1.08114121e-10 9.99999145e-01 1.86998460e-15
1.00000000e+00 6.09764441e-13 1.00000000e+00 2.64222384e-10
1.10897407e-11 1.00000000e+00]

*** 総入力2 ***

13.886481693410435

*** 出力1 ***

13.886481693410435

出力合計: 13.886481693410435

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3.81256315 -4.63321716 4.33495183 -5.04293405 5.21984926 -6.91406171
5.67628871 -3.7121745 -4.38037678 5.605197]
[-4.32838262 -5.26006675 4.92144771 -5.72521616 5.92606705 -7.84949742
6.44426033 -4.21441193 -4.97301842 6.36355029]]

*** 偏微分_重み2 ***

[1.82801336e-03 9.49685710e-10 8.78409673e+00 1.64261396e-14
8.78410424e+00 5.35623441e-12 8.78410424e+00 2.32095696e-09
9.74134381e-11 8.78410424e+00]

*** 偏微分_バイアス1 ***

[-3.93825327 -4.78596207 4.47786373 -5.20918625 5.39193388 -7.14200004
5.86342094 -3.83455507 -4.52478622 5.78998552]

*** 偏微分_バイアス2 ***

8. 784104242380238

順伝播開始

*** 総入力1 ***

[3. 28438041 24. 52400517 -5. 58645788 31. 37422462 -16. 83950506
17. 4669358 -27. 07162817 20. 21575496 19. 0854955 -23. 52059947]

*** 中間層出力1 ***

[9. 63889063e-01 1. 00000000e+00 3. 73428408e-03 1. 00000000e+00
4. 86066681e-08 9. 99999974e-01 1. 74961007e-12 9. 99999998e-01
9. 99999995e-01 6. 09724209e-11]

*** 総入力2 ***

-12. 521985943279399

*** 出力1 ***

-12. 521985943279399

出力合計: -12. 521985943279399

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1. 7748513 2. 12158908 -2. 44826222 2. 3092019 -3. 10340791
3. 16600702 -3. 44133427 1. 69983591 2. 00581136 -3. 3887013]
[-9. 60950331 -11. 48683122 13. 25552393 -12. 50261543 16. 80265189
-17. 14157964 18. 63227246 -9. 20335061 -10. 8599807 18. 34730396]]

*** 偏微分_重み2 ***

[-6. 67330288e+00 -6. 92331010e+00 -2. 58536067e-02 -6. 92331010e+00
-3. 36519036e-07 -6. 92330992e+00 -1. 21130931e-11 -6. 92331008e+00
-6. 92331006e+00 -4. 22130977e-10]

*** 偏微分_バイアス1 ***

[2. 48173909 2. 9665756 -3. 42335612 3. 22891085 -4. 33943324 4. 42696432
-4. 81194891 2. 37684657 2. 80468592 -4. 73835328]

*** 偏微分_バイアス2 ***

-6. 923310095527653

順伝播開始

*** 総入力1 ***

[25. 97514971 74. 28877069 -46. 57697783 112. 75468791 -86. 95324649

93.37261595 -112.72718159 68.75153134 79.12173808 -106.21417267]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 5.91392138e-21 1.00000000e+00
1.72458604e-38 1.00000000e+00 1.10460518e-49 1.00000000e+00
1.00000000e+00 7.44339233e-47]

*** 総入力2 ***

-9.219215035615655

*** 出力1 ***

-9.219215035615655

出力合計: -9.219215035615655

誤差逆伝播開始

*** 偏微分_重み1 ***

[[9.01899668 11.52400196 -17.1169661 12.83448872 -21.67749108
18.81932386 -24.03792681 8.57803066 10.71528755 -23.67028233]
[8.51556369 10.88074162 -16.1615111 12.11807809 -20.46747131
17.76884464 -22.69614945 8.09921203 10.11716899 -22.34902659]]

*** 偏微分_重み2 ***

[9.18579930e+00 9.18579930e+00 5.43240949e-20 9.18579930e+00
1.58417013e-37 9.18579930e+00 1.01466815e-48 9.18579930e+00
9.18579930e+00 6.83735080e-46]

*** 偏微分_バイアス1 ***

[-2.39544054 -3.06076855 4.54625674 -3.40883311 5.75752965 -4.99840202
6.38446008 -2.27832021 -2.84597445 6.28681391]

*** 偏微分_バイアス2 ***

9.185799304626677

順伝播開始

*** 総入力1 ***

[-39.06318508 -103.26617133 69.74616035 -153.70226736 122.09421371
-131.39085397 161.92794549 -96.17358616 -111.11226046 148.78553591]

*** 中間層出力1 ***

[1.08411231e-17 1.41929157e-45 1.00000000e+00 1.76991915e-67
1.00000000e+00 8.66317618e-58 1.00000000e+00 1.70742732e-42

5. 55339301e-49 1. 00000000e+00]

*** 総入力2 ***

10. 655856687892085

*** 出力1 ***

10. 655856687892085

出力合計: 10. 655856687892085

誤差逆伝播開始

*** 偏微分_重み1 ***

[[30. 12716565 35. 76279931 -23. 81774437 38. 71106588 -30. 16357794
52. 17544404 -33. 44805338 29. 1351027 33. 9433947 -32. 93648714]
[28. 81253759 34. 20225491 -22. 77843402 37. 02187102 -28. 84736099
49. 898718 -31. 98851517 27. 86376427 32. 46224179 -31. 49927161]]

*** 偏微分_重み2 ***

[-1. 38881187e-16 -1. 81819629e-44 -1. 28105904e+01 -2. 26737093e-66
-1. 28105904e+01 -1. 10980401e-56 -1. 28105904e+01 -2. 18731520e-41
-7. 11422430e-48 -1. 28105904e+01]

*** 偏微分_バイアス1 ***

[6. 30715727 7. 48698375 -4. 98627256 8. 1042068 -6. 31478022 10. 92299007
-7. 00238899 6. 09946773 7. 10608927 -6. 895292]

*** 偏微分_バイアス2 ***

-12. 810590368413463

順伝播開始

*** 総入力1 ***

[-47. 14320663 -95. 7463688 69. 55540607 -137. 7690437 113. 23153493
-131. 38995153 143. 94944533 -88. 12412852 -103. 87189197 134. 57223373]

*** 中間層出力1 ***

[3. 35710944e-21 2. 61746189e-42 1. 00000000e+00 1. 47117570e-60
1. 00000000e+00 8. 67099771e-58 1. 00000000e+00 5. 34782592e-39
7. 74480511e-46 1. 00000000e+00]

*** 総入力2 ***

15. 139563316836794

*** 出力1 ***

15.139563316836794

出力合計: 15.139563316836794

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 5.93426648  7.04433943 -6.81657597  7.62507111 -8.0665398  10.27720271
   -8.71349586  5.73885593  6.68596414 -8.61273065]
 [ 2.89982935  3.44227586 -3.33097732  3.72605529 -3.94178269  5.02204176
   -4.25792323  2.80434034  3.26715275 -4.20868345]]
```

*** 偏微分_重み2 ***

```
[-9.02700666e-21 -7.03815182e-42 -2.68892237e+00 -3.95587724e-60
 -2.68892237e+00 -2.33156397e-57 -2.68892237e+00 -1.43798887e-38
 -2.08251797e-45 -2.68892237e+00]
```

*** 偏微分_バイアス1 ***

```
[ 1.32386219  1.57150588 -1.52069464  1.70106   -1.79954626  2.29271809
 -1.94387424  1.28026849  1.49155674 -1.92139475]
```

*** 偏微分_バイアス2 ***

-2.6889223651302263

順伝播開始

*** 総入力1 ***

```
[ 6.35038831  14.25070572 -9.76039222  19.84900486 -17.28957519
 18.36670054 -19.78433386  11.90464069  13.58242024 -20.27826621]
```

*** 中間層出力1 ***

```
[9.98256974e-01 9.99999353e-01 5.76886613e-05 9.99999998e-01
 3.09908070e-08 9.99999989e-01 2.55724876e-09 9.99993241e-01
 9.99998738e-01 1.56048960e-09]
```

*** 総入力2 ***

-12.631664011941464

*** 出力1 ***

-12.631664011941464

出力合計: -12.631664011941464

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.76069964 -2.08837785  3.48115163 -2.26054196  4.08028898 -3.04679756
  4.39039038 -1.70135661 -1.98213382  4.34209122]
 [-2.64678775 -3.139373   5.23307284 -3.39818027  6.13373151 -4.58012615
  6.59989427 -2.5575798  -2.97966069  6.52728811]]
```

*** 偏微分_重み2 ***

```
[-9.84806466e+00 -9.86525367e+00 -5.69113646e-04 -9.86526003e+00
 -3.05732371e-07 -9.86525995e+00 -2.52279240e-08 -9.86519338e+00
 -9.86524760e+00 -1.53946358e-08]
```

*** 偏微分_バイアス1 ***

```
[ 3.82289593  4.53436294 -7.55840467  4.908172   -8.85927375  6.61531912
 -9.53257735  3.69404816  4.30368197 -9.42770843]
```

*** 偏微分_バイアス2 ***

-9.865260057339437

順伝播開始

*** 総入力1 ***

```
[-28.32848932 -42.46833554  44.12159855 -66.59576222  65.49705458
 -74.1475391   76.10518479 -41.41822898 -53.55194917  74.19196347]
```

*** 中間層出力1 ***

```
[4.97844151e-13 3.59945060e-19 1.00000000e+00 1.19626653e-29
 1.00000000e+00 6.28250616e-33 1.00000000e+00 1.02870702e-18
 5.52947603e-24 1.00000000e+00]
```

*** 総入力2 ***

16.771294210845575

*** 出力1 ***

16.771294210845575

出力合計: 16.771294210845575

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-11.72987585 -15.09479081  22.08731966 -16.86090138  25.88840865
 -24.92653422  27.85592401 -11.12460774 -14.0049078   27.54947796]
 [ 6.39643945  8.23136721 -12.04447554  9.19444811 -14.11725414
```

13. 59273269 -15. 19016344 6. 06637962 7. 63704117 -15. 0230548]]

*** 偏微分_重み2 ***

[4. 46023208e-12 3. 22478129e-18 8. 95909306e+00 1. 07174632e-28
8. 95909306e+00 5. 62855574e-32 8. 95909306e+00 9. 21628195e-18
4. 95390903e-23 8. 95909306e+00]

*** 偏微分_バイアス1 ***

[-2. 86689349 -3. 68931079 5. 39835151 -4. 12096506 6. 3273739 -6. 09228262
6. 80825342 -2. 7189602 -3. 42293299 6. 73335508]

*** 偏微分_バイアス2 ***

8. 959093062691204

順伝播開始

*** 総入力1 ***

[-27. 90599662 -46. 98393974 41. 17612549 -73. 89442743 65. 33759151
-76. 30283642 78. 8203044 -46. 1788917 -58. 07889735 75. 73105917]

*** 中間層出力1 ***

[7. 59590730e-13 3. 93671733e-21 1. 00000000e+00 8. 09203819e-33
1. 00000000e+00 7. 27946039e-34 1. 00000000e+00 8. 80566489e-21
5. 97936917e-26 1. 00000000e+00]

*** 総入力2 ***

13. 635611638903319

*** 出力1 ***

13. 635611638903319

出力合計: 13. 635611638903319

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-5. 38197199 -6. 92588246 8. 0604412 -7. 73621991 9. 80447965
-11. 43694194 10. 70722685 -5. 10425925 -6. 4258158 10. 56662143]
[1. 9143041 2. 46345488 -2. 86700408 2. 75168238 -3. 48733803
4. 06798565 -3. 80843458 1. 81552495 2. 28558706 -3. 75842289]]

*** 偏微分_重み2 ***

[3. 03154816e-12 1. 57115506e-20 3. 99102837e+00 3. 22955540e-32
3. 99102837e+00 2. 90525330e-33 3. 99102837e+00 3. 51436584e-20

2. 38638320e-25 3. 99102837e+00]

*** 偏微分_バイアス1 ***

[-1.27712182 -1.643486 1.91271255 -1.83577605 2.32656635 -2.71394355
2.54078488 -1.21122163 -1.52482206 2.50741974]

*** 偏微分_バイアス2 ***

3.9910283737089944

順伝播開始

*** 総入力1 ***

[7.43966768 23.23314988 -10.03003526 28.45703768 -19.36931678
22.2398785 -26.37122269 18.43449525 18.69306958 -24.43577349]

*** 中間層出力1 ***

[9.99412865e-01 1.00000000e+00 4.40546646e-05 1.00000000e+00
3.87268884e-09 1.00000000e+00 3.52471093e-12 9.99999990e-01
9.99999992e-01 2.44162190e-11]

*** 総入力2 ***

-8.708184907057724

*** 出力1 ***

-8.708184907057724

出力合計: -8.708184907057724

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.63026032 0.81084127 -1.35087055 0.90571077 -1.68099452 1.33896937
-1.85187291 0.59757642 0.75229643 -1.82525812]
[-3.29538451 -4.23957159 7.06317333 -4.7356071 8.78926233 -7.00094673
9.68271855 -3.12449319 -3.93346355 9.54356023]]

*** 偏微分_重み2 ***

[-4.88729898e+00 -4.89017017e+00 -2.15434807e-04 -4.89017017e+00
-1.89381074e-08 -4.89017017e+00 -1.72364363e-11 -4.89017012e+00
-4.89017014e+00 -1.19399466e-10]

*** 偏微分_バイアス1 ***

[1.23100312 1.58370771 -2.63847463 1.76900362 -3.28326158 2.61522965
-3.61701547 1.16716604 1.46935992 -3.56503236]

*** 偏微分_バイアス2 ***

-4.890170172947834

順伝播開始

*** 総入力1 ***

[-37.45196299 -81.18189754 52.31203252 -115.61242362 88.38396686
-105.69216522 116.10541399 -74.74895774 -86.43695251 106.80785535]

*** 中間層出力1 ***

[5.43024139e-17 5.53541097e-36 1.00000000e+00 6.16825591e-51
1.00000000e+00 1.25451502e-46 1.00000000e+00 3.44302459e-33
2.89007086e-38 1.00000000e+00]

*** 総入力2 ***

12.581078701984186

*** 出力1 ***

12.581078701984186

出力合計: 12.581078701984186

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.14234351 2.98062794 -3.87706285 3.42085119 -4.82450065 5.43130239
-5.31492634 1.99101443 2.70896215 -5.23854116]
[1.87358926 2.60671198 -3.39069028 2.99170979 -4.21927322 4.74995246
-4.64817564 1.74124422 2.36912632 -4.58137288]]

*** 偏微分_重み2 ***

[-1.53017296e-16 -1.55980841e-35 -2.81787282e+00 -1.73813607e-50
-2.81787282e+00 -3.53506378e-46 -2.81787282e+00 -9.70200542e-33
-8.14385211e-38 -2.81787282e+00]

*** 偏微分_バイアス1 ***

[0.66070791 0.91923842 -1.19570278 1.05500515 -1.48789665 1.6750369
-1.63914603 0.61403737 0.83545552 -1.61558852]

*** 偏微分_バイアス2 ***

-2.817872820918419

順伝播開始

*** 総入力1 ***

[-27.64974323 -58.88324504 38.82825551 -83.84400356 64.6729466
-77.56787586 85.09982053 -54.33523563 -63.11427828 78.00209279]

*** 中間層出力1 ***

[9.81452055e-13 2.67504815e-26 1.00000000e+00 3.86377577e-37
1.00000000e+00 2.05446876e-34 1.00000000e+00 2.52642839e-24
3.88881437e-28 1.00000000e+00]

*** 総入力2 ***

13.567334189304713

*** 出力1 ***

13.567334189304713

出力合計: 13.567334189304713

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.45339643 -2.02210056 2.87064972 -2.3207543 3.51340505 -3.68467311
3.84611685 -1.35073262 -1.83779861 3.79429605]
[-1.15181083 -1.60250657 2.27497837 -1.83918846 2.78435939 -2.92008864
3.04803215 -1.07045018 -1.45644801 3.00696438]]

*** 偏微分_重み2 ***

[2.54071949e-12 6.92499133e-26 2.58873521e+00 1.00022924e-36
2.58873521e+00 5.31847561e-34 2.58873521e+00 6.54025412e-24
1.00671107e-27 2.58873521e+00]

*** 偏微分_バイアス1 ***

[-0.60698191 -0.8444898 1.19886936 -0.96921655 1.46730325 -1.53882992
1.60625366 -0.56410642 -0.76751978 1.58461175]

*** 偏微分_バイアス2 ***

2.5887352056622603

順伝播開始

*** 総入力1 ***

[3.11993862 21.61740167 -1.8806004 21.95650157 -7.98411636
11.22804715 -16.35424815 15.41226032 12.46190535 -12.77645147]

*** 中間層出力1 ***

```
[9.57707742e-01 1.00000000e+00 1.32319926e-01 1.00000000e+00
3.40717411e-04 9.99986704e-01 7.89660181e-08 9.9999797e-01
9.99996129e-01 2.82654823e-06]
```

```
*** 総入力2 ***
-5.968683563816102
```

```
*** 出力1 ***
-5.968683563816102
```

出力合計: -5.968683563816102

誤差逆伝播開始

```
*** 偏微分_重み1 ***
[[ 1.10345717  1.50605218 -3.17695817  1.72848825 -3.96488839  2.74434623
 -4.36553905  1.00602019  1.36878729 -4.3031366 ]
 [-2.49225004 -3.40154443  7.17542493 -3.90393486  8.95503104 -6.1983348
  9.85993396 -2.27218049 -3.09152023  9.71899283]]
```

```
*** 偏微分_重み2 ***
[-2.85531958e+00 -2.98141015e+00 -3.94499971e-01 -2.98141015e+00
-1.01581835e-03 -2.98137051e+00 -2.35430088e-07 -2.98140955e+00
-2.98139861e+00 -8.42709957e-06]
```

```
*** 偏微分_バイアス1 ***
[ 0.56042027  0.76488892 -1.61350325  0.87785903 -2.01367471  1.3937897
-2.21715587  0.51093429  0.69517527 -2.18546312]
```

```
*** 偏微分_バイアス2 ***
-2.9814101490157414
```

順伝播開始

```
*** 総入力1 ***
[ 30.07790511  54.82710017 -45.88994897  84.51983817 -76.02079328
 84.99464218 -88.57926532  51.28772192  63.368577 -88.06406041]
```

```
*** 中間層出力1 ***
[1.00000000e+00 1.00000000e+00 1.17556971e-20 1.00000000e+00
9.65137006e-34 1.00000000e+00 3.39245315e-39 1.00000000e+00
1.00000000e+00 5.67890375e-39]
```

```
*** 総入力2 ***
```

-4.844948512763331

*** 出力1 ***

-4.844948512763331

出力合計: -4.844948512763331

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 4.17202989  6.19674114 -15.82721714  7.28621666 -19.42024298
    12.26174729 -21.38208883  3.74762108  5.52442039 -21.07645035]
  [ -0.6209102  -0.92224166  2.35551536 -1.0843849  2.8902542
    -1.82487761  3.1822296  -0.55774676 -0.82218226  3.13674237]]
```

*** 偏微分_重み2 ***

```
[6.71905703e+00 6.71905703e+00 7.89871994e-20 6.71905703e+00
 6.48481059e-33 6.71905703e+00 2.27940862e-38 6.71905703e+00
 6.71905703e+00 3.81568782e-38]
```

*** 偏微分_バイアス1 ***

```
[-0.97494499 -1.44809167  3.69859912 -1.70268685  4.53823896 -2.86539872
 4.99669488 -0.87576659 -1.29097972  4.92527145]
```

*** 偏微分_バイアス2 ***

6.719057033257229

順伝播開始

*** 総入力1 ***

```
[ -9.13675289 -13.40536584  15.02492801 -22.09296006  21.96076642
 -24.48323935  26.85511939 -14.02449875 -18.44736599  25.12552925]
```

*** 中間層出力1 ***

```
[1.07624685e-04 1.50703359e-06 9.99999702e-01 2.54184671e-10
 1.00000000e+00 2.32843571e-11 1.00000000e+00 8.11404156e-07
 9.73667647e-09 1.00000000e+00]
```

*** 総入力2 ***

12.427194296733113

*** 出力1 ***

12.427194296733113

出力合計: 12.427194296733113

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-4.58420951 -5.94299744  6.56950924 -6.67414671  8.06088948
 -10.01323561  8.87520589 -4.2993879  -5.49180159  8.74834249]
 [ 2.94879993  3.82284238 -4.22584707  4.29315529 -5.18517974
  6.44102944 -5.70899004  2.76558798  3.53260995 -5.62738496]]
```

*** 偏微分_重み2 ***

```
[1.05085944e-03 1.47148442e-05 9.76410870e+00 2.48188749e-09
 9.76411161e+00 2.27351061e-10 9.76411161e+00 7.92264074e-06
 9.50699958e-08 9.76411161e+00]
```

*** 偏微分_バイアス1 ***

```
[-2.9496 -3.8238796  4.22699363 -4.29432012  5.18658659 -6.44277703
 5.71053901 -2.76633834 -3.53356842  5.62891179]
```

*** 偏微分_バイアス2 ***

9.764111608618837

順伝播開始

*** 総入力1 ***

```
[ 17.42298244  40.7983963 -24.78239477  56.37384783 -43.71534806
 50.55705318 -55.1628573  35.4708962  40.0811476 -52.69245855]
```

*** 中間層出力1 ***

```
[9.99999973e-01 1.00000000e+00 1.72640507e-11 1.00000000e+00
 1.03434534e-19 1.00000000e+00 1.10427049e-24 1.00000000e+00
 1.00000000e+00 1.30603860e-23]
```

*** 総入力2 ***

-8.820849390493166

*** 出力1 ***

-8.820849390493166

出力合計: -8.820849390493166

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.29782431 -0.38607802  0.47582869 -0.43357576  0.63247422 -0.65049458
```

```
0. 71800505 -0. 27930331 -0. 35676651  0. 70468009]
[-0. 59980808 -0. 77754805  0. 95830288 -0. 8732069  1. 27378165 -1. 31007405
 1. 44603785 -0. 56250741 -0. 71851568  1. 41920184]]
```

*** 偏微分_重み2 ***

```
[-1. 14819412e+00 -1. 14819415e+00 -1. 98224820e-11 -1. 14819415e+00
-1. 18762927e-19 -1. 14819415e+00 -1. 26791692e-24 -1. 14819415e+00
-1. 14819415e+00 -1. 49958589e-23]
```

*** 偏微分_バイアス1 ***

```
[ 0. 27279853  0. 3536364 -0. 43584545  0. 39714297 -0. 57932825  0. 59583439
-0. 65767204  0. 25583383  0. 3267879 -0. 64546677]
```

*** 偏微分_バイアス2 ***

```
-1. 148194153089234
```

順伝播開始

*** 総入力1 ***

```
[-0. 30534107  2. 45430011  1. 06703516  1. 73192962 -0. 10579688  0. 00507928
 0. 55850875  0. 69171251 -0. 28766764 -0. 42636585]
```

*** 中間層出力1 ***

```
[0. 42425234 0. 92087534 0. 74403268 0. 84965907 0. 47357542 0. 50126982
0. 63610742 0. 66634778 0. 42857496 0. 39499447]
```

*** 総入力2 ***

```
-0. 39886004412819664
```

*** 出力1 ***

```
-0. 39886004412819664
```

出力合計: -0. 39886004412819664

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0. 0037226  0. 00417815 -0. 00457644  0. 00486183 -0. 00658812  0. 00829827
-0. 0071575  0. 00325807  0. 00450774 -0. 00746459]
[-0. 00707701 -0. 00794305  0. 00870024 -0. 00924278  0. 01252463 -0. 01577577
 0. 01360706 -0. 0061939 -0. 00856963  0. 01419088]]
```

*** 偏微分_重み2 ***

```
[-0. 01273617 -0. 02764493 -0. 02233607 -0. 025507 -0. 01421686 -0. 01504826
```

-0.01909612 -0.02000394 -0.01286594 -0.01185784]

*** 偏微分_バイアス1 ***

[0.00809624 0.009087 -0.00995324 0.01057392 -0.01432841 0.01804779
-0.01556674 0.00708594 0.00980382 -0.01623463]

*** 偏微分_バイアス2 ***

-0.03002027450555067

順伝播開始

*** 総入力1 ***

[16.48846835 21.4628305 -31.09121408 39.52131967 -48.01528621
46.97301367 -49.38074973 21.5921271 30.76739333 -52.84353873]

*** 中間層出力1 ***

[9.99999931e-01 1.00000000e+00 3.14236977e-14 1.00000000e+00
1.40354439e-21 1.00000000e+00 3.58272011e-22 1.00000000e+00
1.00000000e+00 1.12290424e-23]

*** 総入力2 ***

-8.248166355503527

*** 出力1 ***

-8.248166355503527

出力合計: -8.248166355503527

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.27656263 -2.99770197 3.90347537 -3.38725262 5.18574023 -5.16640096
5.88755043 -2.12375376 -2.75958101 5.77704993]
[1.73857065 2.28929203 -2.98101516 2.58678497 -3.96025818 3.94548912
-4.49621823 1.62187322 2.10744325 -4.41183095]]

*** 偏微分_重み2 ***

[-2.75294196e+00 -2.75294215e+00 -8.65076219e-14 -2.75294215e+00
-3.86387651e-21 -2.75294215e+00 -9.86302118e-22 -2.75294215e+00
-2.75294215e+00 -3.09129042e-23]

*** 偏微分_バイアス1 ***

[0.61008368 0.8033379 -1.0460712 0.90773146 -1.38969841 1.38451578
-1.57777272 0.56913325 0.73952515 -1.54816029]

*** 偏微分_バイアス2 ***

-2.752942147699402

順伝播開始

*** 総入力1 ***

[8.07291747 27.04781946 -8.24969636 32.420406 -18.06844189
24.03655394 -26.69361313 21.45490307 21.19534401 -23.84277795]

*** 中間層出力1 ***

[9.99688225e-01 1.00000000e+00 2.61269618e-04 1.00000000e+00
1.42224817e-08 1.00000000e+00 2.55335449e-12 1.00000000e+00
9.99999999e-01 4.41787176e-11]

*** 総入力2 ***

-6.898536316751191

*** 出力1 ***

-6.898536316751191

出力合計: -6.898536316751191

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.3870544 0.53486771 -0.80040455 0.61474477 -1.06333197 0.97955774
-1.2072376 0.35566531 0.48604119 -1.18457956]
[-1.59706271 -2.20696957 3.30262689 -2.53655803 4.38751723 -4.04184824
4.98130022 -1.46754517 -2.00550174 4.88780867]]

*** 偏微分_重み2 ***

[-2.53541006e+00 -2.53620079e+00 -6.62632210e-04 -2.53620079e+00
-3.60710694e-08 -2.53620079e+00 -6.47581966e-12 -2.53620078e+00
-2.53620078e+00 -1.12046098e-10]

*** 偏微分_バイアス1 ***

[0.4660261 0.64399815 -0.96371315 0.74017272 -1.28028633 1.17941943
-1.4535534 0.42823262 0.58520943 -1.42627238]

*** 偏微分_バイアス2 ***

-2.536200785170248

順伝播開始

*** 総入力1 ***

[-0.50009211 11.03894367 5.53074495 8.24270075 4.10295367 -0.26837945
-0.01193401 6.53657581 2.89328861 1.9819457]

*** 中間層出力1 ***

[0.37751902 0.99998394 0.99605261 0.9997369 0.9837448 0.43330498
0.49701653 0.99855265 0.94751367 0.87888842]

*** 総入力2 ***

2.7248507177771697

*** 出力1 ***

2.7248507177771697

出力合計: 2.7248507177771697

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.37489561 -1.64860565 2.25358408 -1.93426685 3.01070813 -3.92949311
4.05820613 -1.00889308 -1.50948042 3.51038902]
[2.4812818 2.97524783 -4.06705579 3.49078219 -5.43344179 7.09157818
-7.32386728 1.82075499 2.72416775 -6.33521869]]

*** 偏微分_重み2 ***

[1.47262914 3.90074511 3.88540976 3.89978146 3.83739936 1.69023944
1.93876595 3.89516196 3.69606869 3.42837479]

*** 偏微分_バイアス1 ***

[-0.71250625 -0.85434983 1.1678652 -1.0023868 1.56022635 -2.03636434
2.10306674 -0.52283433 -0.78225156 1.81917383]

*** 偏微分_バイアス2 ***

3.90080777327224

順伝播開始

*** 総入力1 ***

[-5.65392918 -8.56624323 9.2490418 -14.67362536 13.57116013
-15.30189169 17.41608582 -9.617084 -12.54144405 15.73443949]

*** 中間層出力1 ***

[3.49148973e-03 1.90390442e-04 9.99903805e-01 4.23960398e-07
9.99998723e-01 2.26189677e-07 9.99999973e-01 6.65770537e-05]

3. 57534951e-06 9. 99999853e-01]

*** 総入力2 ***

8. 274564528409638

*** 出力1 ***

8. 274564528409638

出力合計: 8. 274564528409638

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1. 51766582 -2. 44755351 1. 73203548 -2. 78777992 2. 42946415 -4. 06926773
2. 99314684 -1. 68330648 -2. 21422784 2. 78872697]
[0. 97380757 1. 57046834 -1. 11135748 1. 78877401 -1. 55886134 2. 61103838
-1. 92054734 1. 0800906 1. 42075535 -1. 78938169]]

*** 偏微分_重み2 ***

[2. 22522781e-02 1. 21341358e-03 6. 37267735e+00 2. 70202275e-06
6. 37328229e+00 1. 44157250e-06 6. 37329025e+00 4. 24314899e-04
2. 27867408e-05 6. 37328949e+00]

*** 偏微分_バイアス1 ***

[-1. 37033494 -2. 20995165 1. 56389417 -2. 5171498 2. 19361836 -3. 67423425
2. 70258026 -1. 51989565 -1. 99927661 2. 51800492]

*** 偏微分_バイアス2 ***

6. 373290427763579

順伝播開始

*** 総入力1 ***

[-7. 07665929 -16. 76458042 8. 92157048 -22. 84603972 14. 82958996
-19. 57426308 22. 66067242 -15. 78034455 -17. 60982169 18. 80703807]

*** 中間層出力1 ***

[8. 43877238e-04 5. 23884091e-08 9. 99866539e-01 1. 19699136e-10
9. 99999637e-01 3. 15504498e-09 1. 00000000e+00 1. 40179136e-07
2. 24983985e-08 9. 99999993e-01]

*** 総入力2 ***

6. 046580358802544

*** 出力1 ***

6. 046580358802544

出力合計: 6. 046580358802544

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.22624859 -0.36423479 0.16561485 -0.41484051 0.26938927 -0.60553453
0.35326911 -0.25049516 -0.32949246 0.32285004]
[-0.64357616 -1.03608525 0.47110026 -1.18003594 0.76629213 -1.72247521
1.00489279 -0.71254684 -0.93725887 0.91836414]]

*** 偏微分_重み2 ***

[2.64985811e-03 1.64504794e-07 3.13967997e+00 3.75867143e-10
3.14009791e+00 9.90715374e-09 3.14009905e+00 4.40176372e-07
7.06471996e-08 3.14009903e+00]

*** 偏微分_バイアス1 ***

[-0.67638422 -1.08890253 0.49511588 -1.2401915 0.80535597 -1.8102831
1.05611995 -0.74887086 -0.9850382 0.96518026]

*** 偏微分_バイアス2 ***

3.140099047864638

順伝播開始

*** 総入力1 ***

[-4.41307853 -24.48190017 -1.48047192 -24.08511503 1.87856052
-12.40614791 15.82449532 -19.13763203 -15.97052368 7.42762044]

*** 中間層出力1 ***

[1.19727324e-02 2.33155600e-11 1.85356149e-01 3.46710860e-11
8.67445697e-01 4.09332891e-06 9.99999866e-01 4.88238489e-09
1.15901657e-07 9.99405753e-01]

*** 総入力2 ***

4.319274341723982

*** 出力1 ***

4.319274341723982

出力合計: 4.319274341723982

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.83317503  1.34107725 -0.55801603  1.52740263 -0.87374749  2.22951953
 -1.13357082  0.92229898  1.21315937 -1.02185119]
 [-1.72167166 -2.77120004  1.1530835  -3.15622254  1.80551053 -4.60707586
  2.34240907 -1.90583726 -2.50687074  2.11155179]]
```

*** 偏微分_重み2 ***

```
[1.94856892e-02 3.79462046e-11 3.01668172e-01 5.64273870e-11
 1.41177274e+00 6.66191577e-06 1.62750539e+00 7.94610880e-09
 1.88630596e-07 1.62653847e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.35063124 -0.56437551  0.23483404 -0.6427882  0.36770565 -0.93826528
 0.47704904 -0.38813794 -0.51054288  0.43003323]
```

*** 偏微分_バイアス2 ***

1.627505610558332

順伝播開始

*** 総入力1 ***

```
[ 12.0484209  19.36198852 -21.25686125  32.50831679 -34.43255532
 34.93520338 -36.57939834  18.4213962  24.28435365 -38.65380832]
```

*** 中間層出力1 ***

```
[9.99994146e-01 9.99999996e-01 5.86492490e-10 1.00000000e+00
 1.11206770e-15 1.00000000e+00 1.29947866e-16 9.99999990e-01
 1.00000000e+00 1.63254192e-17]
```

*** 総入力2 ***

-8.011503901616962

*** 出力1 ***

-8.011503901616962

出力合計: -8.011503901616962

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -1.32687642 -2.13228108  1.09659345 -2.42853403  1.92697289 -3.54488399
   2.69138298 -1.46643356 -1.92889471  2.40359703]
 [ 0.66361543  1.06642533 -0.54844318  1.21459137 -0.96374381  1.77291545]
```

-1.34605095 0.73341264 0.96470498 -1.20211954]]

*** 偏微分_重み2 ***

[-3.36468640e+00 -3.36470608e+00 -1.97337486e-09 -3.36470610e+00
-3.74178099e-15 -3.36470610e+00 -4.37236376e-16 -3.36470606e+00
-3.36470610e+00 -5.49302375e-17]

*** 偏微分_バイアス1 ***

[0.57101654 0.91761957 -0.47191508 1.04511097 -0.82926592 1.5255282
-1.15822708 0.63107446 0.83009297 -1.03437942]

*** 偏微分_バイアス2 ***

-3.364706097820725

順伝播開始

*** 総入力1 ***

[-24.49249147 -41.0972894 40.99062746 -67.6639947 64.3717252
-69.00991118 76.13283966 -41.71534301 -53.25541183 73.98771009]

*** 中間層出力1 ***

[2.30699210e-11 1.41799269e-18 1.00000000e+00 4.11055513e-30
1.00000000e+00 1.06998177e-30 1.00000000e+00 7.64287439e-19
7.43821126e-24 1.00000000e+00]

*** 総入力2 ***

4.7222900510708286

*** 出力1 ***

4.7222900510708286

出力合計: 4.7222900510708286

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.24872436 5.96069545 -2.2837865 6.95824115 -4.01315062 10.71722524
-5.60512571 3.7186474 5.27585094 -5.00577718]
[-1.41689342 -2.59968813 0.99604697 -3.03475611 1.75028906 -4.67419339
2.44461052 -1.6218449 -2.30100115 2.18321161]]

*** 偏微分_重み2 ***

[-1.08051005e-10 -6.64135496e-18 -4.68363132e+00 -1.92523247e-29
-4.68363132e+00 -5.01140012e-30 -4.68363132e+00 -3.57964059e-18

-3.48378392e-23 -4.68363132e+00]

*** 偏微分_バイアス1 ***

[0.7348973 1.34837509 -0.51661771 1.57403094 -0.90781896 2.42435462
-1.26794129 0.84119908 1.19345571 -1.13236204]

*** 偏微分_バイアス2 ***

-4.683631320359222

順伝播開始

*** 総入力1 ***

[29.03078741 50.42182801 -48.09355709 80.68503846 -77.92654934
83.9686808 -88.209602 47.75540409 60.93440376 -89.10127703]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.29787701e-21 1.00000000e+00
1.43525684e-34 1.00000000e+00 4.90971857e-39 1.00000000e+00
1.00000000e+00 2.01282981e-39]

*** 総入力2 ***

-6.0349501712920866

*** 出力1 ***

-6.0349501712920866

出力合計: -6.0349501712920866

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.0005986 5.50543919 -5.4034777 6.42679598 -7.98598614
9.89868253 -10.36332768 3.43463063 4.87290062 -9.46830352]
[-1.05632509 -1.93812447 1.90223013 -2.26247718 2.81137156
-3.4847136 3.6482864 -1.20912091 -1.71544678 3.33320378]]

*** 偏微分_重み2 ***

[5.04063194e+00 5.04063194e+00 6.54212031e-21 5.04063194e+00
7.23460149e-34 5.04063194e+00 2.47480842e-38 5.04063194e+00
5.04063194e+00 1.01459342e-38]

*** 偏微分_バイアス1 ***

[-0.62201206 -1.14125547 1.12011926 -1.33224904 1.6554629 -2.05195719
2.14827627 -0.71198516 -1.01013276 1.96274135]

*** 偏微分_バイアス2 ***

5. 040631940141321

順伝播開始

*** 総入力1 ***

[38.61609721 85.00011581 -56.61948879 120.647302 -96.86936259
111.75588528 -122.12208928 75.83910351 87.84636186 -115.95245085]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.57316982e-25 1.00000000e+00
8.51471980e-43 1.00000000e+00 9.18439399e-54 1.00000000e+00
1.00000000e+00 4.39026194e-51]

*** 総入力2 ***

-8.504859821961402

*** 出力1 ***

-8.504859821961402

出力合計: -8.504859821961402

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.89276516 7.50729835 -5.64010813 8.46900342 -8.33571042
12.09293168 -10.81716108 5.34580443 6.8470595 -9.88294181]
[4.80882211 7.37849889 -5.54334324 8.32370441 -8.19269826
11.88545851 -10.63157575 5.25408878 6.72958747 -9.71338447]]

*** 偏微分_重み2 ***

[7.75244790e+00 7.75244790e+00 1.99483650e-24 7.75244790e+00
6.60099217e-42 7.75244790e+00 7.12015359e-53 7.75244790e+00
7.75244790e+00 3.40352770e-50]

*** 偏微分_バイアス1 ***

[-1.49446268 -2.29305451 1.72273364 -2.58680095 2.54608749 -3.69370581
3.30403014 -1.63284052 -2.09138893 3.01867906]

*** 偏微分_バイアス2 ***

7.752447900867788

順伝播開始

*** 総入力1 ***

[22.61520225 52.10459867 -31.64343347 71.29457901 -55.26340534
65.08750159 -70.7926934 45.09081448 51.07209266 -66.82840873]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.80897038e-14 1.00000000e+00
9.98637824e-25 1.00000000e+00 1.79938418e-31 1.00000000e+00
1.00000000e+00 9.47961840e-30]

*** 総入力2 ***

-12.303559293156946

*** 出力1 ***

-12.303559293156946

出力合計: -12.303559293156946

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.12270387 -1.50889282 0.83309227 -1.65094489 1.23125581 -2.18623013
1.59778733 -1.18962165 -1.41136988 1.45979514]
[-2.44337174 -3.2838455 1.81308193 -3.59299739 2.67961635 -4.75795357
3.4773091 -2.58900676 -3.07160362 3.17699286]]

*** 偏微分_重み2 ***

[-2.94563106e+00 -2.94563106e+00 -5.32855935e-14 -2.94563106e+00
-2.94161860e-24 -2.94563106e+00 -5.30032192e-31 -2.94563106e+00
-2.94563106e+00 -2.79234584e-29]

*** 偏微分_バイアス1 ***

[0.88212421 1.1855583 -0.65457231 1.29717061 -0.967415 1.71775174
-1.25540396 0.93470245 1.10893316 -1.14698156]

*** 偏微分_バイアス2 ***

-2.9456310616094132

順伝播開始

*** 総入力1 ***

[-50.70258696 -106.1074172 74.41890552 -152.48512785 123.51394401
-144.88894915 158.76626354 -97.0037739 -114.31186832 147.80373838]

*** 中間層出力1 ***

[9.55314272e-23 8.28198083e-47 1.00000000e+00 5.97792417e-67
1.00000000e+00 1.18995050e-63 1.00000000e+00 7.44382698e-43
2.26457325e-50 1.00000000e+00]

*** 総入力2 ***

5.672239598653062

*** 出力1 ***

5.672239598653062

出力合計: 5.672239598653062

誤差逆伝播開始

*** 偏微分_重み1 ***

[[22.37155985 31.27181645 -11.87505222 34.54560237 -17.55054945
46.88198866 -22.77515783 23.91377233 29.02426601 -20.80819152]
[12.48755363 17.45557698 -6.62852088 19.28296753 -9.79651973
26.16899991 -12.71283749 13.34839933 16.20101955 -11.61489897]]

*** 偏微分_重み2 ***

[-1.34957815e-21 -1.17000035e-45 -1.41270594e+01 -8.44504901e-66
-1.41270594e+01 -1.68105014e-62 -1.41270594e+01 -1.05159386e-41
-3.19917608e-49 -1.41270594e+01]

*** 偏微分_バイアス1 ***

[4.651164 6.50157377 -2.4688853 7.18221094 -3.64885078 9.74701001
-4.73507412 4.97179801 6.03429631 -4.32613156]

*** 偏微分_バイアス2 ***

-14.127059438384148

順伝播開始

*** 総入力1 ***

[2.79570354 4.65946186 -5.04856144 7.28000097 -8.80399198 8.591469
-7.81817776 3.40798815 4.63446172 -9.62227384]

*** 中間層出力1 ***

[9.42443210e-01 9.90617311e-01 6.37762513e-03 9.99311290e-01
1.50110015e-04 9.99814351e-01 4.02192375e-04 9.67953254e-01
9.90382070e-01 6.62324472e-05]

*** 総入力2 ***

-9.70120127154685

*** 出力1 ***

-9.70120127154685

出力合計: -9.70120127154685

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.0197832 -1.39500009 1.80152062 -1.53488749 2.20911604 -2.08251855
2.58431316 -1.07779753 -1.29487904 2.4430586]
[0.37265685 0.50977142 -0.65832521 0.56089013 -0.8072718 0.76100959
-0.94437915 0.39385688 0.47318444 -0.89276085]]

*** 偏微分_重み2 ***

[-8.19954138e+00 -8.61867065e+00 -5.54872704e-02 -8.69431091e+00
-1.30600260e-03 -8.69868769e+00 -3.49919549e-03 -8.42148650e+00
-8.61662399e+00 -5.76242352e-04]

*** 偏微分_バイアス1 ***

[2.3119589 3.16261619 -4.08424225 3.47975607 -5.00830517 4.72129495
-5.85891766 2.44348365 2.93563094 -5.53867829]

*** 偏微分_バイアス2 ***

-8.700302892829164

順伝播開始

*** 総入力1 ***

[32.92203588 63.74587106 -45.14294665 90.52596447 -75.26544429
91.53696232 -91.53757427 56.11631843 67.32891402 -88.66958406]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.48123200e-20 1.00000000e+00
2.05415338e-33 1.00000000e+00 1.76090776e-40 1.00000000e+00
1.00000000e+00 3.09948065e-39]

*** 総入力2 ***

-5.674832231643986

*** 出力1 ***

-5.674832231643986

出力合計: -5.674832231643986

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.29585528  3.82417536 -7.39322938  4.40332404 -9.04750644
    6.64639713 -10.58468103  2.52838015  3.41578297 -10.00538702]
  [ 0.74361795  1.23863445 -2.39463617  1.4262183  -2.93044961
    2.15274032 -3.42833405  0.81893179  1.10635786 -3.24070314]]
```

*** 偏微分_重み2 ***

```
[5.24845859e+00 5.24845859e+00 1.30226434e-19 5.24845859e+00
 1.07811389e-32 5.24845859e+00 9.24205146e-40 5.24845859e+00
 5.24845859e+00 1.62674958e-38]
```

*** 偏微分_バイアス1 ***

```
[-0.76669219 -1.2770689  2.46894099 -1.47047341  3.02138056 -2.21953919
 3.5347142  -0.84434299 -1.1406878  3.34126116]
```

*** 偏微分_バイアス2 ***

5.248458586368617

順伝播開始

*** 総入力1 ***

```
[ 21.70948043  55.74223826 -24.97402386  70.34980035 -46.05240947
 60.4365891  -64.17159039  46.27514055  49.35448493 -57.93730706]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.42534254e-11 1.00000000e+00
 9.99292644e-21 1.00000000e+00 1.35092861e-28 1.00000000e+00
 1.00000000e+00 6.8885825e-26]
```

*** 総入力2 ***

-8.246576938523635

*** 出力1 ***

-8.246576938523635

出力合計: -8.246576938523635

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.03178722 -0.04594619  0.06849384 -0.05131165  0.08381973 -0.07209238
```

```
0.09806073 -0.03394142 -0.04216268 0.09269392]
[ 0.48055886 0.69461403 -1.03548924 0.77572909 -1.26718584 1.08989194
-1.48248116 0.51312609 0.63741495 -1.40134575]]
```

*** 偏微分_重み2 ***

```
[4.55703670e-01 4.55703670e-01 6.49533827e-12 4.55703670e-01
4.55381325e-21 4.55703670e-01 6.15623124e-29 4.55703670e-01
4.55703670e-01 3.13927799e-26]
```

*** 偏微分_バイアス1 ***

```
[-0.09948611 -0.14380018 0.21436874 -0.16059276 0.26233497 -0.22563128
0.30690577 -0.10622824 -0.13195873 0.29010898]
```

*** 偏微分_バイアス2 ***

0.4557036698185222

順伝播開始

*** 総入力1 ***

```
[ 47.31220201 102.32512229 -61.40349503 137.75453902 -104.49991092
130.86880357 -135.32020045 88.22502613 100.83664989 -126.27985198]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 2.15179523e-27 1.00000000e+00
4.13299927e-46 1.00000000e+00 1.70287848e-59 1.00000000e+00
1.00000000e+00 1.43667029e-55]
```

*** 総入力2 ***

-8.469871737163789

*** 出力1 ***

-8.469871737163789

出力合計: -8.469871737163789

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 4.24110418 6.07746231 -8.88335958 6.77334035 -10.87106174
9.46851235 -12.71805902 4.52049523 5.58675706 -12.02200637]
[ 8.58607277 12.30376134 -17.98427216 13.71255944 -22.00835519
19.16890804 -25.74758261 9.15169714 11.31033349 -24.33843101]]
```

*** 偏微分_重み2 ***

[8.05526106e+00 8.05526106e+00 1.73332723e-26 8.05526106e+00
3.32923880e-45 8.05526106e+00 1.37171307e-58 8.05526106e+00
8.05526106e+00 1.15727542e-54]

*** 偏微分_バイアス1 ***

[-1.80909034 -2.5924094 3.78929621 -2.88924395 4.63717276 -4.03889965
5.42503007 -1.92826771 -2.3830936 5.12812104]

*** 偏微分_バイアス2 ***

8.055261055047914

順伝播開始

*** 総入力1 ***

[9.94633483 31.93413189 -10.58563399 35.60234269 -20.46121538
26.78141486 -31.76720642 24.52148335 23.35728254 -27.18846515]

*** 中間層出力1 ***

[9.99952099e-01 1.00000000e+00 2.52758979e-05 1.00000000e+00
1.29959212e-09 1.00000000e+00 1.59837083e-14 1.00000000e+00
1.00000000e+00 1.55668096e-12]

*** 総入力2 ***

-12.416820365261675

*** 出力1 ***

-12.416820365261675

出力合計: -12.416820365261675

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.36927353 5.63575868 -6.12707399 6.11572307 -7.4980416
7.97465021 -8.77196155 4.56187977 5.29730707 -8.29187672]
[-12.31558576 -15.88540266 17.2702635 -17.23826889 21.13458305
-22.47799043 24.72535627 -12.8584812 -14.93141572 23.37215057]]

*** 偏微分_重み2 ***

[-8.25569931e+00 -8.25609479e+00 -2.08680209e-04 -8.25609479e+00
-1.07295557e-08 -8.25609479e+00 -1.31963011e-13 -8.25609479e+00
-8.25609479e+00 -1.28521056e-11]

*** 偏微分_バイアス1 ***

```
[ 2.76955322  3.57234069 -3.88377093  3.87657591 -4.75278673  5.05489483
-5.56028689  2.89164062  3.35780622 -5.25597533]
```

*** 偏微分_バイアス2 ***

-8.256094786639583

順伝播開始

*** 総入力1 ***

```
[ 6.14897111 -4.12125136 -14.36283856  2.26081827 -18.65460535
15.21605789 -10.80287059 -2.08014839  3.98350667 -17.131506 ]
```

*** 中間層出力1 ***

```
[9.97868873e-01 1.59651772e-02 5.78493148e-07 9.05579621e-01
7.91421477e-09 9.9999754e-01 2.03406150e-05 1.11041318e-01
9.81720145e-01 3.62978970e-08]
```

*** 総入力2 ***

-5.504123127739209

*** 出力1 ***

-5.504123127739209

出力合計: -5.504123127739209

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -3.50161611 -6.39747278  7.41840263 -5.85262162  9.07824187
-7.86340865 10.62063841 -4.7300318 -4.66071963 10.03937648]
[ 5.39844575  9.86299143 -11.4369602  9.02299375 -13.99593635
12.12302651 -16.37385093  7.29229568  7.18543702 -15.47771872]]
```

*** 偏微分_重み2 ***

```
[-5.72130001e+00 -9.15366448e-02 -3.31680138e-06 -5.19215784e+00
-4.53762997e-08 -5.73351745e+00 -1.16623300e-04 -6.36657490e-01
-5.62871098e+00 -2.08114677e-07]
```

*** 偏微分_バイアス1 ***

```
[ 1.27309756  2.32595656 -2.69714039  2.12786269 -3.30061525  2.85893314
-3.86139096  1.71971791  1.69451778 -3.65005908]
```

*** 偏微分_バイアス2 ***

-5.733518867946591

順伝播開始

*** 総入力1 ***

[-34.61464971 -75.42932893 45.46246773 -99.82358499 74.47873728
-94.40807729 101.10183111 -65.94602587 -74.71120052 90.81510079]

*** 中間層出力1 ***

[9.26933630e-16 1.74364743e-33 1.00000000e+00 4.43780152e-44
1.00000000e+00 9.97913702e-42 1.00000000e+00 2.29089329e-29
3.57550902e-33 1.00000000e+00]

*** 総入力2 ***

11.246128760292821

*** 出力1 ***

11.246128760292821

出力合計: 11.246128760292821

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.04525034 0.10050492 -0.09201311 0.08995829 -0.11260067 0.13273729
-0.13173197 0.07205823 0.06818685 -0.12452197]
[0.11625325 0.25820854 -0.23639211 0.23111306 -0.28928391 0.34101715
-0.33843437 0.18512578 0.17517976 -0.31991107]]

*** 偏微分_重み2 ***

[-1.64241790e-16 -3.08953916e-34 -1.77188296e-01 -7.86326488e-45
-1.77188296e-01 -1.76818628e-42 -1.77188296e-01 -4.05919479e-30
-6.33538350e-34 -1.77188296e-01]

*** 偏微分_バイアス1 ***

[0.03223735 0.07160196 -0.0655522 0.0640883 -0.08021924 0.09456502
-0.0938488 0.0513359 0.04857784 -0.08871224]

*** 偏微分_バイアス2 ***

-0.17718829585392903

順伝播開始

*** 総入力1 ***

[-52.96105122 -99.57179985 73.17240589 -140.50915751 116.769847
-143.45596446 147.3909444 -89.48696145 -107.69220863 138.06929025]

*** 中間層出力1 ***

[9.98407194e-24 5.70843120e-44 1.00000000e+00 9.49835149e-62
1.00000000e+00 4.98730856e-63 1.00000000e+00 1.36869424e-39
1.69772775e-47 1.00000000e+00]

*** 総入力2 ***

11.308144663841697

*** 出力1 ***

11.308144663841697

出力合計: 11.308144663841697

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.83730097 8.52297802 -7.85429206 7.62860737 -9.60015072
11.25633444 -11.22251506 6.11065362 5.78235437 -10.61109572]
[0.96066163 2.13371275 -1.96630838 1.90980861 -2.40338106
2.81800378 -2.80953716 1.52979152 1.44760238 -2.65646938]]

*** 偏微分_重み2 ***

[-4.62458230e-23 -2.64412256e-43 -4.63196011e+00 -4.39959853e-61
-4.63196011e+00 -2.31010143e-62 -4.63196011e+00 -6.33973711e-39
-7.86380723e-47 -4.63196011e+00]

*** 偏微分_バイアス1 ***

[0.84273136 1.87177939 -1.72492548 1.67536159 -2.10834337 2.47206724
-2.46463998 1.34199519 1.26989553 -2.33036272]

*** 偏微分_バイアス2 ***

-4.631960114832312

順伝播開始

*** 総入力1 ***

[-67.81723577 -135.89654699 93.48807556 -185.1965057 149.91393154
-185.12836229 192.82643466 -119.66945771 -140.02013779 178.74323726]

*** 中間層出力1 ***

[3.52653929e-30 9.56928594e-60 1.00000000e+00 3.71688826e-81
1.00000000e+00 3.97899886e-81 1.00000000e+00 1.06712394e-52
1.54891221e-61 1.00000000e+00]

*** 総入力2 ***

12.929330704033008

*** 出力1 ***

12.929330704033008

出力合計: 12.929330704033008

誤差逆伝播開始

*** 偏微分_重み1 ***

[[6.55642503 14.5623882 -15.71715736 13.03426358 -18.70013721
19.23260994 -21.47211424 10.44068282 9.87974965 -20.42744114]
[5.14388781 11.42502062 -12.3310026 10.22612006 -14.67131971
15.08907481 -16.84609313 8.19130865 7.75122472 -16.02648775]]

*** 偏微分_重み2 ***

[-2.78723275e-29 -7.56317311e-59 -7.90359193e+00 -2.93767681e-80
-7.90359193e+00 -3.14483832e-80 -7.90359193e+00 -8.43411215e-52
-1.22419701e-60 -7.90359193e+00]

*** 偏微分_バイアス1 ***

[1.43796678 3.19384884 -3.44711487 2.85869784 -4.1013473 4.21813017
-4.70930223 2.2898691 2.16684424 -4.48018267]

*** 偏微分_バイアス2 ***

-7.903591927192631

順伝播開始

*** 総入力1 ***

[-68.7573465 -138.83685288 98.11213709 -185.50446291 154.03055022
-188.37148169 197.09146994 -121.00481169 -140.23737287 182.79471508]

*** 中間層出力1 ***

[1.37741189e-30 5.05732551e-61 1.00000000e+00 2.73171500e-81
1.00000000e+00 1.55347745e-82 1.00000000e+00 2.80723001e-53
1.24647280e-61 1.00000000e+00]

*** 総入力2 ***

15.695587878550429

*** 出力1 ***

15. 695587878550429

出力合計: 15. 695587878550429

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 3.49206246  7.75617336 -10.45902858  6.94226843 -12.04781392
    10.24361216 -13.5242156  5.56088361  5.26212116 -12.9678051 ]
  [ 2.84588797  6.32096382 -8.5236802  5.65766462 -9.81847522
    8.34812463 -11.02168216  4.53189253  4.28841336 -10.56823037 ]]
```

*** 偏微分_重み2 ***

```
[-6.08558623e-30 -2.23439269e-60 -4.41813105e+00 -1.20690749e-80
 -4.41813105e+00 -6.86346698e-82 -4.41813105e+00 -1.24027101e-52
 -5.50708018e-61 -4.41813105e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0.80382765  1.78537086 -2.4075332  1.59802047 -2.77325105  2.35794713
 -3.11309964  1.28004354  1.21127228 -2.98502113]
```

*** 偏微分_バイアス2 ***

-4.41813104998983

順伝播開始

*** 総入力1 ***

```
[-19.61855318 -43.56205862  27.5568356 -55.08018648  42.5460127
 -53.4385311  58.36826211 -37.65224754 -41.62594754  51.60435752]
```

*** 中間層出力1 ***

```
[3.01835703e-09 1.20569739e-19 1.00000000e+00 1.19944117e-24
 1.00000000e+00 6.19356677e-24 1.00000000e+00 4.44464072e-17
 8.35758266e-19 1.00000000e+00]
```

*** 総入力2 ***

17.241933743846932

*** 出力1 ***

17.241933743846932

出力合計: 17.241933743846932

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -1.15013487 -2.55454923  3.82914224 -2.28648403  4.35241966
  -3.37380437  4.83868274 -1.8315154  -1.73311592  4.6554251 ]
 [ -4.28721264 -9.52227081 14.27341033 -8.52303797 16.22396553
 -12.57610481 18.03654706 -6.82710884 -6.46031753 17.35344069]]
```

*** 偏微分_重み2 ***

```
[3.46792656e-08 1.38528013e-18 1.14894511e+01 1.37809207e-23
 1.14894511e+01 7.11606827e-23 1.14894511e+01 5.10664824e-16
 9.60240376e-18 1.14894511e+01]
```

*** 偏微分_バイアス1 ***

```
[-2.09037223 -4.64289788  6.95947299 -4.15568888  7.91053065 -6.13189558
  8.79431469 -3.32878258 -3.14994135  8.4612436 ]
```

*** 偏微分_バイアス2 ***

11.489451131955933

順伝播開始

*** 総入力1 ***

```
[ 4.56643348 17.63567128 -5.45273763 19.68892107 -11.7368494
 14.53897538 -17.22733466 13.04493066 12.09023847 -15.49976501]
```

*** 中間層出力1 ***

```
[9.89711976e-01 9.99999978e-01 4.26627996e-03 9.99999997e-01
 7.99369548e-06 9.99999515e-01 3.29809837e-08 9.99997839e-01
 9.99994386e-01 1.85582706e-07]
```

*** 総入力2 ***

-5.9477419707740875

*** 出力1 ***

-5.9477419707740875

出力合計: -5.9477419707740875

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.40272941  0.89027289 -1.59434184  0.79685085 -1.88919909  1.17578756
 -2.16319271  0.6382927  0.60400093 -2.05993292]
 [-1.22829793 -2.71527314  4.86263665 -2.43034213  5.76193168 -3.58607391
  6.59759398 -1.9467503  -1.84216269  6.2826585 ]]
```

*** 偏微分_重み2 ***

[-3.33937677e+00 -3.37408941e+00 -1.43948103e-02 -3.37408947e+00
-2.69714438e-05 -3.37408784e+00 -1.11280790e-07 -3.37408219e+00
-3.37407054e+00 -6.26172657e-07]

*** 偏微分_バイアス1 ***

[0.48507234 1.07230002 -1.92032444 0.95977671 -2.27546885 1.41619164
-2.60548379 0.76879941 0.72749627 -2.48111128]

*** 偏微分_バイアス2 ***

-3.374089479908844

順伝播開始

*** 総入力1 ***

[2.53330664 10.04086583 -3.05065058 11.48388782 -7.25542554 8.57764429
-9.51891112 7.08995261 6.61313339 -9.35289082]

*** 中間層出力1 ***

[9.26444004e-01 9.99956420e-01 4.51893945e-02 9.99989705e-01
7.05833189e-04 9.99811767e-01 7.34442042e-05 9.99167257e-01
9.98659182e-01 8.67068622e-05]

*** 総入力2 ***

-4.170104939762345

*** 出力1 ***

-4.170104939762345

出力合計: -4.170104939762345

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.11343034 0.30666619 -0.64311737 0.26897481 -0.76210412 0.42187336
-0.87263282 0.20508984 0.19129588 -0.83097779]
[-0.37742896 -1.02040335 2.13991348 -0.89498876 2.5358309 -1.40374455
2.9036049 -0.68241746 -0.63651933 2.76500165]]

*** 偏微分_重み2 ***

[-2.36355072e+00 -2.55109614e+00 -1.15287514e-01 -2.55118106e+00
-1.80072680e-03 -2.55072710e+00 -1.87371391e-04 -2.54908282e+00
-2.54778661e+00 -2.21207182e-04]

*** 偏微分_バイアス1 ***

[0.25607975 0.69232799 -1.4518984 0.60723612 -1.72052228 0.9524191
-1.97005129 0.46300975 0.43186858 -1.87601111]

*** 偏微分_バイアス2 ***

-2.5512073189796887

順伝播開始

*** 総入力1 ***

[8.0302973 21.07097422 -10.68341326 26.34376353 -19.45478864
23.66623586 -24.94782809 16.67182653 17.77645838 -23.81944329]

*** 中間層出力1 ***

[9.99674654e-01 9.99999999e-01 2.29214780e-05 1.00000000e+00
3.55543418e-09 1.00000000e+00 1.46317384e-11 9.99999943e-01
9.99999981e-01 4.52217348e-11]

*** 総入力2 ***

-3.0774179553386953

*** 出力1 ***

-3.0774179553386953

出力合計: -3.0774179553386953

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.00093178 -0.00340741 0.00824115 -0.00292641 0.0097269 -0.00487744
0.01113713 -0.0021105 -0.0019342 0.01060551]
[0.02057757 0.07524952 -0.18199837 0.06462717 -0.2148098 0.10771378
-0.2459534 0.04660847 0.04271516 -0.23421308]]

*** 偏微分_重み2 ***

[1.82095567e-01 1.82154830e-01 4.17525794e-06 1.82154830e-01
6.47639509e-10 1.82154830e-01 2.66524181e-12 1.82154820e-01
1.82154827e-01 8.23735741e-12]

*** 偏微分_バイアス1 ***

[-0.01176835 -0.04303534 0.1040852 -0.0369604 0.12285012 -0.06160171
0.1406612 -0.02665547 -0.02442888 0.13394689]

*** 偏微分_バイアス2 ***

0.18215483006635802

順伝播開始

*** 総入力1 ***

[-78.18480404 -157.68075796 111.07802013 -210.76166795 174.7422411
-214.33068691 223.22550824 -137.32088915 -159.23601835 207.33221977]

*** 中間層出力1 ***

[1.10859020e-34 3.31220276e-69 1.00000000e+00 2.93339545e-92
1.00000000e+00 8.26733192e-94 1.00000000e+00 2.30300878e-60
6.99319936e-70 1.00000000e+00]

*** 総入力2 ***

13.631879849066156

*** 出力1 ***

13.631879849066156

出力合計: 13.631879849066156

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.91689652 13.93703862 -20.62955451 11.99032081 -24.34874114
19.88664496 -27.87887483 8.688098 7.97458635 -26.5481069]
[3.11593385 11.08706605 -16.41103535 9.53843083 -19.36968883
15.82004271 -22.17794864 6.9114766 6.34387032 -21.11930825]]

*** 偏微分_重み2 ***

[-1.02233526e-33 -3.05449358e-68 -9.22194021e+00 -2.70515974e-91
-9.22194021e+00 -7.62408407e-93 -9.22194021e+00 -2.12382093e-59
-6.44908664e-69 -9.22194021e+00]

*** 偏微分_バイアス1 ***

[0.78685127 2.79976161 -4.14419707 2.40869246 -4.89133111 3.99495664
-5.60048698 1.74532079 1.601986 -5.3331538]

*** 偏微分_バイアス2 ***

-9.221940210900936

順伝播開始

*** 総入力1 ***

[-27.22256231 -42.01358678 45.20409888 -61.58535029 64.82581005
-73.90829681 75.30011958 -38.81883588 -49.85227191 73.08135398]

*** 中間層出力1 ***

[1.50449728e-12 5.67193305e-19 1.00000000e+00 1.79399903e-27
1.00000000e+00 7.98058132e-33 1.00000000e+00 1.38418386e-17
2.23580230e-22 1.00000000e+00]

*** 総入力2 ***

16.85955892288097

*** 出力1 ***

16.85955892288097

出力合計: 16.85955892288097

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3.39733325 -12.08833689 22.94667974 -10.39984471 26.17252866
-17.24874777 29.23440188 -7.53565075 -6.91678405 28.08015588]
[2.34355132 8.33878686 -15.82909818 7.17402974 -18.05435603
11.89854589 -20.16650003 5.19824902 4.77134187 -19.37027707]]

*** 偏微分_重み2 ***

[1.65311196e-11 6.23220828e-18 1.09878030e+01 1.97121079e-26
1.09878030e+01 8.76890550e-32 1.09878030e+01 1.52091396e-16
2.45665551e-21 1.09878030e+01]

*** 偏微分_バイアス1 ***

[-0.93752144 -3.33587382 6.33232088 -2.86992081 7.22251984 -4.75993072
8.06746839 -2.07952345 -1.9087422 7.74894492]

*** 偏微分_バイアス2 ***

10.987802964688946

順伝播開始

*** 総入力1 ***

[8.26937655 -0.29144865 -11.7706128 9.61259483 -18.23406602
19.57753543 -11.97124138 2.29624541 9.51947611 -17.79779429]

*** 中間層出力1 ***

[9.99743821e-01 4.27649252e-01 7.72830864e-06 9.99933123e-01

1. 20516286e-08 9. 99999997e-01 6. 32343675e-06 9. 08565608e-01
9. 99926597e-01 1. 86430146e-08]

*** 総入力2 ***

-2. 525919079899434

*** 出力1 ***

-2. 525919079899434

出力合計: -2. 525919079899434

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 26797437 -1. 15849329 2. 15825975 -0. 82024574 2. 56960643 -1. 36038326
2. 96004362 -0. 61894359 -0. 54553505 2. 81285903]
[0. 34882565 1. 50802544 -2. 80943414 1. 06772431 -3. 34488935 1. 77082818
-3. 85312641 0. 80568674 0. 7101299 -3. 66153435]]

*** 偏微分_重み2 ***

[-1. 37001418e+00 -5. 86035667e-01 -1. 05906055e-05 -1. 37027359e+00
-1. 65151329e-08 -1. 37036523e+00 -8. 66541790e-06 -1. 24506672e+00
-1. 37026465e+00 -2. 55477392e-08]

*** 偏微分_バイアス1 ***

[0. 09196614 0. 39758337 -0. 74069327 0. 28150018 -0. 88186336 0. 46687
-1. 01585752 0. 21241528 0. 1872222 -0. 96534523]

*** 偏微分_バイアス2 ***

-1. 3703652359895133

順伝播開始

*** 総入力1 ***

[42. 12935393 81. 99766821 -63. 78844696 111. 35149391 -99. 99504274
118. 02775535 -120. 88156924 70. 30438197 83. 17051199 -116. 54125347]

*** 中間層出力1 ***

[1. 00000000e+00 1. 00000000e+00 1. 98166152e-28 1. 00000000e+00
3. 73856316e-44 1. 00000000e+00 3. 17542249e-53 1. 00000000e+00
1. 00000000e+00 2. 43655773e-51]

*** 総入力2 ***

-2. 682672444910236

*** 出力1 ***

-2.682672444910236

出力合計: -2.682672444910236

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.52329276  7.28372411 -17.06519248  5.88999578 -20.31767187
    10.16098042 -23.40483221  4.15826992  3.71793837 -22.24105066]
  [ 0.45763565  2.18821482 -5.12681515  1.7695036  -6.10394216
    3.05261534 -7.03140316  1.24924938  1.11696266 -6.68177377]]
```

*** 偏微分_重み2 ***

```
[9.40515336e+00 9.40515336e+00 1.86378305e-27 9.40515336e+00
 3.51617599e-43 9.40515336e+00 2.98653355e-52 9.40515336e+00
 9.40515336e+00 2.29161991e-50]
```

*** 偏微分_バイアス1 ***

```
[-0.4537747 -2.16975347 5.08356165 -1.7545748 6.05244492 -3.02686128
 6.97208119 -1.23870982 -1.10753916 6.62540152]
```

*** 偏微分_バイアス2 ***

9.40515336268512

順伝播開始

*** 総入力1 ***

```
[ 46.30024755  85.17161983 -73.8148956  118.12261116 -113.36629681
 129.69616461 -133.92059751  73.71920907  89.31055872 -130.60570705]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 8.76189733e-33 1.00000000e+00
 5.82965511e-50 1.00000000e+00 6.90277139e-59 1.00000000e+00
 1.00000000e+00 1.89959983e-57]
```

*** 総入力2 ***

-7.291197592625945

*** 出力1 ***

-7.291197592625945

出力合計: -7.291197592625945

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 4.21065404  8.53414912 -12.80829007  7.48808551 -15.24944035
    10.6936755  -17.56651033  6.18833767  5.85784657 -16.69303341]
  [ -0.37802775 -0.76618625  1.14991379 -0.67227184  1.3690775
    -0.96006608  1.57710142 -0.55558195 -0.52591083  1.49868165]]
```

*** 偏微分_重み2 ***

```
[5.30569885e+00 5.30569885e+00 4.64879886e-32 5.30569885e+00
 3.09303944e-49 5.30569885e+00 3.66240262e-58 5.30569885e+00
 5.30569885e+00 1.00787046e-56]
```

*** 偏微分_バイアス1 ***

```
[-0.94276449 -1.91079406  2.86777325 -1.67658065  3.41434624 -2.39431153
 3.93313769 -1.3855674  -1.31157052  3.7375664 ]
```

*** 偏微分_バイアス2 ***

5.305698849691428

順伝播開始

*** 総入力1 ***

```
[ 30.92376189  77.40113772 -51.83845545  94.69562884 -81.02273644
 92.55671441 -104.85204042  62.43626297  67.18071159 -96.94498486]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 3.06792578e-23 1.00000000e+00
 6.49041780e-36 1.00000000e+00 2.90627984e-46 1.00000000e+00
 1.00000000e+00 7.89456178e-43]
```

*** 総入力2 ***

-9.890990028974699

*** 出力1 ***

-9.890990028974699

出力合計: -9.890990028974699

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.02737272  0.04729282 -0.059013  0.04247318 -0.07026037  0.05724264
    -0.08093605  0.03648471  0.03496201 -0.07691159]
```

```
[ 0.40607546  0.70159096 -0.87546028  0.63009139 -1.04231551  0.84919689  
-1.20068971  0.54125224  0.51866282 -1.14098663]]
```

*** 偏微分_重み2 ***

```
[3.48356149e-01 3.48356149e-01 1.06873081e-23 3.48356149e-01  
2.26097695e-36 3.48356149e-01 1.01242045e-46 3.48356149e-01  
3.48356149e-01 2.75011914e-43]
```

*** 偏微分_バイアス1 ***

```
[-0.08733654 -0.15089444  0.18828932 -0.13551669  0.22417565 -0.18264073  
0.25823793 -0.11640964 -0.11155123  0.24539731]
```

*** 偏微分_バイアス2 ***

0.3483561493174996

順伝播開始

*** 総入力1 ***

```
[-21.41602877 -51.30929043  33.1348447 -63.05380714  50.47934248  
-61.33982973  69.32501724 -43.19461062 -46.80728067  61.20488405]
```

*** 中間層出力1 ***

```
[5.00192160e-10 5.20784797e-23 1.00000000e+00 4.13123114e-28  
1.00000000e+00 2.29324485e-27 1.00000000e+00 1.74108094e-19  
4.69738645e-21 1.00000000e+00]
```

*** 総入力2 ***

12.055610216657046

*** 出力1 ***

12.055610216657046

出力合計: 12.055610216657046

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -0.56359406 -0.96604531  0.73741028 -0.86867279  0.87795436  
-1.16706417  1.01135478 -0.74768615 -0.71692249  0.96106619]  
[ -5.02093733 -8.60628823  6.56942836 -7.73881758  7.82150509  
-10.39712173  9.00994048 -6.66097384 -6.38690702  8.56193032]]
```

*** 偏微分_重み2 ***

```
[2.77984120e-09 2.89428574e-22 5.55754653e+00 2.29595093e-27
```

5. 55754653e+00 1. 27448149e-26 5. 55754653e+00 9. 67613834e-19
2. 61059438e-20 5. 55754653e+00]

*** 偏微分_バイアス1 ***

[-1. 805562 -3. 0948777 2. 36240953 -2. 78292956 2. 81266453 -3. 73887317
3. 24003369 -2. 39532988 -2. 29677366 3. 0789263]

*** 偏微分_バイアス2 ***

5. 557546530615675

順伝播開始

*** 総入力1 ***

[60. 9244468 129. 0107283 -100. 22215435 168. 30601331 -154. 02531949
175. 29116196 -190. 83814127 108. 36784087 124. 20761226 -180. 58122218]

*** 中間層出力1 ***

[1. 00000000e+00 1. 00000000e+00 2. 97900616e-44 1. 00000000e+00
1. 28130839e-67 1. 00000000e+00 1. 31840338e-83 1. 00000000e+00
1. 00000000e+00 3. 75466913e-79]

*** 総入力2 ***

-10. 450712799478007

*** 出力1 ***

-10. 450712799478007

出力合計: -10. 450712799478007

誤差逆伝播開始

*** 偏微分_重み1 ***

[[7. 00077705 11. 99989188 -12. 14498133 10. 79036302 -14. 96760292
14. 49688104 -17. 64675455 9. 28750744 8. 90537147 -16. 63678199]
[6. 67940925 11. 44904175 -11. 58747093 10. 29503581 -14. 28052122
13. 83140764 -16. 83668749 8. 8611682 8. 49657403 -15. 87307731]]

*** 偏微分_重み2 ***

[7. 49422302e+00 7. 49422302e+00 2. 23253365e-43 7. 49422302e+00
9. 60241085e-67 7. 49422302e+00 9. 88040897e-83 7. 49422302e+00
7. 49422302e+00 2. 81383279e-78]

*** 偏微分_バイアス1 ***

[-1. 9148104 -3. 28213819 3. 32182218 -2. 95131513 4. 09384865 -3. 96509963

4. 82663407 -2. 54026312 -2. 43574359 4. 55039246]

*** 偏微分_バイアス2 ***

7. 494223024839757

順伝播開始

*** 総入力1 ***

[-3. 70930252 6. 08485136 3. 51315964 1. 53531095 3. 2538698 -5. 30814047
0. 21563077 1. 83113045 -2. 55664877 1. 82539463]

*** 中間層出力1 ***

[0. 02390896 0. 99772807 0. 97105989 0. 82278204 0. 96281192 0. 00492673
0. 55369978 0. 86189634 0. 07198108 0. 86121218]

*** 総入力2 ***

0. 9866789654241354

*** 出力1 ***

0. 9866789654241354

出力合計: 0. 9866789654241354

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1. 31164316 -1. 55815968 1. 01610087 -1. 54173649 1. 2568997 -2. 31250655
1. 71762558 -1. 35039223 -1. 564057 1. 45897426]
[2. 15853433 2. 56421964 -1. 67216868 2. 53719246 -2. 06844455 3. 80562711
-2. 8266482 2. 22230258 2. 5739247 -2. 40099297]]

*** 偏微分_重み2 ***

[0. 03665902 1. 52979171 1. 48890205 1. 2615513 1. 47625564 0. 00755404
0. 84897415 1. 32152429 0. 11036681 1. 32047528]

*** 偏微分_バイアス1 ***

[-0. 69912514 -0. 83052208 0. 54159674 -0. 82176828 0. 66994607 -1. 23260008
0. 91551976 -0. 71977896 -0. 83366544 0. 77765479]

*** 偏微分_バイアス2 ***

1. 5332752027414345

順伝播開始

*** 総入力1 ***

```
[ 35.774491    70.4269161  -59.49409339  92.78726209  -90.13993516
 100.50653073 -107.90343953   59.27547317  69.13775435 -104.23182246]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.45225719e-26 1.00000000e+00
 7.12399426e-40 1.00000000e+00 1.37445850e-47 1.00000000e+00
 1.00000000e+00 5.40374274e-46]
```

*** 総入力2 ***

-14.528932646980158

*** 出力1 ***

-14.528932646980158

出力合計: -14.528932646980158

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-4.73134739 -7.40561582  5.49600274 -6.77544569  6.8560223  -8.33016432
  8.2887599  -6.06375287 -5.66043178  7.69446982]
 [-1.43457657 -2.24543287  1.66642525 -2.05436102  2.07879239 -2.52576223
  2.51320813 -1.83857093 -1.71628125  2.33301536]]
```

*** 偏微分_重み2 ***

```
[-4.97041273e+00 -4.97041273e+00 -7.21831762e-26 -4.97041273e+00
 -3.54091918e-39 -4.97041273e+00 -6.83162605e-47 -4.97041273e+00
 -4.97041273e+00 -2.68588317e-45]
```

*** 偏微分_バイアス1 ***

```
[ 1.78512944  2.79412644 -2.07363262  2.5563643  -2.58676572  3.14295704
 -3.12733522  2.28784379  2.13567143 -2.90311057]
```

*** 偏微分_バイアス2 ***

-4.9704127294464815

順伝播開始

*** 総入力1 ***

```
[ -43.4330097  -85.69191306   69.2215587  -113.48690065  103.94704468
 -120.801627   130.357421   -74.33185139  -86.70641841  121.6120034 ]
```

*** 中間層出力1 ***

```
[1.37177712e-19 6.08800522e-38 1.00000000e+00 5.16731906e-50
```

1. 00000000e+00 3. 43969541e-53 1. 00000000e+00 5. 22500982e-33
2. 20739950e-38 1. 00000000e+00]

*** 総入力2 ***

9. 467050448271568

*** 出力1 ***

9. 467050448271568

出力合計: 9. 467050448271568

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2. 45408962 4. 16756085 -2. 17800307 3. 76379495 -2. 71696328 4. 75994238
-3. 28474081 3. 30779542 3. 04937743 -3. 04923045]
[0. 82164453 1. 39532539 -0. 72920903 1. 26014205 -0. 90965627 1. 59365843
-1. 09975173 1. 10747056 1. 0209506 -1. 02090139]]

*** 偏微分_重み2 ***

[-2. 88763048e-19 -1. 28154269e-37 -2. 10502889e+00 -1. 08773559e-49
-2. 10502889e+00 -7. 24065823e-53 -2. 10502889e+00 -1. 09987966e-32
-4. 64663974e-38 -2. 10502889e+00]

*** 偏微分_バイアス1 ***

[0. 77821433 1. 32157177 -0. 69066475 1. 1935339 -0. 86157397 1. 50942138
-1. 04162144 1. 04893226 0. 96698555 -0. 96693894]

*** 偏微分_バイアス2 ***

-2. 105028894863441

順伝播開始

*** 総入力1 ***

[-83. 44795854 -172. 1456206 133. 79544823 -223. 00849158 201. 97124964
-234. 02571214 254. 69234028 -146. 76450272 -167. 99378566 237. 21676512]

*** 中間層出力1 ***

[5. 74132429e-037 1. 73024216e-075 1. 00000000e+000 1. 40812979e-097
1. 00000000e+000 2. 31166339e-102 1. 00000000e+000 1. 82383829e-064
1. 09957763e-073 1. 00000000e+000]

*** 総入力2 ***

10. 203810561473773

*** 出力1 ***

10.203810561473773

出力合計: 10.203810561473773

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 23.17961842  39.3638722 -22.38837948  35.55018125 -27.4790216
    44.9590949 -32.84185206  31.24312776  28.8022917 -30.61738546]
  [ 18.1796235   30.87282815 -17.55905996  27.88177522 -21.55161736
    35.26112481 -25.7576503   24.50378126  22.58944947 -24.01301566]]
```

*** 偏微分_重み2 ***

```
[-7.21980079e-036 -2.17580528e-074 -1.25751489e+001 -1.77074418e-096
 -1.25751489e+001 -2.90695113e-101 -1.25751489e+001 -2.29350381e-063
 -1.38273524e-072 -1.25751489e+001]
```

*** 偏微分_バイアス1 ***

```
[ 4.64894379  7.89488533 -4.49025157  7.13000497 -5.51123943  9.01707274
 -6.58681785  6.26617498  5.77663674 -6.14067503]
```

*** 偏微分_バイアス2 ***

-12.575148901538654

順伝播開始

*** 総入力1 ***

```
[-17.56835859 -29.43795664  25.33029714 -39.6808205   36.57144341
 -45.02027286  45.21845181 -26.76724919 -32.05735924  42.14462197]
```

*** 中間層出力1 ***

```
[2.34508613e-08  1.64156420e-13  1.00000000e+00  5.84572820e-18
 1.00000000e+00  2.80507141e-20  1.00000000e+00  2.37209119e-12
 1.19581991e-14  1.00000000e+00]
```

*** 総入力2 ***

14.605112642301755

*** 出力1 ***

14.605112642301755

出力合計: 14.605112642301755

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-6.83227929 -11.60264868  9.79755237 -10.47854899  11.29803819
 -13.25186151  12.87875254 -9.20902885 -8.48958329  12.22308268]
 [ 3.0249689   5.13703405 -4.33783367  4.63934266 -5.00216877
  5.86721754 -5.70202479  4.07726685  3.75873472 -5.41172914]]
```

*** 偏微分_重み2 ***

```
[2.59773880e-07 1.81842149e-12 1.10773706e+01 6.47552975e-17
 1.10773706e+01 3.10728155e-19 1.10773706e+01 2.62765331e-11
 1.32465403e-13 1.10773706e+01]
```

*** 偏微分_バイアス1 ***

```
[-4.09522571 -6.95455545  5.87259195 -6.28077709  6.77197382 -7.94308337
 7.71944417 -5.51983462 -5.08860342  7.32643974]
```

*** 偏微分_バイアス2 ***

11.07737055969037

順伝播開始

*** 総入力1 ***

```
[-59.57008542 -110.74952878  90.13128761 -145.1456176  133.97145342
 -159.5478628  164.58454551 -96.11445304 -112.12178575  155.35526589]
```

*** 中間層出力1 ***

```
[1.34598623e-26 7.98161507e-49 1.00000000e+00 9.20575061e-64
 1.00000000e+00 5.11968907e-70 1.00000000e+00 1.81143775e-42
 2.02361154e-49 1.00000000e+00]
```

*** 総入力2 ***

10.728032981128411

*** 出力1 ***

10.728032981128411

出力合計: 10.728032981128411

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 5.24211349e+00  8.90221224e+00 -5.35546782e+00  8.03973900e+00
 -6.50672592e+00  1.01675822e+01 -7.71953991e+00  7.06569092e+00
```

```
6. 51369135e+00 -7. 21647269e+00]
[ 5. 54492395e-03  9. 41644816e-03 -5. 66482620e-03  8. 50415419e-03
-6. 88258667e-03  1. 07549121e-02 -8. 16545881e-03  7. 47384026e-03
6. 88995445e-03 -7. 63333193e-03]]
```

*** 偏微分_重み2 ***

```
[-4. 14883955e-26 -2. 46023619e-48 -3. 08237890e+00 -2. 83756115e-63
-3. 08237890e+00 -1. 57808216e-69 -3. 08237890e+00 -5. 58353749e-42
-6. 23753752e-49 -3. 08237890e+00]
```

*** 偏微分_バイアス1 ***

```
[ 1. 13953374  1. 93516818 -1. 16417477  1. 74768323 -1. 41443594  2. 21023504
-1. 67807817  1. 53594408  1. 41595009 -1. 56872112]
```

*** 偏微分_バイアス2 ***

```
-3. 0823789040665677
```

順伝播開始

*** 総入力1 ***

```
[ 99. 11371706 201. 60113694 -152. 97699326 251. 18230925 -228. 78590445
268. 7835389 -282. 77023045 168. 1959195 187. 97782749 -266. 85149474]
```

*** 中間層出力1 ***

```
[1. 00000000e+000 1. 00000000e+000 3. 65540893e-067 1. 00000000e+000
4. 36057900e-100 1. 00000000e+000 1. 56476553e-123 1. 00000000e+000
1. 00000000e+000 1. 28194192e-116]
```

*** 総入力2 ***

```
-11. 62546739788305
```

*** 出力1 ***

```
-11. 62546739788305
```

出力合計: -11. 62546739788305

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 17. 62717322 29. 9346509 -32. 3865105 27. 03449142 -38. 64557203
34. 18959405 -45. 23929538 23. 75914944 21. 90299122 -42. 50426255]
[ 15. 64006642 26. 56012523 -28. 73558732 23. 9869 -34. 28906642
30. 33540971 -40. 139481 21. 08078651 19. 43387253 -37. 71276772]]
```

*** 偏微分_重み2 ***

[1. 21666336e+001 1. 21666336e+001 4. 44740211e-066 1. 21666336e+001
5. 30535670e-099 1. 21666336e+001 1. 90379288e-122 1. 21666336e+001
1. 21666336e+001 1. 55969176e-115]

*** 偏微分_バイアス1 ***

[-3. 53737791 -6. 00721236 6. 49924553 -5. 42521546 7. 75529866 -6. 86108392
9. 07851089 -4. 76792787 -4. 39543858 8. 52965121]

*** 偏微分_バイアス2 ***

12. 166633605669627

順伝播開始

*** 総入力1 ***

[-79. 70700137 -156. 93306417 122. 12835154 -192. 32895218 177. 41838581
-207. 98545628 221. 78495805 -132. 5197197 -146. 87374801 206. 50700767]

*** 中間層出力1 ***

[2. 41929671e-35 6. 99578098e-69 1. 00000000e+00 2. 96891221e-84
1. 00000000e+00 4. 71046760e-91 1. 00000000e+00 2. 80167009e-58
1. 63509015e-64 1. 00000000e+00]

*** 総入力2 ***

10. 955201245154838

*** 出力1 ***

10. 955201245154838

出力合計: 10. 955201245154838

誤差逆伝播開始

*** 偏微分_重み1 ***

[[13. 34955669 19. 26404501 -9. 62613634 17. 87034276 -11. 48649668
21. 30880286 -13. 44632745 16. 2963426 15. 40434617 -12. 63340261]
[9. 12739477 13. 17126461 -6. 5816078 12. 21835876 -7. 85357837
14. 56931194 -9. 19355913 11. 14217914 10. 53230095 -8. 63774397]]

*** 偏微分_重み2 ***

[-1. 43404695e-34 -4. 14677471e-68 -5. 92753649e+00 -1. 75983355e-83
-5. 92753649e+00 -2. 79214686e-90 -5. 92753649e+00 -1. 66070017e-57
-9. 69205652e-64 -5. 92753649e+00]

*** 偏微分_バイアス1 ***

[3.45343632 4.9834728 -2.49021369 4.62293184 -2.97147581 5.51243725
-3.47847023 4.21574908 3.98499588 -3.2681723]

*** 偏微分_バイアス2 ***

-5.927536494254165

順伝播開始

*** 総入力1 ***

[99.98251812 197.23404516 -152.36851518 236.90132379 -221.28739197
257.10947227 -271.72582213 163.71046546 178.85190332 -256.38540374]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 6.71729837e-067 1.00000000e+000
7.87239275e-097 1.00000000e+000 9.79433288e-119 1.00000000e+000
1.00000000e+000 4.50022178e-112]

*** 総入力2 ***

-17.172190310063375

*** 出力1 ***

-17.172190310063375

出力合計: -17.172190310063375

誤差逆伝播開始

*** 偏微分_重み1 ***

[[5.88473751 8.49195601 -8.19303494 7.87758565 -9.51895577
9.39332401 -10.91577143 7.18373656 6.79052764 -10.33638154]
[5.59969934 8.08063238 -7.79619011 7.49602019 -9.05788751
8.93834095 -10.38704581 6.83577897 6.46161584 -9.83571974]]

*** 偏微分_重み2 ***

[3.10551907e+000 3.10551907e+000 2.08606982e-066 3.10551907e+000
2.44478658e-096 3.10551907e+000 3.04164876e-118 3.10551907e+000
3.10551907e+000 1.39755246e-111]

*** 偏微分_バイアス1 ***

[-1.42292261 -2.05334498 1.98106622 -1.90479095 2.30167232 -2.2712947
2.6394207 -1.73701906 -1.6419416 2.49932491]

*** 偏微分_バイアス2 ***

3. 10551907237819

順伝播開始

*** 総入力1 ***

[-38.05793691 -75.53440303 55.03920152 -89.31939423 78.70205386
-95.18304094 101.01240148 -63.79298351 -68.77316443 92.19042505]

*** 中間層出力1 ***

[2.96242939e-17 1.56973221e-33 1.00000000e+00 1.61837797e-39
1.00000000e+00 4.59759328e-42 1.00000000e+00 1.97269197e-28
1.35579548e-30 1.00000000e+00]

*** 総入力2 ***

12.812452683077323

*** 出力1 ***

12.812452683077323

出力合計: 12.812452683077323

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-4.25591571 -5.9806071 3.35211185 -5.57419725 3.89460129 -6.57686768
4.46609676 -5.11521173 -4.85510156 4.22904422]
[-6.42744311 -9.03213656 5.06248472 -8.41836121 5.88177256 -9.9326316
6.74486639 -7.7251841 -7.332356 6.38686078]]

*** 偏微分_重み2 ***

[1.63068426e-16 8.64067046e-33 5.50455066e+00 8.90844355e-39
5.50455066e+00 2.53076851e-41 5.50455066e+00 1.08587829e-27
7.46304493e-30 5.50455066e+00]

*** 偏微分_バイアス1 ***

[-3.50615447 -4.92700837 2.76157301 -4.59219542 3.20849252 -5.4182262
3.6793081 -4.21406901 -3.99978223 3.48401691]

*** 偏微分_バイアス2 ***

5.504550663115045

順伝播開始

*** 総入力1 ***

[104.95613759 202.59938822 -161.34484302 245.63189996 -233.60669563

269.05016234 -284.53964665 169.02393311 186.34456745 -269.69289271]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 8.48838355e-071 1.00000000e+000
3.51480431e-102 1.00000000e+000 2.66686835e-124 1.00000000e+000
1.00000000e+000 7.47936773e-118]

*** 総入力2 ***

-19.079213201946743

*** 出力1 ***

-19.079213201946743

出力合計: -19.079213201946743

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.77044192 6.70364282 -5.15761384 6.24809936 -6.14075788 7.37198934
-7.17646904 5.733624 5.44206736 -6.7468629]
[2.88220054 4.05019981 -3.11612166 3.77497004 -3.71011659 4.4540007
-4.33587145 3.46413487 3.28798249 -4.07631247]]

*** 偏微分_重み2 ***

[1.90944666e+000 1.90944666e+000 1.62081156e-070 1.90944666e+000
6.71133134e-102 1.90944666e+000 5.09224286e-124 1.90944666e+000
1.90944666e+000 1.42814537e-117]

*** 偏微分_バイアス1 ***

[-0.95650351 -1.34412241 1.03413391 -1.25278309 1.23126045 -1.47813008
1.43892703 -1.14962756 -1.09116862 1.35278831]

*** 偏微分_バイアス2 ***

1.9094466571981172

順伝播開始

*** 総入力1 ***

[-60.95055534 -110.64249332 89.94682446 -137.67973184 129.24714889
-153.11811633 158.44018939 -95.15468199 -107.39620453 149.00385556]

*** 中間層出力1 ***

[3.38462181e-27 8.8832781e-49 1.00000000e+00 1.60861529e-60
1.00000000e+00 3.17429289e-67 1.00000000e+00 4.72984254e-42]

2. 28255366e-47 1. 00000000e+00]

*** 総入力2 ***

10. 752198684983188

*** 出力1 ***

10. 752198684983188

出力合計: 10. 752198684983188

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1. 98977519 2. 75592974 -1. 2642354 2. 57539149 -1. 50522388 3. 02080481
-1. 75909762 2. 37149771 2. 25594974 -1. 65379247]
[0. 06526939 0. 0904011 -0. 04146995 0. 08447901 -0. 04937495 0. 09908964
-0. 05770262 0. 07779081 0. 07400056 -0. 05424836]]

*** 偏微分_重み2 ***

[-2. 66860864e-27 -7. 00406921e-49 -7. 88451058e-01 -1. 26831443e-60
-7. 88451058e-01 -2. 50277459e-67 -7. 88451058e-01 -3. 72924936e-42
-1. 79968185e-47 -7. 88451058e-01]

*** 偏微分_バイアス1 ***

[0. 52855467 0. 73207242 -0. 33582564 0. 68411508 -0. 39984071 0. 80243261
-0. 46727855 0. 62995368 0. 59926005 -0. 43930578]

*** 偏微分_バイアス2 ***

-0. 7884510580148465

順伝播開始

*** 総入力1 ***

[39. 11701861 65. 3918214 -60. 13166185 84. 57363624 -87. 16521512
98. 66689201 -99. 41963104 55. 88623818 65. 51224896 -98. 3899245]

*** 中間層出力1 ***

[1. 00000000e+00 1. 00000000e+00 7. 67628466e-27 1. 00000000e+00
1. 39517299e-38 1. 00000000e+00 6. 64665053e-44 1. 00000000e+00
1. 00000000e+00 1. 86122430e-43]

*** 総入力2 ***

-19. 95965048991278

*** 出力1 ***

-19.95965048991278

出力合計: -19.95965048991278

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-22.34076219 -30.94297848 23.53466378 -28.91593445 27.90938641
 -33.91693808 32.51801834 -26.62665953 -25.32931209 30.6063883 ]
 [ 9.2312309 12.78567745 -9.72455254 11.94810031 -11.53219341
 14.01452127 -13.43648588 11.00216905 10.46610347 -12.64659796]]
```

*** 偏微分_重み2 ***

```
[-1.27166176e+01 -1.27166176e+01 -9.76163766e-26 -1.27166176e+01
 -1.77418813e-37 -1.27166176e+01 -8.45229131e-43 -1.27166176e+01
 -1.27166176e+01 -2.36684777e-42]
```

*** 偏微分_バイアス1 ***

```
[ 6.70434961 9.28583116 -7.06263343 8.67752551 -8.37546554 10.17830137
 -9.75849264 7.99052569 7.6011983 -9.18482215]
```

*** 偏微分_バイアス2 ***

-12.716617591916537

順伝播開始

*** 総入力1 ***

```
[-108.35712096 -215.811892 162.71833775 -257.36057728 234.52578845
 -276.28864168 294.87139628 -180.63096291 -196.00673054 273.35348933]
```

*** 中間層出力1 ***

```
[8.73172990e-048 1.87968976e-094 1.00000000e+000 1.69715469e-112
 1.00000000e+000 1.02180379e-120 1.00000000e+000 3.57247788e-079
 7.50513503e-086 1.00000000e+000]
```

*** 総入力2 ***

11.918319786722542

*** 出力1 ***

11.918319786722542

出力合計: 11.918319786722542

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 17.18371986  27.0881941 -16.75979863  24.75428331 -19.87518073
    30.51237051 -23.15713724  22.11844346  20.62469537 -21.79580339]
 [ 21.57218356  34.0061116  -21.03999922  31.0761551  -24.95100307
    38.30477119 -29.07112192  27.76716137  25.89193248 -27.36212387]]
```

*** 偏微分_重み2 ***

```
[-8.51866066e-047 -1.83382209e-093 -9.75598279e+000 -1.65574120e-111
 -9.75598279e+000 -9.96870016e-120 -9.75598279e+000 -3.48530327e-078
 -7.32199681e-085 -9.75598279e+000]
```

*** 偏微分_バイアス1 ***

```
[ 4.36902301  6.88727146 -4.2612395  6.29386619 -5.05333669  7.75788071
 -5.88778601  5.62369436  5.2439035  -5.54166195]
```

*** 偏微分_バイアス2 ***

-9.755982786594888

順伝播開始

*** 総入力1 ***

```
[ 51.6971248  97.80745533 -79.07230195 118.67662702 -114.39901931
 132.13941876 -136.81190375  81.25003355  89.93741475 -131.28135779]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 4.56389443e-35 1.00000000e+00
 2.07556902e-50 1.00000000e+00 3.83129102e-60 1.00000000e+00
 1.00000000e+00 9.66564270e-58]
```

*** 総入力2 ***

-13.045589074812032

*** 出力1 ***

-13.045589074812032

出力合計: -13.045589074812032

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.93512326 -4.62689041  6.05130573 -4.2282389  6.9116668  -5.21176842
  7.81802998 -3.77801538 -3.5228707  7.44207653]
 [-1.0043676  -1.58327212  2.07069172 -1.44685786  2.36509802 -1.78341108]
```

2. 67524575 -1. 29279622 -1. 20548845 2. 54659852]]

*** 偏微分_重み2 ***

[-3. 08157845e+00 -3. 08157845e+00 -1. 40639987e-34 -3. 08157845e+00
-6. 39602876e-50 -3. 08157845e+00 -1. 18064238e-59 -3. 08157845e+00
-3. 08157845e+00 -2. 97854362e-57]

*** 偏微分_バイアス1 ***

[1. 08531648 1. 71087889 -2. 23758298 1. 56347007 -2. 55571751 1. 92714843
-2. 89086217 1. 39699154 1. 30264704 -2. 75184639]

*** 偏微分_バイアス2 ***

-3. 081578446891509

順伝播開始

*** 総入力1 ***

[14. 10532884 24. 63669508 -23. 74432943 33. 07918552 -35. 59111551
38. 98282043 -39. 17876264 20. 42165783 24. 63934629 -40. 02025033]

*** 中間層出力1 ***

[9. 99999252e-01 1. 00000000e+00 4. 87493412e-11 1. 00000000e+00
3. 49120162e-16 1. 00000000e+00 9. 65783048e-18 9. 99999999e-01
1. 00000000e+00 4. 16318888e-18]

*** 総入力2 ***

-11. 535614453592238

*** 出力1 ***

-11. 535614453592238

出力合計: -11. 535614453592238

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3. 72677778 -6. 16892548 8. 7353571 -5. 59345244 9. 97733057 -7. 01322561
11. 28571034 -4. 94353267 -4. 57521879 10. 74300306]
[1. 46089565 2. 41821673 -3. 42425707 2. 19263149 -3. 91111026 2. 7491821
-4. 42399469 1. 93786316 1. 79348424 -4. 21125362]]

*** 偏微分_重み2 ***

[-8. 33851154e+00 -8. 33851779e+00 -4. 06497249e-10 -8. 33851779e+00
-2. 91114468e-15 -8. 33851779e+00 -8. 05319912e-17 -8. 33851777e+00

-8.33851779e+00 -3.47148246e-17]

*** 偏微分_バイアス1 ***

[2.58313805 4.27586163 -6.05473001 3.87698454 -6.91557794 4.86107061
-7.822454 3.42650625 3.17121718 -7.44628781]

*** 偏微分_バイアス2 ***

-8.338517785381649

順伝播開始

*** 総入力1 ***

[-20.33399907 -48.41259653 25.7826476 -45.17241876 33.07329465
-42.19586983 49.74453277 -38.60822754 -34.09758201 40.55121136]

*** 中間層出力1 ***

[1.47589822e-09 9.43357856e-22 1.00000000e+00 2.40917194e-20
1.00000000e+00 4.72679287e-19 1.00000000e+00 1.70867642e-17
1.55456286e-15 1.00000000e+00]

*** 総入力2 ***

16.132320496835906

*** 出力1 ***

16.132320496835906

出力合計: 16.132320496835906

誤差逆伝播開始

*** 偏微分_重み1 ***

[[6.45704987 13.17825864 -14.86948091 11.59445844 -16.98359034
15.50191699 -19.21073776 9.8057681 8.7921053 -18.28693174]
[-13.62094281 -27.7991205 31.36670049 -24.45814399 35.82634758
-32.70080443 40.52444474 -20.68495819 -18.54666852 38.57570511]]

*** 偏微分_重み2 ***

[2.04246588e-08 1.30549397e-20 1.38387989e+01 3.33400461e-19
1.38387989e+01 6.54131362e-18 1.38387989e+01 2.36460294e-16
2.15132828e-14 1.38387989e+01]

*** 偏微分_バイアス1 ***

[-3.43172533 -7.00384306 7.90267619 -6.1621015 9.02626096 -8.2387967
10.20992197 -5.21146707 -4.67273616 9.71894721]

*** 偏微分_バイアス2 ***

13.838798934190494

順伝播開始

*** 総入力1 ***

[8.60317478 16.41673614 -15.16429085 20.5344338 -22.59956038
23.88962691 -24.57406237 12.86283541 14.66397052 -25.37654751]

*** 中間層出力1 ***

[9.99816511e-01 9.99999926e-01 2.59556584e-07 9.99999999e-01
1.53156570e-10 1.00000000e+00 2.12627931e-11 9.99997407e-01
9.99999572e-01 9.53027528e-12]

*** 総入力2 ***

-8.41827114173112

*** 出力1 ***

-8.41827114173112

出力合計: -8.41827114173112

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.80192524 -1.63651865 1.98976502 -1.43983719 2.41423859 -1.92507797
2.86140807 -1.21771332 -1.09183217 2.67592512]
[-0.00971084 -0.01981728 0.02409488 -0.01743558 0.02923501 -0.02331156
0.03464996 -0.01474579 -0.01322144 0.03240388]]

*** 偏微分_重み2 ***

[-6.50628456e+00 -6.50747813e+00 -1.68905892e-06 -6.50747860e+00
-9.96663105e-10 -6.50747861e+00 -1.38367171e-10 -6.50746174e+00
-6.50747582e+00 -6.20180625e-11]

*** 偏微分_バイアス1 ***

[1.26921021 2.59012447 -3.14920889 2.27883595 -3.82102486 3.04682844
-4.52876174 1.92727964 1.72804704 -4.23519717]

*** 偏微分_バイアス2 ***

-6.50747860796603

順伝播開始

*** 総入力1 ***

[-69.0867147 -125.90702992 102.00022994 -157.23109085 146.9528121
-176.84362712 178.90326894 -107.855942 -122.28618447 169.0730756]

*** 中間層出力1 ***

[9.90879929e-31 2.08579525e-55 1.00000000e+00 5.19283903e-69
1.00000000e+00 1.57684347e-77 1.00000000e+00 1.44131713e-47
7.79443920e-54 1.00000000e+00]

*** 総入力2 ***

11.74426449223335

*** 出力1 ***

11.74426449223335

出力合計: 11.74426449223335

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.88361316 2.58406944 -2.50744757 2.18333775 -3.04235738 3.17199922
-3.60586812 1.73076695 1.47428933 -3.37212759]
[-0.05927464 -0.17334483 0.16820488 -0.1464629 0.20408775 -0.2127844
0.24188924 -0.1161035 -0.09889844 0.22620944]]

*** 偏微分_重み2 ***

[-1.41979263e-30 -2.98865347e-55 -1.43286042e+00 -7.44061353e-69
-1.43286042e+00 -2.25939660e-77 -1.43286042e+00 -2.06520627e-47
-1.11683434e-53 -1.43286042e+00]

*** 偏微分_バイアス1 ***

[0.1921732 0.56199806 -0.5453339 0.47484466 -0.66166912 0.68986436
-0.78422463 0.376417 0.32063679 -0.73338941]

*** 偏微分_バイアス2 ***

-1.4328604229947608

順伝播開始

*** 総入力1 ***

[-2.33545565 -11.10010863 -3.24815827 -5.71241538 -5.49478089
1.23508871 1.83031537 -8.76052471 -4.35163562 -3.67843902]

*** 中間層出力1 ***

[8.82287997e-02 1.51104539e-05 3.73931236e-02 3.29379590e-03
4.09134859e-03 7.74707976e-01 8.61799292e-01 1.56777728e-04
1.27217897e-02 2.46399152e-02]

*** 総入力2 ***

3.256098324659055

*** 出力1 ***

3.256098324659055

出力合計: 3.256098324659055

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.86531367 2.53548164 -3.28931699 2.14227903 -3.95782087 2.68839847
-3.89233279 1.69822364 1.44651 -4.36860612]
[-1.26910869 -3.71865357 4.82426304 -3.1419646 5.80472146 -3.9429284
5.70867364 -2.49069262 -2.12151785 6.40719792]]

*** 偏微分_重み2 ***

[2.98526345e-01 5.11269402e-05 1.26521414e-01 1.11447153e-02
1.38432728e-02 2.62126133e+00 2.91593894e+00 5.30464909e-04
4.30447814e-02 8.33703265e-02]

*** 偏微分_バイアス1 ***

[-0.4529146 -1.3270987 1.72166433 -1.12129217 2.07156653 -1.40713703
2.03728936 -0.88886874 -0.75711908 2.286576]

*** 偏微分_バイアス2 ***

3.3835476191074294

順伝播開始

*** 総入力1 ***

[16.92010432 20.64373934 -36.73800966 37.76096446 -53.31472429
54.73828562 -51.39865458 18.75629693 29.66328962 -57.14138614]

*** 中間層出力1 ***

[9.99999955e-01 9.99999999e-01 1.10888148e-16 1.00000000e+00
7.00986147e-24 1.00000000e+00 4.76264202e-23 9.99999993e-01
1.00000000e+00 1.52690252e-25]

*** 総入力2 ***

-5.5746459440543585

*** 出力1 ***

-5.5746459440543585

出力合計: -5.5746459440543585

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.79213724 -2.22970733 3.6633704 -1.88503375 4.42387257 -2.9977801
4.8429124 -1.49347045 -1.27639446 4.87513743]
[0.83136473 2.34012484 -3.84478445 1.97838265 -4.64294751 3.1462334
-5.08273865 1.56742871 1.33960289 -5.11655949]]

*** 偏微分_重み2 ***

[-1.66632905e+00 -1.66632912e+00 -1.84776150e-16 -1.66632912e+00
-1.16807363e-23 -1.66632912e+00 -7.93612910e-23 -1.66632911e+00
-1.66632912e+00 -2.54432214e-25]

*** 偏微分_バイアス1 ***

[0.18260604 0.51399935 -0.844492 0.43454408 -1.01980543 0.69105797
-1.11640384 0.34427964 0.29423858 -1.12383246]

*** 偏微分_バイアス2 ***

-1.6663291244453866

順伝播開始

*** 総入力1 ***

[-36.05949114 -74.69271356 46.48349692 -83.19805944 66.47021468
-84.75451175 89.84597102 -62.29207727 -63.7515788 79.370028]

*** 中間層出力1 ***

[2.18555620e-16 3.64222411e-33 1.00000000e+00 7.37126258e-37
1.00000000e+00 1.55447317e-37 1.00000000e+00 8.84900779e-28
2.05608523e-28 1.00000000e+00]

*** 総入力2 ***

11.905783168770892

*** 出力1 ***

11.905783168770892

出力合計: 11.905783168770892

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.08055355  0.26543233 -0.29139264  0.22110556 -0.35188468  0.36421036
 -0.38521604  0.17074855  0.14283148 -0.38777929]
 [-2.06435    -6.80224759  7.46753387 -5.66628341  9.01776635 -9.33363729
  9.87195083 -4.37578159 -3.66034949  9.93763937]]
```

*** 偏微分_重み2 ***

```
[1.21400591e-15 2.02313790e-32 5.55467716e+00 4.09449839e-36
 5.55467716e+00 8.63459661e-37 5.55467716e+00 4.91533814e-27
 1.14208897e-27 5.55467716e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.61202558 -2.01668783  2.21392775 -1.67990427  2.67353098 -2.76717842
 2.92677425 -1.29730436 -1.08519753  2.94624918]
```

*** 偏微分_バイアス2 ***

5.554677155384119

順伝播開始

*** 総入力1 ***

```
[-36.99663909 -69.17537806  52.20210163 -84.10633674  74.8715104
 -92.24317865  94.08349134 -59.26634345 -65.62527742  86.99393224]
```

*** 中間層出力1 ***

```
[8.56177472e-17 9.06807338e-31 1.00000000e+00 2.97222760e-37
 1.00000000e+00 8.69553921e-41 1.00000000e+00 1.82370285e-26
 3.15721489e-29 1.00000000e+00]
```

*** 総入力2 ***

9.961646164386451

*** 出力1 ***

9.961646164386451

出力合計: 9.961646164386451

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -0.64439247 -2.1233401  1.8839092 -1.76874579  2.36781849 -2.91352029
```

```
2. 6344545 -1. 36591214 -1. 14258806 2. 65495936]
[-0. 20891988 -0. 6884127 0. 61078629 -0. 57344891 0. 76767557 -0. 94459873
0. 8541222 -0. 44284533 -0. 37044095 0. 86077013]]
```

*** 偏微分_重み2 ***

```
[2. 66935128e-16 2. 82720278e-30 3. 11775464e+00 9. 26667637e-37
3. 11775464e+00 2. 71105577e-40 3. 11775464e+00 5. 68585801e-26
9. 84342137e-29 3. 11775464e+00]
```

*** 偏微分_バイアス1 ***

```
[-0. 34352052 -1. 13193578 1. 00429707 -0. 94290437 1. 26226527 -1. 55317458
1. 40440682 -0. 72815694 -0. 60910464 1. 41533779]
```

*** 偏微分_バイアス2 ***

```
3. 117754637505067
```

順伝播開始

*** 総入力1 ***

```
[ 56. 41225038 102. 54858527 -88. 6094015 129. 81669111 -128. 77959776
148. 94824982 -150. 33163137 86. 19096166 99. 06687493 -146. 60923722]
```

*** 中間層出力1 ***

```
[1. 00000000e+00 1. 00000000e+00 3. 29174272e-39 1. 00000000e+00
1. 17959062e-56 1. 00000000e+00 5. 14993845e-66 1. 00000000e+00
1. 00000000e+00 2. 13018478e-64]
```

*** 総入力2 ***

```
-5. 3652149389745585
```

*** 出力1 ***

```
-5. 3652149389745585
```

出力合計: -5. 3652149389745585

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 2. 20831507 7. 27662741 -9. 0478589 6. 06144259 -11. 72909343
9. 98455291 -13. 2064647 4. 68094286 3. 91561747 -13. 32007759]
[-0. 44539237 -1. 46761411 1. 82485162 -1. 22252496 2. 36562655
-2. 0137723 2. 66359575 -0. 94409366 -0. 78973611 2. 6865102 ]]
```

*** 偏微分_重み2 ***

[5.88306021e+00 5.88306021e+00 1.93655206e-38 5.88306021e+00
6.93960264e-56 5.88306021e+00 3.02973980e-65 5.88306021e+00
5.88306021e+00 1.25320053e-63]

*** 偏微分_バイアス1 ***

[-0.50978131 -1.67978235 2.08866454 -1.39926145 2.70761755 -2.30489687
3.04866321 -1.08057823 -0.90390571 3.07489032]

*** 偏微分_バイアス2 ***

5.88306020973563

順伝播開始

*** 総入力1 ***

[-35.17334304 -74.28453155 41.04548498 -81.15211139 59.40845448
-78.36910556 84.12253559 -62.04093336 -62.09209302 72.22154012]

*** 中間層出力1 ***

[5.30165186e-16 5.47819969e-33 1.00000000e+00 5.70276963e-36
1.00000000e+00 9.21997839e-35 1.00000000e+00 1.13753558e-27
1.08080322e-27 1.00000000e+00]

*** 総入力2 ***

8.458617826578184

*** 出力1 ***

8.458617826578184

出力合計: 8.458617826578184

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.40784437 0.8917399 -0.53428599 0.77572051 -0.69261583 1.15027823
-0.77985622 0.64391773 0.57084853 -0.78656519]
[-2.07389821 -4.53451833 2.7168568 -3.94455701 3.52196775 -5.84919183
3.9655872 -3.27433679 -2.90277819 3.99970244]]

*** 偏微分_重み2 ***

[1.16001320e-15 1.19864226e-32 2.18802221e+00 1.24777866e-35
2.18802221e+00 2.01735175e-34 2.18802221e+00 2.48895312e-27
2.36482146e-27 2.18802221e+00]

*** 偏微分_バイアス1 ***

```
[-0.46634538 -1.01965066 0.61092372 -0.8869895 0.79196432 -1.31527361  
0.89171844 -0.736281 -0.65273078 0.89938973]
```

*** 偏微分_バイアス2 ***

2.1880222073178555

順伝播開始

*** 総入力1 ***

```
[ 31.40066829 69.60827797 -39.03213676 74.82417895 -58.02990606  
71.0404822 -78.36896091 55.90404086 54.75524184 -69.91668355]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.11830016e-17 1.00000000e+00  
6.27960044e-26 1.00000000e+00 9.22131213e-35 1.00000000e+00  
1.00000000e+00 4.32085946e-31]
```

*** 総入力2 ***

-8.401075996257248

*** 出力1 ***

-8.401075996257248

出力合計: -8.401075996257248

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.4828086 1.055647 -0.91232998 0.91830256 -1.21537249 1.36170623  
-1.38235017 0.76227365 0.67577389 -1.39519109]  
[-1.8866186 -4.12503689 3.56501254 -3.58835095 4.74917879 -5.32099119  
5.40165927 -2.97865376 -2.64064808 5.45183636]]
```

*** 偏微分_重み2 ***

```
[-2.25760614e+00 -2.25760614e+00 -2.52468130e-17 -2.25760614e+00  
-1.41768645e-25 -2.25760614e+00 -2.08180908e-34 -2.25760614e+00  
-2.25760614e+00 -9.75479884e-31]
```

*** 偏微分_バイアス1 ***

```
[ 0.37841992 0.8274042 -0.71507393 0.71975518 -0.95259523 1.06728996  
-1.08347045 0.59746148 0.52966394 -1.09353502]
```

*** 偏微分_バイアス2 ***

-2.2576061359944752

順伝播開始

*** 総入力1 ***

[-23.84131942 -34.51660094 44.20447425 -51.84257766 62.02404021
-70.94797472 67.04686491 -31.47282123 -42.31127274 68.33453247]

*** 中間層出力1 ***

[4.42432005e-11 1.02242316e-15 1.00000000e+00 3.05530517e-23
1.00000000e+00 1.54058646e-31 1.00000000e+00 2.14549452e-14
4.21160592e-19 1.00000000e+00]

*** 総入力2 ***

7.850842483505794

*** 出力1 ***

7.850842483505794

出力合計: 7.850842483505794

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.70873826 -6.65387161 3.88616499 -5.70798157 5.17700628 -8.76169893
5.88826515 -4.63341174 -4.03768864 5.94296242]
[2.73603877 6.72093387 -3.92533241 5.7655105 -5.22918368 8.85000531
-5.9476111 4.68011043 4.07838322 -6.00285965]]

*** 偏微分_重み2 ***

[1.58185424e-10 3.65553214e-15 3.57536124e+00 1.09238197e-22
3.57536124e+00 5.50815310e-31 3.57536124e+00 7.67091795e-14
1.50580126e-18 3.57536124e+00]

*** 偏微分_バイアス1 ***

[-0.62078093 -1.52491538 0.89062024 -1.30813899 1.18645158 -2.00798125
1.34945587 -1.06187213 -0.925346 1.36199123]

*** 偏微分_バイアス2 ***

3.575361238001511

順伝播開始

*** 総入力1 ***

[58.62100336 109.77983479 -91.39542154 135.60004752 -132.627
153.04639733 -157.19614043 91.56432493 102.98087609 -151.82975678]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.02989117e-40 1.00000000e+00
2.51666697e-58 1.00000000e+00 5.37753984e-69 1.00000000e+00
1.00000000e+00 1.15126272e-66]

*** 総入力2 ***

-7.545124276291164

*** 出力1 ***

-7.545124276291164

出力合計: -7.545124276291164

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.0286291 4.98321959 -3.77607375 4.27482333 -5.33910885 6.56181428
-6.20034762 3.47005616 3.02390703 -6.26657865]
[0.12406668 0.30476321 -0.23093671 0.26143918 -0.32652864 0.40130673
-0.37920019 0.21222132 0.18493578 -0.38325074]]

*** 偏微分_重み2 ***

[4.01323766e+00 4.01323766e+00 8.14643567e-40 4.01323766e+00
1.00999827e-57 4.01323766e+00 2.15813454e-68 4.01323766e+00
4.01323766e+00 4.62029089e-66]

*** 偏微分_バイアス1 ***

[-0.54800331 -1.34614103 1.02004893 -1.15477854 1.4422791 -1.77257439
1.67492966 -0.93738293 -0.81686252 1.69282097]

*** 偏微分_バイアス2 ***

4.013237656189027

順伝播開始

*** 総入力1 ***

[-97.48323272 -185.92920655 140.69468374 -223.71524623 202.96269727
-244.57033329 252.37005824 -156.9317314 -172.20090695 235.58043122]

*** 中間層出力1 ***

[4.60860993e-043 1.78637064e-081 1.00000000e+000 6.94549243e-098
1.00000000e+000 6.08770803e-107 1.00000000e+000 7.00511094e-069
1.63717963e-075 1.00000000e+000]

*** 総入力2 ***

6. 318539414302787

*** 出力1 ***

6. 318539414302787

出力合計: 6. 318539414302787

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 12. 9639284   26. 40737698 -10. 62658185  23. 18415915 -15. 02525662
    33. 59001584 -17. 44894454  19. 5224517   17. 49246383 -17. 63533113]
  [  7. 51869963  15. 31550695  -6. 16310693  13. 4461348   -8. 71420976
    19. 48122759 -10. 11987793  11. 32245149  10. 14511784 -10. 2279767 ] ]
```

*** 偏微分_重み2 ***

```
[-5. 55046580e-042 -2. 15144898e-080 -1. 20436876e+001 -8. 36493408e-097
 -1. 20436876e+001 -7. 33184534e-106 -1. 20436876e+001 -8. 43673675e-068
 -1. 97176799e-074 -1. 20436876e+001]
```

*** 偏微分_バイアス1 ***

```
[ 2. 93696318  5. 98256111 -2. 40743999  5. 25234479 -3. 40395473  7. 60977974
 -3. 95303846  4. 42278914  3. 96289771 -3. 99526413]
```

*** 偏微分_バイアス2 ***

-12. 043687551298568

順伝播開始

*** 総入力1 ***

```
[-19. 83963889 -28. 93879672  34. 89177778 -42. 52490372  49. 00234301
 -57. 36811807  53. 84645761 -26. 48159522 -34. 92529568  54. 26985561]
```

*** 中間層出力1 ***

```
[2. 41965977e-09 2. 70420911e-13 1. 00000000e+00 3. 40148823e-19
 1. 00000000e+00 1. 21714658e-25 1. 00000000e+00 3. 15638028e-12
 6. 79417626e-16 1. 00000000e+00]
```

*** 総入力2 ***

10. 533830054891887

*** 出力1 ***

10. 533830054891887

出力合計: 10. 533830054891887

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-5.87764703 -11.97270118  8.81306864 -10.51134347  10.80736056
 -15.22919988  11.90622362 -8.85118127 -7.93081579  11.99072846]
 [ 5.85520418  11.92698534 -8.77941735  10.47120759 -10.76609439
 15.17104962 -11.86076162  8.81738445  7.90053324 -11.94494378]]
```

*** 偏微分_重み2 ***

```
[1.72408686e-08 1.92683758e-12 7.12532759e+00 2.42367179e-18
 7.12532759e+00 8.67256812e-25 7.12532759e+00 2.24902435e-11
 4.84107315e-15 7.12532759e+00]
```

*** 偏微分_バイアス1 ***

```
[-1.73757619 -3.53942325  2.6053586 -3.10741017  3.19492006 -4.5021239
 3.51977086 -2.61662563 -2.34454309  3.54475255]
```

*** 偏微分_バイアス2 ***

7.125327592625226

順伝播開始

*** 総入力1 ***

```
[-82.39387917 -154.74751314  118.34604162 -186.88318027  170.76033993
 -209.4479005  209.92096829 -130.62386785 -144.38563522  197.55323898]
```

*** 中間層出力1 ***

```
[1.64737675e-36 6.22313120e-68 1.00000000e+00 6.88122957e-82
 1.00000000e+00 1.09127088e-91 1.00000000e+00 1.86541295e-57
 1.96840906e-63 1.00000000e+00]
```

*** 総入力2 ***

8.039965399838458

*** 出力1 ***

8.039965399838458

出力合計: 8.039965399838458

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 7.39849757 15.07065668 -8.11825666 13.23117034 -10.6285748
 19.1697796 -12.01177043 11.14143852 9.98292701 -12.11814102]
 [ 1.47187072 2.99818418 -1.61506092 2.63223338 -2.11446823
 3.81367124 -2.38964372 2.21649828 1.98602187 -2.41080528]]
```

*** 偏微分_重み2 ***

```
[-1.13671563e-35 -4.29405751e-67 -6.90015584e+00 -4.74815564e-81
 -6.90015584e+00 -7.52993915e-91 -6.90015584e+00 -1.28716400e-56
 -1.35823293e-62 -6.90015584e+00]
```

*** 偏微分_バイアス1 ***

```
[ 1.68266601 3.42757181 -1.84636332 3.00921104 -2.41729369 4.35984958
 -2.73187868 2.5393607 2.27045177 -2.75607092]
```

*** 偏微分_バイアス2 ***

-6.9001558389573

順伝播開始

*** 総入力1 ***

```
[ 0.88767587 5.25364005 -1.04892439 3.27055273 -2.15812103 1.32509213
 -2.63499832 2.75354394 0.9018119 -2.81265375]
```

*** 中間層出力1 ***

```
[0.70841032 0.99479874 0.2594317 0.96340466 0.10357478 0.79002766
 0.06691967 0.94011319 0.71132171 0.05664421]
```

*** 総入力2 ***

-6.3046355857758645

*** 出力1 ***

-6.3046355857758645

出力合計: -6.3046355857758645

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.97373722 1.76817956 -2.04689925 1.57463681 -2.54974261 2.45034161
 -2.81518993 1.33968853 1.31257853 -2.83619682]
 [-1.64412714 -2.98552005 3.4561302 -2.65872872 4.30516667 -4.13733096
 4.75336681 -2.26202534 -2.2162509 4.78883632]]
```

*** 偏微分_重み2 ***

[-4.26604966 -5.99068182 -1.5622987 -5.80162656 -0.62372771 -4.75754956
-0.40299052 -5.66136519 -4.28358203 -0.34111164]

*** 偏微分_バイアス1 ***

[1.29866015 2.35819714 -2.72992183 2.10007179 -3.40055721 3.26798744
-3.75458071 1.78672445 1.75056822 -3.7825973]

*** 偏微分_バイアス2 ***

-6.022003811153051

順伝播開始

*** 総入力1 ***

[-6.86468676 -20.42426727 -0.78464042 -15.68302651 -1.46859205
-7.12349439 9.06336459 -16.65366956 -11.9300993 1.6278672]

*** 中間層出力1 ***

[1.04292061e-03 1.34850768e-09 3.13320632e-01 1.54506965e-07
1.87156710e-01 8.05296512e-04 9.99884181e-01 5.85333229e-08
6.58902026e-06 8.35877257e-01]

*** 総入力2 ***

7.444535165594305

*** 出力1 ***

7.444535165594305

出力合計: 7.444535165594305

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.51837189 5.83294727 -7.09274026 4.97978077 -8.51490109
8.16506704 -7.38907933 3.99114063 3.78166634 -7.9701144]
[-4.18265218 -9.68768342 11.78001773 -8.27069703 14.14202158
-13.56099772 12.27219415 -6.62870847 -6.28080191 13.23720953]]

*** 偏微分_重み2 ***

[7.02241884e-03 9.08006388e-09 2.10971831e+00 1.04035975e-06
1.26020408e+00 5.42239681e-03 6.73263663e+00 3.94129242e-07
4.43666177e-05 5.62830971e+00]

*** 偏微分_バイアス1 ***

[-1.13931573 -2.63883526 3.20876775 -2.25286129 3.85215573 -3.69389021
3.34283205 -1.80559881 -1.71083228 3.60569331]

*** 偏微分_バイアス2 ***

6.733416490029664

順伝播開始

*** 総入力1 ***

[-26.19045619 -57.37776527 24.09149545 -60.05749693 35.60793365
-54.5188797 56.91973844 -47.82967397 -45.7782113 45.92040122]

*** 中間層出力1 ***

[4.22308086e-12 1.20546099e-25 1.00000000e+00 8.26723889e-27
1.00000000e+00 2.10257448e-24 1.00000000e+00 1.68980474e-21
1.31454495e-20 1.00000000e+00]

*** 総入力2 ***

9.509169244960365

*** 出力1 ***

9.509169244960365

出力合計: 9.509169244960365

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.24111465 2.87253055 -2.60215974 2.45237485 -3.19964978
4.02171736 -2.95950473 1.96550271 1.8623493 -3.09036296]
[-3.76582157 -8.71590513 7.89553917 -7.44105803 9.7084586
-12.20279694 8.97980439 -5.96377824 -5.65078755 9.37685778]]

*** 偏微分_重み2 ***

[2.15121417e-11 6.14055198e-25 5.09394501e+00 4.21128603e-26
5.09394501e+00 1.07103988e-23 5.09394501e+00 8.60777242e-21
6.69621969e-20 5.09394501e+00]

*** 偏微分_バイアス1 ***

[-0.86253812 -1.99632412 1.80842437 -1.70432828 2.22366235 -2.7949751
2.05676861 -1.36596649 -1.29427791 2.14771123]

*** 偏微分_バイアス2 ***

5.093945014504914

順伝播開始

*** 総入力1 ***

[-3.7743882 1.01685659 14.42609004 -5.53107619 18.32651407
-18.26831537 13.9206169 -0.84089633 -6.72147256 17.2549699]

*** 中間層出力1 ***

[2.24361784e-02 7.34359849e-01 9.99999457e-01 3.94608992e-03
9.9999989e-01 1.16458566e-08 9.9999100e-01 3.01346040e-01
1.20331312e-03 9.9999968e-01]

*** 総入力2 ***

6.230169583596203

*** 出力1 ***

6.230169583596203

出力合計: 6.230169583596203

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.61604316 -5.30726146 4.40229681 -5.16978902 5.66185417 -8.47811305
5.15561065 -4.05078205 -3.92598505 5.43146858]
[3.81957009 7.74890011 -6.42760084 7.54818262 -8.2666254 12.37852169
-7.52748139 5.91436953 5.73215889 -7.93024948]]

*** 偏微分_重み2 ***

[1.35184722e-01 4.42473893e+00 6.02529746e+00 2.37763785e-02
6.02530066e+00 7.01697882e-08 6.02529531e+00 1.81570051e+00
7.25032341e-03 6.02530054e+00]

*** 偏微分_バイアス1 ***

[-1.02011262 -2.0695394 1.71665307 -2.01593273 2.20781101 -3.30599672
2.01040394 -1.5795817 -1.53091774 2.11797333]

*** 偏微分_バイアス2 ***

6.025300730024272

順伝播開始

*** 総入力1 ***

[-100.19464086 -196.60529139 132.82716294 -227.46552812 192.5364396
-245.26654211 246.0535108 -164.10353038 -174.12552584 226.45387794]

*** 中間層出力1 ***

[3.06210696e-044 4.12483743e-086 1.00000000e+000 1.63296289e-099
1.00000000e+000 3.03454908e-107 1.00000000e+000 5.37950473e-072
2.38915855e-076 1.00000000e+000]

*** 総入力2 ***

5.617433861344832

*** 出力1 ***

5.617433861344832

出力合計: 5.617433861344832

誤差逆伝播開始

*** 偏微分_重み1 ***

[[5.41542 14.80350933 -6.37082205 10.56625594 -8.94195743
17.30637308 -7.90856048 9.460233 8.01811859 -8.47167124]
[9.99982331 27.33536414 -11.76401735 19.51107993 -16.51173766
31.95701773 -14.60352243 17.46875746 14.80582655 -15.64333248]]

*** 偏微分_重み2 ***

[-3.67143579e-043 -4.94563905e-085 -1.19899005e+001 -1.95790627e-098
-1.19899005e+001 -3.63839417e-106 -1.19899005e+001 -6.44997267e-071
-2.86457733e-075 -1.19899005e+001]

*** 偏微分_バイアス1 ***

[2.05856865 5.6272718 -2.42174652 4.01656072 -3.39911461 6.57868773
-3.00628846 3.59612719 3.04793489 -3.22034428]

*** 偏微分_バイアス2 ***

-11.989900538518125

順伝播開始

*** 総入力1 ***

[-67.31308975 -129.42163824 93.93343155 -150.95937783 135.00953363
-170.73364483 166.37808058 -107.71117906 -116.64285686 156.01637216]

*** 中間層出力1 ***

[5.83843650e-30 6.20721334e-57 1.00000000e+00 2.74900303e-66
1.00000000e+00 7.10101082e-75 1.00000000e+00 1.66582469e-47
2.20115646e-51 1.00000000e+00]

*** 総入力2 ***
9. 813899049826176

*** 出力1 ***
9. 813899049826176

出力合計: 9. 813899049826176

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 82132402 2. 2451588 -1. 75560794 1. 60252018 -2. 14555651 2. 62475301
-1. 98882744 1. 43477637 1. 21605959 -2. 07423104]
[0. 31705449 0. 86669531 -0. 67771472 0. 61861848 -0. 82824599 1. 0132295
-0. 7677441 0. 55386459 0. 46943367 -0. 80071232]]

*** 偏微分_重み2 ***

[-9. 24365369e-30 -9. 82751641e-57 -1. 58324128e+00 -4. 35233508e-66
-1. 58324128e+00 -1. 12426135e-74 -1. 58324128e+00 -2. 63740241e-47
-3. 48496177e-51 -1. 58324128e+00]

*** 偏微分_バイアス1 ***

[0. 27182968 0. 74306947 -0. 58104516 0. 53037844 -0. 71010458 0. 86870195
-0. 6582327 0. 47486107 0. 40247343 -0. 68649833]

*** 偏微分_バイアス2 ***

-1. 58324128254052

順伝播開始

*** 総入力1 ***

[30. 40174198 48. 94067616 -60. 42051567 68. 29906426 -85. 92471754
90. 63576706 -89. 94461416 41. 02425482 52. 63799885 -94. 10299093]

*** 中間層出力1 ***

[1. 00000000e+00 1. 00000000e+00 5. 75047143e-27 1. 00000000e+00
4. 82357808e-38 1. 00000000e+00 8. 66064809e-40 1. 00000000e+00
1. 00000000e+00 1. 35391160e-41]

*** 総入力2 ***
-6. 85842085783845

*** 出力1 ***

-6.85842085783845

出力合計: -6.85842085783845

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.61843308 -1.69053921 2.26420151 -1.20665105 2.73893053 -1.97636261
 2.54812629 -1.08034484 -0.91565747 2.65209788]
 [ 0.5331791 1.45749023 -1.95207041 1.04030838 -2.36135574 1.70391149
 -2.19685479 0.93141409 0.78942967 -2.28649339]]
```

*** 偏微分_重み2 ***

```
[-9.96797673e-01 -9.96797673e-01 -5.73205654e-27 -9.96797673e-01
 -4.80813141e-38 -9.96797673e-01 -8.63291386e-40 -9.96797673e-01
 -9.96797673e-01 -1.34957594e-41]
```

*** 偏微分_バイアス1 ***

```
[ 0.1345943 0.36792491 -0.4927754 0.26261265 -0.59609429 0.43013083
 -0.55456811 0.23512367 0.1992815 -0.57719624]
```

*** 偏微分_バイアス2 ***

-0.9967976727997137

順伝播開始

*** 総入力1 ***

```
[-90.92010724 -180.36302092 121.4359146 -204.78351081 175.38169052
 -226.59840852 220.33131112 -148.65863275 -157.04690289 204.22615484]
```

*** 中間層出力1 ***

```
[3.26511989e-40 4.67019782e-79 1.00000000e+00 1.15784725e-89
 1.00000000e+00 3.88652596e-99 1.00000000e+00 2.74394946e-65
 6.24304803e-69 1.00000000e+00]
```

*** 総入力2 ***

10.43780933581134

*** 出力1 ***

10.43780933581134

出力合計: 10.43780933581134

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.94023503  5.68418335 -4.890428   3.9943765  -5.91579085  6.68231963
 -5.50367453  3.5532971   2.97818521 -5.7282418 ]
 [ 2.74491277  8.04159663 -6.91864546  5.65097263 -8.36925919  9.45369206
 -7.78622501  5.02696346  4.21333421 -8.10392754]]
```

*** 偏微分_重み2 ***

```
[-1.57027832e-39 -2.24601566e-78 -4.80925166e+00 -5.56837881e-89
 -4.80925166e+00 -1.86912814e-98 -4.80925166e+00 -1.31963435e-64
 -3.00243891e-68 -4.80925166e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0.7418171   2.17325446 -1.8697751   1.52718447 -2.2618058   2.55487553
 -2.10423987  1.35854498  1.13866037 -2.19009949]
```

*** 偏微分_バイアス2 ***

-4.809251660862795

順伝播開始

*** 総入力1 ***

```
[ 43.970593    80.09852668 -73.04284731  99.57662126 -105.06529352
 120.63582746 -118.4634912   65.8658934   75.81494923 -118.09725373]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.89624511e-32 1.00000000e+00
 2.34813351e-46 1.00000000e+00 3.56417864e-52 1.00000000e+00
 1.00000000e+00 5.14060669e-52]
```

*** 総入力2 ***

-6.033342381906239

*** 出力1 ***

-6.033342381906239

出力合計: -6.033342381906239

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.92043962  2.6965535  -4.38959829  1.89491599 -5.17606222  3.1700653
 -4.85996474  1.68566972  1.41283897 -5.03221016]
 [-0.4000381  -1.17196621  1.90779114 -0.82356145  2.24960121 -1.37776217
  2.11222008 -0.7326196  -0.6140429   2.18708076]]
```


*** 偏微分_重み2 ***

[2.01003523e+00 2.01003523e+00 3.81151947e-32 2.01003523e+00
4.71983108e-46 2.01003523e+00 7.16412464e-52 2.01003523e+00
2.01003523e+00 1.03328006e-51]

*** 偏微分_バイアス1 ***

[-0.24383322 -0.7143427 1.16284639 -0.50198129 1.37118817 -0.83978048
1.28745094 -0.44654996 -0.3742745 1.33308039]

*** 偏微分_バイアス2 ***

2.0100352333030678

順伝播開始

*** 総入力1 ***

[-51.60863004 -105.9674053 64.41778199 -116.02537372 92.88941543
-125.31282906 120.87501178 -86.81533121 -88.99559744 109.31562294]

*** 中間層出力1 ***

[3.86061734e-23 9.52665894e-47 1.00000000e+00 4.08150595e-51
1.00000000e+00 3.77859048e-55 1.00000000e+00 1.97961489e-38
2.23719127e-39 1.00000000e+00]

*** 総入力2 ***

11.980344950782104

*** 出力1 ***

11.980344950782104

出力合計: 11.980344950782104

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.34474815 -0.88645312 0.82804993 -0.64195809 0.97640779 -1.03087162
0.91677944 -0.57813912 -0.49492724 0.94927166]
[-2.37517149 -6.10729371 5.70491997 -4.42282449 6.72704398 -7.10227715
6.31622942 -3.98313835 -3.40984308 6.54008735]]

*** 偏微分_重み2 ***

[1.42008730e-22 3.50428083e-46 3.67839434e+00 1.50133884e-50
3.67839434e+00 1.38991458e-54 3.67839434e+00 7.28180420e-38
8.22927171e-39 3.67839434e+00]

*** 偏微分_バイアス1 ***

[-0.69677449 -1.79162073 1.67358135 -1.29746896 1.97342915 -2.08350663
1.8529136 -1.16848371 -1.00030321 1.91858401]

*** 偏微分_バイアス2 ***

3.6783943370773518

順伝播開始

*** 総入力1 ***

[-12.82209928 -31.8857458 5.22879293 -28.99805736 8.45716015
-23.38756109 21.3260075 -26.00198938 -22.18879973 13.40575469]

*** 中間層出力1 ***

[2.70042341e-06 1.41969989e-14 9.94668585e-01 2.54861188e-13
9.99787671e-01 6.96484207e-11 9.99999999e-01 5.09893521e-12
2.30954654e-10 9.9998494e-01]

*** 総入力2 ***

10.681412013137628

*** 出力1 ***

10.681412013137628

出力合計: 10.681412013137628

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.97699469 7.65476555 -6.37044979 5.54348393 -7.63666949
8.90185883 -7.12101315 4.9923897 4.27383233 -7.40159756]
[-5.9203624 -15.22306583 12.66894145 -11.02435082 15.18707813
-17.70316571 14.1615901 -9.9283873 -8.49938911 14.71958954]]

*** 偏微分_重み2 ***

[2.42192020e-05 1.27328175e-13 8.92085265e+00 2.28576547e-12
8.96676403e+00 6.24653586e-10 8.96866834e+00 4.57306588e-11
2.07135569e-09 8.96865483e+00]

*** 偏微分_バイアス1 ***

[-1.69887695 -4.3683332 3.63541471 -3.16349139 4.35800635 -5.08000999
4.06373754 -2.8489993 -2.43894128 4.22385821]

*** 偏微分_バイアス2 ***

8. 968668345164021

順伝播開始

*** 総入力1 ***

[-39.25085424 -80.27523874 45.56668241 -88.8634453 66.77144913
-93.06496493 90.32854626 -66.65386659 -68.27008446 80.10300362]

*** 中間層出力1 ***

[8.98608646e-18 1.37058755e-35 1.00000000e+00 2.55326600e-39
1.00000000e+00 3.82295576e-41 1.00000000e+00 1.12873903e-29
2.24222421e-30 1.00000000e+00]

*** 総入力2 ***

7.557354358309485

*** 出力1 ***

7.557354358309485

出力合計: 7.557354358309485

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.02826393 -0.07267505 0.04201373 -0.05263035 0.05408243 -0.08451507
0.04918994 -0.04739821 -0.04057616 0.05185381]
[-0.58896973 -1.51441826 0.87549097 -1.09672246 1.12698117 -1.76114311
1.02503049 -0.98769402 -0.84553468 1.08054085]]

*** 偏微分_重み2 ***

[9.16265293e-18 1.39751805e-35 1.01964887e+00 2.60343480e-39
1.01964887e+00 3.89807253e-41 1.01964887e+00 1.15091747e-29
2.28628139e-30 1.01964887e+00]

*** 偏微分_バイアス1 ***

[-0.19314594 -0.49663627 0.28710732 -0.35965768 0.36958068 -0.57754688
0.33614711 -0.32390304 -0.2772835 0.3543511]

*** 偏微分_バイアス2 ***

1.019648872793903

順伝播開始

*** 総入力1 ***

```
[ -66.37934447 -131.92842862  86.8168425  -149.81832619  125.73107628  
-164.28326588  159.98136056 -109.15633146 -115.06261256  147.17417361]
```

*** 中間層出力1 ***

```
[1.48530959e-29 5.06070991e-58 1.00000000e+00 8.60453977e-66  
1.00000000e+00 4.49452873e-72 1.00000000e+00 3.92651791e-48  
1.06891284e-50 1.00000000e+00]
```

*** 総入力2 ***

7.200477252831619

*** 出力1 ***

7.200477252831619

出力合計: 7.200477252831619

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.30930113  3.36660687 -1.84925017  2.43805391 -2.40832203  3.91508517  
-2.18168196  2.19567972  1.87965434 -2.30508351]  
[ 2.25767173  5.80515283 -3.18872391  4.2040179  -4.15275023  6.7509123  
-3.76194718  3.78608397  3.24115085 -3.97473259]]
```

*** 偏微分_重み2 ***

```
[-5.91887541e-29 -2.01666452e-57 -3.98494393e+00 -3.42886085e-65  
-3.98494393e+00 -1.79104449e-71 -3.98494393e+00 -1.56469537e-47  
-4.25955771e-50 -3.98494393e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0.75484389  1.9409306  -1.06613762  1.40559728 -1.38845613  2.25714166  
-1.25779262  1.26586267  1.08366636 -1.32893661]
```

*** 偏微分_バイアス2 ***

-3.9849439255769807

順伝播開始

*** 総入力1 ***

```
[ 47.18650553  88.98997619 -78.02099867  106.30084764 -111.26913652  
128.58963684 -125.73325407  72.06068969  80.76557818 -124.67731099]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.30590266e-34 1.00000000e+00
```

4. 74709589e-49 1. 00000000e+00 2. 48165591e-55 1. 00000000e+00
1. 00000000e+00 7. 13397888e-55]

*** 総入力2 ***

-7. 695985075823053

*** 出力1 ***

-7. 695985075823053

出力合計: -7. 695985075823053

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 26811324 0. 68939975 -0. 73776693 0. 49925453 -0. 92286701 0. 80171485
-0. 84782998 0. 44962216 0. 38490779 -0. 88868633]
[-0. 08283471 -0. 21299294 0. 22793618 -0. 15424678 0. 28512362 -0. 24769316
0. 26194062 -0. 13891265 -0. 11891887 0. 27456336]]

*** 偏微分_重み2 ***

[5. 21701801e-01 5. 21701801e-01 6. 81291770e-35 5. 21701801e-01
2. 47656848e-49 5. 21701801e-01 1. 29468436e-55 5. 21701801e-01
5. 21701801e-01 3. 72180963e-55]

*** 偏微分_バイアス1 ***

[-0. 07771899 -0. 19983888 0. 21385926 -0. 14472078 0. 26751491 -0. 23239608
0. 24576365 -0. 13033366 -0. 11157466 0. 25760683]

*** 偏微分_バイアス2 ***

0. 5217018010513286

順伝播開始

*** 総入力1 ***

[1. 36400016 3. 90988127 -3. 95513807 4. 15568786 -6. 33919287 5. 05923573
-5. 38173208 2. 05065295 1. 90571075 -6. 82375188]

*** 中間層出力1 ***

[0. 79640906 0. 98035094 0. 01879597 0. 98456691 0. 00176261 0. 99368966
0. 00457879 0. 88601358 0. 87053651 0. 00108645]

*** 総入力2 ***

-7. 374297879184758

*** 出力1 ***

-7.374297879184758

出力合計: -7.374297879184758

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.02100888 0.04862688 -0.05061864 0.03539375 -0.06332401 0.0560605
-0.05817497 0.03336807 0.02888356 -0.06097868]
[-0.30241429 -0.69996402 0.72863456 -0.50947858 0.9115232 -0.80696791
0.83740478 -0.48031965 -0.41576704 0.87776309]]

*** 偏微分_重み2 ***

[-5.50608972 -6.77779865 -0.12994865 -6.80694634 -0.01218609 -6.87001782
-0.0316561 -6.12558358 -6.01858058 -0.00751134]

*** 偏微分_バイアス1 ***

[1.17616158 2.7223277 -2.83383432 1.98148422 -3.54513204 3.13849147
-3.25686773 1.86807814 1.6170176 -3.41383087]

*** 偏微分_バイアス2 ***

-6.913645257489936

順伝播開始

*** 総入力1 ***

[-43.24705142 -91.29692415 45.87109461 -98.50976354 68.23735902
-99.78814389 96.19330946 -75.29312774 -75.10961948 83.39235279]

*** 中間層出力1 ***

[1.65212997e-19 2.24000830e-40 1.00000000e+00 1.65102359e-43
1.00000000e+00 4.59790241e-44 1.00000000e+00 1.99806724e-33
2.40052769e-33 1.00000000e+00]

*** 総入力2 ***

9.05533482145937

*** 出力1 ***

9.05533482145937

出力合計: 9.05533482145937

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.13011549  0.48073306 -0.41273215  0.30904581 -0.5136487  0.57970709
 -0.47224316  0.27958213  0.22375491 -0.49455043]
 [-0.88440777 -3.26758991  2.80538102 -2.10061479  3.49132073 -3.94032615
  3.20988323 -1.90034723 -1.52088412  3.36150792]]
```

*** 偏微分_重み2 ***

```
[3.10559833e-19 4.21066510e-40 1.87975424e+00 3.10351861e-43
 1.87975424e+00 8.64292656e-44 1.87975424e+00 3.75587537e-33
 4.51240212e-33 1.87975424e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.19210558 -0.70976565  0.6093675  -0.45628254  0.75836308 -0.85589325
 0.69723097 -0.41278166 -0.33035703  0.73016594]
```

*** 偏微分_バイアス2 ***

1.8797542435483319

順伝播開始

*** 総入力1 ***

```
[-36.92444054 -67.76056677  57.63784353 -81.20875407  80.90570398
 -97.92016337  94.90574552 -56.75970845 -63.93802629  91.19437808]
```

*** 中間層出力1 ***

```
[9.20278397e-17 3.73215575e-30 1.00000000e+00 5.38872754e-36
 1.00000000e+00 2.97723683e-43 1.00000000e+00 2.23651505e-25
 1.70634953e-28 1.00000000e+00]
```

*** 総入力2 ***

8.397420836217455

*** 出力1 ***

8.397420836217455

出力合計: 8.397420836217455

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -0.68909337 -2.54596873  2.01139415 -1.63671076  2.54584955 -3.07013653
   2.32656527 -1.48067069 -1.18500899  2.44470486]
 [ 0.29482269  1.08927088 -0.86055774  0.70025266 -1.08921989  1.31353158
 -0.995401    0.63349226  0.50699593 -1.04594601]]
```

*** 偏微分_重み2 ***

[2.22534295e-16 9.02479785e-30 2.41811930e+00 1.30305860e-35
2.41811930e+00 7.19931382e-43 2.41811930e+00 5.40816020e-25
4.12615672e-28 2.41811930e+00]

*** 偏微分_バイアス1 ***

[-0.24712497 -0.91304384 0.72133291 -0.5869627 0.91300109 -1.10102265
0.83436063 -0.53100308 -0.42497189 0.87672825]

*** 偏微分_バイアス2 ***

2.418119296276915

順伝播開始

*** 総入力1 ***

[22.93376589 49.7818231 -27.79569603 53.86061435 -42.14282544
55.62712584 -54.37092199 39.41073518 39.1885756 -50.27129862]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 8.48169383e-13 1.00000000e+00
4.98429181e-19 1.00000000e+00 2.43785912e-24 1.00000000e+00
1.00000000e+00 1.47045728e-22]

*** 総入力2 ***

-5.101163769786382

*** 出力1 ***

-5.101163769786382

出力合計: -5.101163769786382

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.02532897 0.09358203 -0.10619952 0.06016049 -0.13796176 0.11284884
-0.12492988 0.05442493 0.04355731 -0.13195082]
[-0.19198407 -0.70931669 0.80495254 -0.45599392 1.04569841 -0.85535186
0.94692163 -0.41252056 -0.33014807 1.00013771]]

*** 偏微分_重み2 ***

[-9.15480545e-01 -9.15480545e-01 -7.76482569e-13 -9.15480545e-01
-4.56302218e-19 -9.15480545e-01 -2.23181259e-24 -9.15480545e-01
-9.15480545e-01 -1.34617503e-22]

*** 偏微分_バイアス1 ***

[0.07357968 0.27185222 -0.30850555 0.17476391 -0.40077365 0.32782156
-0.36291653 0.15810234 0.12653232 -0.38331208]

*** 偏微分_バイアス2 ***

-0.9154805448095082

順伝播開始

*** 総入力1 ***

[-46.96054549 -95.16329505 56.32539551 -106.0403904 82.28948093
-112.73370108 109.04025417 -78.86421496 -81.43285641 97.91121068]

*** 中間層出力1 ***

[4.02989961e-21 4.68927910e-42 1.00000000e+00 8.85612202e-47
1.00000000e+00 1.09742714e-49 1.00000000e+00 5.61961576e-35
4.30685071e-36 1.00000000e+00]

*** 総入力2 ***

7.6151627206572545

*** 出力1 ***

7.6151627206572545

出力合計: 7.6151627206572545

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.00842009 0.03532757 -0.02589483 0.02215176 -0.03363947 0.04292314
-0.03046189 0.01989062 0.01560627 -0.03217381]
[0.05441474 0.2283039 -0.16734496 0.14315543 -0.21739462 0.27739017
-0.19685951 0.12854288 0.10085531 -0.20792282]]

*** 偏微分_重み2 ***

[-8.02440744e-22 -9.33737555e-43 -1.99121770e-01 -1.76344669e-47
-1.99121770e-01 -2.18521634e-50 -1.99121770e-01 -1.11898784e-35
-8.57587736e-37 -1.99121770e-01]

*** 偏微分_バイアス1 ***

[0.01715957 0.07199514 -0.05277187 0.04514375 -0.06855492 0.08747439
-0.06207922 0.04053572 0.0318045 -0.06556801]

*** 偏微分_バイアス2 ***

-0.19912177018612542

順伝播開始

*** 総入力1 ***

[-66.65263157 -134.33217543 83.26078614 -150.63159831 121.33630835
-162.41600945 157.33675013 -110.91442896 -115.37624915 143.19222588]

*** 中間層出力1 ***

[1.13013390e-29 4.57380312e-59 1.00000000e+00 3.81529438e-66
1.00000000e+00 2.90819366e-71 1.00000000e+00 6.76823672e-49
7.81144987e-51 1.00000000e+00]

*** 総入力2 ***

7.684855340222398

*** 出力1 ***

7.684855340222398

出力合計: 7.684855340222398

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.33159022 1.39122845 -1.03030433 0.87235436 -1.33529485 1.69034827
-1.21015882 0.78330906 0.61458775 -1.27757596]
[1.18207937 4.95956253 -3.67291137 3.10983867 -4.76016596 6.02588884
-4.31407104 2.79240286 2.19093163 -4.55440506]]

*** 偏微分_重み2 ***

[-3.94240879e-29 -1.59554559e-58 -3.48844395e+00 -1.33094406e-65
-3.48844395e+00 -1.01450706e-70 -3.48844395e+00 -2.36106145e-48
-2.72498051e-50 -3.48844395e+00]

*** 偏微分_バイアス1 ***

[0.30062109 1.26129356 -0.93407824 0.79088013 -1.21058392 1.53247685
-1.09713507 0.71015129 0.55718784 -1.15825574]

*** 偏微分_バイアス2 ***

-3.488443953395522

順伝播開始

*** 総入力1 ***

```
[ 50.43250642  92.69660167 -87.01170412 112.93023722 -123.33038204
139.67770178 -136.9088985   75.38190422  86.28121976 -137.16646907]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.62666095e-38 1.00000000e+00
2.74344102e-54 1.00000000e+00 3.47712944e-60 1.00000000e+00
1.00000000e+00 2.68756751e-60]
```

*** 総入力2 ***

```
-4.394448702231999
```

*** 出力1 ***

```
-4.394448702231999
```

出力合計: -4.394448702231999

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.29903572  5.45026762 -7.69609945  3.41752985 -9.62791642  6.62209754
   -8.83530194  3.06868656  2.40770504 -9.26232368]
[-0.65098098 -2.73127252  3.85671794 -1.71261413  4.82480226 -3.31850732
  4.42760229 -1.53779958 -1.20656435  4.64159411]]
```

*** 偏微分_重み2 ***

```
[4.36931560e+00 4.36931560e+00 7.10739506e-38 4.36931560e+00
1.19869596e-53 4.36931560e+00 1.51926759e-59 4.36931560e+00
4.36931560e+00 1.17428306e-59]
```

*** 偏微分_バイアス1 ***

```
[-0.2961222  -1.24241792  1.75436741 -0.77904437  2.19473551 -1.50954288
 2.01405477 -0.69952366 -0.54884936  2.11139667]
```

*** 偏微分_バイアス2 ***

```
4.369315600025731
```

順伝播開始

*** 総入力1 ***

```
[ 8.9883035  27.00182215  2.77666231 23.68360397 -0.35703046
13.24743402 -11.60136859 20.58869047 15.27224157 -5.59109705]
```

*** 中間層出力1 ***

```
[9.99875154e-01 1.00000000e+00 9.41401593e-01 1.00000000e+00
```

4. 11678597e-01 9. 99998235e-01 9. 15346787e-06 9. 99999999e-01
9. 99999767e-01 3. 71706449e-03]

*** 総入力2 ***

-4. 18900515392661

*** 出力1 ***

-4. 18900515392661

出力合計: -4. 18900515392661

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 74652562 2. 01045549 -1. 89219499 1. 39152463 -2. 81073956 2. 36725784
-2. 69018519 1. 28530833 1. 08405186 -2. 82019562]
[-1. 3977809 -3. 76434005 3. 54291125 -2. 60546524 5. 2627773 -4. 43241025
5. 03705349 -2. 40658779 -2. 02975886 5. 28048266]]

*** 偏微分_重み2 ***

[-2. 29524213e+00 -2. 29552872e+00 -2. 16101439e+00 -2. 29552872e+00
-9. 45020042e-01 -2. 29552467e+00 -2. 10120484e-05 -2. 29552872e+00
-2. 29552818e+00 -8. 53262829e-03]

*** 偏微分_バイアス1 ***

[0. 29363183 0. 7907749 -0. 74425935 0. 54733007 -1. 10555161 0. 9311164
-1. 05813381 0. 50555189 0. 42639144 -1. 10927097]

*** 偏微分_バイアス2 ***

-2. 295528718458878

順伝播開始

*** 総入力1 ***

[106. 35833799 213. 29583113 -148. 93427293 242. 15050137 -216. 08479861
271. 37676177 -263. 93851192 173. 04205813 183. 03718993 -249. 59862229]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 2. 08289368e-065 1. 00000000e+000
1. 43075193e-094 1. 00000000e+000 2. 36026470e-115 1. 00000000e+000
1. 00000000e+000 3. 98745364e-109]

*** 総入力2 ***

-5. 4106246565779585

*** 出力1 ***

-5.4106246565779585

出力合計: -5.4106246565779585

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 4.16188668 13.51997533 -18.98366603 8.93750748 -22.4191259
    16.16167259 -19.91772866 8.15109854 6.6610264 -20.88681408]
  [ 5.18259432 16.83576531 -23.63943262 11.12944178 -27.91744309
    20.12534195 -24.80257522 10.15016512 8.29465102 -26.00932999]]
```

*** 偏微分_重み2 ***

```
[1.29331617e+001 1.29331617e+001 2.69384006e-064 1.29331617e+001
 1.85041460e-093 1.29331617e+001 3.05256849e-114 1.29331617e+001
 1.29331617e+001 5.15703825e-108]
```

*** 偏微分_バイアス1 ***

```
[-1.24569968 -4.04668128 5.6820256 -2.67509691 6.71029753 -4.8373711
 5.96160109 -2.43971583 -1.99372041 6.2516593 ]
```

*** 偏微分_バイアス2 ***

12.933161652623657

順伝播開始

*** 総入力1 ***

```
[ 3.21323591 5.60453194 -11.25526897 7.76887305 -15.91369187
 12.86482759 -13.46862273 3.46293099 5.04543266 -16.33854995]
```

*** 中間層出力1 ***

```
[9.61329341e-01 9.96332358e-01 1.29387754e-05 9.99577489e-01
 1.22679326e-07 9.99997413e-01 1.41465603e-06 9.69614439e-01
 9.93602517e-01 8.02154232e-08]
```

*** 総入力2 ***

-11.616432879590048

*** 出力1 ***

-11.616432879590048

出力合計: -11.616432879590048

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.36854498 -4.17174012  3.72732812 -3.26558408  4.4018599 -4.68337342
  3.91072567 -3.15395008 -2.82629393  4.10099974]
 [ 2.44085777  4.2991053 -3.84112519  3.36528389 -4.53625075  4.82635901
 -4.03012196  3.25024166  2.91258201 -4.22620518]]
```

*** 偏微分_重み2 ***

```
[-1.04636642e+01 -1.08446573e+01 -1.40833110e-04 -1.08799792e+01
 -1.33531269e-06 -1.08845499e+01 -1.53979339e-05 -1.05538440e+01
 -1.08149441e+01 -8.73111033e-07]
```

*** 偏微分_バイアス1 ***

```
[ 3.03874381  5.35216751 -4.78200556  4.18960734 -5.64740154  6.00857157
 -5.01729693  4.0463856  3.62601651 -5.26141057]
```

*** 偏微分_バイアス2 ***

-10.884578029709767

順伝播開始

*** 総入力1 ***

```
[-33.75638402 -68.83324489  42.88527613 -75.4196471  61.1481495
 -81.98628847  79.36116875 -56.71202568 -58.35090812  71.5198917 ]
```

*** 中間層出力1 ***

```
[2.18669741e-15 1.27673738e-30 1.00000000e+00 1.76061110e-33
 1.00000000e+00 2.47632319e-36 1.00000000e+00 2.34574171e-25
 4.55535881e-26 1.00000000e+00]
```

*** 総入力2 ***

8.835277044614278

*** 出力1 ***

8.835277044614278

出力合計: 8.835277044614278

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.24806795 -0.65038556  0.51730704 -0.4475651  0.61092031 -0.7657286
  0.54275762 -0.42146241 -0.34897155  0.56916486]
```

```
[-1.17502138 -3.08067585 2.45032393 -2.11997785 2.89374112 -3.62702027  
2.5708755 -1.99633746 -1.65297064 2.69595845]]
```

*** 偏微分_重み2 ***

```
[7.65532997e-15 4.46968376e-30 3.50086388e+00 6.16365980e-33  
3.50086388e+00 8.66927040e-36 3.50086388e+00 8.21212241e-25  
1.59476911e-25 3.50086388e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.5800538 -1.52078741 1.20961177 -1.04653517 1.42850636 -1.79049242  
1.26912252 -0.98549962 -0.81599528 1.33087019]
```

*** 偏微分_バイアス2 ***

3.5008638763674655

順伝播開始

*** 総入力1 ***

```
[ 59.69604805 118.31461697 -96.28873847 135.74921665 -137.1226463  
160.2869309 -158.38519479 94.80621116 102.61873141 -154.33822335]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.52171111e-42 1.00000000e+00  
2.80796291e-60 1.00000000e+00 1.63750972e-69 1.00000000e+00  
1.00000000e+00 9.37046737e-68]
```

*** 総入力2 ***

-6.720099165374114

*** 出力1 ***

-6.720099165374114

出力合計: -6.720099165374114

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.42369542 3.73265045 -4.13078125 2.56863645 -4.99942983 4.39461973  
-4.36694023 2.4188296 2.00279482 -4.61197612]  
[ 0.19954987 0.52318065 -0.57898398 0.36002859 -0.70073665 0.61596446  
-0.61208481 0.33903117 0.28071836 -0.64642985]]
```

*** 偏微分_重み2 ***

```
[3.50509443e+00 3.50509443e+00 5.33374116e-42 3.50509443e+00
```

9.84217515e-60 3.50509443e+00 5.73962622e-69 3.50509443e+00
3.50509443e+00 3.28443730e-67]

*** 偏微分_バイアス1 ***

[-0.45673326 -1.19746512 1.32518877 -0.82403981 1.60385841 -1.40983033
1.40095052 -0.77598053 -0.64251313 1.47956006]

*** 偏微分_バイアス2 ***

3.505094432969196

順伝播開始

*** 総入力1 ***

[33.82385678 62.90050398 -65.9188661 76.40161317 -92.55956106
98.99313328 -98.81211977 50.00256874 58.06167293 -101.1101367]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.35396608e-29 1.00000000e+00
6.33714123e-41 1.00000000e+00 1.22022983e-43 1.00000000e+00
1.00000000e+00 1.22581680e-44]

*** 総入力2 ***

-8.43759543752902

*** 出力1 ***

-8.43759543752902

出力合計: -8.43759543752902

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.59745719 -3.48823897 3.3826583 -2.53503874 4.09398653 -4.03031944
3.57604669 -2.4123633 -2.07167629 3.7767043]
[1.05159509 2.29628374 -2.22678071 1.66879858 -2.6950432 2.65313159
-2.35408696 1.58804218 1.36377027 -2.48617849]]

*** 偏微分_重み2 ***

[-2.56451272e+00 -2.56451272e+00 -6.03677596e-29 -2.56451272e+00
-1.62516793e-40 -2.56451272e+00 -3.12929492e-43 -2.56451272e+00
-2.56451272e+00 -3.14362277e-44]

*** 偏微分_バイアス1 ***

[0.45788243 0.99984109 -0.96957829 0.72662335 -1.17346776 1.15521873

-1.0250096 0.69146064 0.59380882 -1.0825245]

*** 偏微分_バイアス2 ***

-2.5645127168130557

順伝播開始

*** 総入力1 ***

[-32.71071928 -58.74988696 56.95814548 -71.92564333 79.20566638
-90.80313114 89.57917024 -49.13545273 -57.02336179 87.8124047]

*** 中間層出力1 ***

[6.22178667e-15 3.05666807e-26 1.00000000e+00 5.79548780e-32
1.00000000e+00 3.67029697e-40 1.00000000e+00 4.57871922e-22
1.71817990e-25 1.00000000e+00]

*** 総入力2 ***

7.544133967754732

*** 出力1 ***

7.544133967754732

出力合計: 7.544133967754732

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.32626838 -3.28284205 2.16497385 -2.29647414 2.62023917 -3.84378483
2.28874657 -2.16953007 -1.81698848 2.41717174]
[0.90132814 2.23100992 -1.47130994 1.56067716 -1.78070693 2.612225
-1.55542552 1.47440634 1.23482009 -1.64270289]]

*** 偏微分_重み2 ***

[1.40714113e-14 6.91306790e-26 2.26163513e+00 1.31072788e-31
2.26163513e+00 8.30087257e-40 2.26163513e+00 1.03553922e-21
3.88589603e-25 2.26163513e+00]

*** 偏微分_バイアス1 ***

[-0.41195444 -1.01968907 0.67246615 -0.71331168 0.81387688 -1.19392444
0.7109114 -0.67388137 -0.56437783 0.75080176]

*** 偏微分_バイアス2 ***

2.261635131158327

順伝播開始

*** 総入力1 ***

[29.97286237 52.18737983 -64.86497041 68.04773363 -90.87620765
92.6923058 -93.91027361 41.8862335 52.05016176 -98.37145779]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 6.75307044e-29 1.00000000e+00
3.41165009e-40 1.00000000e+00 1.64167194e-41 1.00000000e+00
1.00000000e+00 1.89591431e-43]

*** 総入力2 ***

-7.339298665471639

*** 出力1 ***

-7.339298665471639

出力合計: -7.339298665471639

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.1573271 -2.86467062 2.73472534 -2.00394717 3.37704253 -3.35416
2.90935174 -1.89317335 -1.58553882 3.09054212]
[1.00347414 2.48384651 -2.37117592 1.73754607 -2.92810463 2.90826406
-2.5225878 1.64149832 1.37476017 -2.67969106]]

*** 偏微分_重み2 ***

[-1.86985381e+00 -1.86985381e+00 -1.26272545e-28 -1.86985381e+00
-6.37928691e-40 -1.86985381e+00 -3.06968653e-41 -1.86985381e+00
-1.86985381e+00 -3.54508260e-43]

*** 偏微分_バイアス1 ***

[0.26785772 0.66301406 -0.63293886 0.46380381 -0.78160004 0.77630399
-0.67335529 0.43816575 0.36696524 -0.71529092]

*** 偏微分_バイアス2 ***

-1.869853808478152

順伝播開始

*** 総入力1 ***

[-88.17310326 -177.42117039 124.7779008 -198.37762471 177.73998984
-223.49991167 218.64302078 -144.68881949 -152.13172752 204.12575591]

*** 中間層出力1 ***

[5.09222755e-39 8.85043720e-78 1.00000000e+00 7.00958419e-87
1.00000000e+00 8.61433298e-98 1.00000000e+00 1.45359729e-63
8.51197258e-67 1.00000000e+00]

*** 総入力2 ***

6.883451438442792

*** 出力1 ***

6.883451438442792

出力合計: 6.883451438442792

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.9411116 8.23013293 -5.23971725 5.56377746 -6.47039312 9.74647671
-5.57430038 5.22062151 4.26762901 -5.92146006]
[3.69967866 10.35283639 -6.59113722 6.99877855 -8.13922715 12.26027328
-7.01201552 6.56711633 5.36832944 -7.4487141]]

*** 偏微分_重み2 ***

[-3.83521489e-38 -6.66571323e-77 -7.53150729e+00 -5.27927344e-86
-7.53150729e+00 -6.48789116e-97 -7.53150729e+00 -1.09477786e-62
-6.41079836e-66 -7.53150729e+00]

*** 偏微分_バイアス1 ***

[1.12540677 3.14923354 -2.00496073 2.12896131 -2.47587484 3.72945755
-2.13298787 1.99765381 1.63299433 -2.26582739]

*** 偏微分_バイアス2 ***

-7.53150728990917

順伝播開始

*** 総入力1 ***

[8.12852062 10.54160908 -26.92379512 19.2643549 -37.69645742
32.09617849 -34.28859049 8.2430641 14.43522457 -39.50585945]

*** 中間層出力1 ***

[9.99705083e-01 9.99973587e-01 2.02835677e-12 9.99999996e-01
4.25242394e-17 1.00000000e+00 1.28426415e-15 9.99736992e-01
9.99999462e-01 6.96343035e-18]

*** 総入力2 ***

-5.895364825117276

*** 出力1 ***

-5.895364825117276

出力合計: -5.895364825117276

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.23717931 -3.46157793 4.95049861 -2.34008544 5.78738388 -4.09929915
5.17802212 -2.19602333 -1.79493501 5.41409794]
[1.41134226 3.94887888 -5.64740121 2.66950915 -6.60209834 4.6763748
-5.90695416 2.50516681 2.0476156 -6.17626337]]

*** 偏微分_重み2 ***

[-4.00772152e+00 -4.00879793e+00 -8.13148720e-12 -4.00890380e+00
-1.70475586e-16 -4.00890382e+00 -5.14849144e-15 -4.00784945e+00
-4.00890166e+00 -2.79157225e-17]

*** 偏微分_バイアス1 ***

[0.47117507 1.31832889 -1.88537872 0.89121271 -2.20410331 1.56120261
-1.97203018 0.8363472 0.68359423 -2.06193877]

*** 偏微分_バイアス2 ***

-4.008903818852104

順伝播開始

*** 総入力1 ***

[50.39618782 108.99225157 -68.91299628 115.07561362 -99.06894808
126.13287931 -122.11309451 85.7614765 85.57810134 -113.94480017]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.17887019e-30 1.00000000e+00
9.43849004e-44 1.00000000e+00 9.26737822e-54 1.00000000e+00
1.00000000e+00 3.26890307e-50]

*** 総入力2 ***

-3.9316660489810435

*** 出力1 ***

-3.9316660489810435

出力合計: -3.9316660489810435

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.02442569 -0.10719739  0.18421457 -0.06546618  0.21535617
  -0.13092884  0.19268102 -0.06010119 -0.04518041  0.20146571]
 [ 1.14005648  5.00338306 -8.59812053  3.05560021 -10.05163884
   6.11103618 -8.9932877  2.8051922  2.10877231 -9.4033087 ]]
```

*** 偏微分_重み2 ***

```
[4.29946697e+00 4.29946697e+00 5.06851344e-30 4.29946697e+00
 4.05804762e-43 4.29946697e+00 3.98447866e-53 4.29946697e+00
 4.29946697e+00 1.40545408e-49]
```

*** 偏微分_バイアス1 ***

```
[-0.2681084 -1.17665137  2.02202993 -0.71858903  2.36385551 -1.43713943
 2.11496185 -0.65970029 -0.49592242  2.21138696]
```

*** 偏微分_バイアス2 ***

4.299466972068256

順伝播開始

*** 総入力1 ***

```
[-7.7224306 -2.00349115 22.48451195 -15.83486479 31.34078328
 -29.59734104 29.90097505 -5.01901204 -14.96310302 33.50312777]
```

*** 中間層出力1 ***

```
[4.42587096e-04 1.18836861e-01 1.00000000e+00 1.32741140e-07
 1.00000000e+00 1.39971013e-13 1.00000000e+00 6.56763591e-03
 3.17399901e-07 1.00000000e+00]
```

*** 総入力2 ***

9.290583197307049

*** 出力1 ***

9.290583197307049

出力合計: 9.290583197307049

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -4.53501361 -12.37661761 10.85432682 -8.44478832 12.68925838  
-14.68117193 11.35318858 -7.93360044 -6.51223857 11.87080193]  
[ 5.81818521 15.8785529 -13.92553344 10.83422161 -16.27965464  
18.83517552 -14.56554699 10.17839431 8.35486138 -15.22961783]]
```

*** 偏微分_重み2 ***

```
[3.37179055e-03 9.05342718e-01 7.61836616e+00 1.01127061e-06  
7.61836616e+00 1.06635043e-12 7.61836616e+00 5.00346552e-02  
2.41806867e-06 7.61836616e+00]
```

*** 偏微分_バイアス1 ***

```
[-1.17728164 -3.21294839 2.81776435 -2.19225235 3.29410939 -3.81120668  
2.947268 -2.05954887 -1.6905658 3.08163952]
```

*** 偏微分_バイアス2 ***

7.618366156368877

順伝播開始

*** 総入力1 ***

```
[ 31.63003966 69.08040375 -47.65100954 72.38239913 -67.61264464  
82.15558227 -79.93059882 53.43762143 53.46233437 -76.31549973]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 2.02036344e-21 1.00000000e+00  
4.32714577e-30 1.00000000e+00 1.93455908e-35 1.00000000e+00  
1.00000000e+00 7.18785960e-34]
```

*** 総入力2 ***

-6.638803177734059

*** 出力1 ***

-6.638803177734059

出力合計: -6.638803177734059

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -0.03545638 -0.10070365 0.09827424 -0.06599922 0.12146047 -0.11473891  
0.10457786 -0.06220558 -0.05089561 0.11111843]  
[ -0.41961927 -1.19180782 1.16305621 -0.7810877 1.43746066 -1.35791233  
1.23765839 -0.73619076 -0.60233956 1.31506476]]
```

*** 偏微分_重み2 ***

[-1.51922747e+00 -1.51922747e+00 -3.06939163e-21 -1.51922747e+00
-6.57391870e-30 -1.51922747e+00 -2.93903529e-35 -1.51922747e+00
-1.51922747e+00 -1.09199937e-33]

*** 偏微分_バイアス1 ***

[0.18470431 0.52459945 -0.51194382 0.34381229 -0.63272875 0.59771386
-0.54478154 0.32404995 0.26513251 -0.5788536]

*** 偏微分_バイアス2 ***

-1.519227467648519

順伝播開始

*** 総入力1 ***

[-6.29022581 -6.79846875 9.94819841 -13.26908459 14.24958536
-17.17247516 17.35141624 -7.84670044 -11.87581424 16.53183009]

*** 中間層出力1 ***

[1.85090895e-03 1.11423900e-03 9.99952189e-01 1.72706639e-06
9.99999352e-01 3.48408533e-08 9.99999971e-01 3.90887249e-04
6.95658967e-06 9.99999934e-01]

*** 総入力2 ***

6.935815744307684

*** 出力1 ***

6.935815744307684

出力合計: 6.935815744307684

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.0267404 -3.30859417 2.12576135 -2.0948977 2.62724336 -3.7994419
2.26206459 -1.96222504 -1.56668845 2.40354003]
[1.10916327 3.5741957 -2.29640949 2.26306822 -2.8381486 4.10444684
-2.44365464 2.1197451 1.69245632 -2.59648721]]

*** 偏微分_重み2 ***

[1.06771064e-02 6.42757086e-03 5.76829884e+00 9.96271136e-06
5.76857090e+00 2.00982063e-07 5.76857447e+00 2.25486227e-03
4.01296067e-05 5.76857426e+00]

*** 偏微分_バイアス1 ***

[-0.73840328 -2.37944938 1.52878874 -1.50659246 1.88944073 -2.73245348
1.62681426 -1.41117795 -1.12671898 1.72855949]

*** 偏微分_バイアス2 ***

5.7685746394549495

順伝播開始

*** 総入力1 ***

[-9.9201006 -9.00333543 18.62113368 -21.83972863 27.30259483
-29.17704712 30.93609877 -11.07247785 -18.91368059 31.30501391]

*** 中間層出力1 ***

[4.91737911e-05 1.22983738e-04 9.99999992e-01 3.27435958e-10
1.00000000e+00 2.13093124e-13 1.00000000e+00 1.55337827e-05
6.10791362e-09 1.00000000e+00]

*** 総入力2 ***

4.919832418544685

*** 出力1 ***

4.919832418544685

出力合計: 4.919832418544685

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.93958285 -3.02414511 1.36055271 -1.91427218 1.81881056 -3.47184549
1.48511865 -1.79332687 -1.43161019 1.61439575]
[1.02566345 3.30120445 -1.48520077 2.08964968 -1.98544226 3.78992124
-1.62117892 1.95762387 1.56276824 -1.76229984]]

*** 偏微分_重み2 ***

[1.33467347e-04 3.33802070e-04 2.71419679e+00 8.88725633e-10
2.71419681e+00 5.78376678e-13 2.71419681e+00 4.21617433e-05
1.65780797e-08 2.71419681e+00]

*** 偏微分_バイアス1 ***

[-0.34793674 -1.11987058 0.503826 -0.70887376 0.67352338 -1.28565842
0.549954 -0.66408652 -0.53013929 0.59782657]

*** 偏微分_バイアス2 ***

2. 7141968103341467

順伝播開始

*** 総入力1 ***

[-78.9857411 -157.91095668 115.52696928 -177.21333174 163.70635865
-203.26923555 198.39753075 -128.60801107 -136.29121861 186.6595088]

*** 中間層出力1 ***

[4.97655137e-35 2.63113348e-69 1.00000000e+00 1.08950168e-77
1.00000000e+00 5.26371854e-89 1.00000000e+00 1.40039472e-56
6.44875424e-60 1.00000000e+00]

*** 総入力2 ***

3.9701069377412272

*** 出力1 ***

3.9701069377412272

出力合計: 3.9701069377412272

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.29608648 10.60875398 -3.81231136 6.71520523 -5.41986518 12.1791223
-4.2492847 6.29095195 5.02204251 -4.70278461]
[2.29526816 7.38752925 -2.65474736 4.67621128 -3.77418617 8.48107349
-2.95903884 4.38077757 3.49715772 -3.27483877]]

*** 偏微分_重み2 ***

[-4.39244662e-34 -2.32231369e-68 -8.82628611e+00 -9.61625357e-77
-8.82628611e+00 -4.64590858e-88 -8.82628611e+00 -1.23602844e-55
-5.69185499e-59 -8.82628611e+00]

*** 偏微分_バイアス1 ***

[1.13147476 3.64175438 -1.30868353 2.30518382 -1.86052177 4.18082765
-1.45868697 2.1595469 1.72395791 -1.61436362]

*** 偏微分_バイアス2 ***

-8.826286105680445

順伝播開始

*** 総入力1 ***

[-19.56957589 -31.12818083 31.15965991 -43.45618186 44.80845021

-52.78161248 53.06789723 -28.19685395 -35.10908807 51.29832585]

*** 中間層出力1 ***

[3.16986799e-09 3.02832745e-14 1.00000000e+00 1.34035553e-19
1.00000000e+00 1.19463973e-23 1.00000000e+00 5.67886995e-13
5.65349208e-16 1.00000000e+00]

*** 総入力2 ***

7.059307073103308

*** 出力1 ***

7.059307073103308

出力合計: 7.059307073103308

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.08052756 -3.47777618 2.27365085 -2.20138773 2.80064134 -3.99257646
2.41690005 -2.06230844 -1.64633281 2.56556701]
[0.82236865 2.64686826 -1.73043174 1.67543367 -2.13151402 3.03867281
-1.83945594 1.56958311 1.2529921 -1.95260348]]

*** 偏微分_重み2 ***

[1.10483731e-08 1.05550426e-13 3.48543636e+00 4.67172391e-19
3.48543636e+00 4.16384076e-23 3.48543636e+00 1.97933398e-12
1.97048868e-15 3.48543636e+00]

*** 偏微分_バイアス1 ***

[-0.44681118 -1.43810239 0.94018205 -0.91030037 1.15809896 -1.65097851
0.99941732 -0.85278941 -0.68077847 1.06089289]

*** 偏微分_バイアス2 ***

3.485436356899907

順伝播開始

*** 総入力1 ***

[110.77321683 226.12995627 -168.97287519 251.12974528 -240.52830088
292.32839109 -283.58017661 180.22478744 190.05589765 -271.93678995]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 4.13059593e-074 1.00000000e+000
3.46645994e-105 1.00000000e+000 6.96136047e-124 1.00000000e+000]

1.00000000e+000 7.93145198e-119]

*** 総入力2 ***

-6.115710588136147

*** 出力1 ***

-6.115710588136147

出力合計: -6.115710588136147

誤差逆伝播開始

*** 偏微分_重み1 ***

[[5.04177606 16.22741457 -14.10237435 10.27174534 -18.07804816
18.6294891 -15.18306195 9.62279693 7.68184142 -16.30462172]
[3.65838829 11.77485529 -10.23289424 7.4533324 -13.11770276
13.51783657 -11.01705737 6.98244571 5.5740593 -11.83087795]]

*** 偏微分_重み2 ***

[1.21720937e+001 1.21720937e+001 5.02780006e-073 1.21720937e+001
4.21940751e-104 1.21720937e+001 8.47343317e-123 1.21720937e+001
1.21720937e+001 9.65423764e-118]

*** 偏微分_バイアス1 ***

[-1.22716235 -3.94973357 3.43250128 -2.5001307 4.4001756 -4.53439567
3.69553937 -2.34217742 -1.86975114 3.96852569]

*** 偏微分_バイアス2 ***

12.172093661825116

順伝播開始

*** 総入力1 ***

[-9.19151552 -0.29775456 21.60015867 -20.79570017 32.62259278
-29.95185581 35.1011977 -6.29430613 -18.78599531 37.53645576]

*** 中間層出力1 ***

[1.01889933e-04 4.26106492e-01 1.00000000e+00 9.30126821e-10
1.00000000e+00 9.81915915e-14 1.00000000e+00 1.84338593e-03
6.93978311e-09 1.00000000e+00]

*** 総入力2 ***

3.917529693834214

*** 出力1 ***

3. 917529693834214

出力合計: 3. 917529693834214

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1. 68547811 -2. 95425723 1. 09552557 -2. 34236363 1. 40437088 -3. 39209844
1. 17947745 -2. 26085362 -2. 01707102 1. 26660444]
[1. 97840964 3. 46769914 -1. 28592494 2. 74946009 -1. 64844674 3. 98163597
-1. 38446744 2. 65378386 2. 3676325 -1. 48673686]]

*** 偏微分_重み2 ***

[1. 19737834e-04 5. 00746905e-01 1. 17516845e+00 1. 09305569e-09
1. 17516845e+00 1. 15391660e-13 1. 17516845e+00 2. 16628899e-03
8. 15541416e-09 1. 17516845e+00]

*** 偏微分_バイアス1 ***

[-0. 40097381 -0. 70281529 0. 2606246 -0. 55724632 0. 33409864 -0. 80697734
0. 28059668 -0. 53785516 -0. 47985948 0. 30132412]

*** 偏微分_バイアス2 ***

1. 1751684490030607

順伝播開始

*** 総入力1 ***

[-3. 13908999 10. 71819335 12. 69440657 -8. 06174781 19. 95917328
-14. 17905259 20. 877677 2. 71056227 -8. 82655178 23. 48536962]

*** 中間層出力1 ***

[4. 15233217e-02 9. 99977862e-01 9. 99996932e-01 3. 15275678e-04
9. 99999998e-01 6. 95209025e-07 9. 99999999e-01 9. 37647030e-01
1. 46761968e-04 1. 00000000e+00]

*** 総入力2 ***

0. 2643522663604251

*** 出力1 ***

0. 2643522663604251

出力合計: 0. 2643522663604251

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 2.06262564  3.01725101 -1.24342196  2.86771588 -1.62153427  4.15288842
 -1.34620106  2.23892345  2.46946572 -1.45286915]
 [-2.58601638 -3.7828777  1.55893998 -3.59539806  2.03299819 -5.20668282
  1.68779925 -2.80704971 -3.09609203  1.82153434]]
```

*** 偏微分_重み2 ***

```
[-6.63836395e-02 -1.59867195e+00 -1.59870244e+00 -5.04033543e-04
 -1.59870734e+00 -1.11143577e-06 -1.59870734e+00 -1.49902319e+00
 -2.34629436e-04 -1.59870735e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0.54525586  0.79761143 -0.32869906  0.75808176 -0.42865319  1.0978176
 -0.35586875  0.59186025  0.65280418 -0.3840665 ]
```

*** 偏微分_バイアス2 ***

-1.5987073459814587

順伝播開始

*** 総入力1 ***

```
[-91.67994147 -190.93874718  133.72860003 -205.04803049  188.42058992
 -237.38574105  226.69554198 -152.21599384 -157.01150656  212.93254243]
```

*** 中間層出力1 ***

```
[1.52724009e-040 1.19221812e-083 1.00000000e+000 8.88734079e-090
 1.00000000e+000 8.02939050e-104 1.00000000e+000 7.82408963e-067
 6.46798649e-069 1.00000000e+000]
```

*** 総入力2 ***

5.13559606375594

*** 出力1 ***

5.13559606375594

出力合計: 5.13559606375594

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 7.20166959 12.84268599 -4.82034789 10.04233757 -6.14447619 14.54310078
 -5.18028013  9.13829946  8.6477953 -5.55382371]
 [10.69049984 19.06429207 -7.15555298 14.90732209 -9.12115183 21.58846842]
```

-7. 68985347 13. 56532505 12. 83719741 -8. 24435927]]

*** 偏微分_重み2 ***

[-1. 36917454e-039 -1. 06882651e-082 -8. 96502485e+000 -7. 96752311e-089
-8. 96502485e+000 -7. 19836854e-103 -8. 96502485e+000 -7. 01431579e-066
-5. 79856596e-068 -8. 96502485e+000]

*** 偏微分_バイアス1 ***

[3. 04851883 5. 43640188 -2. 04048813 4. 25099414 -2. 60100122 6. 15619976
-2. 19285005 3. 86830827 3. 66067431 -2. 35097375]

*** 偏微分_バイアス2 ***

-8. 965024850885971

順伝播開始

*** 総入力1 ***

[-96. 85506191 -204. 08744876 135. 58590966 -212. 67683716 190. 12024647
-246. 5884075 228. 76914271 -161. 02518168 -163. 0744516 214. 00476651]

*** 中間層出力1 ***

[8. 63736095e-043 2. 32245431e-089 1. 00000000e+000 4. 32138733e-093
1. 00000000e+000 8. 09124443e-108 1. 00000000e+000 1. 16856305e-070
1. 50544721e-071 1. 00000000e+000]

*** 総入力2 ***

8. 27335476156603

*** 出力1 ***

8. 27335476156603

出力合計: 8. 27335476156603

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3. 01102827 5. 36954523 -3. 10793307 4. 19871559 -3. 66155299
6. 08049107 -3. 25842125 3. 82073597 3. 61565548 -3. 41460035]
[8. 82825768 15. 74336892 -9. 11238005 12. 31052642 -10. 73557947
17. 82784388 -9. 55360753 11. 20229988 10. 60100915 -10. 01152065]]

*** 偏微分_重み2 ***

[-4. 87221966e-042 -1. 31006538e-088 -5. 64086610e+000 -2. 43763673e-092
-5. 64086610e+000 -4. 56416264e-107 -5. 64086610e+000 -6. 59170770e-070

-8.49202615e-071 -5.64086610e+000]

*** 偏微分_バイアス1 ***

[1.91815269 3.42062801 -1.97988515 2.67475987 -2.33256452 3.87353065
-2.07575251 2.43397083 2.30332586 -2.17524522]

*** 偏微分_バイアス2 ***

-5.640866096074964

順伝播開始

*** 総入力1 ***

[-4.18373944 3.64302541 11.15392089 -10.66253707 17.3548947
-14.94300592 19.97697643 -1.7373666 -10.20663938 20.74712061]

*** 中間層出力1 ***

[1.50125934e-02 9.74494516e-01 9.99985681e-01 2.34050096e-05
9.99999971e-01 3.23843247e-07 9.99999998e-01 1.49647734e-01
3.69229850e-05 9.99999999e-01]

*** 総入力2 ***

7.605077219596903

*** 出力1 ***

7.605077219596903

出力合計: 7.605077219596903

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-5.40530663 -7.67008891 6.81375724 -7.53783157 7.80760995
-10.91612818 7.0838792 -6.82099637 -6.49108078 7.36426298]
[6.39528516 9.07486091 -8.06169263 8.91838071 -9.23756884
12.91541024 -8.38128725 8.07025759 7.67991817 -8.71302315]]

*** 偏微分_重み2 ***

[8.85248280e-02 5.74630625e+00 5.89662012e+00 1.38012426e-04
5.89670438e+00 1.90960795e-06 5.89670454e+00 8.82428474e-01
2.17723934e-04 5.89670454e+00]

*** 偏微分_バイアス1 ***

[-2.0050365 -2.84513152 2.5274851 -2.79607217 2.89614337 -4.04921255
2.62768375 -2.53017037 -2.40779197 2.73168889]

*** 偏微分_バイアス2 ***

5. 896704550298092

順伝播開始

*** 総入力1 ***

[-9.39339712 -20.74827574 7.54259705 -17.89285921 9.32150707
-19.18620781 14.528006 -16.69074078 -14.82899278 10.76288548]

*** 中間層出力1 ***

[8.32651560e-05 9.75300255e-10 9.99470261e-01 1.69523524e-08
9.99910529e-01 4.65088730e-09 9.99999510e-01 5.64031496e-08
3.62952761e-07 9.99978830e-01]

*** 総入力2 ***

8.182537888908401

*** 出力1 ***

8.182537888908401

出力合計: 8.182537888908401

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.50143218 3.10734925 -1.52762745 2.08418125 -1.80213049 3.01825196
-1.60194863 1.96442333 1.79476631 -1.67948934]
[-3.07290885 -6.35966191 3.12652147 -4.26559329 3.6883336 -6.17731079
3.27863104 -4.02049052 -3.6732617 3.43732986]]

*** 偏微分_重み2 ***

[6.28293006e-04 7.35931282e-09 7.54169217e+00 1.27917186e-07
7.54501430e+00 3.50941511e-08 7.54568572e+00 4.25600649e-07
2.73872881e-06 7.54552967e+00]

*** 偏微分_バイアス1 ***

[-2.57756948 -5.3345124 2.62253997 -3.57799843 3.09379046 -5.18155548
2.75013015 -3.37240515 -3.08114808 2.88324742]

*** 偏微分_バイアス2 ***

7.545689416732815

順伝播開始

*** 総入力1 ***

[-67.8671505 -142.93752009 91.64067188 -145.95853628 127.22209455
-169.27650897 153.67653228 -112.74179352 -112.54650303 142.68059965]

*** 中間層出力1 ***

[3.35483400e-30 8.37575123e-63 1.00000000e+00 4.08331708e-64
1.00000000e+00 3.04892147e-74 1.00000000e+00 1.08858211e-49
1.32335017e-49 1.00000000e+00]

*** 総入力2 ***

5.5431644369603905

*** 出力1 ***

5.5431644369603905

出力合計: 5.5431644369603905

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.67122302 1.38911184 -0.47879727 0.93171402 -0.6015553 1.34928172
-0.51208084 0.87817735 0.80233383 -0.54674173]
[4.40028024 9.10648353 -3.13881099 6.10795917 -3.94356545 8.84537257
-3.35700522 5.75699335 5.25979235 -3.58422872]]

*** 偏微分_重み2 ***

[-1.17435112e-29 -2.93191044e-62 -3.50047460e+00 -1.42935477e-63
-3.50047460e+00 -1.06726721e-73 -3.50047460e+00 -3.81055402e-49
-4.63235366e-49 -3.50047460e+00]

*** 偏微分_バイアス1 ***

[1.19578297 2.474701 -0.85297675 1.65984736 -1.07167002 2.40374369
-0.91227137 1.56447186 1.42935672 -0.97401971]

*** 偏微分_バイアス2 ***

-3.5004745952675957

順伝播開始

*** 総入力1 ***

[28.75607902 71.63391784 -34.21661168 58.43290611 -45.13572283
67.02555845 -52.83610313 51.59084 42.91359646 -48.29296276]

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.38011208e-15 1.00000000e+00
2.49922086e-20 1.00000000e+00 1.13128483e-23 1.00000000e+00
1.00000000e+00 1.06324355e-21]
```

*** 総入力2 ***

-12.007863173583994

*** 出力1 ***

-12.007863173583994

出力合計: -12.007863173583994

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 6.14347796 12.71407224 -8.48614424 8.52766426 -10.30273721
 12.34952059 -8.9786797 8.0376612 7.34349101 -9.49159717]
[-12.30817503 -25.47205791 17.00159897 -17.08478242 20.6410593
-24.74169548 17.98837108 -16.10308388 -14.71234588 19.01597759]]
```

*** 偏微分_重み2 ***

```
[-9.61249258e+00 -9.61249258e+00 -1.32663171e-14 -9.61249258e+00
-2.40237419e-19 -9.61249258e+00 -1.08744671e-22 -9.61249258e+00
-9.61249258e+00 -1.02204208e-20]
```

*** 偏微分_バイアス1 ***

```
[ 2.5824464 5.34443361 -3.56719968 3.58465286 -4.33081502 5.19119222
-3.77423981 3.37867725 3.08687881 -3.98984762]
```

*** 偏微分_バイアス2 ***

-9.612492577690658

順伝播開始

*** 総入力1 ***

```
[ 70.21847922 136.72751626 -114.67104416 157.39714454 -163.69359998
190.44905472 -185.32931675 108.48597134 119.9592238 -182.71798193]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.58124181e-50 1.00000000e+00
8.10536931e-72 1.00000000e+00 3.25462084e-81 1.00000000e+00
1.00000000e+00 4.43188724e-80]
```

*** 総入力2 ***

-7.297741810516234

*** 出力1 ***

-7.297741810516234

出力合計: -7.297741810516234

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.81729593 8.75380143 -7.66719718 4.97139866 -9.30848163 8.42443048
-8.11220099 4.52868287 3.90150289 -8.57561986]
[-0.62825774 -1.95210003 1.709787 -1.10862321 2.07579386 -1.87865022
1.80902296 -1.00989747 -0.87003617 1.91236549]]

*** 偏微分_重み2 ***

[4.48019422e+00 4.48019422e+00 7.08427042e-50 4.48019422e+00
3.63136287e-71 4.48019422e+00 1.45813335e-80 4.48019422e+00
4.48019422e+00 1.98557156e-79]

*** 偏微分_バイアス1 ***

[-0.61091963 -1.89822768 1.66260179 -1.0780284 2.01850792 -1.82680488
1.75909913 -0.98202721 -0.84602568 1.85958971]

*** 偏微分_バイアス2 ***

4.480194219056822

順伝播開始

*** 総入力1 ***

[-120.44708029 -246.0418979 173.70795841 -263.59047288 244.22428148
-310.18844889 289.10444467 -195.26047236 -202.85475757 274.10639363]

*** 中間層出力1 ***

[4.90340389e-053 1.39753092e-107 1.00000000e+000 3.34281348e-115
1.00000000e+000 1.93583481e-135 1.00000000e+000 1.58290306e-085
7.96706128e-089 1.00000000e+000]

*** 総入力2 ***

7.127591430408419

*** 出力1 ***

7.127591430408419

出力合計: 7.127591430408419

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 9.75972555 23.92136849 -11.31251396 14.89837718 -13.73413594
    23.13564804 -11.96909181 13.84227053 12.34612118 -12.65284002]
  [ 8.83216059 21.64788005 -10.23737189 13.48243444 -12.42884276
    20.93683453 -10.83154854 12.52670023 11.17274501 -11.45031328]]
```

*** 偏微分_重み2 ***

```
[-5.17204796e-052 -1.47409782e-106 -1.05478726e+001 -3.52595708e-114
 -1.05478726e+001 -2.04189390e-134 -1.05478726e+001 -1.66962599e-084
 -8.40355476e-088 -1.05478726e+001]
```

*** 偏微分_バイアス1 ***

```
[ 2.6558566 6.50958103 -3.07840776 4.05420758 -3.73738948 6.29576756
 -3.25707842 3.7668155 3.3596772 -3.44314279]
```

*** 偏微分_バイアス2 ***

-10.547872625463544

順伝播開始

*** 総入力1 ***

```
[ 144.4728199 302.36193066 -212.12009173 315.22321537 -297.59214423
 375.35243779 -344.86634253 234.19005372 240.04139504 -331.09942941]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 7.54075204e-093 1.00000000e+000
 5.71970858e-130 1.00000000e+000 1.68442021e-150 1.00000000e+000
 1.00000000e+000 1.60451892e-144]
```

*** 総入力2 ***

-8.75468589407163

*** 出力1 ***

-8.75468589407163

出力合計: -8.75468589407163

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 8.8107012 21.59528248 -24.72475533 13.44967634 -28.25934894
```

```
20. 88596457 -25. 68309477 12. 49626427 11. 14559873 -26. 68109202]
[ 11. 27299855 27. 63044422 -31. 63450044 17. 20841264 -36. 15689517
26. 7228956 -32. 86066382 15. 98855367 14. 26042213 -34. 13756804]]
```

*** 偏微分_重み2 ***

```
[1. 19474841e+001 1. 19474841e+001 9. 00930149e-092 1. 19474841e+001
6. 83361271e-129 1. 19474841e+001 2. 01245836e-149 1. 19474841e+001
1. 19474841e+001 1. 91699643e-143]
```

*** 偏微分_バイアス1 ***

```
[-2. 36584381 -5. 79875134 6. 63907538 -3. 61149843 7. 58818218 -5. 60828575
6. 89640807 -3. 35548883 -2. 99280899 7. 16438964]
```

*** 偏微分_バイアス2 ***

```
11. 947484073759304
```

順伝播開始

*** 総入力1 ***

```
[ 51. 75063179 116. 9864623 -74. 80157613 110. 69741024 -101. 84150741
130. 75479538 -117. 36251934 87. 45688064 83. 00013653 -111. 49977186]
```

*** 中間層出力1 ***

```
[1. 00000000e+00 1. 00000000e+00 3. 26654202e-33 1. 00000000e+00
5. 89922963e-45 1. 00000000e+00 1. 07177956e-51 1. 00000000e+00
1. 00000000e+00 3. 76933161e-49]
```

*** 総入力2 ***

```
-14. 608953090213689
```

*** 出力1 ***

```
-14. 608953090213689
```

出力合計: -14. 608953090213689

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 2. 10586219 3. 77528246 -3. 2285772 2. 71162307 -3. 6901271
3. 68265919 -3. 35371789 2. 5871258 2. 41075487 -3. 48403712]
[-12. 65570021 -22. 68849461 19. 402934 -16. 29617014 22. 17673239
-22. 13185215 20. 15499794 -15. 54797299 -14. 48802826 20. 93818364]]
```

*** 偏微分_重み2 ***

```
[-8.27999677e+00 -8.27999677e+00 -2.70469574e-32 -8.27999677e+00  
-4.88456023e-44 -8.27999677e+00 -8.87433129e-51 -8.27999677e+00  
-8.27999677e+00 -3.12100536e-48]
```

*** 偏微分_バイアス1 ***

```
[ 3.00109732  5.38021438 -4.60109612  3.86437666 -5.25885814  5.24821551  
-4.77943608  3.68695365  3.43560467 -4.96515607]
```

*** 偏微分_バイアス2 ***

-8.279996767612484

順伝播開始

*** 総入力1 ***

```
[-39.36118296 -84.97550397  51.92485455 -84.1201402  71.21859539  
-97.76240852  87.15382784 -66.32691554 -65.21988497  79.77648596]
```

*** 中間層出力1 ***

```
[8.04739721e-18 1.24625677e-37 1.00000000e+00 2.93148241e-37  
1.00000000e+00 3.48598444e-43 1.00000000e+00 1.56526033e-29  
4.73547828e-29 1.00000000e+00]
```

*** 総入力2 ***

10.562622737890383

*** 出力1 ***

10.562622737890383

出力合計: 10.562622737890383

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.05778529 -0.12460196  0.07992268 -0.08203019  0.09134824 -0.12089482  
 0.08302051 -0.07704733 -0.06998828  0.08624653]  
[-4.30255951 -9.27757449  5.95085841 -6.10777865  6.80157931 -9.00154925  
 6.18151559 -5.73676616 -5.21116574  6.42171778]]
```

*** 偏微分_重み2 ***

```
[4.51671998e-17 6.99479930e-37 5.61264700e+00 1.64533759e-36  
5.61264700e+00 1.95656001e-42 5.61264700e+00 8.78525367e-29  
2.65785680e-28 5.61264700e+00]
```

*** 偏微分_バイアス1 ***

[-1.77343796 -3.82405003 2.45283725 -2.51751696 2.80348917 -3.71027737
2.54791001 -2.36459226 -2.14794918 2.64691705]

*** 偏微分_バイアス2 ***

5.612646998616376

順伝播開始

*** 総入力1 ***

[132.25199332 279.23564185 -202.56570511 288.94626521 -281.97670289
346.40133376 -323.59726609 214.47542004 219.86280188 -311.89806557]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.06373156e-088 1.00000000e+000
3.45998257e-123 1.00000000e+000 2.90732094e-141 1.00000000e+000
1.00000000e+000 3.50260535e-136]

*** 総入力2 ***

-10.944639963986717

*** 出力1 ***

-10.944639963986717

出力合計: -10.944639963986717

誤差逆伝播開始

*** 偏微分_重み1 ***

[[7.02900661 15.15659047 -12.94003426 9.97815752 -15.18709307
14.70565347 -13.54928254 9.37204173 8.51337869 -14.18374261]
[8.08227149 17.42773706 -14.87903991 11.47333933 -17.46281033
16.90922919 -15.5795813 10.77639983 9.78907002 -16.30911234]]

*** 偏微分_重み2 ***

[7.93867629e+000 7.93867629e+000 8.44462054e-088 7.93867629e+000
2.74676816e-122 7.93867629e+000 2.30802798e-140 7.93867629e+000
7.93867629e+000 2.78060500e-135]

*** 偏微分_バイアス1 ***

[-1.97272356 -4.25376795 3.63168109 -2.80041654 4.26232865 -4.12721038
3.80266947 -2.63030731 -2.38931952 3.98073365]

*** 偏微分_バイアス2 ***

7.938676288046146

順伝播開始

*** 総入力1 ***

[44.75299224 99.7458515 -68.17450731 97.99029048 -94.12794767
116.89287541 -107.43910535 74.8648715 73.2929308 -103.37286733]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.46710519e-30 1.00000000e+00
1.32054052e-41 1.00000000e+00 2.18670100e-47 1.00000000e+00
1.00000000e+00 1.27565765e-45]

*** 総入力2 ***

-14.83459134512933

*** 出力1 ***

-14.83459134512933

出力合計: -14.83459134512933

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.48927851 -0.88224664 0.62564977 -0.63186976 0.73429491
-0.86044386 0.65510689 -0.6025641 -0.5610478 0.68578299]
[-8.77368148 -15.82033707 11.219074 -11.33060997 13.16728515
-15.42937245 11.74729529 -10.80510457 -10.06063945 12.29737532]]

*** 偏微分_重み2 ***

[-8.78282414e+00 -8.78282414e+00 -2.16681511e-29 -8.78282414e+00
-1.15980752e-40 -8.78282414e+00 -1.92054104e-46 -8.78282414e+00
-8.78282414e+00 -1.12038768e-44]

*** 偏微分_バイアス1 ***

[3.14209021 5.66568622 -4.01785074 4.05779475 -4.71555731 5.52567132
-4.20702092 3.8695972 3.60298431 -4.40401931]

*** 偏微分_バイアス2 ***

-8.782824143829181

順伝播開始

*** 総入力1 ***

[25.5285256 50.89294202 -46.03233005 55.66631386 -64.4084257
70.08643847 -68.87222491 38.16721987 42.04785645 -70.03802143]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.01956066e-20 1.00000000e+00
1.06604646e-28 1.00000000e+00 1.22792762e-30 1.00000000e+00
1.00000000e+00 3.82713489e-31]

*** 総入力2 ***

-10.531007514643168

*** 出力1 ***

-10.531007514643168

出力合計: -10.531007514643168

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.72624133 -6.03318121 5.26502292 -3.9261877 6.17930305 -5.8497046
5.51291301 -3.67957216 -3.33020055 5.77106123]
[0.99727849 2.20698065 -1.92598288 1.43622742 -2.26043306 2.1398636
-2.01666283 1.3460137 1.21821108 -2.11109529]]

*** 偏微分_重み2 ***

[-6.53770417e+00 -6.53770417e+00 -6.66558598e-20 -6.53770417e+00
-6.96949637e-28 -6.53770417e+00 -8.02782751e-30 -6.53770417e+00
-6.53770417e+00 -2.50206757e-30]

*** 偏微分_バイアス1 ***

[1.54863442 3.42713317 -2.99078282 2.23026089 -3.51013731 3.32290975
-3.13159615 2.09017156 1.89171191 -3.27823658]

*** 偏微分_バイアス2 ***

-6.537704174491902

順伝播開始

*** 総入力1 ***

[60.80622762 133.1634341 -93.69400102 134.29273791 -130.09314169
160.44055383 -149.15069175 100.96467565 100.9411825 -143.55072376]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.03803843e-41 1.00000000e+00
3.17151253e-57 1.00000000e+00 1.67755821e-65 1.00000000e+00
1.00000000e+00 4.53641520e-63]

*** 総入力2 ***
-7.327532469155745

*** 出力1 ***
-7.327532469155745

出力合計: -7.327532469155745

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.16188559  0.47853001 -0.5041338   0.27678224 -0.59167748  0.46096185
    -0.52786964  0.25316844  0.21971558 -0.55258772]
  [ 0.56692963  1.67583075 -1.76549621  0.96930219 -2.0720776   1.61430637
    -1.84862006  0.88660573  0.76945253 -1.93518373]]
```

*** 偏微分_重み2 ***

```
[1.28070481e+00 1.28070481e+00 2.61012561e-41 1.28070481e+00
 4.06177134e-57 1.28070481e+00 2.14845686e-65 1.28070481e+00
 1.28070481e+00 5.80980875e-63]
```

*** 偏微分_バイアス1 ***

```
[-0.18813562 -0.55612449  0.58587997 -0.32166296  0.68761902 -0.53570762
 0.61346462 -0.29422014 -0.25534285  0.64219078]
```

*** 偏微分_バイアス2 ***

1.280704807034212

順伝播開始

*** 総入力1 ***

```
[ 18.43817284  29.2675494  -39.58492605  39.27622927 -56.21171288
 53.16830648 -56.32841252  22.32709863  30.46096191 -60.65793059]
```

*** 中間層出力1 ***

```
[9.99999990e-01 1.00000000e+00 6.43405915e-18 1.00000000e+00
 3.86868419e-25 1.00000000e+00 3.44255800e-25 1.00000000e+00
 1.00000000e+00 4.53518973e-27]
```

*** 総入力2 ***
-7.9550778161259945

*** 出力1 ***

-7.9550778161259945

出力合計: -7.9550778161259945

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.32830874 -6.39453149 6.47388728 -3.80376623 7.59808874 -6.16892812
6.77869363 -3.50052705 -3.07093872 7.09611343]
[2.21864581 6.09335018 -6.16896832 3.6246095 -7.24022009 5.87837269
-6.45941835 3.33565284 2.92629805 -6.76188773]]

*** 偏微分_重み2 ***

[-4.55731540e+00 -4.55731544e+00 -2.93220371e-17 -4.55731544e+00
-1.76308142e-24 -4.55731544e+00 -1.56888228e-24 -4.55731544e+00
-4.55731544e+00 -2.06682902e-26]

*** 偏微分_バイアス1 ***

[0.74979776 2.05926529 -2.08482066 1.22494725 -2.44685329 1.98661302
-2.18297908 1.12729351 0.98895087 -2.28519948]

*** 偏微分_バイアス2 ***

-4.55731544210661

順伝播開始

*** 総入力1 ***

[103.84126004 221.53489753 -161.06422701 227.06401045 -223.53235325
272.88607465 -255.44127034 169.04727777 172.36759687 -246.5425981]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.12381539e-070 1.00000000e+000
8.33935494e-098 1.00000000e+000 1.15682015e-111 1.00000000e+000
1.00000000e+000 8.47052034e-108]

*** 総入力2 ***

-5.721993261169315

*** 出力1 ***

-5.721993261169315

出力合計: -5.721993261169315

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 2.34978002  8.98179358 -10.55891693  4.75625273 -12.39249069
   8.61383425 -11.05605642  4.26166932  3.5610103  -11.57376843]
 [ 3.20670442 12.25729937 -14.4095725  6.49077637 -16.9118191
 11.75515159 -15.08801021  5.81582689  4.85964957 -15.7945229 ]]
```

*** 偏微分_重み2 ***

```
[8.98916603e+000 8.98916603e+000 1.01021631e-069 8.98916603e+000
 7.49638462e-097 8.98916603e+000 1.03988484e-110 8.98916603e+000
 8.98916603e+000 7.61429138e-107]
```

*** 偏微分_バイアス1 ***

```
[-0.91513855 -3.4980234  4.11224531 -1.85235646  4.82634365 -3.35471902
 4.30585982 -1.65973743 -1.38686079  4.50748644]
```

*** 偏微分_バイアス2 ***

8.989166032418934

順伝播開始

*** 総入力1 ***

```
[ 31.45419763  58.19225918 -57.40536432  68.33458521 -81.14602724
 86.75349059 -86.56684964  44.78797917  52.36680784 -88.73071966]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.17264632e-25 1.00000000e+00
 5.73757188e-36 1.00000000e+00 2.53801909e-38 1.00000000e+00
 1.00000000e+00 2.91566804e-39]
```

*** 総入力2 ***

-10.126684617054568

*** 出力1 ***

-10.126684617054568

出力合計: -10.126684617054568

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -3.37211388 -7.66847567  6.8402947  -4.93107893  8.02812344 -7.43010366
   7.16235241 -4.61067711 -4.15677504  7.49773745]
 [ 2.17031652  4.93548558 -4.40246241  3.17367754 -5.16695744  4.78206765
 -4.60974105  2.96746464  2.67533004 -4.82559724]]
```

*** 偏微分_重み2 ***

[-4.89925568e+00 -4.89925568e+00 -5.74509413e-25 -4.89925568e+00
-2.81098316e-35 -4.89925568e+00 -1.24344044e-37 -4.89925568e+00
-4.89925568e+00 -1.42846032e-38]

*** 偏微分_バイアス1 ***

[1.10488515 2.51260342 -2.24124697 1.61568561 -2.6304433 2.43449998
-2.34677033 1.51070481 1.36198218 -2.45666044]

*** 偏微分_バイアス2 ***

-4.899255678862119

順伝播開始

*** 総入力1 ***

[-26.57108022 -67.76206613 32.20449962 -56.94361508 41.56611678
-63.99582556 54.14811304 -50.54233185 -43.35278863 45.86678204]

*** 中間層出力1 ***

[2.88620040e-12 3.72656411e-30 1.00000000e+00 1.86081069e-25
1.00000000e+00 1.61051990e-28 1.00000000e+00 1.12135772e-22
1.48635696e-19 1.00000000e+00]

*** 総入力2 ***

9.057994950197648

*** 出力1 ***

9.057994950197648

出力合計: 9.057994950197648

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.72512147 7.67800189 -4.87721095 4.52230892 -5.72414688
7.40320472 -5.10684191 4.15294712 3.62968517 -5.3459754]
[-5.72510701 -16.13043051 10.24635231 -9.50075174 12.0256487
-15.55311929 10.72877549 -8.72477317 -7.62547147 11.23116222]]

*** 偏微分_重み2 ***

[1.90011910e-11 2.45336936e-29 6.58346212e+00 1.22505767e-24
6.58346212e+00 1.06027968e-27 6.58346212e+00 7.38241605e-22
9.78537475e-19 6.58346212e+00]

*** 偏微分_バイアス1 ***

[-1.32342137 -3.72872618 2.36855687 -2.19620311 2.77986078 -3.59527435
2.48007429 -2.01682714 -1.76271148 2.5962065]

*** 偏微分_バイアス2 ***

6.583462116888952

順伝播開始

*** 総入力1 ***

[82.10406134 172.57354335 -132.90101743 179.43466748 -184.45625695
218.36541631 -207.57201124 131.19779158 136.45745312 -202.62474631]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.91346926e-58 1.00000000e+00
7.79229623e-81 1.00000000e+00 7.12231076e-91 1.00000000e+00
1.00000000e+00 1.00274563e-88]

*** 総入力2 ***

-8.186891682595718

*** 出力1 ***

-8.186891682595718

出力合計: -8.186891682595718

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.75248854 4.93761855 -3.79396134 2.90823533 -4.67456431 4.76090022
-4.03272049 2.67070378 2.33420114 -4.28135992]
[0.85128833 2.39849617 -1.84295357 1.41270356 -2.27071501 2.31265352
-1.95893314 1.2973203 1.13386088 -2.07971216]]

*** 偏微分_重み2 ***

[3.70278286e+00 3.70278286e+00 7.08516117e-58 3.70278286e+00
2.88531809e-80 3.70278286e+00 2.63723702e-90 3.70278286e+00
3.70278286e+00 3.71294934e-88]

*** 偏微分_バイアス1 ***

[-0.58538543 -1.64931747 1.26730056 -0.97144065 1.56144921 -1.59028808
1.3470535 -0.89209775 -0.77969545 1.43010677]

*** 偏微分_バイアス2 ***

3. 702782857043985

順伝播開始

*** 総入力1 ***

[11.05267859 21.58960734 -23.06707717 24.91369782 -32.75972476
32.84371584 -33.13966967 15.52093349 18.27547197 -35.32398237]

*** 中間層出力1 ***

[9.99984156e-01 1.00000000e+00 9.59612000e-11 1.00000000e+00
5.92423539e-15 1.00000000e+00 4.05157918e-15 9.99999818e-01
9.99999988e-01 4.56025761e-16]

*** 総入力2 ***

-10.001238149122829

*** 出力1 ***

-10.001238149122829

出力合計: -10.001238149122829

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.99023157 -4.72565737 3.25831442 -2.98279075 4.01459027 -4.57388886
3.46336457 -2.77879511 -2.48980106 3.67690008]
[1.31624002 3.1253144 -2.15488686 1.97266923 -2.65505003 3.02494226
-2.29049682 1.83775667 1.6466304 -2.43171856]]

*** 偏微分_重み2 ***

[-8.00684006e+00 -8.00696692e+00 -7.68358154e-10 -8.00696692e+00
-4.74351568e-14 -8.00696692e+00 -3.24408605e-14 -8.00696547e+00
-8.00696683e+00 -3.65138318e-15]

*** 偏微分_バイアス1 ***

[1.67390203 3.97455633 -2.74043443 2.50870279 -3.37650699 3.84691007
-2.9128937 2.33713044 2.09406941 -3.09248964]

*** 偏微分_バイアス2 ***

-8.006966923320569

順伝播開始

*** 総入力1 ***

```
[ 37.78423226  66.12351539 -70.10373066  81.61367261 -99.66926895
105.64115888 -105.45651476  51.26654491  63.3311599 -109.2087623 ]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 3.58374100e-31 1.00000000e+00
5.17829131e-44 1.00000000e+00 1.58787956e-46 1.00000000e+00
1.00000000e+00 3.72595116e-48]
```

*** 総入力2 ***

-6.077850479274347

*** 出力1 ***

-6.077850479274347

出力合計: -6.077850479274347

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.20184138  0.7884984 -0.6987996  0.41471173 -0.86099551  0.75594912
-0.74277601  0.37096147  0.30898191 -0.78857225]
[-0.16220774 -0.63366859  0.56158308 -0.33327879  0.69193014 -0.6075107
0.59692426 -0.29811935 -0.24831011  0.63372793]]
```

*** 偏微分_重み2 ***

```
[4.36509348e-01 4.36509348e-01 1.56433645e-31 4.36509348e-01
2.26037256e-44 4.36509348e-01 6.93124271e-47 4.36509348e-01
4.36509348e-01 1.62641251e-48]
```

*** 偏微分_バイアス1 ***

```
[-0.04315215 -0.16857497  0.14939805 -0.08866222  0.1840743 -0.16161618
0.15879987 -0.07930875 -0.06605799  0.16859076]
```

*** 偏微分_バイアス2 ***

0.4365093483378244

順伝播開始

*** 総入力1 ***

```
[ 18.72805887  26.89410213 -40.22929126  40.36943714 -58.21278091
55.71198258 -58.19959716  21.01913868  31.61208208 -63.46225443]
```

*** 中間層出力1 ***

```
[9.99999993e-01 1.00000000e+00 3.37785338e-18 1.00000000e+00
```


5. 23010580e-26 1. 00000000e+00 5. 29951476e-26 9. 99999999e-01
1. 00000000e+00 2. 74595295e-28]

*** 総入力2 ***

-6. 291740055323365

*** 出力1 ***

-6. 291740055323365

出力合計: -6. 291740055323365

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1. 03058144 -3. 85438819 3. 36359229 -2. 05520862 4. 14430382 -3. 69771596
3. 57526773 -1. 84462173 -1. 54629017 3. 79570268]
[1. 04869218 3. 92212258 -3. 42270177 2. 09132546 -4. 21713299 3. 7626971
-3. 63809704 1. 87703785 1. 57346362 -3. 86240576]]

*** 偏微分_重み2 ***

[-2. 50228076e+00 -2. 50228078e+00 -8. 45233759e-18 -2. 50228078e+00
-1. 30871932e-25 -2. 50228078e+00 -1. 32608739e-25 -2. 50228078e+00
-2. 50228078e+00 -6. 87114529e-28]

*** 偏微分_バイアス1 ***

[0. 26240155 0. 98138525 -0. 85642122 0. 52328705 -1. 05520213 0. 94149414
-0. 91031698 0. 46966845 0. 39370875 -0. 96644303]

*** 偏微分_バイアス2 ***

-2. 5022807776671483

順伝播開始

*** 総入力1 ***

[111. 97328906 234. 20492494 -180. 13269132 244. 08769883 -249. 94639095
296. 88556597 -281. 99348138 178. 56197584 186. 18652248 -274. 77694757]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 5. 87984868e-079 1. 00000000e+000
2. 81618798e-109 1. 00000000e+000 3. 40241360e-123 1. 00000000e+000
1. 00000000e+000 4. 63327328e-120]

*** 総入力2 ***

-5. 065622480321721

*** 出力1 ***

-5.065622480321721

出力合計: -5.065622480321721

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3.28204403 16.67238027 -15.94996957  8.14076974 -19.65206068
 15.92944917 -16.95372285  7.14217827  5.72750645 -17.99901324]
 [ 1.38591013  7.04025313 -6.73520046  3.43760631 -8.29848405
  6.72653529 -7.15905578  3.01593066  2.41855659 -7.600451  ]]
```

*** 偏微分_重み2 ***

```
[1.10899654e+001 1.10899654e+001 6.52073184e-078 1.10899654e+001
 3.12314273e-108 1.10899654e+001 3.77326491e-122 1.10899654e+001
 1.10899654e+001 5.13828404e-119]
```

*** 偏微分_バイアス1 ***

```
[-0.78102713 -3.96752179  3.79560992 -1.93725676  4.67659553 -3.79072668
 4.03447281 -1.69962222 -1.36297315  4.28322028]
```

*** 偏微分_バイアス2 ***

11.089965409121476

順伝播開始

*** 総入力1 ***

```
[-0.12626715  5.13080729 -2.5084155  1.79852555 -3.29655949  2.13443746
 -2.20403049  2.07245674 -0.46457259 -2.90683409]
```

*** 中間層出力1 ***

```
[0.46847509 0.99412296 0.07527032 0.85796936 0.03568941 0.89420554
 0.09938913 0.88819716 0.38590164 0.05181676]
```

*** 総入力2 ***

-7.95646730537657

*** 出力1 ***

-7.95646730537657

出力合計: -7.95646730537657

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.5983842  3.04528201 -2.03370336  2.07139175 -2.50849101  3.0826965
 -2.15941318  1.91189946  2.00901014 -2.29667715]
 [-2.42532258 -4.62078593  3.08585801 -3.14304483  3.8062813  -4.67755714
  3.27660493 -2.90103777 -3.04838953  3.48488365]]
```

*** 偏微分_重み2 ***

```
[-3.7152029  -7.88380984 -0.59692508 -6.80405498 -0.2830319  -7.091423
 -0.7881973  -7.04377404 -3.06036102 -0.41092854]
```

*** 偏微分_バイアス1 ***

```
[ 2.13022756  4.05856343 -2.710394   2.76062276 -3.3431616  4.10842714
 -2.87793227  2.54806129  2.67748441 -3.0608692 ]
```

*** 偏微分_バイアス2 ***

-7.93041724116133

順伝播開始

*** 総入力1 ***

```
[-16.04397837 -45.83026213  14.9754805  -35.55060205  18.2972087
 -36.21179449  29.07026158 -34.80083545 -26.49131163  20.90645401]
```

*** 中間層出力1 ***

```
[1.07693299e-07 1.24787204e-20 9.99999687e-01 3.63554647e-16
 9.99999989e-01 1.87679775e-16 1.00000000e+00 7.69465583e-16
 3.12586012e-12 9.99999999e-01]
```

*** 総入力2 ***

7.1240469618897535

*** 出力1 ***

7.1240469618897535

出力合計: 7.1240469618897535

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3.39462441  7.93515161 -4.30728082  4.613827  -5.2103344
  7.83570821 -4.6111925  4.12559283  4.60868874 -4.80448456]
 [-5.87675131 -13.73728194  7.45673605 -7.98742676  9.02009642
 -13.56512618  7.98286593 -7.14219901 -7.97853144  8.31749187]]
```

*** 偏微分_重み2 ***

[6.36350924e-07 7.37357417e-20 5.90891665e+00 2.14821478e-15
5.90891843e+00 1.10898449e-15 5.90891850e+00 4.54670942e-15
1.84704527e-11 5.90891849e+00]

*** 偏微分_バイアス1 ***

[-1.29173946 -3.01952358 1.63902804 -1.75567653 1.98266251 -2.98168288
1.75467403 -1.56989122 -1.75372129 1.8282265]

*** 偏微分_バイアス2 ***

5.908918498246747

順伝播開始

*** 総入力1 ***

[105.75769083 232.35491949 -170.82398384 233.32622838 -235.35301586
281.88406035 -267.15405406 174.97466683 176.14188897 -257.88478438]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 6.48763549e-075 1.00000000e+000
6.13033082e-103 1.00000000e+000 9.47258487e-117 1.00000000e+000
1.00000000e+000 1.00475731e-112]

*** 総入力2 ***

-7.866296858384154

*** 出力1 ***

-7.866296858384154

出力合計: -7.866296858384154

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.61762594 6.11886769 -3.7956553 3.55776403 -4.92152913 6.04218598
-4.17455462 3.18128222 3.55380187 -4.41553968]
[4.98198707 11.64571271 -7.22406717 6.77130146 -9.36688245 11.49976852
-7.94520592 6.05476382 6.7637605 -8.40385985]]

*** 偏微分_重み2 ***

[6.98022515e+000 6.98022515e+000 4.52851564e-074 6.98022515e+000
4.27910894e-102 6.98022515e+000 6.61207751e-116 6.98022515e+000
6.98022515e+000 7.01343227e-112]

*** 偏微分_バイアス1 ***

[-1.20006908 -2.80523805 1.74014495 -1.63108201 2.25630975 -2.77008278
1.91385401 -1.45848127 -1.62926553 2.02433531]

*** 偏微分_バイアス2 ***

6.980225146521733

順伝播開始

*** 総入力1 ***

[33.53673149 73.28711214 -57.86192922 74.08294101 -80.12777444
91.81475255 -87.82336584 53.90782198 55.57846222 -87.0253457]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 7.42819723e-26 1.00000000e+00
1.58836283e-35 1.00000000e+00 7.22431763e-39 1.00000000e+00
1.00000000e+00 1.60462139e-38]

*** 総入力2 ***

-11.2866071801798

*** 出力1 ***

-11.2866071801798

出力合計: -11.2866071801798

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.95755283 -3.63729759 1.82099168 -2.40859053 2.36113738 -3.60050901
2.00277123 -2.22797079 -2.40668965 2.11838546]
[-1.25211958 -2.32654335 1.16477027 -1.54061914 1.51026644 -2.30301208
1.28104285 -1.42508841 -1.53940327 1.35499378]]

*** 偏微分_重み2 ***

[-6.41066240e+00 -6.41066240e+00 -4.76196647e-25 -6.41066240e+00
-1.01824579e-34 -6.41066240e+00 -4.63126614e-38 -6.41066240e+00
-6.41066240e+00 -1.02866860e-37]

*** 偏微分_バイアス1 ***

[1.71800502 3.19219765 -1.59815501 2.11384876 -2.07220251 3.15991092
-1.75769 1.95533166 2.1121805 -1.8591564]

*** 偏微分_バイアス2 ***

-6.410662397726977

順伝播開始

*** 総入力1 ***

[-34.81180429 -63.27189062 54.77595324 -71.19477719 76.1014384
-89.88832443 85.11451925 -49.59726237 -57.74533022 83.70006222]

*** 中間層出力1 ***

[7.61071555e-16 3.32175075e-28 1.00000000e+00 1.20365251e-31
1.00000000e+00 9.16213551e-40 1.00000000e+00 2.88524460e-22
8.34683310e-26 1.00000000e+00]

*** 総入力2 ***

5.0160567868576615

*** 出力1 ***

5.0160567868576615

出力合計: 5.0160567868576615

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.0985263 -0.22456485 0.08450994 -0.13236962 0.10957742 -0.22180444
0.0929461 -0.11881694 -0.13222699 0.09831161]
[0.06923182 0.15779577 -0.05938289 0.09301262 -0.07699715 0.1558561
-0.06531076 0.08348951 0.0929124 -0.06908096]]

*** 偏微分_重み2 ***

[1.07308378e-16 4.68355025e-29 1.40996438e-01 1.69710717e-32
1.40996438e-01 1.29182847e-40 1.40996438e-01 4.06809212e-23
1.17687374e-26 1.40996438e-01]

*** 偏微分_バイアス1 ***

[-0.03222837 -0.07345612 0.02764356 -0.04329867 0.03584324 -0.07255318
0.03040307 -0.03886553 -0.04325201 0.03215815]

*** 偏微分_バイアス2 ***

0.14099643811461338

順伝播開始

*** 総入力1 ***

```
[-18.44499656 -41.68917447 23.1339954 -39.43947097 30.98066882  
-44.47269193 39.88767455 -32.81249035 -30.76554184 34.7591697 ]
```

*** 中間層出力1 ***

```
[9.75977421e-09 7.84551707e-19 1.00000000e+00 7.44141263e-18  
1.00000000e+00 4.85015146e-20 1.00000000e+00 5.61974363e-15  
4.35206074e-14 1.00000000e+00]
```

*** 総入力2 ***

4.9667080245054365

*** 出力1 ***

4.9667080245054365

出力合計: 4.9667080245054365

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.31540907 0.7188922 -0.26786125 0.42375059 -0.34810898 0.7100554  
-0.29486766 0.38036482 0.42329399 -0.3120441 ]  
[-1.16079262 -2.64572217 0.98580351 -1.55951939 1.28113734 -2.6132003  
1.08519456 -1.39984777 -1.55783898 1.14840861]]
```

*** 偏微分_重み2 ***

```
[2.80165511e-08 2.25214564e-18 2.87061467e+00 2.13614283e-17  
2.87061467e+00 1.39229159e-19 2.87061467e+00 1.61321185e-14  
1.24930894e-13 2.87061467e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.65615305 -1.49552869 0.55723819 -0.88153851 0.72417946 -1.47714528  
0.61342027 -0.79128206 -0.88058864 0.64915282]
```

*** 偏微分_バイアス2 ***

2.870614673646413

順伝播開始

*** 総入力1 ***

```
[-10.06804638 -5.05226056 17.29706984 -15.73693533 25.05808637  
-25.32400734 24.69179033 -5.57245413 -16.40071729 27.50669473]
```

*** 中間層出力1 ***

```
[4.24115939e-05 6.35422675e-03 9.99999969e-01 1.46398208e-07
```

1. 00000000e+00 1. 00443851e-11 1. 00000000e+00 3. 78674654e-03
7. 53804885e-08 1. 00000000e+00]

*** 総入力2 ***

3. 944536909054122

*** 出力1 ***

3. 944536909054122

出力合計: 3. 944536909054122

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1. 87062803 -4. 26356269 1. 26530594 -2. 51317991 1. 74123913 -4. 21119642
1. 42547553 -2. 25585952 -2. 51047191 1. 52734555]
[2. 37550033 5. 41427499 -1. 60680511 3. 19147345 -2. 21119007 5. 34777535
-1. 81020359 2. 86470369 3. 18803458 -1. 93956778]]

*** 偏微分_重み2 ***

[9. 85545793e-05 1. 47657300e-02 2. 32376497e+00 3. 40195038e-07
2. 32376504e+00 2. 33407909e-11 2. 32376504e+00 8. 79950923e-03
1. 75166544e-07 2. 32376504e+00]

*** 偏微分_バイアス1 ***

[-0. 53115646 -1. 21061954 0. 35927796 -0. 71360618 0. 49441706 -1. 19575037
0. 40475739 -0. 64054121 -0. 71283726 0. 43368293]

*** 偏微分_バイアス2 ***

2. 3237650442241957

順伝播開始

*** 総入力1 ***

[-35. 19956175 -76. 12014983 50. 36555087 -75. 3735114 68. 66683378
-88. 91995111 82. 02876235 -58. 88779465 -58. 59093645 75. 99347345]

*** 中間層出力1 ***

[5. 16445581e-16 8. 73854176e-34 1. 00000000e+00 1. 84374101e-33
1. 00000000e+00 2. 41299210e-39 1. 00000000e+00 2. 66290537e-26
3. 58327064e-26 1. 00000000e+00]

*** 総入力2 ***

3. 1486751372897

*** 出力1 ***

3. 1486751372897

出力合計: 3. 1486751372897

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0. 10148176  0. 23141401 -0. 05444356  0. 13633923 -0. 08026279  0. 2284561
    -0. 06313271  0. 12244849  0. 13619232 -0. 06865913]
 [ 0. 51559275  1. 17573238 -0. 27660838  0. 69269121 -0. 40778671  1. 16070428
    -0. 32075487  0. 62211726  0. 69194481 -0. 34883263]]
```

*** 偏微分_重み2 ***

```
[-6. 76755365e-16 -1. 14510710e-33 -1. 31040983e+00 -2. 41605635e-33
 -1. 31040983e+00 -3. 16200856e-39 -1. 31040983e+00 -3. 48949737e-26
 -4. 69555307e-26 -1. 31040983e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0. 29953024  0. 68303403 -0. 16069383  0. 40241443 -0. 23690102  0. 67430356
 -0. 18634044  0. 36141495  0. 40198081 -0. 20265203]
```

*** 偏微分_バイアス2 ***

-1. 3104098291816375

順伝播開始

*** 総入力1 ***

```
[ 34. 27516167  74. 68322182 -59. 3689547  75. 9141944 -82. 26103431
 94. 07698688 -90. 23265637  55. 05685468  56. 94422817 -89. 43060506]
```

*** 中間層出力1 ***

```
[1. 00000000e+00 1. 00000000e+00 1. 64585124e-26 1. 00000000e+00
 1. 88142419e-36 1. 00000000e+00 6. 49314724e-40 1. 00000000e+00
 1. 00000000e+00 1. 44804383e-39]
```

*** 総入力2 ***

-8. 428786751775514

*** 出力1 ***

-8. 428786751775514

出力合計: -8. 428786751775514

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.753746   -1.71880535  0.74995223 -1.01264657  1.06000854 -1.69683575
  0.85429796 -0.90947437 -1.01155541  0.92066324]
 [-0.40545138 -0.9245714   0.40341065 -0.54471791  0.57019463 -0.91275362
  0.45953979 -0.48922002 -0.54413096  0.49523868]]
```

*** 偏微分_重み2 ***

```
[-3.39507511e+00 -3.39507511e+00 -5.58778858e-26 -3.39507511e+00
 -6.38757645e-36 -3.39507511e+00 -2.20447226e-39 -3.39507511e+00
 -3.39507511e+00 -4.91621758e-39]
```

*** 偏微分_バイアス1 ***

```
[ 0.61031322  1.39172828 -0.60724138  0.81994675 -0.85829606  1.37393935
 -0.69173082  0.73640753  0.81906324 -0.74546724]
```

*** 偏微分_バイアス2 ***

-3.3950751093589826

順伝播開始

*** 総入力1 ***

```
[ 11.833479   21.64696073 -26.05352514  26.17868667 -36.91634779
 35.8229592  -36.68187122  15.3319148   19.67659166 -39.6604923 ]
```

*** 中間層出力1 ***

```
[9.99992743e-01 1.00000000e+00 4.84281408e-12 1.00000000e+00
 9.27756198e-17 1.00000000e+00 1.17291284e-16 9.99999781e-01
 9.99999997e-01 5.96577740e-18]
```

*** 総入力2 ***

-6.765194843873154

*** 出力1 ***

-6.765194843873154

出力合計: -6.765194843873154

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.04016217 -2.8396714   1.39840994 -1.5229216   1.9765612  -2.79870546
  1.5929798   -1.33054012 -1.52088696  1.71672885]
```

```
[ 0.89415186  2.44105922 -1.20211144  1.30914506 -1.69910608  2.40584377  
-1.36936901  1.14376868  1.30739603 -1.47574708]]
```

*** 偏微分_重み2 ***

```
[-4.57775423e+00 -4.57778746e+00 -2.21693736e-11 -4.57778746e+00  
-4.24707069e-16 -4.57778746e+00 -5.36934570e-16 -4.57778645e+00  
-4.57778744e+00 -2.73100609e-17]
```

*** 偏微分_バイアス1 ***

```
[ 0.60902364  1.66265132 -0.8187807  0.89168331 -1.15729309  1.63866542  
-0.93270297  0.77904235  0.89049201 -1.00515908]
```

*** 偏微分_バイアス2 ***

-4.577787457683053

順伝播開始

*** 総入力1 ***

```
[-54.21550832 -107.89053474  84.85477559 -114.81293599  117.14480752  
-140.75994008  133.4790566  -83.67228221  -90.28190457  128.99811173]
```

*** 中間層出力1 ***

```
[2.84776340e-24  1.39231055e-47  1.00000000e+00  1.37206741e-50  
1.00000000e+00  7.39153690e-62  1.00000000e+00  4.58764230e-37  
6.18111796e-40  1.00000000e+00]
```

*** 総入力2 ***

4.165418957197768

*** 出力1 ***

4.165418957197768

出力合計: 4.165418957197768

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.87009169  3.72951246 -1.37435283  1.63719647 -1.94255805  3.66441755  
-1.56557547  1.33150217  1.63396343 -1.68719564]  
[-0.17822846 -0.76394852  0.28152066 -0.33536121  0.39791109 -0.75061457  
0.32069046 -0.27274319 -0.33469896  0.34560298]]
```

*** 偏微分_重み2 ***

```
[-9.57458379e-24 -4.68114522e-47 -3.36214160e+00 -4.61308490e-50
```

-3.36214160e+00 -2.48513937e-61 -3.36214160e+00 -1.54243030e-36
-2.07817938e-39 -3.36214160e+00]

*** 偏微分_バイアス1 ***

[0.29940884 1.28336933 -0.47293106 0.56337866 -0.66845719 1.2609694
-0.53873303 0.45818564 0.56226613 -0.58058397]

*** 偏微分_バイアス2 ***

-3.36214159526154

順伝播開始

*** 総入力1 ***

[116.40752305 247.22967065 -192.11715669 253.71963896 -265.5111095
311.9890219 -296.91594345 185.76297003 193.72428338 -290.21767007]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.66926410e-084 1.00000000e+000
4.89767834e-116 1.00000000e+000 1.12471936e-129 1.00000000e+000
1.00000000e+000 9.12152256e-127]

*** 総入力2 ***

-4.286736579240118

*** 出力1 ***

-4.286736579240118

出力合計: -4.286736579240118

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.85135426 16.50823002 -13.07129512 7.24684961 -17.13773106
16.2200954 -14.43980524 5.89373126 7.23253895 -15.31019613]
[1.35782029 5.82008515 -4.60837113 2.55492453 -6.04201989
5.71850139 -5.09084838 2.07787375 2.54987921 -5.39771042]]

*** 偏微分_重み2 ***

[1.22907402e+001 1.22907402e+001 4.50979718e-083 1.22907402e+001
6.01960921e-115 1.22907402e+001 1.38236335e-128 1.22907402e+001
1.22907402e+001 1.12110264e-125]

*** 偏微分_バイアス1 ***

[-0.86078862 -3.68963631 2.9214716 -1.61969148 3.83033159 -3.62523741

3. 2273375 -1. 31726568 -1. 616493 3. 42187233]

*** 偏微分_バイアス2 ***

12. 290740214884815

順伝播開始

*** 総入力1 ***

[-62. 84288865 -138. 96104452 93. 72029654 -135. 68589991 128. 01762196
-162. 01141266 149. 91208884 -105. 37408665 -104. 5865356 140. 64473593]

*** 中間層出力1 ***

[5. 10129259e-28 4. 46668334e-61 1. 00000000e+00 1. 18130597e-59
1. 00000000e+00 4. 35850430e-71 1. 00000000e+00 1. 72431114e-46
3. 79004799e-46 1. 00000000e+00]

*** 総入力2 ***

4. 48181670049737

*** 出力1 ***

4. 48181670049737

出力合計: 4. 48181670049737

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 57293663 1. 1242434 -0. 35214795 0. 72083724 -0. 46169999 1. 11169287
-0. 38901637 0. 66189826 0. 72021389 -0. 41246518]
[3. 52452449 6. 91598897 -2. 16630253 4. 43436212 -2. 84023196 6. 83878206
-2. 39310537 4. 07178822 4. 43052752 -2. 53735504]]

*** 偏微分_重み2 ***

[-1. 82481504e-27 -1. 59780502e-60 -3. 57716208e+00 -4. 22572291e-59
-3. 57716208e+00 -1. 55910763e-70 -3. 57716208e+00 -6. 16814041e-46
-1. 35576159e-45 -3. 57716208e+00]

*** 偏微分_バイアス1 ***

[1. 08796153 2. 13484967 -0. 66870121 1. 36881313 -0. 87673191 2. 11101719
-0. 73871144 1. 25689265 1. 36762945 -0. 7832389]

*** 偏微分_バイアス2 ***

-3. 5771620767640675

順伝播開始

*** 総入力1 ***

[53.17399487 127.42821104 -83.13407988 118.45564465 -113.56357681
141.17438524 -130.23267911 93.3716801 87.88191226 -123.56823805]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 7.85828632e-37 1.00000000e+00
4.78591792e-50 1.00000000e+00 2.75845623e-57 1.00000000e+00
1.00000000e+00 2.16269899e-54]

*** 総入力2 ***

-10.058797939160192

*** 出力1 ***

-10.058797939160192

出力合計: -10.058797939160192

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.75052703 1.47271971 -0.94226482 0.94427168 -1.17429288 1.45627895
-1.02035107 0.86706367 0.94345512 -1.07001498]
[-3.74409787 -7.34684626 4.70060578 -4.71061722 5.85810672 -7.26482946
5.09014881 -4.32545543 -4.70654373 5.33790342]]

*** 偏微分_重み2 ***

[-3.18499497e+00 -3.18499497e+00 -2.50286024e-36 -3.18499497e+00
-1.52431245e-49 -3.18499497e+00 -8.78566921e-57 -3.18499497e+00
-3.18499497e+00 -6.88818541e-54]

*** 偏微分_バイアス1 ***

[0.76182205 1.49488332 -0.95644538 0.95848244 -1.19196533 1.47819513
-1.03570679 0.88011249 0.95765359 -1.08611811]

*** 偏微分_バイアス2 ***

-3.184994967628678

順伝播開始

*** 総入力1 ***

[-56.51389982 -108.00258333 93.70777047 -117.49562593 129.78608896
-149.69641129 143.21412799 -82.15392348 -94.21083828 141.59113172]

*** 中間層出力1 ***

[2.85973084e-25 1.24472677e-47 1.00000000e+00 9.38205578e-52
1.00000000e+00 9.72018695e-66 1.00000000e+00 2.09413350e-36
1.21549394e-41 1.00000000e+00]

*** 総入力2 ***

5.956773075098802

*** 出力1 ***

5.956773075098802

出力合計: 5.956773075098802

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.28225328 4.97111023 -2.16983807 3.00360043 -2.70414997 4.90989822
-2.34965431 2.71614074 3.00056024 -2.46401987]
[-1.42850225 -3.11150484 1.3581396 -1.88000605 1.69257476 -3.07319118
1.47068973 -1.70008 -1.87810314 1.54227313]]

*** 偏微分_重み2 ***

[-5.76191795e-25 -2.50793305e-47 -2.01484625e+00 -1.89033999e-51
-2.01484625e+00 -1.95846822e-65 -2.01484625e+00 -4.21935702e-36
-2.44903341e-41 -2.01484625e+00]

*** 偏微分_バイアス1 ***

[0.50049497 1.09015755 -0.47584247 0.65868539 -0.59301632 1.07673384
-0.51527592 0.59564588 0.65801868 -0.54035613]

*** 偏微分_バイアス2 ***

-2.0148462462260497

順伝播開始

*** 総入力1 ***

[47.55176125 106.54597995 -80.23456002 105.29069263 -110.68943272
129.64782056 -122.97039937 78.18990049 79.21207794 -120.27864399]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.42749082e-35 1.00000000e+00
8.47598473e-49 1.00000000e+00 3.93218659e-54 1.00000000e+00
1.00000000e+00 5.80294729e-53]

*** 総入力2 ***
-8.357111167786316

*** 出力1 ***
-8.357111167786316

出力合計: -8.357111167786316

誤差逆伝播開始

*** 偏微分_重み1 ***
[[-0.35143639 -0.76548429 0.60365041 -0.46251418 0.73667686 -0.75605846
0.64841887 -0.41824924 -0.46204603 0.6768922]
[-0.54973614 -1.19741265 0.94426319 -0.72349012 1.15235049 -1.18266825
1.01429247 -0.65424847 -0.72275782 1.05883203]]

*** 偏微分_重み2 ***
[-1.64173781e+00 -1.64173781e+00 -2.34356565e-35 -1.64173781e+00
-1.39153446e-48 -1.64173781e+00 -6.45561940e-54 -1.64173781e+00
-1.64173781e+00 -9.52691797e-53]

*** 偏微分_バイアス1 ***
[0.32072401 0.69858784 -0.55089679 0.42209459 -0.67229792 0.68998575
-0.59175288 0.38169801 0.42166735 -0.61773791]

*** 偏微分_バイアス2 ***
-1.6417378097479105

順伝播開始

*** 総入力1 ***
[25.23404359 61.42064669 -42.55238562 58.07120324 -58.57151584
69.70061158 -65.86644531 44.63900065 42.14625395 -63.67614549]

*** 中間層出力1 ***
[1.00000000e+00 1.00000000e+00 3.30928167e-19 1.00000000e+00
3.65354006e-26 1.00000000e+00 2.48065436e-29 1.00000000e+00
1.00000000e+00 2.21718221e-28]

*** 総入力2 ***
-7.552659641000184

*** 出力1 ***
-7.552659641000184

出力合計: -7.552659641000184

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.22260097  0.5191604 -0.43236115  0.30215979 -0.52764058  0.51240921
    -0.46442629  0.27045529  0.30182448 -0.48482016]
  [-1.56235056 -3.64378716  3.03457658 -2.12074336  3.70330627 -3.59640312
    3.25962952 -1.89822162 -2.11838996  3.40276622]]
```

*** 偏微分_重み2 ***

```
[-3.97465483e+00 -3.97465483e+00 -1.31532524e-18 -3.97465483e+00
 -1.45215607e-25 -3.97465483e+00 -9.85974485e-29 -3.97465483e+00
 -3.97465483e+00 -8.81253398e-28]
```

*** 偏微分_バイアス1 ***

```
[ 0.68666711  1.6014772 -1.33372367  0.93208576 -1.62763638  1.58065149
 -1.43263646  0.83428546  0.93105142 -1.49554633]
```

*** 偏微分_バイアス2 ***

-3.974654829446763

順伝播開始

*** 総入力1 ***

```
[ 94.55704371 209.20635505 -154.99050407 207.81844285 -213.64917545
 254.48257162 -240.08493395 155.18802973 157.6394627 -232.95218382]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 4.88066879e-068 1.00000000e+000
 1.63433860e-093 1.00000000e+000 5.40055009e-105 1.00000000e+000
 1.00000000e+000 6.76319669e-102]
```

*** 総入力2 ***

-5.605078774583984

*** 出力1 ***

-5.605078774583984

出力合計: -5.605078774583984

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.99695682  5.89010898 -5.67592035  3.0413836 -6.92672301  5.80148111
  -6.09686295  2.62517539  3.03698176 -6.36458811]
 [ 2.86421941  8.44813682 -8.14092776  4.3622325 -9.93494414  8.32101856
  -8.7446824  3.76526835  4.35591897 -9.12867849]]
```

*** 偏微分_重み2 ***

```
[7.54738029e+000 7.54738029e+000 3.68362634e-067 7.54738029e+000
 1.23349749e-092 7.54738029e+000 4.07600053e-104 7.54738029e+000
 7.54738029e+000 5.10444174e-101]
```

*** 偏微分_バイアス1 ***

```
[-0.8910356 -2.62814736 2.53257709 -1.35705542 3.09068115 -2.58860189
 2.7204003 -1.17134467 -1.35509133 2.8398584 ]
```

*** 偏微分_バイアス2 ***

7.547380293183413

順伝播開始

*** 総入力1 ***

```
[ 78.89586917 169.20387339 -134.59063151 171.08871135 -185.77281696
 214.42831961 -204.27918111 124.31156612 131.27135174 -201.47797249]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 3.53208720e-59 1.00000000e+00
 2.08877042e-81 1.00000000e+00 1.91725058e-89 1.00000000e+00
 1.00000000e+00 3.15666374e-88]
```

*** 総入力2 ***

-9.303295118243856

*** 出力1 ***

-9.303295118243856

出力合計: -9.303295118243856

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.36169226  2.77387216 -2.05885111  1.7405417 -2.51256017  2.7417238
  -2.21154144  1.5895687  1.738945 -2.30865455]
 [ 0.20212911  0.41175258 -0.30561511  0.25836538 -0.37296352  0.40698049
  -0.32828041  0.235955  0.25812837 -0.34269585]]
```

*** 偏微分_重み2 ***

[1.81876399e+00 1.81876399e+00 6.42403301e-59 1.81876399e+00
3.79898042e-81 1.81876399e+00 3.48702631e-89 1.81876399e+00
1.81876399e+00 5.74122634e-88]

*** 偏微分_バイアス1 ***

[-0.40364243 -0.82225077 0.61029918 -0.51594366 0.74479082 -0.81272112
0.65556073 -0.47119118 -0.51547035 0.68434768]

*** 偏微分_バイアス2 ***

1.8187639886288594

順伝播開始

*** 総入力1 ***

[61.86405894 135.19408687 -105.43475866 135.02125011 -145.37044274
168.37674121 -160.19681748 99.00744152 102.89814818 -157.58900173]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.62280416e-46 1.00000000e+00
7.35222661e-64 1.00000000e+00 2.67550735e-70 1.00000000e+00
1.00000000e+00 3.63049749e-69]

*** 総入力2 ***

-10.194489472671997

*** 出力1 ***

-10.194489472671997

出力合計: -10.194489472671997

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.80671221 -1.5585379 1.09610479 -1.00840658 1.33765342 -1.54142254
1.17739508 -0.92803058 -1.00755652 1.2290968]
[-0.41136809 -0.7947478 0.55893852 -0.51421843 0.68211182 -0.78602014
0.60039102 -0.47323216 -0.51378496 0.62675536]]

*** 偏微分_重み2 ***

[-1.51242528e+00 -1.51242528e+00 -2.45437004e-46 -1.51242528e+00
-1.11196934e-63 -1.51242528e+00 -4.04650495e-70 -1.51242528e+00
-1.51242528e+00 -5.49085618e-69]

*** 偏微分_バイアス1 ***

[0.37351403 0.72161518 -0.50750505 0.4669001 -0.61934395 0.71369063
-0.54514309 0.42968538 0.46650651 -0.56908139]

*** 偏微分_バイアス2 ***

-1.5124252800451963

順伝播開始

*** 総入力1 ***

[-39.24229974 -69.12838861 66.01818004 -78.23604888 91.53778527
-103.21818703 98.6798996 -52.40826233 -64.8424777 99.32776321]

*** 中間層出力1 ***

[9.06328768e-18 9.50434701e-31 1.00000000e+00 1.05321173e-34
1.00000000e+00 1.48905569e-45 1.00000000e+00 1.73532517e-23
6.90668650e-29 1.00000000e+00]

*** 総入力2 ***

6.505356415897851

*** 出力1 ***

6.505356415897851

出力合計: 6.505356415897851

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.32297821 -2.66942986 1.21413061 -1.68419455 1.48168859 -2.6387778
1.30417403 -1.54024841 -1.68267216 1.36144286]
[1.15630583 2.33312785 -1.06117114 1.47201515 -1.29502144 2.30633742
-1.13987065 1.34620374 1.47068456 -1.1899246]]

*** 偏微分_重み2 ***

[9.58211054e-18 1.00484181e-30 1.05724444e+00 1.11350225e-34
1.05724444e+00 1.57429586e-45 1.05724444e+00 1.83466289e-23
7.30205593e-29 1.05724444e+00]

*** 偏微分_バイアス1 ***

[-0.30401779 -0.61342973 0.27900483 -0.3870246 0.34048913 -0.60638595
0.29969663 -0.35394606 -0.38667476 0.31285689]

*** 偏微分_バイアス2 ***

1. 0572444436291955

順伝播開始

*** 総入力1 ***

[18.12565386 34.31187174 -38.27342277 38.92610341 -53.6742201
53.57391291 -53.91401322 23.90628026 30.15800849 -57.33566916]

*** 中間層出力1 ***

[9.99999987e-01 1.00000000e+00 2.38816148e-17 1.00000000e+00
4.89308082e-24 1.00000000e+00 3.84983007e-24 1.00000000e+00
1.00000000e+00 1.25728944e-25]

*** 総入力2 ***

-9.527408180998837

*** 出力1 ***

-9.527408180998837

出力合計: -9.527408180998837

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3.43211713 -6.92512985 4.81175715 -4.36919737 5.93400192 -6.84561118
5.18943514 -3.99576718 -4.36524795 5.42964342]
[2.92287805 5.89761633 -4.09781451 3.72091937 -5.05354663 5.82989622
-4.41945466 3.40289673 3.71755594 -4.62402214]]

*** 偏微分_重み2 ***

[-6.49947384e+00 -6.49947393e+00 -1.55217933e-16 -6.49947393e+00
-3.18024513e-23 -6.49947393e+00 -2.50218702e-23 -6.49947393e+00
-6.49947393e+00 -8.17171995e-25]

*** 偏微分_バイアス1 ***

[1.46984542 2.96577011 -2.06069285 1.8711613 -2.54130766 2.93171528
-2.22243798 1.71123533 1.86946991 -2.32531007]

*** 偏微分_バイアス2 ***

-6.499473932086466

順伝播開始

*** 総入力1 ***

[-55.76441658 -107.74143513 92.16719138 -116.61354786 127.64239508

-148.07762868 141.42854984 -81.92350465 -93.21987693 139.41042687]

*** 中間層出力1 ***

[6.05092254e-25 1.61617822e-47 1.00000000e+00 2.26662487e-51
1.00000000e+00 4.90572242e-65 1.00000000e+00 2.63678059e-36
3.27432545e-41 1.00000000e+00]

*** 総入力2 ***

6.590284035873686

*** 出力1 ***

6.590284035873686

出力合計: 6.590284035873686

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.9732737 2.61200204 -1.39620834 1.41289991 -1.72184561 2.57469628
-1.50579765 1.23770712 1.41104707 -1.57549793]
[-0.57057683 -1.53127311 0.81852014 -0.82830549 1.00942336 -1.50940279
0.88276632 -0.7255996 -0.82721927 0.92362776]]

*** 偏微分_重み2 ***

[-7.85018242e-25 -2.09675365e-47 -1.29735299e+00 -2.94061255e-51
-1.29735299e+00 -6.36445364e-65 -1.29735299e+00 -3.42083517e-36
-4.24795590e-41 -1.29735299e+00]

*** 偏微分_バイアス1 ***

[0.22550067 0.6051825 -0.32349165 0.32735897 -0.39893952 0.59653902
-0.34888272 0.28676804 0.32692968 -0.36503179]

*** 偏微分_バイアス2 ***

-1.2973529860682893

順伝播開始

*** 総入力1 ***

[34.40891996 76.62329084 -60.66913344 76.35507413 -83.84384944
95.48732456 -91.53968108 55.57668471 57.4026613 -90.73592285]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 4.48466622e-27 1.00000000e+00
3.86437129e-37 1.00000000e+00 1.75720177e-40 1.00000000e+00]

1. 00000000e+00 3. 92544953e-40]

*** 総入力2 ***

-6. 25185126688654

*** 出力1 ***

-6. 25185126688654

出力合計: -6. 25185126688654

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 19867206 -0. 5331818 0. 49379674 -0. 28841192 0. 60126895 -0. 52556666
0. 52996522 -0. 25265023 -0. 2880337 0. 55296886]
[-0. 13186563 -0. 35389149 0. 32775025 -0. 19142912 0. 39908333 -0. 34883706
0. 35175654 -0. 16769283 -0. 19117809 0. 36702486]]

*** 偏微分_重み2 ***

[-1. 25991910e+00 -1. 25991910e+00 -5. 65031663e-27 -1. 25991910e+00
-4. 86879519e-37 -1. 25991910e+00 -2. 21393207e-40 -1. 25991910e+00
-1. 25991910e+00 -4. 94574884e-40]

*** 偏微分_バイアス1 ***

[0. 17222739 0. 46221148 -0. 42806886 0. 25002223 -0. 52123575 0. 45560998
-0. 45942306 0. 21902067 0. 24969435 -0. 47936475]

*** 偏微分_バイアス2 ***

-1. 2599191000016061

順伝播開始

*** 総入力1 ***

[-51. 22248313 -106. 72732878 79. 3853955 -108. 34014858 108. 98340817
-133. 22369415 124. 46829179 -80. 8692467 -85. 26423133 119. 30642491]

*** 中間層出力1 ***

[5. 68012938e-23 4. 45563947e-47 1. 00000000e+00 8. 88119286e-48
1. 00000000e+00 1. 38574963e-58 1. 00000000e+00 7. 56715104e-36
9. 33716066e-38 1. 00000000e+00]

*** 総入力2 ***

7. 132551917997699

*** 出力1 ***

7.132551917997699

出力合計: 7.132551917997699

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.11419404 -0.33439878 0.20105081 -0.17326898 0.24480844 -0.3293858
 0.21577692 -0.14972738 -0.17302 0.22514292]
 [-0.02211302 -0.06475439 0.03893233 -0.03355254 0.04740574 -0.06378366
 0.04178395 -0.02899384 -0.03350432 0.04359763]]
```

*** 偏微分_重み2 ***

```
[2.14305436e-23 1.68106692e-47 3.77289710e-01 3.35078268e-48
 3.77289710e-01 5.22829074e-59 3.77289710e-01 2.85500822e-36
 3.52281463e-38 3.77289710e-01]
```

*** 偏微分_バイアス1 ***

```
[-0.05726027 -0.16767745 0.10081283 -0.0868822 0.1227542 -0.16516379
 0.10819693 -0.07507774 -0.08675735 0.11289332]
```

*** 偏微分_バイアス2 ***

0.3772897097752006

順伝播開始

*** 総入力1 ***

```
[ 11.57037869 21.09950663 -27.37106472 25.72390617 -38.77697439
 36.59426569 -37.89083555 14.29731909 19.59577802 -41.40121274]
```

*** 中間層出力1 ***

```
[9.99990558e-01 9.99999999e-01 1.29687354e-12 1.00000000e+00
 1.44335777e-17 1.00000000e+00 3.50121844e-17 9.99999382e-01
 9.99999997e-01 1.04636153e-18]
```

*** 総入力2 ***

-5.660894960168806

*** 出力1 ***

-5.660894960168806

出力合計: -5.660894960168806

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.8127617 -2.38003073 2.26861718 -1.23321473 2.77215484 -2.34435166
 2.43807673 -1.06566142 -1.23144268 2.54585528]
 [ 0.76342871 2.23556768 -2.13091671 1.15836109 -2.60389065 2.20205426
 -2.29009041 1.00097793 1.1566966 -2.39132702]]
```

*** 偏微分_重み2 ***

```
[-3.44305364e+00 -3.44308615e+00 -4.46524733e-12 -3.44308615e+00
 -4.96960516e-17 -3.44308615e+00 -1.20549967e-16 -3.44308402e+00
 -3.44308614e+00 -3.60271289e-18]
```

*** 偏微分_バイアス1 ***

```
[ 0.41095863 1.20342061 -1.14708631 0.6235533 -1.40169126 1.18538012
 -1.23277054 0.53883292 0.62265729 -1.28726687]
```

*** 偏微分_バイアス2 ***

-3.4430861485782494

順伝播開始

*** 総入力1 ***

```
[ 78.03364076 162.42408662 -136.05476153 169.19412966 -188.66108612
 214.24447359 -205.79077613 119.81655542 130.41431164 -204.86879974]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 8.16897994e-60 1.00000000e+00
 1.16287049e-82 1.00000000e+00 4.22864765e-90 1.00000000e+00
 1.00000000e+00 1.06318969e-89]
```

*** 総入力2 ***

-3.9737914001151817

*** 出力1 ***

-3.9737914001151817

出力合計: -3.9737914001151817

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.47026775 10.37009406 -11.43497108 4.58956491 -13.97305401
 10.19025363 -12.28913238 3.74501146 4.58063286 -12.83239047]
 [ -0.6406163 -2.6892839 2.96543922 -1.19021515 3.62364208
```

-2. 64264576 3. 18694948 -0. 9711965 -1. 18789879 3. 32783299]]

*** 偏微分_重み2 ***

[7. 45318144e+00 7. 45318144e+00 6. 08848897e-59 7. 45318144e+00
8. 66708474e-82 7. 45318144e+00 3. 15168782e-89 7. 45318144e+00
7. 45318144e+00 7. 92414570e-89]

*** 偏微分_バイアス1 ***

[-0. 53641246 -2. 25183999 2. 48307537 -0. 99661254 3. 03421373 -2. 21278809
2. 66855436 -0. 81321987 -0. 99467297 2. 78652149]

*** 偏微分_バイアス2 ***

7. 45318144348354

順伝播開始

*** 総入力1 ***

[-49. 60887138 -97. 92034363 82. 40814555 -103. 48759637 113. 54784736
-131. 87886984 125. 79386036 -73. 52775903 -82. 97840565 123. 55296248]

*** 中間層出力1 ***

[2. 85194342e-22 2. 97670019e-43 1. 00000000e+00 1. 13738619e-45
1. 00000000e+00 5. 31783124e-58 1. 00000000e+00 1. 16761586e-32
9. 18197927e-37 1. 00000000e+00]

*** 総入力2 ***

6. 719793848933321

*** 出力1 ***

6. 719793848933321

出力合計: 6. 719793848933321

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 08856163 0. 20533982 -0. 10454879 0. 11988987 -0. 12775423 0. 20268135
-0. 1123583 0. 10740537 0. 11975783 -0. 11732526]
[-0. 04767791 -0. 11054644 0. 05628473 -0. 06454373 0. 06877758 -0. 10911523
0. 06048905 -0. 05782259 -0. 06447265 0. 06316305]]

*** 偏微分_重み2 ***

[-3. 20353467e-23 -3. 34367162e-44 -1. 12328129e-01 -1. 27760462e-46
-1. 12328129e-01 -5. 97342031e-59 -1. 12328129e-01 -1. 31156105e-33

-1.03139455e-37 -1.12328129e-01]

*** 偏微分_バイアス1 ***

[0.02493062 0.05780438 -0.02943111 0.03374971 -0.03596358 0.05705601
-0.03162953 0.03023525 0.03371254 -0.03302776]

*** 偏微分_バイアス2 ***

-0.1123281285965465

順伝播開始

*** 総入力1 ***

[46.10417681 106.87298869 -76.53185695 102.6696872 -105.07920618
125.02042549 -117.8587136 78.0877776 76.6887493 -114.0763187]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 5.78944370e-34 1.00000000e+00
2.31569092e-46 1.00000000e+00 6.52545863e-52 1.00000000e+00
1.00000000e+00 2.86605338e-50]

*** 総入力2 ***

-7.61798733842036

*** 出力1 ***

-7.61798733842036

出力合計: -7.61798733842036

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.06026625 -0.13973389 0.11570785 -0.08158514 0.14123948 -0.1379248
0.12430022 -0.07308943 -0.08149529 0.12976507]
[-0.62821037 -1.45657449 1.20612903 -0.85043674 1.47226866 -1.43771669
1.29569512 -0.76187811 -0.84950013 1.35266037]]

*** 偏微分_重み2 ***

[-1.30410330e+00 -1.30410330e+00 -7.55003265e-34 -1.30410330e+00
-3.01990018e-46 -1.30410330e+00 -8.50987216e-52 -1.30410330e+00
-1.30410330e+00 -3.73762968e-50]

*** 偏微分_バイアス1 ***

[0.22762842 0.52778142 -0.43703394 0.30815088 -0.53346811 0.5209484
-0.4694877 0.27606217 0.3078115 -0.49012873]

*** 偏微分_バイアス2 ***

-1.3041033041482182

順伝播開始

*** 総入力1 ***

[-10.16783362 -9.54838759 20.2990389 -17.45616629 28.45418346
-27.70244172 28.50888407 -7.70667207 -17.35144586 30.65932642]

*** 中間層出力1 ***

[3.83839173e-05 7.13110754e-05 9.99999998e-01 2.62351345e-08
1.00000000e+00 9.31070202e-13 1.00000000e+00 4.49613702e-04
2.91314968e-08 1.00000000e+00]

*** 総入力2 ***

6.8497819672422295

*** 出力1 ***

6.8497819672422295

出力合計: 6.8497819672422295

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3.21809706 -7.94785511 4.25942668 -4.4869557 5.1992948 -7.84018166
4.57572799 -3.98130723 -4.48160793 4.77689989]
[3.9870878 9.84706041 -5.27725169 5.55915064 -6.44170902 9.71365749
-5.6691358 4.93267332 5.55252498 -5.91837938]]

*** 偏微分_重み2 ***

[2.01107119e-04 3.73624317e-04 5.23935889e+00 1.37455285e-07
5.23935890e+00 4.87821095e-12 5.23935890e+00 2.35568755e-03
1.52630367e-07 5.23935890e+00]

*** 偏微分_バイアス1 ***

[-1.0432759 -2.57661766 1.38086488 -1.45462759 1.68556102 -2.54171097
1.4834067 -1.29070125 -1.45289389 1.54862469]

*** 偏微分_バイアス2 ***

5.239358897085804

順伝播開始

*** 総入力1 ***

[36.24383223 91.73639167 -54.9861917 81.50595858 -74.6122676
95.82808866 -86.51953279 66.3456408 59.51196676 -81.01184674]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.31765091e-24 1.00000000e+00
3.94733421e-33 1.00000000e+00 2.66099669e-38 1.00000000e+00
1.00000000e+00 6.56148273e-36]

*** 総入力2 ***

-7.345936991819163

*** 出力1 ***

-7.345936991819163

出力合計: -7.345936991819163

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.76756464 1.89567491 -1.19315414 1.07018764 -1.55559349 1.86996842
-1.31512875 0.94974394 1.06891214 -1.39270624]
[-2.16079037 -5.33656171 3.35887798 -3.01271192 4.37919001 -5.26419472
3.70225172 -2.67364785 -3.00912122 3.92064206]]

*** 偏微分_重み2 ***

[-2.89908072e+00 -2.89908072e+00 -3.81997633e-24 -2.89908072e+00
-1.14436405e-32 -2.89908072e+00 -7.71444418e-38 -2.89908072e+00
-2.89908072e+00 -1.90222681e-35]

*** 偏微分_バイアス1 ***

[0.45400316 1.12126374 -0.70573307 0.6330002 -0.92011059 1.10605873
-0.77787925 0.56175953 0.63224576 -0.82376519]

*** 偏微分_バイアス2 ***

-2.8990807173884328

順伝播開始

*** 総入力1 ***

[-36.51271758 -79.82001584 52.28695474 -77.48794454 71.11159451
-92.3768543 84.29705977 -60.80535616 -60.54499052 78.25346512]

*** 中間層出力1 ***

[1. 38908313e-16 2. 16076520e-35 1. 00000000e+00 2. 22542658e-34
1. 00000000e+00 7. 60749929e-41 1. 00000000e+00 3. 91353615e-27
5. 07743896e-27 1. 00000000e+00]

*** 総入力2 ***

5. 219555962030529

*** 出力1 ***

5. 219555962030529

出力合計: 5. 219555962030529

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 03178804 -0. 09448078 0. 04101115 -0. 04860578 0. 05346894 -0. 09305218
0. 04520367 -0. 04191233 -0. 04853489 0. 04787017]
[-0. 19962324 -0. 59332256 0. 25754279 -0. 30523567 0. 33577546 -0. 58435125
0. 28387106 -0. 26320201 -0. 30479053 0. 30061619]]

*** 偏微分_重み2 ***

[1. 03471103e-16 1. 60952756e-35 7. 44887762e-01 1. 65769303e-34
7. 44887762e-01 5. 66673312e-41 7. 44887762e-01 2. 91514519e-27
3. 78212215e-27 7. 44887762e-01]

*** 偏微分_バイアス1 ***

[-0. 1105357 -0. 32853552 0. 14260701 -0. 16901559 0. 18592613 -0. 32356791
0. 15718554 -0. 14574064 -0. 1687691 0. 16645768]

*** 偏微分_バイアス2 ***

0. 7448877623725947

順伝播開始

*** 総入力1 ***

[64. 45227408 144. 4330021 -108. 28389939 141. 85023891 -148. 91353624
175. 02440544 -165. 8223579 105. 8036611 107. 41058044 -161. 64963813]

*** 中間層出力1 ***

[1. 00000000e+00 1. 00000000e+00 9. 39506992e-48 1. 00000000e+00
2. 12653693e-65 1. 00000000e+00 9. 64417290e-73 1. 00000000e+00
1. 00000000e+00 6. 25826804e-71]

*** 総入力2 ***

-5.9775295836649125

*** 出力1 ***

-5.9775295836649125

出力合計: -5.9775295836649125

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.50571061 1.50307906 -0.99838699 0.77326126 -1.3188216 1.48035181
-1.10622541 0.66677632 0.77213358 -1.17481209]
[0.78361689 2.32907543 -1.54703679 1.19819631 -2.04356181 2.29385873
-1.71413631 1.03319405 1.19644893 -1.82041387]]

*** 偏微分_重み2 ***

[2.95782496e+00 2.95782496e+00 2.77889723e-47 2.95782496e+00
6.28992400e-65 2.95782496e+00 2.85257753e-72 2.95782496e+00
2.95782496e+00 1.85108614e-70]

*** 偏微分_バイアス1 ***

[-0.34518671 -1.02596802 0.68147655 -0.52781077 0.90019801 -1.01045491
0.75508463 -0.45512655 -0.52704105 0.80190036]

*** 偏微分_バイアス2 ***

2.957824955989606

順伝播開始

*** 総入力1 ***

[-49.39025277 -106.96526483 74.1216398 -105.16653727 101.20684469
-127.17340332 117.56162713 -80.87406203 -82.0721615 110.91210211]

*** 中間層出力1 ***

[3.54883464e-22 3.51217162e-47 1.00000000e+00 2.12203812e-46
1.00000000e+00 5.87885428e-56 1.00000000e+00 7.53080032e-36
2.27254840e-36 1.00000000e+00]

*** 総入力2 ***

4.751797498280848

*** 出力1 ***

4.751797498280848

出力合計: 4.751797498280848

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.28061571  0.69092582 -0.25403598  0.3906841  -0.33556941  0.68157599
    -0.28147508  0.34687697  0.39022018 -0.29892671]
  [ 0.53385676  1.31445037 -0.48329022  0.74325613 -0.63840332  1.29666281
    -0.53549167  0.65991536  0.74237355 -0.56869249]]
```

*** 偏微分_重み2 ***

```
[-5.39755662e-22 -5.34179445e-47 -1.52093776e+00 -3.22748792e-46
 -1.52093776e+00 -8.94137147e-56 -1.52093776e+00 -1.14538786e-35
 -3.45640469e-36 -1.52093776e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0.30442233  0.74954195 -0.27558765  0.42382859 -0.36403814  0.73939891
 -0.3053546   0.376305    0.42332532 -0.32428678]
```

*** 偏微分_バイアス2 ***

-1.5209377628062422

順伝播開始

*** 総入力1 ***

```
[ 64.88068229 150.8410766 -104.44833727 143.38756872 -142.99217655
 173.86800823 -161.90893426 110.38961977 107.65303189 -155.41968801]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 4.35174541e-46 1.00000000e+00
 7.93024801e-63 1.00000000e+00 4.82884515e-71 1.00000000e+00
 1.00000000e+00 3.17751140e-68]
```

*** 総入力2 ***

-7.320398168703383

*** 出力1 ***

-7.320398168703383

出力合計: -7.320398168703383

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.00742053  0.01827067 -0.01211595  0.01033115 -0.01560188  0.01802343
```



```
-0.0132891 0.00917273 0.01031889 -0.01403524]
[ 0.85853893 2.11387564 -1.40178792 1.19529126 -1.80510258 2.08527001
-1.53751862 1.06126411 1.19387191 -1.62384517]]
```

*** 偏微分_重み2 ***

```
[1.28416441e+00 1.28416441e+00 5.58835658e-46 1.28416441e+00
1.01837423e-62 1.28416441e+00 6.20103109e-71 1.28416441e+00
1.28416441e+00 4.08044705e-68]
```

*** 偏微分_バイアス1 ***

```
[-0.20214153 -0.49770843 0.33004858 -0.28142929 0.42500833 -0.49097328
0.36200615 -0.24987283 -0.28109511 0.38233159]
```

*** 偏微分_バイアス2 ***

```
1.2841644103929433
```

順伝播開始

*** 総入力1 ***

```
[ 20.8931015 47.02249834 -39.66189748 47.01832928 -54.95977775
60.00238585 -58.50885309 33.31910714 34.98480995 -59.09931952]
```

*** 中間層出力1 ***

```
[9.99999999e-01 1.00000000e+00 5.95740030e-18 1.00000000e+00
1.35291900e-24 1.00000000e+00 3.88980617e-26 1.00000000e+00
1.00000000e+00 2.15522019e-26]
```

*** 総入力2 ***

```
-7.949638729044507
```

*** 出力1 ***

```
-7.949638729044507
```

出力合計: -7.949638729044507

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.75717133 -1.75253355 1.11148406 -1.02418379 1.4312741 -1.72985202
1.21910555 -0.91791305 -1.02305838 1.28755427]
[-0.19221173 -0.44488942 0.28215579 -0.25999418 0.3633361 -0.4391316
0.30947605 -0.23301682 -0.25970849 0.3268521 ]]
```

*** 偏微分_重み2 ***

```
[-4.76838374e+00 -4.76838375e+00 -2.84071707e-17 -4.76838375e+00  
-6.45123697e-24 -4.76838375e+00 -1.85480885e-25 -4.76838375e+00  
-4.76838375e+00 -1.02769169e-25]
```

*** 偏微分_バイアス1 ***

```
[ 0.83487097  1.9323756 -1.22554268  1.12928381 -1.57814904  1.90736652  
-1.34420811  1.01210775  1.12804291 -1.41968093]
```

*** 偏微分_バイアス2 ***

-4.7683837456773155

順伝播開始

*** 総入力1 ***

```
[-61.50921191 -122.74992502 102.88908443 -129.8808322 142.00468693  
-164.23496945 157.6766094 -92.51885501 -103.15069828 154.70405643]
```

*** 中間層出力1 ***

```
[1.93592569e-27 4.90213099e-54 1.00000000e+00 3.92167204e-57  
1.00000000e+00 4.71692566e-72 1.00000000e+00 6.60042346e-41  
1.59301891e-45 1.00000000e+00]
```

*** 総入力2 ***

5.528021068732939

*** 出力1 ***

5.528021068732939

出力合計: 5.528021068732939

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.79331596  5.56420407 -2.60438663  2.80488149 -3.35370635  5.47827602  
-2.85656117  2.40227925  2.80061793 -3.01694758]  
[-0.82561478 -2.56167303  1.19901911 -1.29132382  1.54399425 -2.52211309  
1.31511634 -1.10597201 -1.28936095  1.38895575]]
```

*** 偏微分_重み2 ***

```
[-6.00857305e-27 -1.52148465e-53 -3.10372092e+00 -1.21717755e-56  
-3.10372092e+00 -1.46400208e-71 -3.10372092e+00 -2.04858724e-40  
-4.94428611e-45 -3.10372092e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0.4319775  1.34031649 -0.62734981  0.67564541 -0.80784743  1.31961797  
-0.68809411  0.57866578  0.67461839 -0.72672831]
```

*** 偏微分_バイアス2 ***

-3.10372091838489

順伝播開始

*** 総入力1 ***

```
[-27.91323334 -47.86222374  50.0365026  -56.4897255  69.61351295  
-75.89365451  74.68157933 -36.33666549 -47.29721091  75.5525081 ]
```

*** 中間層出力1 ***

```
[7.54113625e-13 1.63568751e-21 1.00000000e+00 2.92970525e-25  
1.00000000e+00 1.09598506e-33 1.00000000e+00 1.65648188e-16  
2.87794368e-21 1.00000000e+00]
```

*** 総入力2 ***

6.614323390167231

*** 出力1 ***

6.614323390167231

出力合計: 6.614323390167231

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[-1.29208089 -4.00899891  2.27300936 -2.02091202  2.81289285 -3.94708791  
 2.45470066 -1.73083783 -2.01784013  2.57025877]  
[ 1.22701732  3.80712319 -2.15855051  1.91914769 -2.67124782  3.74832976  
-2.33109263  1.64368038  1.91623049 -2.44083174]]
```

*** 偏微分_重み2 ***

```
[1.85458826e-12 4.02263896e-21 2.45929552e+00 7.20501101e-25  
2.45929552e+00 2.69535114e-33 2.45929552e+00 4.07377846e-16  
7.07771400e-21 2.45929552e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.34228604 -1.06202666  0.60214447 -0.53536119  0.74516538 -1.04562577  
 0.65027644 -0.45851744 -0.53454741  0.68088902]
```

*** 偏微分_バイアス2 ***

2.459295521635722

順伝播開始

*** 総入力1 ***

[19.22391603 45.94003328 -34.82192977 43.80101801 -47.99993524
54.46927367 -52.07000463 32.5288482 32.01241424 -51.68124445]

*** 中間層出力1 ***

[9.99999996e-01 1.00000000e+00 7.53404223e-16 1.00000000e+00
1.42525638e-21 1.00000000e+00 2.43379681e-23 1.00000000e+00
1.00000000e+00 3.59021716e-23]

*** 総入力2 ***

-5.568020914429929

*** 出力1 ***

-5.568020914429929

出力合計: -5.568020914429929

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.05328294 -0.16532343 0.13060118 -0.08333854 0.16659756 -0.16277034
0.14271533 -0.07137643 -0.08321186 0.15042009]
[-0.34426395 -1.06816361 0.84382129 -0.53845479 1.07639582 -1.05166795
0.92209145 -0.461167 -0.53763631 0.97187233]]

*** 偏微分_重み2 ***

[-2.77916174e+00 -2.77916175e+00 -2.09383220e-15 -2.77916175e+00
-3.96101803e-21 -2.77916175e+00 -6.76391499e-23 -2.77916175e+00
-2.77916175e+00 -9.97779421e-23]

*** 偏微分_バイアス1 ***

[0.30420206 0.94386175 -0.74562608 0.47579498 -0.95113599 0.92928569
-0.81478797 0.40750114 0.47507175 -0.85877586]

*** 偏微分_バイアス2 ***

-2.7791617500027455

順伝播開始

*** 総入力1 ***

[-21.65113091 -33.98279384 39.57222777 -43.33608007 55.34100424
-58.81729235 59.09215505 -26.61124658 -36.89671918 60.23973688]

*** 中間層出力1 ***

[3.95396953e-10 1.74365337e-15 1.00000000e+00 1.51140049e-19
1.00000000e+00 2.85742272e-26 1.00000000e+00 2.77256958e-12
9.46146662e-17 1.00000000e+00]

*** 総入力2 ***

5.948111279950603

*** 出力1 ***

5.948111279950603

出力合計: 5.948111279950603

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.82412848 -3.48788682 1.92046616 -1.53869917 2.4497862 -3.42718718
2.09860245 -1.25430063 -1.53568739 2.21189954]
[0.84271338 3.56654205 -1.96377453 1.57339833 -2.50503125 3.50447358
-2.14592797 1.28258633 1.57031863 -2.26178002]]

*** 偏微分_重み2 ***

[1.02093343e-09 4.50219456e-15 2.58204678e+00 3.90250677e-19
2.58204678e+00 7.37799913e-26 2.58204678e+00 7.15890434e-12
2.44299494e-16 2.58204678e+00]

*** 偏微分_バイアス1 ***

[-0.23379192 -0.98945708 0.54480519 -0.43650407 0.69496472 -0.97223758
0.59533958 -0.3558248 -0.43564968 0.62748013]

*** 偏微分_バイアス2 ***

2.5820467753276786

順伝播開始

*** 総入力1 ***

[72.48086262 160.55964526 -122.69052599 158.80090762 -168.87572561
197.25354857 -187.2208843 117.47932443 120.88409978 -183.16331878]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 5.20213455e-54 1.00000000e+00
4.55202081e-74 1.00000000e+00 4.90911325e-82 1.00000000e+00
1.00000000e+00 2.83910443e-80]

*** 総入力2 ***
-4.38697493463825

*** 出力1 ***
-4.38697493463825

出力合計: -4.38697493463825

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.86444415 3.65851131 -2.70839955 1.61397104 -3.60607764 3.59484229
-3.01050232 1.31565996 1.61081192 -3.20264375]
[0.7521951 3.18344949 -2.35671082 1.40439508 -3.1378244 3.12804797
-2.6195852 1.14482003 1.40164618 -2.78677686]]

*** 偏微分_重み2 ***

[5.70311614e+00 5.70311614e+00 2.96683775e-53 5.70311614e+00
2.59607034e-73 5.70311614e+00 2.79972430e-81 5.70311614e+00
5.70311614e+00 1.61917423e-79]

*** 偏微分_バイアス1 ***

[-0.40611355 -1.71875881 1.27239885 -0.75823927 1.69412561 -1.68884727
1.41432592 -0.61809352 -0.75675512 1.50459345]

*** 偏微分_バイアス2 ***

5.703116141312254

順伝播開始

*** 総入力1 ***

[-135.29241579 -296.47955837 213.40858885 -290.77730789 292.25953994
-356.52625376 332.40085872 -220.39799496 -225.12906913 318.45593759]

*** 中間層出力1 ***

[1.75085581e-059 1.74005831e-129 1.00000000e+000 5.21218380e-127
1.00000000e+000 1.45417052e-155 1.00000000e+000 1.91587410e-096
1.68922524e-098 1.00000000e+000]

*** 総入力2 ***
4.645176778838794

*** 出力1 ***

4. 645176778838794

出力合計: 4. 645176778838794

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 7. 66235216 19. 44316211 -7. 06302548 10. 8226319 -9. 40401066
    19. 17471023 -7. 85085589 9. 56484319 10. 80931191 -8. 35192666]
  [ 10. 49942737 26. 64221954 -9. 678193 14. 82983753 -12. 88595524
    26. 27437022 -10. 75772681 13. 10633789 14. 81158565 -11. 44432487]]
```

*** 偏微分_重み2 ***

```
[-2. 28576303e-058 -2. 27166677e-128 -1. 30551187e+001 -6. 80456781e-126
 -1. 30551187e+001 -1. 89843688e-154 -1. 30551187e+001 -2. 50119638e-095
 -2. 20530360e-097 -1. 30551187e+001]
```

*** 偏微分_バイアス1 ***

```
[ 2. 48503825 6. 30576623 -2. 29066586 3. 50997365 -3. 04988934 6. 21870247
 -2. 54617339 3. 10205021 3. 50565374 -2. 70867963]
```

*** 偏微分_バイアス2 ***

-13. 055118687420789

順伝播開始

*** 総入力1 ***

```
[-104. 16978135 -218. 27791228 169. 16166476 -220. 37989215 232. 79892198
 -276. 89435673 259. 61050335 -161. 66413221 -173. 41616988 252. 89126534]
```

*** 中間層出力1 ***

```
[5. 74961516e-046 1. 59627303e-095 1. 00000000e+000 1. 95087264e-096
 1. 00000000e+000 5. 57582073e-121 1. 00000000e+000 6. 16821435e-071
 4. 85639888e-076 1. 00000000e+000]
```

*** 総入力2 ***

9. 21446831943607

*** 出力1 ***

9. 21446831943607

出力合計: 9. 21446831943607

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 4.3830939 11.12206846 -8.17756353  6.19086815 -9.51667685 10.96850598
 -8.62822601  5.4713755  6.18324871 -8.91485343]
 [-0.32281961 -0.81915238  0.6022864 -0.45596414  0.70091355 -0.80784234
  0.63547818 -0.40297273 -0.45540296  0.6565886 ]]
```

*** 偏微分_重み2 ***

```
[-2.71126096e-045 -7.52730855e-095 -4.71555205e+000 -9.19944146e-096
 -4.71555205e+000 -2.62930729e-120 -4.71555205e+000 -2.90865359e-070
 -2.29006017e-075 -4.71555205e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.89760403  2.27766362 -1.67466501  1.26781409 -1.94889905  2.2462159
 -1.76695518  1.1204708  1.26625373 -1.82565297]
```

*** 偏微分_バイアス2 ***

-4.7155520529125425

順伝播開始

*** 総入力1 ***

```
[ 70.40242959 164.11594239 -112.64330379 152.81006063 -154.12438209
 189.21636979 -172.39473895 117.5270234 116.25384782 -166.39944351]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.20125371e-49 1.00000000e+00
 1.16046308e-67 1.00000000e+00 1.34870250e-75 1.00000000e+00
 1.00000000e+00 5.41551659e-73]
```

*** 総入力2 ***

-5.937554892057921

*** 出力1 ***

-5.937554892057921

出力合計: -5.937554892057921

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.14606207  0.37063142 -0.52111301  0.20630427 -0.59326267  0.36551411
 -0.54539411  0.18232793  0.20605036 -0.56083722]
 [ 1.78613818  4.53231245 -6.37249533  2.52281748 -7.25478639  4.46973478
 -6.66941978  2.22961973  2.51971252 -6.85826773]]]
```


*** 偏微分_重み2 ***

[2.99809921e+00 2.99809921e+00 3.60147779e-49 2.99809921e+00
3.47918345e-67 2.99809921e+00 4.04354390e-75 2.99809921e+00
2.99809921e+00 1.62362560e-72]

*** 偏微分_バイアス1 ***

[-0.44881578 -1.13886673 1.60126271 -0.63392648 1.82296233 -1.12314239
1.67587305 -0.56025258 -0.63314628 1.72332623]

*** 偏微分_バイアス2 ***

2.99809920652973

順伝播開始

*** 総入力1 ***

[-30.0541902 -53.14659286 51.55526421 -61.29198916 71.56132595
-79.99020145 78.12765041 -40.97178303 -50.53973425 78.01520254]

*** 中間層出力1 ***

[8.86402630e-14 8.29331168e-24 1.00000000e+00 2.40562164e-27
1.00000000e+00 1.82262324e-35 1.00000000e+00 1.60761007e-18
1.12427434e-22 1.00000000e+00]

*** 総入力2 ***

10.655044593498294

*** 出力1 ***

10.655044593498294

出力合計: 10.655044593498294

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-5.18713642 -11.43907698 8.97296556 -6.86426059 10.21529951
-11.29661265 9.39105812 -6.19676657 -6.85719182 9.65697062]
[4.44688931 9.80662643 -7.69244944 5.88467404 -8.7574921
9.68449293 -8.05087674 5.31243691 5.87861404 -8.27884133]]

*** 偏微分_重み2 ***

[5.57389667e-13 5.21501864e-23 6.28822216e+00 1.51270833e-26
6.28822216e+00 1.14610599e-34 6.28822216e+00 1.01090093e-17
7.06968684e-22 6.28822216e+00]

*** 偏微分_バイアス1 ***

[-1.52688385 -3.36720311 2.64127933 -2.02056159 3.00697236 -3.32526736
2.76434892 -1.82407826 -2.01848083 2.84262284]

*** 偏微分_バイアス2 ***

6.288222164355048

順伝播開始

*** 総入力1 ***

[44.24335245 103.7791488 -73.69451618 95.95158675 -100.45997015
120.10557002 -110.64688836 73.31612797 72.82185128 -107.86546852]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 9.88276066e-33 1.00000000e+00
2.34849322e-44 1.00000000e+00 8.84437085e-49 1.00000000e+00
1.00000000e+00 1.42765160e-47]

*** 総入力2 ***

-7.846799054762383

*** 出力1 ***

-7.846799054762383

出力合計: -7.846799054762383

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.12251714 -0.27018433 0.27205997 -0.16212984 0.3195025 -0.26681941
0.28802618 -0.14636402 -0.16196288 0.29818091]
[-1.01013003 -2.22761737 2.24308164 -1.33672902 2.63423606 -2.19987422
2.37471995 -1.20674289 -1.33535246 2.4584437]]

*** 偏微分_重み2 ***

[-2.22370099e+00 -2.22370099e+00 -2.19763047e-32 -2.22370099e+00
-5.22234671e-44 -2.22370099e+00 -1.96672362e-48 -2.22370099e+00
-2.22370099e+00 -3.17467027e-47]

*** 偏微分_バイアス1 ***

[0.4246434 0.93645668 -0.94295762 0.56194068 -1.10739303 0.92479388
-0.99829638 0.50729648 0.561362 -1.03349258]

*** 偏微分_バイアス2 ***

-2.2237009938819696

順伝播開始

*** 総入力1 ***

[119.97451902 266.47017531 -198.92352821 258.01802951 -272.91870139
324.04992468 -301.80371462 192.3883438 198.99521604 -294.78325681]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 4.06077921e-087 1.00000000e+000
2.97107750e-119 1.00000000e+000 8.47836526e-132 1.00000000e+000
1.00000000e+000 9.48982518e-129]

*** 総入力2 ***

-6.757185567760217

*** 出力1 ***

-6.757185567760217

出力合計: -6.757185567760217

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.99376974 12.16135678 -13.20546207 6.9165221 -15.50826493
11.99802741 -13.98044268 6.15126826 6.90841805 -14.4733408]
[4.07796674 9.93109635 -10.7837241 5.64810725 -12.66421798
9.79771981 -11.4165817 5.02319263 5.64148939 -11.81908767]]

*** 偏微分_重み2 ***

[9.09937967e+000 9.09937967e+000 3.69505717e-086 9.09937967e+000
2.70349622e-118 9.09937967e+000 7.71478644e-131 9.09937967e+000
9.09937967e+000 8.63515222e-128]

*** 偏微分_バイアス1 ***

[-1.45915855 -3.55349738 3.85858056 -2.02097871 4.53144989 -3.50577323
4.08502664 -1.79737475 -2.01861074 4.2290494]

*** 偏微分_バイアス2 ***

9.099379665828353

順伝播開始

*** 総入力1 ***

[-26.33321259 -65.97465579 30.06984955 -53.04090592 38.60793522
-61.59210845 49.20429733 -47.67446443 -41.89805724 41.77206145]

*** 中間層出力1 ***

[3.66126429e-12 2.22623519e-29 1.00000000e+00 9.21779926e-24
1.00000000e+00 1.78191577e-27 1.00000000e+00 1.97352745e-21
6.36656149e-19 1.00000000e+00]

*** 総入力2 ***

7.9728693289324

*** 出力1 ***

7.9728693289324

出力合計: 7.9728693289324

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.1791438 7.54718595 -3.83793729 5.08264325 -4.50720679
7.47043764 -4.0631719 4.72305122 5.07883517 -4.20642414]
[-8.46472221 -15.28658397 7.77361935 -10.29473149 9.12920333
-15.13113272 8.22982484 -9.56638932 -10.28701834 8.51997768]]

*** 偏微分_重み2 ***

[2.17298267e-11 1.32128415e-28 5.93506093e+00 5.47082002e-23
5.93506093e+00 1.05757787e-26 5.93506093e+00 1.17130057e-20
3.77859303e-18 5.93506093e+00]

*** 偏微分_バイアス1 ***

[-2.155263 -3.89222563 1.97929639 -2.62121465 2.32445125 -3.85264509
2.09545411 -2.43576628 -2.61925075 2.16933198]

*** 偏微分_バイアス2 ***

5.9350609299770385

順伝播開始

*** 総入力1 ***

[-147.492911 -327.13425179 234.15962339 -312.37230634 318.90518159
-389.00863586 358.77956821 -238.03191085 -244.00114101 344.86021555]

*** 中間層出力1 ***

[8.80324182e-065 8.46056969e-143 1.00000000e+000 2.17987233e-136

1.00000000e+000 1.13683133e-169 1.00000000e+000 4.20779529e-104
1.07560021e-106 1.00000000e+000]

*** 総入力2 ***

5.895598003445938

*** 出力1 ***

5.895598003445938

出力合計: 5.895598003445938

誤差逆伝播開始

*** 偏微分_重み1 ***

[[14.27737497 25.78375117 -9.90020915 17.36403605 -12.18666112
25.52155287 -10.66968707 16.13554751 17.35102635 -11.1590854]
[20.32494317 36.70515613 -14.09371042 24.71904301 -17.34865095
36.33189665 -15.18912152 22.97019493 24.7005227 -15.88581774]]

*** 偏微分_重み2 ***

[-1.10024515e-063 -1.05741737e-141 -1.24981817e+001 -2.72444403e-135
-1.24981817e+001 -1.42083245e-168 -1.24981817e+001 -5.25897899e-103
-1.34430469e-105 -1.24981817e+001]

*** 偏微分_バイアス1 ***

[4.53860015 8.19633422 -3.14715351 5.51981137 -3.87398819 8.11298464
-3.39176099 5.12929012 5.51567575 -3.54733464]

*** 偏微分_バイアス2 ***

-12.498181660244102

順伝播開始

*** 総入力1 ***

[-188.69288527 -412.50197542 291.29477482 -389.4536728 396.00337187
-489.08703297 441.82834496 -297.91334245 -307.20796846 426.49257017]

*** 中間層出力1 ***

[1.12647395e-082 7.12308788e-180 1.00000000e+000 7.28482200e-170
1.00000000e+000 3.91021294e-213 1.00000000e+000 4.14838724e-130
3.81306758e-134 1.00000000e+000]

*** 総入力2 ***

10.269961584531375

*** 出力1 ***

10.269961584531375

出力合計: 10.269961584531375

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 18.24906615  32.95629496 -21.29836729  22.194377   -24.22086624
    32.62115814 -22.28189917  20.62414656  22.17774824 -22.9074387 ]
  [ 21.14821315  38.19191322 -24.68194304  25.72029778 -28.06872625
    37.80353472 -25.82172421  23.9006119   25.70102729 -26.54664039 ] ]
```

*** 偏微分_重み2 ***

```
[ -1.35175095e-081 -8.54759297e-179 -1.19998421e+001 -8.74167136e-169
  -1.19998421e+001 -4.69219378e-212 -1.19998421e+001 -4.97799918e-129
  -4.57562088e-133 -1.19998421e+001 ]
```

*** 偏微分_バイアス1 ***

```
[ 4.3576327   7.86952206 -5.085765    5.29972012 -5.78361862   7.78949588
  -5.32061924  4.92477011  5.2957494   -5.46998971 ]
```

*** 偏微分_バイアス2 ***

-11.999842082053382

順伝播開始

*** 総入力1 ***

```
[ -53.87153025 -120.84501962  72.6411484  -105.61349483  96.13855702
  -130.4371859  110.51532584  -86.67494476  -84.92562217  102.93931462 ]
```

*** 中間層出力1 ***

```
[ 4.01690612e-24  3.29363002e-53  1.00000000e+00  1.35719416e-46
  1.00000000e+00  2.24827756e-57  1.00000000e+00  2.27797929e-38
  1.30999886e-37  1.00000000e+00 ]
```

*** 総入力2 ***

14.469906313250059

*** 出力1 ***

14.469906313250059

出力合計: 14.469906313250059

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.97165984  3.56065362 -3.19779738  2.39791787 -3.51354909
    3.52444487 -3.30405983  2.22826753  2.39612127 -3.37164417]
  [-11.55435495 -20.8662036  18.73978726 -14.05231959  20.59016086
   -20.65401248  19.36250825 -13.05813174 -14.04179113  19.75856719]]
```

*** 偏微分_重み2 ***

```
[3.80417491e-23 3.11920277e-52 9.47041031e+00 1.28531856e-45
 9.47041031e+00 2.12921110e-56 9.47041031e+00 2.15733985e-37
 1.24062267e-36 9.47041031e+00]
```

*** 偏微分_バイアス1 ***

```
[-3.43909273 -6.2107153  5.57779871 -4.18259871  6.12855264 -6.14755774
 5.76314832 -3.88668395 -4.17946497  5.88103318]
```

*** 偏微分_バイアス2 ***

9.470410307617687

順伝播開始

*** 総入力1 ***

```
[-16.21014925 -38.27215003  15.46927181 -31.38956241  20.11244977
 -36.3270868  26.92008244 -28.30459905 -25.62273364  22.08291745]
```

*** 中間層出力1 ***

```
[9.12056182e-08 2.39120292e-17 9.99999809e-01 2.33177294e-14
 9.99999998e-01 1.67242503e-16 1.00000000e+00 5.09880989e-13
 7.45054717e-12 1.00000000e+00]
```

*** 総入力2 ***

11.155262121292928

*** 出力1 ***

11.155262121292928

出力合計: 11.155262121292928

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 3.44102578  6.21420624 -4.34587005  4.18494968 -4.89693316
    6.15101317 -4.53132346  3.88886859  4.18181418 -4.64927457]
```

```
[ -7.28023376 -13.14749639  9.19462736 -8.85416555 10.36052049  
-13.0137978  9.58699413 -8.227742  -8.84753171  9.83654521]]
```

*** 偏微分_重み2 ***

```
[9.10857166e-07 2.38805938e-16 9.98685180e+00 2.32870752e-13  
9.98685369e+00 1.67022641e-15 9.98685371e+00 5.09210685e-12  
7.44075246e-11 9.98685370e+00]
```

*** 偏微分_バイアス1 ***

```
[-3.62663442 -6.54939999 4.5802859 -4.4106855 5.16107332 -6.48279829  
4.77574265 -4.09863382 -4.40738087 4.90005604]
```

*** 偏微分_バイアス2 ***

9.986853707462593

順伝播開始

*** 総入力1 ***

```
[ 71.16105165 152.5192142 -118.8798126 145.75934097 -161.59770659  
187.83771618 -173.60946386 107.9140948 114.65357427 -172.54480257]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 2.35046278e-52 1.00000000e+00  
6.59185642e-71 1.00000000e+00 4.00283641e-76 1.00000000e+00  
1.00000000e+00 1.16076516e-75]
```

*** 総入力2 ***

-11.2784827519764

*** 出力1 ***

-11.2784827519764

出力合計: -11.2784827519764

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.0001885 -3.61217384 2.86029023 -2.43261411 3.37818879 -3.57544118  
3.0345826 -2.26050904 -2.43079151 3.14543505]  
[-0.23300022 -0.420779 0.33319273 -0.28337311 0.39352228 -0.41650004  
0.3534959 -0.26332474 -0.28316079 0.366409 ]]
```

*** 偏微分_重み2 ***

```
[-2.61297041e+00 -2.61297041e+00 -6.14168969e-52 -2.61297041e+00
```


-1.72243258e-70 -2.61297041e+00 -1.04592931e-75 -2.61297041e+00
-2.61297041e+00 -3.03304501e-75]

*** 偏微分_バイアス1 ***

[0.74624162 1.34765021 -1.06713323 0.9075734 -1.26035374 1.33394578
-1.13215921 0.84336347 0.90689342 -1.17351667]

*** 偏微分_バイアス2 ***

-2.612970410578365

順伝播開始

*** 総入力1 ***

[-65.177449 -131.19530749 101.58001597 -129.57476502 137.85915039
-165.66305216 151.71330915 -96.10879538 -105.09397887 148.40683065]

*** 中間層出力1 ***

[4.94075768e-29 1.05342084e-57 1.00000000e+00 5.32591901e-57
1.00000000e+00 1.13096872e-72 1.00000000e+00 1.82171530e-42
2.28173337e-46 1.00000000e+00]

*** 総入力2 ***

7.842771971935163

*** 出力1 ***

7.842771971935163

出力合計: 7.842771971935163

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.18621529 -0.35790913 0.18842714 -0.23227328 0.2225447 -0.3539967
0.19990898 -0.21394224 -0.23207916 0.2072116]
[0.05889133 0.11319019 -0.05959083 0.07345735 -0.07038065 0.11195287
-0.06322201 0.06766009 0.07339596 -0.0655315]]

*** 偏微分_重み2 ***

[8.95691631e-30 1.90970755e-58 1.81286290e-01 9.65516099e-58
1.81286290e-01 2.05029123e-73 1.81286290e-01 3.30252009e-43
4.13646978e-47 1.81286290e-01]

*** 偏微分_バイアス1 ***

[-0.05754278 -0.11059826 0.05822627 -0.07177526 0.06876901 -0.10938927

0.0617743 -0.06611075 -0.07171527 0.0640309]

*** 偏微分_バイアス2 ***

0.1812862901897203

順伝播開始

*** 総入力1 ***

[-134.71810665 -286.7946702 206.72984239 -272.43772246 280.36277233
-344.851459 310.60627702 -207.21354753 -217.34498239 301.35960967]

*** 中間層出力1 ***

[3.10935042e-059 2.79677349e-125 1.00000000e+000 4.80618486e-119
1.00000000e+000 1.70967784e-150 1.00000000e+000 1.01929462e-090
4.05763968e-095 1.00000000e+000]

*** 総入力2 ***

7.779321770368762

*** 出力1 ***

7.779321770368762

出力合計: 7.779321770368762

誤差逆伝播開始

*** 偏微分_重み1 ***

[[9.73142248 18.70396854 -9.77051811 12.13836661 -11.5534676
18.49950917 -10.37054779 11.18040465 12.12822178 -10.75217526]
[4.41600366 8.48763824 -4.4337448 5.50824625 -5.24282605
8.39485701 -4.70603112 5.07353452 5.50364265 -4.87920912]]

*** 偏微分_重み2 ***

[-2.40236680e-058 -2.16086156e-124 -7.72626589e+000 -3.71338622e-118
-7.72626589e+000 -1.32094255e-149 -7.72626589e+000 -7.87534128e-090
-3.13504030e-094 -7.72626589e+000]

*** 偏微分_バイアス1 ***

[2.45242396 4.71360284 -2.46227649 3.05899998 -2.91159909 4.66207687
-2.61349047 2.81758318 3.05644337 -2.70966473]

*** 偏微分_バイアス2 ***

-7.72626588507555

順伝播開始

*** 総入力1 ***

[14.41729281 17.97914146 -37.73379813 27.27870942 -51.85777437
42.2606326 -48.20229014 12.24998024 22.85041603 -54.58477903]

*** 中間層出力1 ***

[9.99999452e-01 9.99999984e-01 4.09656348e-17 1.00000000e+00
3.00922561e-23 1.00000000e+00 1.16415652e-21 9.9995215e-01
1.00000000e+00 1.96848301e-24]

*** 総入力2 ***

-9.469970965277493

*** 出力1 ***

-9.469970965277493

出力合計: -9.469970965277493

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-6.31501743 -12.13757377 13.67170471 -7.87695503 15.54237576
-12.00489378 14.30125599 -7.25532044 -7.87037174 14.70165964]
[7.2613538 13.95644881 -15.72047681 9.05735543 -17.87147711
13.80388608 -16.44436945 8.34256585 9.04978561 -16.90477554]]

*** 偏微分_重み2 ***

[-6.90395681e+00 -6.90396049e+00 -2.82825129e-16 -6.90396060e+00
-2.07755750e-22 -6.90396060e+00 -8.03729074e-21 -6.90392756e+00
-6.90396059e+00 -1.35903291e-23]

*** 偏微分_バイアス1 ***

[1.72343211 3.31246661 -3.73114646 2.14970068 -4.24167151 3.2762569
-3.90295737 1.98005031 2.14790403 -4.01223158]

*** 偏微分_バイアス2 ***

-6.903960595010009

順伝播開始

*** 総入力1 ***

[-51.05890378 -92.58219234 81.77620221 -100.42780164 112.77026948
-131.39030496 122.03918561 -69.4741774 -82.90179733 122.20883396]

*** 中間層出力1 ***

[6.68959515e-23 6.19533429e-41 1.00000000e+00 2.42526901e-44
1.00000000e+00 8.66793373e-58 1.00000000e+00 6.72586461e-31
9.91304046e-37 1.00000000e+00]

*** 総入力2 ***

10.966792071795906

*** 出力1 ***

10.966792071795906

出力合計: 10.966792071795906

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-4.02215761 -10.00975536 8.69563493 -5.62836884 9.88544066
-9.87331459 9.09604938 -4.98910927 -5.62159895 9.35071872]
[3.20609272 7.97885287 -6.93135739 4.48641603 -7.87976067
7.87009488 -7.25053082 3.97685731 4.4810197 -7.4535297]]

*** 偏微分_重み2 ***

[2.90353930e-22 2.68901124e-40 4.34038119e+00 1.05265920e-43
4.34038119e+00 3.76221366e-57 4.34038119e+00 2.91928163e-30
4.30263744e-36 4.34038119e+00]

*** 偏微分_バイアス1 ***

[-0.85329562 -2.12355687 1.84476789 -1.19405129 2.09718366 -2.09461113
1.92971531 -1.05843319 -1.19261507 1.98374308]

*** 偏微分_バイアス2 ***

4.340381194636338

順伝播開始

*** 総入力1 ***

[-79.35273716 -177.4282324 113.65661064 -158.47286959 152.02215376
-197.80861075 171.87421224 -126.78511384 -126.58972827 162.70834416]

*** 中間層出力1 ***

[3.44781636e-35 8.78815551e-78 1.00000000e+00 1.50005508e-69
1.00000000e+00 1.23826010e-86 1.00000000e+00 8.66811516e-56
1.05385181e-55 1.00000000e+00]

*** 総入力2 ***

9.447658653673187

*** 出力1 ***

9.447658653673187

出力合計: 9.447658653673187

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.01766147 -0.04395327 0.03281642 -0.02471441 0.03804091 -0.04335416
0.03457465 -0.0219074 -0.02468469 0.03569292]
[-1.08872927 -2.70946958 2.02294553 -1.52350318 2.34500559 -2.67253739
2.13133087 -1.35046655 -1.52167069 2.20026551]]

*** 偏微分_重み2 ***

[4.86781764e-35 1.24076035e-77 1.41185525e+00 2.11786064e-69
1.41185525e+00 1.74824402e-86 1.41185525e+00 1.22381239e-55
1.48788622e-55 1.41185525e+00]

*** 偏微分_バイアス1 ***

[-0.27756316 -0.69075843 0.51573441 -0.38840542 0.59784114 -0.68134286
0.54336642 -0.34429106 -0.38793824 0.56094077]

*** 偏微分_バイアス2 ***

1.4118552530176949

順伝播開始

*** 総入力1 ***

[25.60442879 64.32512906 -41.99522885 53.68796489 -55.93926548
67.96354796 -60.41912802 43.30493781 40.65748003 -58.78267292]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 5.77701964e-19 1.00000000e+00
5.08025697e-25 1.00000000e+00 5.75845660e-27 1.00000000e+00
1.00000000e+00 2.95807730e-26]

*** 総入力2 ***

-6.489697123828337

*** 出力1 ***

-6.489697123828337

出力合計: -6.489697123828337

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.45164968  1.12399942 -1.28465732  0.63201178 -1.50066986  1.10867843
    -1.35735368  0.56022907  0.63125159 -1.4035896 ]
  [-1.46546523 -3.64703472  4.16832053 -2.05068514  4.86921521 -3.5973228
    4.404198   -1.81777217 -2.04821855  4.55421944]]
```

*** 偏微分_重み2 ***

```
[-3.82438697e+00 -3.82438697e+00 -2.20935586e-18 -3.82438697e+00
 -1.94288685e-24 -3.82438697e+00 -2.20225664e-26 -3.82438697e+00
 -3.82438697e+00 -1.13128323e-25]
```

*** 偏微分_バイアス1 ***

```
[ 0.59129382  1.47152524 -1.68185646  0.8274215  -1.96465722  1.45146721
 -1.77702957  0.73344452  0.82642627 -1.83756103]
```

*** 偏微分_バイアス2 ***

-3.8243869673787794

順伝播開始

*** 総入力1 ***

```
[ 21.28856546  30.52223394 -46.90592171  44.85904483 -67.17539717
  63.41603352 -66.38850034  23.13266816  35.74448546 -72.675936 ]
```

*** 中間層出力1 ***

```
[9.99999999e-01 1.00000000e+00 4.25615103e-21 1.00000000e+00
 6.70032226e-30 1.00000000e+00 1.47177236e-29 1.00000000e+00
 1.00000000e+00 2.73679349e-32]
```

*** 総入力2 ***

-4.615747509462334

*** 出力1 ***

-4.615747509462334

出力合計: -4.615747509462334

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -0.22133557 -0.72089143  0.9545004  -0.35534461  1.11499772 -0.70950794
   1.0085138  -0.30201005 -0.35477979  1.04286709]
 [ 0.23238127  0.75686735 -1.00213453  0.373078  -1.17064142  0.74491577
 -1.05884345  0.3170818  0.37248499 -1.09491113]]
```

*** 偏微分_重み2 ***

```
[-4.71446153e-01 -4.71446153e-01 -2.00654603e-21 -4.71446153e-01
 -3.15884115e-30 -4.71446153e-01 -6.93861415e-30 -4.71446153e-01
 -4.71446153e-01 -1.29025076e-32]
```

*** 偏微分_バイアス1 ***

```
[ 0.04807666  0.156586  -0.20732859  0.07718498 -0.24219047  0.15411338
 -0.21906093  0.0656001  0.0770623  -0.22652286]
```

*** 偏微分_バイアス2 ***

-0.471446153025493

順伝播開始

*** 総入力1 ***

```
[ 12.93846649  37.5550149  -21.88150934  28.21511126 -28.67239345
 35.3053228  -30.73538179  24.1741338  20.32280886 -29.61767549]
```

*** 中間層出力1 ***

```
[9.99997596e-01 1.00000000e+00 3.14037303e-10 1.00000000e+00
 3.52969958e-13 1.00000000e+00 4.48531854e-14 1.00000000e+00
 9.99999999e-01 1.37153523e-13]
```

*** 総入力2 ***

-4.384737725649725

*** 出力1 ***

-4.384737725649725

出力合計: -4.384737725649725

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.36994179  1.26163699 -1.70376105  0.6091444  -1.99024502  1.24131771
 -1.8001737  0.51394346  0.60813621 -1.86149353]
 [-0.73729515 -2.5144465  3.39560115 -1.21402672  3.96656462 -2.47395012
 3.58775187 -1.02429094 -1.21201738  3.70996248]]
```

*** 偏微分_重み2 ***

[-3.18558801e+00 -3.18559567e+00 -1.00039587e-09 -3.18559567e+00
-1.12441957e-12 -3.18559567e+00 -1.42884113e-13 -3.18559567e+00
-3.18559567e+00 -4.36915671e-13]

*** 偏微分_バイアス1 ***

[0.30418826 1.03739339 -1.40093424 0.50087496 -1.6364985 1.02068567
-1.48021049 0.42259505 0.50004596 -1.53063132]

*** 偏微分_バイアス2 ***

-3.1855956707402964

順伝播開始

*** 総入力1 ***

[109.82528835 232.51985687 -178.28453807 224.33045757 -243.39814584
288.18266196 -263.2181587 165.92403177 177.14105078 -260.80749864]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.73257815e-078 1.00000000e+000
1.96575032e-106 1.00000000e+000 4.85071925e-115 1.00000000e+000
1.00000000e+000 5.40433799e-114]

*** 総入力2 ***

-2.823797552559763

*** 出力1 ***

-2.823797552559763

出力合計: -2.823797552559763

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.41035166 13.1522237 -20.52448319 5.29192365 -23.97563356
12.90744608 -21.68592531 4.14507846 5.27977833 -22.42461915]
[0.04377363 0.23885338 -0.37273865 0.09610495 -0.43541391
0.23440805 -0.39383124 0.07527746 0.09588439 -0.40724642]]

*** 偏微分_重み2 ***

[1.05756351e+001 1.05756351e+001 3.94743846e-077 1.05756351e+001
2.07890581e-105 1.05756351e+001 5.12994369e-114 1.05756351e+001
1.05756351e+001 5.71543067e-113]

*** 偏微分_バイアス1 ***

[-0.54618747 -2.98030363 4.65086309 -1.19915382 5.43289632 -2.92483684
4.91404674 -0.93927785 -1.19640168 5.08143531]

*** 偏微分_バイアス2 ***

10.57563511843492

順伝播開始

*** 総入力1 ***

[-110.35327724 -243.23741513 162.39993252 -221.7475956 218.50747174
-278.31847728 244.83698784 -174.19033112 -176.74062172 234.17703963]

*** 中間層出力1 ***

[1.18626204e-048 2.30851560e-106 1.00000000e+000 4.96870091e-097
1.00000000e+000 1.34221197e-121 1.00000000e+000 2.23923872e-076
1.74792686e-077 1.00000000e+000]

*** 総入力2 ***

8.736914872276817

*** 出力1 ***

8.736914872276817

出力合計: 8.736914872276817

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.87403907 1.89419454 -1.20558642 1.14770193 -1.40830334 1.87094801
-1.2738083 1.03878606 1.14654849 -1.31719839]
[3.13204732 6.78769076 -4.32012005 4.11269573 -5.0465395 6.70438873
-4.56458756 3.72240462 4.10856247 -4.7200724]]

*** 偏微分_重み2 ***

[-3.57717813e-048 -6.96133842e-106 -3.01550417e+000 -1.49831383e-096
-3.01550417e+000 -4.04744578e-121 -3.01550417e+000 -6.75243368e-076
-5.27088074e-077 -3.01550417e+000]

*** 偏微分_バイアス1 ***

[0.75611768 1.6386384 -1.04293417 0.99285919 -1.21830144 1.61852819
-1.10195186 0.89863775 0.99186137 -1.13948796]

*** 偏微分_バイアス2 ***

-3.0155041671907625

順伝播開始

*** 総入力1 ***

[-110.07172976 -235.16091583 168.68296129 -220.67634993 227.83912562
-280.63158512 251.84196461 -168.75607353 -177.00217399 244.14499862]

*** 中間層出力1 ***

[1.57200945e-048 7.42868422e-103 1.00000000e+000 1.45037044e-096
1.00000000e+000 1.32816226e-122 1.00000000e+000 5.13060381e-074
1.34565135e-077 1.00000000e+000]

*** 総入力2 ***

9.792341330793583

*** 出力1 ***

9.792341330793583

出力合計: 9.792341330793583

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.92246196 4.16630912 -2.96990234 2.5243875 -3.41578123 4.11517804
-3.11995739 2.28482541 2.52185049 -3.21539454]
[0.970186 2.10256164 -1.49878527 1.2739526 -1.72380166 2.07675792
-1.57451176 1.15305565 1.27267227 -1.6226749]]

*** 偏微分_重み2 ***

[-3.93095604e-048 -1.85761168e-102 -2.50059314e+000 -3.62678639e-096
-2.50059314e+000 -3.32119344e-122 -2.50059314e+000 -1.28295527e-073
-3.36492654e-077 -2.50059314e+000]

*** 偏微分_バイアス1 ***

[0.62700716 1.35883346 -0.96862776 0.82332398 -1.11405027 1.34215715
-1.01756791 0.74519128 0.82249654 -1.04869455]

*** 偏微分_バイアス2 ***

-2.50059314384446

順伝播開始

*** 総入力1 ***

[-174.03592182 -378.8032261 264.79210547 -349.33182049 356.76891063

-443.12743056 394.69319775 -270.10070444 -278.95438365 381.62426259]

*** 中間層出力1 ***

[2.61312087e-076 3.07502872e-165 1.00000000e+000 1.93694820e-152
1.00000000e+000 3.56617072e-193 1.00000000e+000 4.97455805e-118
7.10641354e-122 1.00000000e+000]

*** 総入力2 ***

10.667548931139144

*** 出力1 ***

10.667548931139144

出力合計: 10.667548931139144

誤差逆伝播開始

*** 偏微分_重み1 ***

[[7.16859062 15.53558148 -12.05825842 9.41308641 -13.72087816
15.34492085 -12.6177926 8.51979302 9.40362625 -12.97366436]
[9.12473993 19.77489694 -15.34868957 11.98170881 -17.46500134
19.53220925 -16.06090821 10.84465548 11.96966719 -16.51388948]]

*** 偏微分_重み2 ***

[-2.17959700e-075 -2.56487308e-164 -8.34097277e+000 -1.61560322e-151
-8.34097277e+000 -2.97453328e-192 -8.34097277e+000 -4.14926532e-117
-5.92744018e-121 -8.34097277e+000]

*** 偏微分_バイアス1 ***

[2.09144364 4.53252177 -3.51800921 2.74627757 -4.00308022 4.47689633
-3.68125388 2.48565832 2.74351756 -3.78507983]

*** 偏微分_バイアス2 ***

-8.340972766366821

順伝播開始

*** 総入力1 ***

[-31.02830424 -49.62596467 57.27287546 -61.34677032 79.40637951
-83.21958021 83.86284599 -38.23878613 -51.86518613 85.94508094]

*** 中間層出力1 ***

[3.34640643e-14 2.80360860e-22 1.00000000e+00 2.27738349e-27
1.00000000e+00 7.21432213e-37 1.00000000e+00 2.47232858e-17]

2. 98700439e-23 1. 00000000e+00]

*** 総入力2 ***

13. 5868893993675

*** 出力1 ***

13. 5868893993675

出力合計: 13. 5868893993675

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-10. 5176081 -22. 7934843 22. 50680343 -13. 81068597 24. 94616477
-22. 51375095 23. 32774042 -12. 50006436 -13. 79680622 23. 84986812]
[10. 57114026 22. 90949777 -22. 62135776 13. 88097911 -25. 07313488
22. 62834065 -23. 44647313 12. 56368675 13. 86702872 -23. 97125834]]

*** 偏微分_重み2 ***

[2. 99359232e-13 2. 50802207e-21 8. 94569261e+00 2. 03727726e-26
8. 94569261e+00 6. 45371081e-36 8. 94569261e+00 2. 21166915e-16
2. 67208231e-22 8. 94569261e+00]

*** 偏微分_バイアス1 ***

[-2. 24307313 -4. 86112922 4. 79998926 -2. 94538247 5. 32022788 -4. 80147095
4. 97506915 -2. 66586834 -2. 94242236 5. 08642248]

*** 偏微分_バイアス2 ***

8. 945692608310921

順伝播開始

*** 総入力1 ***

[-30. 78448035 -60. 32389972 45. 40481916 -61. 35034486 62. 46750766
-77. 85795242 70. 1582354 -45. 25458153 -50. 2912024 67. 86051248]

*** 中間層出力1 ***

[4. 27041473e-14 6. 33378365e-27 1. 00000000e+00 2. 26925741e-27
1. 00000000e+00 1. 53716643e-34 1. 00000000e+00 2. 21914132e-20
1. 44147896e-22 1. 00000000e+00]

*** 総入力2 ***

10. 455896986458669

*** 出力1 ***

10.455896986458669

出力合計: 10.455896986458669

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-3.02652102 -6.55899694 4.99044314 -3.974129 5.69238775 -6.47850156
 5.22667394 -3.59698775 -3.970135 5.37692013]
 [ 1.40154929 3.03740085 -2.31102047 1.84037634 -2.63608346 3.0001243
 -2.42041641 1.66572629 1.83852676 -2.4899938 ]]
```

*** 偏微分_重み2 ***

```
[2.88019384e-13 4.27183911e-26 6.74452956e+00 1.53050737e-26
 6.74452956e+00 1.03674644e-33 6.74452956e+00 1.49670642e-19
 9.72209746e-22 6.74452956e+00]
```

*** 偏微分_バイアス1 ***

```
[-1.69114608 -3.66500741 2.78853783 -2.2206463 3.18076735 -3.62002856
 2.92053784 -2.00990897 -2.21841454 3.00449174]
```

*** 偏微分_バイアス2 ***

6.744529560784456

順伝播開始

*** 総入力1 ***

```
[-42.26873348 -86.33891016 62.6974347 -84.31976365 85.49036981
 -106.85086491 95.6764155 -63.52929567 -68.51384846 92.34674345]
```

*** 中間層出力1 ***

```
[4.39462977e-19 3.18777563e-38 1.00000000e+00 2.40099873e-37
 1.00000000e+00 3.93784830e-47 1.00000000e+00 2.56789611e-28
 1.75716960e-30 1.00000000e+00]
```

*** 総入力2 ***

8.095311640184152

*** 出力1 ***

8.095311640184152

出力合計: 8.095311640184152

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.44568834 -3.13305783 1.84861547 -1.89833538 2.18391568 -3.09460733
 1.96145662 -1.71818507 -1.89642756 2.03322521]
 [ 0.20066042 0.43486599 -0.25658639 0.26348748 -0.3031258 0.42952909
 -0.27224866 0.23848275 0.26322267 -0.28221008]]
```

*** 偏微分_重み2 ***

```
[1.41448731e-18 1.02604051e-37 3.21867229e+00 7.72802806e-37
 3.21867229e+00 1.26746432e-46 3.21867229e+00 8.26521606e-28
 5.65575308e-30 3.21867229e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.80706074 -1.74904086 1.03199627 -1.05975259 1.21917883 -1.72757573
 1.09499025 -0.95918303 -1.05868754 1.13505533]
```

*** 偏微分_バイアス2 ***

3.218672285594667

順伝播開始

*** 総入力1 ***

```
[ 186.83587973 408.81820159 -298.94364289 377.02607921 -402.83803559
 484.18565068 -437.55623024 287.42046545 299.27045868 -429.0063098 ]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.48055823e-130 1.00000000e+000
 1.12115083e-175 1.00000000e+000 9.37008830e-191 1.00000000e+000
 1.00000000e+000 4.84090937e-187]
```

*** 総入力2 ***

-8.359486467003073

*** 出力1 ***

-8.359486467003073

出力合計: -8.359486467003073

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 11.2689152 24.42169732 -20.07893972 14.79722837 -24.30466768
 24.12198171 -21.50105638 13.39298478 14.78235715 -22.40554296]
 [ 9.11425584 19.7521761 -16.23977023 11.96794214 -19.65752296
```

19. 50976725 -17. 38997279 10. 83219526 11. 95591435 -18. 1215181]]

*** 偏微分_重み2 ***

[1. 25936087e+001 1. 25936087e+001 1. 86455710e-129 1. 25936087e+001
1. 41193348e-174 1. 25936087e+001 1. 18003225e-189 1. 25936087e+001
1. 25936087e+001 6. 09645183e-186]

*** 偏微分_バイアス1 ***

[-2. 48341626 -5. 38199456 4. 42494815 -3. 26097738 5. 35620385 -5. 31594396
4. 73835078 -2. 95151358 -3. 2577001 4. 93767934]

*** 偏微分_バイアス2 ***

12. 593608687438746

順伝播開始

*** 総入力1 ***

[91. 751283 209. 47542254 -145. 32293526 180. 43681772 -191. 90756748
232. 93369939 -206. 80348474 143. 15217045 143. 7284494 -201. 66270814]

*** 中間層出力1 ***

[1. 00000000e+00 1. 00000000e+00 7. 70994220e-64 1. 00000000e+00
4. 52483146e-84 1. 00000000e+00 1. 53598771e-90 1. 00000000e+00
1. 00000000e+00 2. 62421039e-88]

*** 総入力2 ***

-14. 530354723848058

*** 出力1 ***

-14. 530354723848058

出力合計: -14. 530354723848058

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 25702312 -0. 41668271 0. 24373515 -0. 29985277 0. 29503061
-0. 41304451 0. 260998 -0. 28280688 -0. 29967225 0. 27197742]
[-8. 91324224 -14. 45003824 8. 45243174 -10. 39852118 10. 23129445
-14. 32386994 9. 05108606 -9. 80739071 -10. 39226099 9. 43183879]]

*** 偏微分_重み2 ***

[-5. 65591421e+00 -5. 65591421e+00 -4. 36067716e-63 -5. 65591421e+00
-2. 55920585e-83 -5. 65591421e+00 -8. 68741471e-90 -5. 65591421e+00

-5.65591421e+00 -1.48423088e-87]

*** 偏微分_バイアス1 ***

[2.09563114 3.39741132 -1.98728798 2.44484152 -2.40552412 3.36774734
-2.1280402 2.30585827 2.44336966 -2.21756063]

*** 偏微分_バイアス2 ***

-5.655914209893199

順伝播開始

*** 総入力1 ***

[-62.55049545 -125.29989111 97.42203018 -125.44125403 133.82430779
-160.86362801 146.88805754 -91.95938319 -101.64378372 144.15797682]

*** 中間層出力1 ***

[6.83384280e-28 3.82779531e-55 1.00000000e+00 3.32319306e-55
1.00000000e+00 1.37345368e-70 1.00000000e+00 1.15490782e-40
7.18895242e-45 1.00000000e+00]

*** 総入力2 ***

6.48313772679783

*** 出力1 ***

6.48313772679783

出力合計: 6.48313772679783

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.46540711 2.61780304 -1.08808944 1.77454427 -1.3170841 2.59154312
-1.16515477 1.65150987 1.77324131 -1.21416943]
[-0.60154011 -1.07459117 0.44665366 -0.72843891 0.54065448 -1.06381164
0.47828848 -0.67793409 -0.72790406 0.49840867]]

*** 偏微分_重み2 ***

[-7.70452355e-28 -4.31548398e-55 -1.12740720e+00 -3.74659177e-55
-1.12740720e+00 -1.54844156e-70 -1.12740720e+00 -1.30205138e-40
-8.10487669e-45 -1.12740720e+00]

*** 偏微分_バイアス1 ***

[0.419568 0.74951621 -0.3115363 0.5080786 -0.3771009 0.7419976
-0.33360126 0.47285201 0.50770554 -0.34763489]

*** 偏微分_バイアス2 ***

-1.1274071958567067

順伝播開始

*** 総入力1 ***

[58.65314002 116.16249281 -105.05910011 122.40716935 -146.63635726
161.22440222 -154.11566205 83.57257333 96.56700251 -157.24645881]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.36272157e-46 1.00000000e+00
2.07319042e-64 1.00000000e+00 1.17062662e-67 1.00000000e+00
1.00000000e+00 5.11364577e-69]

*** 総入力2 ***

-11.68003825729042

*** 出力1 ***

-11.68003825729042

出力合計: -11.68003825729042

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-4.7241014 -8.43913404 5.98979525 -5.72068132 7.18336154 -8.3544787
6.39147527 -5.32404959 -5.71648091 6.64694953]
[3.03628137 5.4240126 -3.84976998 3.67680468 -4.61690065 5.36960279
-4.10793835 3.42188095 3.67410499 -4.27213714]]

*** 偏微分_重み2 ***

[-3.30401315e+00 -3.30401315e+00 -7.80646315e-46 -3.30401315e+00
-6.84984842e-64 -3.30401315e+00 -3.86776576e-67 -3.30401315e+00
-3.30401315e+00 -1.68955529e-68]

*** 偏微分_バイアス1 ***

[0.96701494 1.72747535 -1.22610017 1.17101304 -1.47042101 1.71014656
-1.30832334 1.08982324 1.17015322 -1.36061845]

*** 偏微分_バイアス2 ***

-3.3040131510068456

順伝播開始

*** 総入力1 ***

[117.21790876 261.40355614 -189.9473795 235.07471018 -254.16629501
303.63531767 -274.28298435 181.11328939 186.73349509 -269.0736287]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.21292975e-083 1.00000000e+000
4.13981174e-111 1.00000000e+000 7.59300031e-120 1.00000000e+000
1.00000000e+000 1.38933772e-117]

*** 総入力2 ***

-10.061071813297067

*** 出力1 ***

-10.061071813297067

出力合計: -10.061071813297067

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.29632747 2.50327949 -1.94598438 1.62009963 -2.33375412 2.47577638
-2.0764835 1.49124061 1.61873499 -2.15948282]
[2.0261871 3.91267849 -3.04161451 2.53224979 -3.64770677 3.86969055
-3.24558739 2.33084043 2.53011683 -3.37531706]]

*** 偏微分_重み2 ***

[2.54776865e+000 2.54776865e+000 8.18580170e-083 2.54776865e+000
1.05472826e-110 2.54776865e+000 1.93452081e-119 2.54776865e+000
2.54776865e+000 3.53971110e-117]

*** 偏微分_バイアス1 ***

[-0.6298245 -1.21622567 0.94546221 -0.78713015 1.13386127 -1.20286321
1.00886559 -0.72452362 -0.78646713 1.04919105]

*** 偏微分_バイアス2 ***

2.5477686485561737

順伝播開始

*** 総入力1 ***

[-86.05225161 -189.84559776 127.8894557 -167.90192659 169.40555845
-213.84049272 187.69713536 -133.55219459 -135.98051036 179.75135729]

*** 中間層出力1 ***

```
[4. 24601936e-38  3. 55716884e-83  1. 00000000e+00  1. 20536834e-73
 1. 00000000e+00  1. 34975207e-93  1. 00000000e+00  9. 97743358e-59
 8. 79862288e-60  1. 00000000e+00]
```

*** 総入力2 ***

6. 930667360519225

*** 出力1 ***

6. 930667360519225

出力合計: 6. 930667360519225

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0. 35350689  0. 64175516 -0. 28744568  0. 43083123 -0. 34472401  0. 63518678
 -0. 306722   0. 40005669  0. 43050532 -0. 31898201]
 [ 1. 56735027  2. 84536217 -1. 27445343  1. 91018467 -1. 52840946  2. 81623981
 -1. 3599192   1. 77373902  1. 90873969 -1. 41427666]]
```

*** 偏微分_重み2 ***

```
[-5. 95557912e-38 -4. 98937916e-83 -1. 40262646e+00 -1. 69068153e-73
 -1. 40262646e+00 -1. 89319798e-93 -1. 40262646e+00 -1. 39946124e-58
 -1. 23411813e-59 -1. 40262646e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0. 50342893  0. 91392311 -0. 40935121  0. 61354647 -0. 49092124  0. 90456908
 -0. 4368026   0. 56972047  0. 61308235 -0. 45426208]
```

*** 偏微分_バイアス2 ***

-1. 4026264635953893

順伝播開始

*** 総入力1 ***

```
[-153. 22462249 -336. 92737724  233. 37219763 -301. 13565234  310. 61806118
 -385. 33751925  341. 26955196 -236. 49628424 -242. 80145681  329. 58278475]
```

*** 中間層出力1 ***

```
[2. 85359255e-067  4. 72388443e-147  1. 00000000e+000  1. 65366633e-131
 1. 00000000e+000  4. 46726504e-168  1. 00000000e+000  1. 95419890e-103
 3. 56999088e-106  1. 00000000e+000]
```

*** 総入力2 ***

7. 421586622777612

*** 出力1 ***

7. 421586622777612

出力合計: 7. 421586622777612

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 5.89951107 10.70995165 -5.11434631 7.18994078 -6.07023758
    10.60033499 -5.43603974 6.67635892 7.18450185 -5.64064137]
  [ 13.31074492 24.16427953 -11.53922052 16.22227107 -13.69594582
    23.91695742 -12.26503984 15.06350433 16.2099995 -12.72667133]]
```

*** 偏微分_重み2 ***

```
[-2.28420615e-066 -3.78131275e-146 -8.00466819e+000 -1.32370503e-130
 -8.00466819e+000 -3.57589744e-167 -8.00466819e+000 -1.56427137e-102
 -2.85765925e-105 -8.00466819e+000]
```

*** 偏微分_バイアス1 ***

```
[ 2.87302547 5.21568034 -2.49065508 3.50145678 -2.95616823 5.1622977
 -2.64731779 3.25134558 3.49880805 -2.74695753]
```

*** 偏微分_バイアス2 ***

-8.00466819499045

順伝播開始

*** 総入力1 ***

```
[ 18.91683349 54.2939515 -27.78186988 32.94646813 -32.3114621
 43.39279056 -33.39167116 32.65717421 26.15710347 -31.17321564]
```

*** 中間層出力1 ***

```
[9.99999994e-01 1.00000000e+00 8.59977747e-13 1.00000000e+00
 9.27492286e-15 1.00000000e+00 3.14906392e-15 1.00000000e+00
 1.00000000e+00 2.89497263e-14]
```

*** 総入力2 ***

-10.650967816237618

*** 出力1 ***

-10.650967816237618

出力合計: -10.650967816237618

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 7.35457958 13.35147788 -13.958258      8.96328372 -15.88494245
    13.21482511 -14.6066599   8.32303089  8.95650331 -15.01905281]
  [-11.51404197 -20.90255124 21.85250246 -14.03256621 24.86884423
   -20.68861302 22.8676151  -13.03021143 -14.02195107 23.5132413 ]]
```

*** 偏微分_重み2 ***

```
[-1.03199204e+01 -1.03199204e+01 -8.87490193e-12 -1.03199204e+01
 -9.57164660e-14 -1.03199204e+01 -3.24980890e-14 -1.03199204e+01
 -1.03199204e+01 -2.98758872e-13]
```

*** 偏微分_バイアス1 ***

```
[ 2.91301256  5.28827274 -5.5286071   3.55019043 -6.29173107  5.23414712
 -5.78542706  3.29659816  3.54750484 -5.94876824]
```

*** 偏微分_バイアス2 ***

-10.319920432703814

順伝播開始

*** 総入力1 ***

```
[ -63.02353915 -119.08178342 103.91907861 -126.04031526 143.31339261
 -163.14927373 154.9080859  -88.84964575 -102.71628786 154.34835368]
```

*** 中間層出力1 ***

```
[4.25818689e-28 1.92060726e-52 1.00000000e+00 1.82551995e-55
 1.00000000e+00 1.39691729e-71 1.00000000e+00 2.58874415e-39
 2.45970476e-45 1.00000000e+00]
```

*** 総入力2 ***

10.945614921314188

*** 出力1 ***

10.945614921314188

出力合計: 10.945614921314188

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.46446119 -6.5091635   5.82278602 -3.54947698  6.62651606 -6.41699589
```

```
6. 09327146 -3. 11764839 -3. 54490383 6. 26530407]
[ 1. 67528922 4. 42479332 -3. 95820826 2. 41286028 -4. 50456714 4. 36213971
-4. 14207861 2. 11931223 2. 40975155 -4. 25902278]]
```

*** 偏微分_重み2 ***

```
[1. 18150136e-27 5. 32902888e-52 2. 77465831e+00 5. 06519409e-55
2. 77465831e+00 3. 87596816e-71 2. 77465831e+00 7. 18288047e-39
6. 82484025e-45 2. 77465831e+00]
```

*** 偏微分_バイアス1 ***

```
[-0. 49477746 -1. 30681196 1. 16901141 -0. 71261061 1. 33037224 -1. 28830794
1. 22331541 -0. 62591456 -0. 71169248 1. 25785353]
```

*** 偏微分_バイアス2 ***

```
2. 774658307438406
```

順伝播開始

*** 総入力1 ***

```
[-26. 73270199 -65. 10718906 29. 13945922 -47. 91439572 35. 65171603
-59. 34069333 43. 16598107 -44. 42193015 -40. 19431974 37. 08136992]
```

*** 中間層出力1 ***

```
[2. 45547230e-12 5. 30038062e-29 1. 00000000e+00 1. 55253834e-21
1. 00000000e+00 1. 69302875e-26 1. 00000000e+00 5. 10270968e-20
3. 49807193e-18 1. 00000000e+00]
```

*** 総入力2 ***

```
9. 974484513708562
```

*** 出力1 ***

```
9. 974484513708562
```

出力合計: 9. 974484513708562

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 2. 75015311 7. 2637363 -5. 90884686 3. 96094902 -6. 80574906
7. 1608842 -6. 21068824 3. 47906084 3. 95584573 -6. 40266369]
[ -5. 11172219 -13. 50113996 10. 98280074 -7. 3622341 12. 64987698
-13. 30996828 11. 5438347 -6. 46654633 -7. 35274859 11. 90066034]]
```

*** 偏微分_重み2 ***

[2.13704524e-11 4.61302421e-28 8.70319425e+00 1.35120428e-20
8.70319425e+00 1.47347581e-25 8.70319425e+00 4.44098735e-19
3.04443995e-17 8.70319425e+00]

*** 偏微分_バイアス1 ***

[-1.55195482 -4.09904107 3.33445556 -2.23522606 3.84059164 -4.041
3.50478942 -1.96328895 -2.2323462 3.6131242]

*** 偏微分_バイアス2 ***

8.703194246997905

順伝播開始

*** 総入力1 ***

[-114.23413852 -243.0627776 173.65748424 -224.16846775 233.28525961
-287.52906105 255.61349218 -172.63365303 -181.49145982 248.46263091]

*** 中間層出力1 ***

[2.44762000e-050 2.74901387e-106 1.00000000e+000 4.41439752e-098
1.00000000e+000 1.34188532e-125 1.00000000e+000 1.06207967e-075
1.51098616e-079 1.00000000e+000]

*** 総入力2 ***

6.9283665272616135

*** 出力1 ***

6.9283665272616135

出力合計: 6.9283665272616135

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.75443989 7.2750586 -4.06785375 3.96712312 -4.966154 7.17204617
-4.37016563 3.4844838 3.96201188 -4.56244031]
[1.33916328 3.53701359 -1.97772345 1.92874988 -2.41446223 3.48693065
-2.12470251 1.6940986 1.92626488 -2.21818329]]

*** 偏微分_重み2 ***

[-1.24849905e-049 -1.40223613e-105 -5.10086961e+000 -2.25172662e-097
-5.10086961e+000 -6.84478203e-125 -5.10086961e+000 -5.41752994e-075
-7.70734339e-079 -5.10086961e+000]

*** 偏微分_バイアス1 ***

```
[ 0.90958778  2.40241381 -1.34331124  1.31004737 -1.63995338  2.36839642  
-1.4431425   1.15066729  1.3083595  -1.50663661]
```

*** 偏微分_バイアス2 ***

-5.100869612485128

順伝播開始

*** 総入力1 ***

```
[-29.03160786 -60.92622315  38.70846693 -55.05228292  51.43047097  
-69.25692532  58.69342598 -44.17707945 -45.69225045  55.07979462]
```

*** 中間層出力1 ***

```
[2.46452316e-13 3.46798719e-27 1.00000000e+00 1.23338117e-24  
1.00000000e+00 8.35794485e-31 1.00000000e+00 6.51835741e-20  
1.43254331e-20 1.00000000e+00]
```

*** 総入力2 ***

8.713670891631233

*** 出力1 ***

8.713670891631233

出力合計: 8.713670891631233

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -0.45643306 -1.2055363   0.85376845 -0.65738452  1.00262409 -1.18846631  
  0.90386398 -0.57740727 -0.65653755  0.93572546]  
[ -0.75494447 -1.9939681   1.41214084 -1.08732003  1.65834944 -1.96573417  
  1.49499931 -0.95503692 -1.08591913  1.54769849]]
```

*** 偏微分_重み2 ***

```
[1.48877675e-12 2.09495239e-26 6.04083082e+00 7.45064697e-24  
6.04083082e+00 5.04889308e-30 6.04083082e+00 3.93762943e-19  
8.65375180e-20 6.04083082e+00]
```

*** 偏微分_バイアス1 ***

```
[-1.0772018  -2.84511788  2.01493051 -1.55145595  2.36623628 -2.80483195  
 2.13315814 -1.36270616 -1.54945705  2.2083526 ]
```

*** 偏微分_バイアス2 ***

6.040830816481272

順伝播開始

*** 総入力1 ***

[-66.9134113 -131.46347929 107.36733539 -132.29602035 146.73118001
-171.5209377 158.97222121 -96.02335636 -108.0541387 157.30151056]

*** 中間層出力1 ***

[8.70712354e-30 8.05631381e-58 1.00000000e+00 3.50403458e-58
1.00000000e+00 3.23149305e-75 1.00000000e+00 1.98420344e-42
1.18218057e-47 1.00000000e+00]

*** 総入力2 ***

6.599380105862963

*** 出力1 ***

6.599380105862963

出力合計: 6.599380105862963

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.08970458 2.87814039 -1.53025964 1.56946328 -1.88564293 2.83738688
-1.64985951 1.37852272 1.56744118 -1.72592673]
[-0.5948372 -1.57109091 0.83532305 -0.85672315 1.02931618 -1.54884478
0.90060905 -0.7524944 -0.85561934 0.94213188]]

*** 偏微分_重み2 ***

[-1.26158588e-29 -1.16728926e-57 -1.44891235e+00 -5.07703897e-58
-1.44891235e+00 -4.68215018e-75 -1.44891235e+00 -2.87493686e-42
-1.71287603e-47 -1.44891235e+00]

*** 偏微分_バイアス1 ***

[0.25837025 0.68241051 -0.36282638 0.37212161 -0.44708818 0.6727478
-0.39118365 0.32684938 0.37164217 -0.40921928]

*** 偏微分_バイアス2 ***

-1.4489123489070774

順伝播開始

*** 総入力1 ***

[-53.04536315 -104.79534928 82.97702417 -104.07224787 113.06985557
-134.57963708 123.22953248 -76.49189457 -85.36986018 121.20274906]

*** 中間層出力1 ***

[9.17680479e-24 3.07579989e-46 1.00000000e+00 6.33865378e-46
1.00000000e+00 3.57113477e-59 1.00000000e+00 6.02548873e-34
8.40118993e-38 1.00000000e+00]

*** 総入力2 ***

7.106499427980441

*** 出力1 ***

7.106499427980441

出力合計: 7.106499427980441

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.51429645 -1.35836576 0.77973323 -0.74072313 0.94745975 -1.33913175
0.83617952 -0.65060692 -0.73976878 0.87208017]
[0.25436423 0.67182974 -0.38564574 0.36635187 -0.46860107 0.66231686
-0.41356334 0.32178158 0.36587986 -0.43131932]]

*** 偏微分_重み2 ***

[8.63138149e-24 2.89298975e-46 9.40565010e-01 5.96191595e-46
9.40565010e-01 3.35888441e-59 9.40565010e-01 5.66736387e-34
7.90186529e-38 9.40565010e-01]

*** 偏微分_バイアス1 ***

[-0.16772168 -0.44298846 0.25428558 -0.24156366 0.30898433 -0.43671589
0.27269377 -0.21217508 -0.24125243 0.28440164]

*** 偏微分_バイアス2 ***

0.9405650097342342

順伝播開始

*** 総入力1 ***

[-115.72167467 -245.17734425 176.98427826 -227.04592279 238.05628419
-292.0597316 260.16798025 -174.0219159 -184.02664226 253.49338259]

*** 中間層出力1 ***

[5.52987426e-051 3.31766327e-107 1.00000000e+000 2.48432604e-099
1.00000000e+000 1.44567336e-127 1.00000000e+000 2.64997756e-076
1.19741513e-080 1.00000000e+000]

*** 総入力2 ***
6.777301674573458

*** 出力1 ***
6.777301674573458

出力合計: 6.777301674573458

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.342773 8.82897085 -4.82536978 4.81447867 -5.91554199 8.70395554
 -5.1922538 4.22875025 4.80827568 -5.42559729]
[1.01684357 2.68569904 -1.4678371 1.46452412 -1.79945836 2.64767043
 -1.57944015 1.28635043 1.46263722 -1.65042129]]

*** 偏微分_重み2 ***

[-3.04507711e-050 -1.82690239e-106 -5.50659376e+000 -1.36801743e-098
 -5.50659376e+000 -7.96073592e-127 -5.50659376e+000 -1.45923499e-075
 -6.59367868e-080 -5.50659376e+000]

*** 偏微分_バイアス1 ***

[0.98193657 2.59350226 -1.41744804 1.41424879 -1.73768515 2.55677913
 -1.52521989 1.24219159 1.41242667 -1.59376434]

*** 偏微分_バイアス2 ***

-5.506593763949994

順伝播開始

*** 総入力1 ***

[-8.96186611 -30.39056409 -3.62728092 -13.09908008 -8.84656731
 -11.45483386 -2.75926149 -20.50652177 -11.39628972 -9.90147542]

*** 中間層出力1 ***

[1.28190348e-04 6.33207009e-14 2.58997498e-02 2.04710875e-06
 1.43854071e-04 1.05980085e-05 5.95657219e-02 1.24202618e-09
 1.12369741e-05 5.00981978e-05]

*** 総入力2 ***

1.5187004998579776

*** 出力1 ***

1. 5187004998579776

出力合計: 1. 5187004998579776

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.47849251  3.9050116 -3.51216783  2.1294209 -4.12586554  3.84971792
    -3.71579407  1.87035602  2.12667735 -3.85032252]
  [-2.01332105 -5.31760694  4.78265622 -2.89971567  5.61835238 -5.24231138
    5.05994204 -2.5469369  -2.89597967  5.24313468]]
```

*** 偏微分_重み2 ***

```
[3.14483776e-04 1.55341907e-13 6.35387237e-02 5.02208239e-06
 3.52910902e-04 2.59996308e-05 1.46129981e-01 3.04700853e-09
 2.75671773e-05 1.22903718e-04]
```

*** 偏微分_バイアス1 ***

```
[-0.437465  -1.15543764  1.03920073 -0.63006549  1.22078519 -1.13907703
 1.09945085 -0.55341186 -0.62925372  1.13925592]
```

*** 偏微分_バイアス2 ***

2.453256277039212

順伝播開始

*** 総入力1 ***

```
[ 114.46235685  258.6048272 -177.78652697  226.67758968 -237.00007534
 292.33505482 -256.63378305  177.97264888  180.50765408 -250.33629113]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 6.14175347e-078 1.00000000e+000
 1.18079653e-103 1.00000000e+000 3.51046101e-112 1.00000000e+000
 1.00000000e+000 1.90690977e-109]
```

*** 総入力2 ***

-6.214161957931246

*** 出力1 ***

-6.214161957931246

出力合計: -6.214161957931246

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.64084496  1.69255491 -1.93088921  0.92295834 -2.27384185
  1.66859052 -2.03800074  0.81067115  0.92177062 -2.12200143]
 [ 3.33729745  8.81423672 -10.05539882  4.80644572 -11.84137675
  8.68943856 -10.61319834  4.22169315  4.80026047 -11.05064469]]
```

*** 偏微分_重み2 ***

```
[5.31641420e+000 5.31641420e+000 3.26521054e-077 5.31641420e+000
 6.27760343e-103 5.31641420e+000 1.86630648e-111 5.31641420e+000
 5.31641420e+000 1.01379222e-108]
```

*** 偏微分_バイアス1 ***

```
[-0.74559412 -1.96921106  2.24650225 -1.07382027  2.64551213 -1.94132959
 2.37112166 -0.94317921 -1.07243841  2.46885266]
```

*** 偏微分_バイアス2 ***

5.316414204793693

順伝播開始

*** 総入力1 ***

```
[-104.62413399 -216.99743886  163.96122962 -205.26278446  221.5114346
 -266.27381666  240.22396168 -154.33819162 -167.10109848  235.91823769]
```

*** 中間層出力1 ***

```
[3.65019390e-046 5.74393764e-095 1.00000000e+000 7.16977236e-090
 1.00000000e+000 2.28428742e-116 1.00000000e+000 9.37076469e-068
 2.68481899e-073 1.00000000e+000]
```

*** 総入力2 ***

8.146022441861264

*** 出力1 ***

8.146022441861264

出力合計: 8.146022441861264

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3.95156382  8.21318998 -4.83923212  5.09471338 -5.69874669  8.11608408
 -5.1076771  4.6397153  5.08990061 -5.31820127]
 [-0.67106852 -1.39479292  0.82181548 -0.86520221  0.96778128 -1.37830205
 0.86740376 -0.78793283 -0.86438489  0.90315571]]
```

*** 偏微分_重み2 ***

[-1.22841900e-045 -1.93303762e-094 -3.36535273e+000 -2.41288130e-089
-3.36535273e+000 -7.68743288e-116 -3.36535273e+000 -3.15359285e-067
-9.03536290e-073 -3.36535273e+000]

*** 偏微分_バイアス1 ***

[0.91323185 1.8981211 -1.11837771 1.17742107 -1.31701706 1.8756793
-1.18041707 1.07226809 1.17630881 -1.22907056]

*** 偏微分_バイアス2 ***

-3.3653527267729064

順伝播開始

*** 総入力1 ***

[191.47057165 423.52476838 -302.27088194 377.7658861 -403.92566344
489.94016134 -435.47365288 292.64000557 302.81744567 -426.79842714]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 5.31402919e-132 1.00000000e+000
3.77844642e-176 1.00000000e+000 7.51961388e-190 1.00000000e+000
1.00000000e+000 4.40350210e-186]

*** 総入力2 ***

-8.583630227406053

*** 出力1 ***

-8.583630227406053

出力合計: -8.583630227406053

誤差逆伝播開始

*** 偏微分_重み1 ***

[[8.0395519 16.70993311 -18.13701151 10.36531725 -20.96434056
16.51236881 -19.02004749 9.43961268 10.35552556 -19.71255593]
[11.41877955 23.73354196 -25.76045763 14.72212308 -29.77618482
23.45293638 -27.01465604 13.4073214 14.7082157 -27.99824334]]

*** 偏微分_重み2 ***

[1.11498508e+001 1.11498508e+001 5.92506324e-131 1.11498508e+001
4.21291138e-175 1.11498508e+001 8.38425726e-189 1.11498508e+001
1.11498508e+001 4.90983913e-185]

*** 偏微分_バイアス1 ***

[-2.37952011 -4.94575099 5.36813296 -3.06789248 6.20495651 -4.88727656
5.62949104 -2.79390549 -3.06499437 5.83445741]

*** 偏微分_バイアス2 ***

11.149850773585863

順伝播開始

*** 総入力1 ***

[20.66380292 42.39583523 -42.7462863 43.20570726 -58.82649638
59.45646912 -59.13727552 28.54398205 33.78919777 -62.02051704]

*** 中間層出力1 ***

[9.99999999e-01 1.00000000e+00 2.72598673e-19 1.00000000e+00
2.83124356e-26 1.00000000e+00 2.07494966e-26 1.00000000e+00
1.00000000e+00 1.16099857e-27]

*** 総入力2 ***

-14.047057104482036

*** 出力1 ***

-14.047057104482036

出力合計: -14.047057104482036

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-7.71660868 -12.55772302 10.12681501 -9.01520163 11.70545647
-12.44741283 10.61985887 -8.49833374 -9.00973444 11.00652151]
[5.51093257 8.96828745 -7.2322178 6.43834233 -8.35962843
8.88950777 -7.58433252 6.06921332 6.43443785 -7.86047348]]

*** 偏微分_重み2 ***

[-1.10573474e+01 -1.10573474e+01 -3.01421822e-18 -1.10573474e+01
-3.13060435e-25 -1.10573474e+01 -2.29434392e-25 -1.10573474e+01
-1.10573474e+01 -1.28375645e-26]

*** 偏微分_バイアス1 ***

[4.05656802 6.60150848 -5.32359689 4.73922939 -6.15347783 6.54351918
-5.58278665 4.4675155 4.73635533 -5.78605253]

*** 偏微分_バイアス2 ***

-11.05734737312555

順伝播開始

*** 総入力1 ***

[67.02714914 144.32686441 -116.59127176 135.07492813 -157.65142401
178.77420324 -166.01868443 99.24099155 107.69302322 -166.63141922]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.31768301e-51 1.00000000e+00
3.41080185e-69 1.00000000e+00 7.92503991e-73 1.00000000e+00
1.00000000e+00 4.29431722e-73]

*** 総入力2 ***

-8.628956894453353

*** 出力1 ***

-8.628956894453353

出力合計: -8.628956894453353

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.47799751 -0.99044445 1.07195472 -0.61545759 1.2390588 -0.97876777
1.12414493 -0.56074552 -0.61487887 1.16507437]
[0.08100979 0.16785797 -0.18167212 0.10430617 -0.20999249 0.16587904
-0.19051719 0.09503371 0.10420809 -0.1974538]]

*** 偏微分_重み2 ***

[-7.52187942e-01 -7.52187942e-01 -1.74333321e-51 -7.52187942e-01
-2.56556402e-69 -7.52187942e-01 -5.96111947e-73 -7.52187942e-01
-7.52187942e-01 -3.23013364e-73]

*** 偏微分_バイアス1 ***

[0.1614841 0.33460641 -0.3621434 0.20792287 -0.41859694 0.33066163
-0.37977506 0.18943924 0.20772736 -0.39360244]

*** 偏微分_バイアス2 ***

-0.752187942335393

順伝播開始

*** 総入力1 ***

[-73.49714506 -150.47532106 115.73094512 -144.3744564 156.81447638
-187.87317334 170.18368416 -107.48194276 -118.03654992 167.31003341]

*** 中間層出力1 ***

[1.20391400e-32 4.46065261e-66 1.00000000e+00 1.99053702e-63
1.00000000e+00 2.55692225e-82 1.00000000e+00 2.09500640e-47
5.46232714e-52 1.00000000e+00]

*** 総入力2 ***

9.370073814163039

*** 出力1 ***

9.370073814163039

出力合計: 9.370073814163039

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.02430647 -2.17806997 1.49273963 -1.33379496 1.72543873 -2.15178019
1.56541659 -1.21061189 -1.33249198 1.62241246]
[0.34801992 0.74002436 -0.50717548 0.4531722 -0.58623768 0.7310921
-0.53186832 0.41131933 0.4527295 -0.55123332]]

*** 偏微分_重み2 ***

[1.33290289e-32 4.93857266e-66 1.10714128e+00 2.20380571e-63
1.10714128e+00 2.83087419e-82 1.10714128e+00 2.31946807e-47
6.04756788e-52 1.10714128e+00]

*** 偏微分_バイアス1 ***

[-0.28765569 -0.61166676 0.41920564 -0.37456925 0.48455446 -0.60428381
0.43961549 -0.33997579 -0.37420334 0.45562163]

*** 偏微分_バイアス2 ***

1.1071412845632427

順伝播開始

*** 総入力1 ***

[-60.92732865 -132.2962734 87.57596259 -115.40529873 115.2329519
-147.5679573 127.38559446 -92.8899737 -94.87107253 121.69473419]

*** 中間層出力1 ***

[3.46415542e-27 3.50314801e-58 1.00000000e+00 7.58779479e-51

1. 00000000e+00 8. 16677214e-65 1. 00000000e+00 4. 55404164e-41
6. 28082524e-42 1. 00000000e+00]

*** 総入力2 ***

8. 982574364565904

*** 出力1 ***

8. 982574364565904

出力合計: 8. 982574364565904

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 40472513 -0. 86060147 0. 56607732 -0. 52701057 0. 65802164 -0. 85021382
0. 59479352 -0. 47833834 -0. 52649574 0. 61731379]
[-1. 90164406 -4. 04362752 2. 65977447 -2. 47621521 3. 09178467 -3. 99482004
2. 7947006 -2. 24752355 -2. 47379621 2. 90051449]]

*** 偏微分_重み2 ***

[1. 23455493e-26 1. 24845110e-57 3. 56379774e+00 2. 70413659e-50
3. 56379774e+00 2. 91047241e-64 3. 56379774e+00 1. 62296833e-40
2. 23835908e-41 3. 56379774e+00]

*** 偏微分_バイアス1 ***

[-0. 92594027 -1. 96890556 1. 29508584 -1. 20570796 1. 50543838 -1. 94514044
1. 36078349 -1. 09435441 -1. 20453011 1. 41230593]

*** 偏微分_バイアス2 ***

3. 5637977376097654

順伝播開始

*** 総入力1 ***

[-111. 19695056 -234. 8298355 173. 39306718 -217. 14746319 232. 78070185
-281. 66850388 252. 61730396 -165. 60688446 -176. 84023873 247. 15247243]

*** 中間層出力1 ***

[5. 10244070e-049 1. 03442321e-102 1. 00000000e+000 4. 94373266e-095
1. 00000000e+000 4. 70893873e-123 1. 00000000e+000 1. 19631049e-072
1. 58219549e-077 1. 00000000e+000]

*** 総入力2 ***

7. 7352451564024856

*** 出力1 ***

7.7352451564024856

出力合計: 7.7352451564024856

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.85801662 8.20362891 -4.66778803 5.02369483 -5.54424151 8.10460929
-4.9415234 4.55972986 5.01878722 -5.15619648]
[0.34320691 0.72979005 -0.41524371 0.44690497 -0.4932125 0.72098133
-0.43959505 0.40563091 0.44646839 -0.45869224]]

*** 偏微分_重み2 ***

[-2.04899735e-048 -4.15395402e-102 -4.01572006e+000 -1.98526464e-094
-4.01572006e+000 -1.89097797e-122 -4.01572006e+000 -4.80404804e-072
-6.35365416e-077 -4.01572006e+000]

*** 偏微分_バイアス1 ***

[1.04335801 2.21858089 -1.26235175 1.35860282 -1.49937892 2.19180213
-1.33638046 1.23312861 1.35727561 -1.39443642]

*** 偏微分_バイアス2 ***

-4.015720055716293

順伝播開始

*** 総入力1 ***

[115.85080879 257.45529701 -187.46044569 227.03517591 -249.13026413
296.40521471 -266.03818321 176.18047494 182.26295916 -261.91194437]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.86333937e-082 1.00000000e+000
6.36943654e-109 1.00000000e+000 2.89124609e-116 1.00000000e+000
1.00000000e+000 1.79096795e-114]

*** 総入力2 ***

-8.30625013036098

*** 出力1 ***

-8.30625013036098

出力合計: -8.30625013036098

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.31192541  2.78965859 -3.01755512  1.70831636 -3.49942989  2.75598679
   -3.16805503  1.55054424  1.70664751 -3.28608244]
 [ 2.03428227  4.32566743 -4.67904565  2.64892931 -5.42624461  4.27345567
  -4.91241204  2.40428659  2.64634159 -5.09542631]]
```

*** 偏微分_重み2 ***

```
[3.35828977e+000 3.35828977e+000 1.29742131e-081 3.35828977e+000
 2.13904136e-108 3.35828977e+000 9.70964215e-116 3.35828977e+000
 3.35828977e+000 6.01458936e-114]
```

*** 偏微分_バイアス1 ***

```
[-0.68621144 -1.45914976  1.57835258 -0.89354641  1.83040043 -1.4415375
 1.65707257 -0.81102264 -0.89267351  1.71880761]
```

*** 偏微分_バイアス2 ***

3.3582897682165562

順伝播開始

*** 総入力1 ***

```
[ 61.49918437 126.2282368 -112.81664301 126.5546038 -155.12924085
 169.83061091 -161.74640015  87.7038521  100.87701036 -164.9297684 ]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.01007698e-49 1.00000000e+00
 4.24841290e-68 1.00000000e+00 5.68108056e-71 1.00000000e+00
 1.00000000e+00 2.35457042e-72]
```

*** 総入力2 ***

-9.951812116787092

*** 出力1 ***

-9.951812116787092

出力合計: -9.951812116787092

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.00583818 -3.84840237  3.76254596 -2.50009233  4.36338866 -3.80641749
  3.95020212 -2.30336856 -2.49801148  4.09736881]
```

```
[ 1.24372907  2.38621937 -2.33298371  1.5501936  -2.70553895  2.36018645  
-2.44934076  1.42821414  1.54890336 -2.54059213]]
```

*** 偏微分_重み2 ***

```
[-1.70931896e+00 -1.70931896e+00 -1.72654373e-49 -1.70931896e+00  
-7.26189273e-68 -1.70931896e+00 -9.71077872e-71 -1.70931896e+00  
-1.70931896e+00 -4.02471186e-72]
```

*** 偏微分_バイアス1 ***

```
[ 0.42827532  0.82168929 -0.80335771  0.5338057  -0.93164628  0.81272492  
-0.84342501  0.49180234  0.5333614  -0.87484721]
```

*** 偏微分_バイアス2 ***

-1.7093189606061578

順伝播開始

*** 総入力1 ***

```
[-239.14309326 -518.83521954  371.03091698 -462.98951995  493.25906045  
-600.53877117  533.6866105  -360.74774327 -376.26737048  520.59584076]
```

*** 中間層出力1 ***

```
[1.38507794e-104 4.70681507e-226 1.00000000e+000 8.43735469e-202  
1.00000000e+000 1.54641307e-261 1.00000000e+000 2.13425220e-157  
3.88290961e-164 1.00000000e+000]
```

*** 総入力2 ***

9.02531921937046

*** 出力1 ***

9.02531921937046

出力合計: 9.02531921937046

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 20.03069698  40.33757173 -25.64732088  25.47786527 -29.74295341  
 39.87485696 -26.92647546  23.30977528  25.4549322  -27.92963427]  
[ 19.67847215  39.62826569 -25.19633192  25.02985606 -29.21994581  
 39.17368741 -26.45299352  22.89989031  25.00732625 -27.43851254]]
```

*** 偏微分_重み2 ***

```
[-2.02066099e-103 -6.86667323e-225 -1.45887891e+001 -1.23090788e-200
```

-1.45887891e+001 -2.25602941e-260 -1.45887891e+001 -3.11361551e-156
-5.66469492e-163 -1.45887891e+001]

*** 偏微分_バイアス1 ***

[4.21142455 8.48091506 -5.39231145 5.35668366 -6.25341216 8.38362996
-5.66125182 4.90084593 5.35186201 -5.87216448]

*** 偏微分_バイアス2 ***

-14.58878906871087

順伝播開始

*** 総入力1 ***

[-3.62336186 -1.20599716 2.40349884 -6.77635384 4.64687963 -8.12673523
6.99396924 -3.40638984 -6.80775519 6.24209302]

*** 中間層出力1 ***

[2.59988074e-02 2.30410073e-01 9.17093719e-01 1.13912641e-03
9.90499638e-01 2.95444157e-04 9.99083443e-01 3.20963622e-02
1.10395097e-03 9.98058000e-01]

*** 総入力2 ***

13.238852728207798

*** 出力1 ***

13.238852728207798

出力合計: 13.238852728207798

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-4.21985294 -8.38751006 8.65341443 -5.36830939 9.24285288
-8.40182769 8.61272673 -4.91021923 -5.36347739 8.82836418]
[5.05041626 10.03836338 -10.35660379 6.42491514 -11.06205718
10.05549904 -10.30790782 5.87666239 6.41913209 -10.56598764]]

*** 偏微分_重み2 ***

[3.25801885e-01 2.88736460e+00 1.14924834e+01 1.42748675e-02
1.24123635e+01 3.70233380e-03 1.25199308e+01 4.02212883e-01
1.38340694e-02 1.25070805e+01]

*** 偏微分_バイアス1 ***

[-3.61690047 -7.18906311 7.41697381 -4.60126005 7.92219052 -7.20133496

7. 38209976 -4. 20862398 -4. 59711847 7. 56692591]

*** 偏微分_バイアス2 ***

12. 531416535483926

順伝播開始

*** 総入力1 ***

[-56. 33218092 -109. 95218416 89. 07146185 -112. 61517037 123. 76342507
-147. 6407306 134. 12740262 -80. 00278266 -92. 24821779 133. 2647122]

*** 中間層出力1 ***

[3. 42960950e-25 1. 77163048e-48 1. 00000000e+00 1. 23552897e-49
1. 00000000e+00 7. 59355943e-65 1. 00000000e+00 1. 79983609e-35
8. 65183146e-41 1. 00000000e+00]

*** 総入力2 ***

9. 828966158889923

*** 出力1 ***

9. 828966158889923

出力合計: 9. 828966158889923

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3. 39712758 -7. 29170091 4. 75720715 -4. 24014009 5. 29225818 -6. 63238757
4. 80676178 -3. 95790669 -4. 23623704 4. 97563937]
[2. 24921545 4. 8277864 -3. 14971503 2. 80736839 -3. 50396874 4. 39125945
-3. 18252482 2. 62050354 2. 80478421 -3. 29433754]]

*** 偏微分_重み2 ***

[9. 33056942e-25 4. 81988436e-48 2. 72059236e+00 3. 36137067e-49
2. 72059236e+00 2. 06589798e-64 2. 72059236e+00 4. 89662031e-35
2. 35381066e-40 2. 72059236e+00]

*** 偏微分_バイアス1 ***

[-0. 80087964 -1. 71903311 1. 12152112 -0. 99962153 1. 24766048 -1. 56359867
1. 13320373 -0. 93308444 -0. 99870138 1. 17301696]

*** 偏微分_バイアス2 ***

2. 720592361360392

順伝播開始

*** 総入力1 ***

[166.83937093 363.25084671 -269.32189997 322.67677806 -358.10659895
424.88715863 -380.28866194 248.34133218 261.57972849 -376.13005615]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.08388945e-117 1.00000000e+000
2.99419541e-156 1.00000000e+000 6.96197709e-166 1.00000000e+000
1.00000000e+000 4.45442997e-164]

*** 総入力2 ***

-9.415974558718977

*** 出力1 ***

-9.415974558718977

出力合計: -9.415974558718977

誤差逆伝播開始

*** 偏微分_重み1 ***

[[6.78531988 14.56422284 -13.96741668 8.46912756 -15.69529814
13.24733032 -14.12744725 7.90540309 8.46133173 -14.67281665]
[3.73948429 8.02654606 -7.69763788 4.66745416 -8.64989742
7.30078825 -7.78583296 4.35677776 4.66315777 -8.08639362]]

*** 偏微分_重み2 ***

[7.22499831e+000 7.22499831e+000 7.83109943e-117 7.22499831e+000
2.16330568e-155 7.22499831e+000 5.03002727e-165 7.22499831e+000
7.22499831e+000 3.21832490e-163]

*** 偏微分_バイアス1 ***

[-1.67267433 -3.59028052 3.44315962 -2.087756 3.86910608 -3.26564846
3.48260935 -1.9487902 -2.08583422 3.61705038]

*** 偏微分_バイアス2 ***

7.224998305160733

順伝播開始

*** 総入力1 ***

[-15.20212259 -24.99075712 21.54865068 -31.07918849 31.67369504
-39.78632842 36.13762602 -20.55352729 -26.10116432 35.35063677]

*** 中間層出力1 ***

[2.49920533e-07 1.40169035e-11 1.00000000e+00 3.18038675e-14
1.00000000e+00 5.26037995e-18 1.00000000e+00 1.18499498e-09
4.61751553e-12 1.00000000e+00]

*** 総入力2 ***

8.371008527260106

*** 出力1 ***

8.371008527260106

出力合計: 8.371008527260106

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-5.01155909 -9.0307077 4.46345879 -5.88153695 5.01562444 -8.35030498
4.51459852 -5.59027578 -5.87750905 4.68887798]
[4.58136203 8.25550304 -4.08031118 5.37666014 -4.5850784 7.63350675
-4.12706103 5.11040111 5.37297801 -4.28638017]]

*** 偏微分_重み2 ***

[1.51790124e-06 8.51321616e-11 6.07353555e+00 1.93161920e-13
6.07353555e+00 3.19491046e-17 6.07353555e+00 7.19710916e-09
2.80446447e-11 6.07353555e+00]

*** 偏微分_バイアス1 ***

[-2.55583125 -4.6055458 2.27630708 -2.99950886 2.55790452 -4.25854909
2.30238769 -2.85096938 -2.99745469 2.39126799]

*** 偏微分_バイアス2 ***

6.073535550016989

順伝播開始

*** 総入力1 ***

[-56.26838543 -118.74344144 82.53811919 -105.85273699 109.22959924
-137.13068342 119.36536206 -83.37886825 -87.77845468 115.34823675]

*** 中間層出力1 ***

[3.65553293e-25 2.69388231e-52 1.00000000e+00 1.06841612e-46
1.00000000e+00 2.78548543e-60 1.00000000e+00 6.15201817e-37
7.55616623e-39 1.00000000e+00]

*** 総入力2 ***

6.245271508732836

*** 出力1 ***

6.245271508732836

出力合計: 6.245271508732836

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.55512569 -1.00032294 0.38414493 -0.65149228 0.44530779 -0.92495537
0.38980963 -0.61922955 -0.65104611 0.4091144]
[-0.32995956 -0.59457906 0.22833079 -0.38723861 0.26468521 -0.54978155
0.23169782 -0.36806207 -0.38697342 0.24317232]]

*** 偏微分_重み2 ***

[3.90088822e-25 2.87469269e-52 1.06711888e+00 1.14012701e-46
1.06711888e+00 2.97244410e-60 1.06711888e+00 6.56493477e-37
8.06332767e-39 1.06711888e+00]

*** 偏微分_バイアス1 ***

[-0.44905903 -0.8091934 0.31074719 -0.52701306 0.3602238 -0.74822615
0.31532955 -0.5009147 -0.52665214 0.33094579]

*** 偏微分_バイアス2 ***

1.0671188838484351

順伝播開始

*** 総入力1 ***

[111.49775784 244.03520411 -183.13608458 215.22722302 -242.74539066
284.49231974 -256.27695109 165.67121309 174.36301845 -254.26891065]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.91748767e-080 1.00000000e+000
3.77586386e-106 1.00000000e+000 5.01573175e-112 1.00000000e+000
1.00000000e+000 3.73607155e-111]

*** 総入力2 ***

-13.456069645383135

*** 出力1 ***

-13.456069645383135

出力合計: -13.456069645383135

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.11334856 -3.8082025  2.24522661 -2.48021356  2.62169447 -3.52128021
  2.28009379 -2.35739024 -2.47851502  2.39891795]
 [-1.25303155 -2.25793226  1.33122375 -1.47055054  1.55443638 -2.08781235
  1.35189695 -1.39772701 -1.46954345  1.42234932]]
```

*** 偏微分_重み2 ***

```
[-2.42258547e+000 -2.42258547e+000 -7.06786325e-080 -2.42258547e+000
 -9.14735294e-106 -2.42258547e+000 -1.21510389e-111 -2.42258547e+000
 -2.42258547e+000 -9.05095266e-111]
```

*** 偏微分_バイアス1 ***

```
[ 0.80175116  1.44473602 -0.85178237  0.9409305 -0.99460479  1.33588494
 -0.8650101  0.89433443  0.94028611 -0.91008899]
```

*** 偏微分_バイアス2 ***

-2.4225854746000444

順伝播開始

*** 総入力1 ***

```
[-133.87441069 -290.84423263  201.19473944 -250.36225019  263.31673545
 -326.20597736  284.15076837 -200.03467719 -206.48759149  275.777219 ]
```

*** 中間層出力1 ***

```
[7.22906565e-059 4.87477614e-127 1.00000000e+000 1.85804516e-109
 1.00000000e+000 2.14064213e-142 1.00000000e+000 1.33672942e-087
 2.10658232e-090 1.00000000e+000]
```

*** 総入力2 ***

6.041360882607887

*** 出力1 ***

6.041360882607887

出力合計: 6.041360882607887

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3.11838422  5.89943072 -2.27864086  3.7203645 -2.66071145  5.42862659
 -2.31402696  3.51882656  3.7175774 -2.43461949]
 [ 7.56656818 14.31460704 -5.52898238  9.02723641 -6.45605324 13.17222968
 -5.61484457  8.53821696  9.02047369 -5.90745496]]
```

*** 偏微分_重み2 ***

```
[-4.02813733e-058 -2.71629402e-126 -5.57214103e+000 -1.03532897e-108
 -5.57214103e+000 -1.19279599e-141 -5.57214103e+000 -7.44844482e-087
 -1.17381738e-089 -5.57214103e+000]
```

*** 偏微分_バイアス1 ***

```
[ 2.10860507  3.98910738 -1.54078309  2.51565519 -1.79913354  3.67075663
 -1.56471064  2.37937823  2.51377059 -1.64625352]
```

*** 偏微分_バイアス2 ***

```
-5.5721410286442845
```

順伝播開始

*** 総入力1 ***

```
[-105.45612989 -231.44136366 150.87290841 -191.02797758 194.14537298
 -248.32091269 210.00866996 -157.74810018 -159.20120788 201.81870869]
```

*** 中間層出力1 ***

```
[1.58849081e-046 3.06402905e-101 1.00000000e+000 1.09044420e-083
 1.00000000e+000 1.43086243e-108 1.00000000e+000 3.09649627e-069
 7.24092257e-070 1.00000000e+000]
```

*** 総入力2 ***

```
7.991610242633388
```

*** 出力1 ***

```
7.991610242633388
```

出力合計: 7.991610242633388

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.01669232  0.03157891 -0.01558006  0.01991464 -0.01762523  0.02905876
 -0.01576947  0.01883584  0.01989972 -0.01641499]
 [-0.23969103 -0.45345298  0.22371965 -0.28596155  0.25308707 -0.41726516
  0.22643956 -0.27047057 -0.28574733  0.23570877]]
```

*** 偏微分_重み2 ***

[2.29652881e-047 4.42975871e-102 1.44573000e-001 1.57648789e-084
1.44573000e-001 2.06864073e-109 1.44573000e-001 4.47669754e-070
1.04684190e-070 1.44573000e-001]

*** 偏微分_バイアス1 ***

[-0.0547092 -0.10350011 0.05106375 -0.06527039 0.05776683 -0.09524028
0.05168457 -0.06173459 -0.06522149 0.05380025]

*** 偏微分_バイアス2 ***

0.14457299962042747

順伝播開始

*** 総入力1 ***

[38.88312031 85.3755648 -70.06989796 78.20339952 -94.31374831
104.805517 -97.82338193 57.41068315 62.10988585 -99.03995562]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 3.70706300e-31 1.00000000e+00
1.09662853e-41 1.00000000e+00 3.27978237e-43 1.00000000e+00
1.00000000e+00 9.71614053e-44]

*** 総入力2 ***

-11.889073000797444

*** 出力1 ***

-11.889073000797444

出力合計: -11.889073000797444

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3.54889135 -6.71387397 5.32539547 -4.23397774 6.02841429 -6.17807319
5.39050671 -4.00461657 -4.23080587 5.61239979]
[0.37753647 0.71423215 -0.56652369 0.45041701 -0.6413119 0.65723285
-0.57345032 0.42601722 0.45007958 -0.59705565]]

*** 偏微分_重み2 ***

[-7.39380496e+00 -7.39380496e+00 -2.74093008e-30 -7.39380496e+00
-8.10825749e-41 -7.39380496e+00 -2.42500711e-42 -7.39380496e+00
-7.39380496e+00 -7.18392480e-43]

*** 偏微分_バイアス1 ***

[2.20044745 4.16285691 -3.30194749 2.62522704 -3.73784586 3.83064007
-3.34231893 2.4830144 2.62326036 -3.47990107]

*** 偏微分_バイアス2 ***

-7.393804957043763

順伝播開始

*** 総入力1 ***

[138.30220335 301.31888057 -225.75508188 267.65994801 -300.10688843
353.45261953 -317.68551613 205.32867472 216.9355568 -314.9638565]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 9.03261869e-099 1.00000000e+000
4.62630619e-131 1.00000000e+000 1.07382464e-138 1.00000000e+000
1.00000000e+000 1.63280801e-137]

*** 総入力2 ***

-8.266108571845999

*** 出力1 ***

-8.266108571845999

出力合計: -8.266108571845999

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.93414276 9.26570405 -8.97087781 5.08820283 -10.1551459
8.36312257 -9.08056074 4.70183322 5.08285967 -9.45435002]
[1.72879641 4.07166616 -3.94210946 2.23592974 -4.46251722
3.67504109 -3.99030788 2.06614576 2.23358177 -4.15456363]]

*** 偏微分_重み2 ***

[5.61374705e+000 5.61374705e+000 5.07068365e-098 5.61374705e+000
2.59709127e-130 5.61374705e+000 6.02817990e-138 5.61374705e+000
5.61374705e+000 9.16617115e-137]

*** 偏微分_バイアス1 ***

[-1.09943659 -2.58939613 2.50700391 -1.42195053 2.83795979 -2.33716047
2.53765593 -1.31397557 -1.42045732 2.64211519]

*** 偏微分_バイアス2 ***

5. 613747046340881

順伝播開始

*** 総入力1 ***

[-76.12937011 -167.07956579 106.03714202 -135.8895023 135.37046218
-176.12882566 147.09967968 -113.87628311 -114.01196567 140.3611181]

*** 中間層出力1 ***

[8.65834026e-34 2.74325727e-73 1.00000000e+00 9.63693658e-60
1.00000000e+00 3.22272252e-77 1.00000000e+00 3.50073009e-50
3.05655658e-50 1.00000000e+00]

*** 総入力2 ***

8.06561374651544

*** 出力1 ***

8.06561374651544

出力合計: 8.06561374651544

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.59096309 1.16527411 -0.5976782 0.71527741 -0.6765792 1.06804884
-0.60498574 0.67365802 0.71470185 -0.62988918]
[-3.4446691 -6.79227481 3.48381083 -4.16928575 3.94371744 -6.22555771
3.52640583 -3.92669018 -4.16593086 3.67156567]]

*** 偏微分_重み2 ***

[2.42072601e-33 7.66968499e-73 2.79583147e+00 2.69432505e-59
2.79583147e+00 9.01018902e-77 2.79583147e+00 9.78745135e-50
8.54561706e-50 2.79583147e+00]

*** 偏微分_バイアス1 ***

[-0.97090328 -1.9144486 0.98193564 -1.17514139 1.11156343 -1.75471555
0.99394133 -1.10676419 -1.17419579 1.03485562]

*** 偏微分_バイアス2 ***

2.795831466718318

順伝播開始

*** 総入力1 ***

[5.24008226 3.81792065 -28.94276295 25.13275756 -47.36036345

36. 6219985 -47. 34307251 5. 02114628 16. 56626578 -53. 26314434]

*** 中間層出力1 ***

[9. 94728119e-01 9. 78499007e-01 2. 69350483e-13 1. 00000000e+00
2. 70181429e-21 1. 00000000e+00 2. 74893740e-21 9. 93446274e-01
9. 99999936e-01 7. 38091707e-24]

*** 総入力2 ***

-11. 135960891100371

*** 出力1 ***

-11. 135960891100371

出力合計: -11. 135960891100371

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-8. 87227038 -17. 6247262 12. 88699692 -10. 71255971 14. 79756061
-15. 99594338 13. 06394691 -10. 11975176 -10. 70393997 13. 6669761]
[9. 41088671 18. 69468519 -13. 66933862 11. 36289603 -15. 6958885
16. 96702249 -13. 85703086 10. 73409999 11. 35375301 -14. 49666865]]

*** 偏微分_重み2 ***

[-7. 12076613e+00 -7. 00458995e+00 -1. 92814676e-12 -7. 15850491e+00
-1. 93409508e-20 -7. 15850491e+00 -1. 96782819e-20 -7. 11159004e+00
-7. 15850446e+00 -5. 28363311e-23]

*** 偏微分_バイアス1 ***

[1. 9598049 3. 89314383 -2. 84662196 2. 36630829 -3. 26864833 3. 53336033
-2. 88570862 2. 23536234 2. 36440427 -3. 01891236]

*** 偏微分_バイアス2 ***

-7. 158504913096294

順伝播開始

*** 総入力1 ***

[39. 22188995 91. 78319723 -62. 92571653 70. 10564604 -79. 32391239
93. 80955505 -81. 34079016 58. 84126263 57. 40494898 -80. 50526246]

*** 中間層出力1 ***

[1. 00000000e+00 1. 00000000e+00 4. 69578865e-28 1. 00000000e+00
3. 54864508e-35 1. 00000000e+00 4. 72219243e-36 1. 00000000e+00

1.00000000e+00 1.08895203e-35]

*** 総入力2 ***

-7.721585255705166

*** 出力1 ***

-7.721585255705166

出力合計: -7.721585255705166

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.74864951 1.89023063 -1.70013792 0.99205377 -1.95219213 1.68907271
-1.72348233 0.91258117 0.99091658 -1.80303794]
[-2.27799151 -5.7515957 5.17318142 -3.01862223 5.94013222 -5.13951217
5.24421383 -2.77680293 -3.01516199 5.48628569]]

*** 偏微分_重み2 ***

[-5.16981465e+00 -5.16981465e+00 -2.42763570e-27 -5.16981465e+00
-1.83458373e-34 -5.16981465e+00 -2.44128596e-35 -5.16981465e+00
-5.16981465e+00 -5.62968015e-35]

*** 偏微分_バイアス1 ***

[0.9052673 2.28566765 -2.05580748 1.19959183 -2.36059152 2.04242741
-2.08403555 1.10349353 1.19821674 -2.18023422]

*** 偏微分_バイアス2 ***

-5.169814653987155

順伝播開始

*** 総入力1 ***

[-95.67297554 -204.00407725 145.02676713 -181.22474165 192.03462759
-236.3465387 207.62831727 -141.74890823 -149.37541027 202.28230331]

*** 中間層出力1 ***

[2.81679121e-042 2.52438136e-089 1.00000000e+000 1.97285296e-079
1.00000000e+000 2.26987753e-103 1.00000000e+000 2.74935829e-062
1.33993456e-065 1.00000000e+000]

*** 総入力2 ***

7.950055102860004

*** 出力1 ***

7.950055102860004

出力合計: 7.950055102860004

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.30078123  1.07334675 -0.71162702  0.46550517 -0.81712939  0.93721304
    -0.7213983  0.41172205  0.46473558 -0.7546979 ]
  [ 0.16616041  0.59294836 -0.39312373  0.25715877 -0.45140635  0.51774409
    -0.39852167  0.22744739  0.25673362 -0.41691735]]
```

*** 偏微分_重み2 ***

```
[-2.92691032e-042 -2.62306905e-089 -1.03909381e+000 -2.04997930e-079
 -1.03909381e+000 -2.35861569e-103 -1.03909381e+000 -2.85684119e-062
 -1.39231771e-065 -1.03909381e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.13735055  0.4901395 -0.32496163  0.21257107 -0.37313887  0.42797459
 -0.32942365  0.18801123  0.21221964 -0.34462978]
```

*** 偏微分_バイアス2 ***

-1.0390938115269162

順伝播開始

*** 総入力1 ***

```
[ 93.79621981 210.55108919 -147.76188962 173.46469787 -191.07082585
 229.32842418 -200.73961451 140.09014247 141.99388422 -197.58293819]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 6.72708168e-65 1.00000000e+00
 1.04470742e-83 1.00000000e+00 6.60530871e-88 1.00000000e+00
 1.00000000e+00 1.55174454e-86]
```

*** 総入力2 ***

-5.115639508444573

*** 出力1 ***

-5.115639508444573

出力合計: -5.115639508444573

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.01971623  0.07035794 -0.07886869  0.03051389 -0.09005008  0.06143437
    -0.07990428  0.0269884  0.03046344 -0.08343344]
  [ 0.9335363  3.33135202 -3.73432451  1.44479086 -4.26374772  2.9088331
    -3.78335791  1.27786393  1.44240228 -3.95045919]]
```

*** 偏微分_重み2 ***

```
[2.44935640e+00 2.44935640e+00 1.64770206e-64 2.44935640e+00
 2.55886081e-83 2.44935640e+00 1.61787552e-87 2.44935640e+00
 2.44935640e+00 3.80077542e-86]
```

*** 偏微分_バイアス1 ***

```
[-0.25462291 -0.90862942  1.01854055 -0.39406808  1.16294123 -0.79338699
 1.03191446 -0.3485386  -0.39341659  1.07749149]
```

*** 偏微分_バイアス2 ***

2.4493563997415224

順伝播開始

*** 総入力1 ***

```
[ 64.69776133 144.61682836 -107.22788796 123.44105341 -140.69552834
 164.04607423 -147.19757779  96.47560655  99.93737083 -146.3494288 ]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 2.70097119e-47 1.00000000e+00
 7.88330649e-62 1.00000000e+00 1.18278066e-64 1.00000000e+00
 1.00000000e+00 2.76217153e-64]
```

*** 総入力2 ***

-6.315824144317919

*** 出力1 ***

-6.315824144317919

出力合計: -6.315824144317919

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.04051426 -0.11909464  0.12237997 -0.05726892  0.13973004 -0.10524799
  0.12398688 -0.05179844 -0.05719064  0.12946306]
 [-0.07133946 -0.20970757  0.21549255 -0.10084186  0.24604339 -0.18532574
```

0.21832207 -0.0912092 -0.10070403 0.2279648]]

*** 偏微分_重み2 ***

[-3.20113444e-01 -3.20113444e-01 -8.64617188e-48 -3.20113444e-01
-2.52355239e-62 -3.20113444e-01 -3.78623990e-65 -3.20113444e-01
-3.20113444e-01 -8.84208240e-65]

*** 偏微分_バイアス1 ***

[0.04406845 0.12954245 -0.133116 0.06229294 -0.15198814 0.11448108
-0.13486387 0.05634257 0.0622078 -0.14082047]

*** 偏微分_バイアス2 ***

-0.32011344359774263

順伝播開始

*** 総入力1 ***

[-106.26388082 -229.03596112 159.07529131 -198.0669176 208.51894442
-258.50029743 224.89612938 -157.68703677 -163.91277867 218.4784252]

*** 中間層出力1 ***

[7.08244049e-047 3.39582990e-100 1.00000000e+000 9.56380340e-087
1.00000000e+000 5.42934270e-113 1.00000000e+000 3.29147122e-069
6.51005578e-072 1.00000000e+000]

*** 総入力2 ***

8.164690929964362

*** 出力1 ***

8.164690929964362

出力合計: 8.164690929964362

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.28469135 0.8551266 -0.54946791 0.40631772 -0.62736716 0.75461025
-0.55668268 0.36660616 0.40574948 -0.58126993]
[0.42961967 1.29044738 -0.8291865 0.61316259 -0.94674205 1.138761
-0.8400741 0.55323499 0.61230507 -0.87717803]]

*** 偏微分_重み2 ***

[-7.73610026e-047 -3.70924127e-100 -1.09229301e+000 -1.04464756e-086
-1.09229301e+000 -5.93043309e-113 -1.09229301e+000 -3.59525102e-069

-7.11088844e-072 -1.09229301e+000]

*** 偏微分_バイアス1 ***

[0.18508333 0.55593426 -0.35721967 0.26415497 -0.40786347 0.49058665
-0.36191013 0.23833772 0.26378555 -0.37789477]

*** 偏微分_バイアス2 ***

-1.092293012547188

順伝播開始

*** 総入力1 ***

[-55.28618532 -111.77874504 88.78622277 -112.61774789 122.77250963
-146.63143553 134.25981725 -81.18314943 -91.45395455 132.22947063]

*** 中間層出力1 ***

[9.76146026e-25 2.85172625e-49 1.00000000e+00 1.23234846e-49
1.00000000e+00 2.08341927e-64 1.00000000e+00 5.52848554e-36
1.91448598e-40 1.00000000e+00]

*** 総入力2 ***

8.546993484355877

*** 出力1 ***

8.546993484355877

出力合計: 8.546993484355877

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.93656021 -2.81314323 1.89069709 -1.33667921 2.14696527 -2.48247068
1.91443178 -1.20603854 -1.33480985 1.99531744]
[0.48531642 1.45774355 -0.9797409 0.69265421 -1.11253658 1.28639224
-0.99203999 0.62495748 0.69168552 -1.03395415]]

*** 偏微分_重み2 ***

[1.51446697e-24 4.42438435e-49 1.55147583e+00 1.91195886e-49
1.55147583e+00 3.23237465e-64 1.55147583e+00 8.57731170e-36
2.97027872e-40 1.55147583e+00]

*** 偏微分_バイアス1 ***

[-0.26288945 -0.78964029 0.53071261 -0.37520157 0.60264627 -0.69682157
0.53737487 -0.33853115 -0.37467685 0.56007921]

*** 偏微分_バイアス2 ***

1. 5514758298185818

順伝播開始

*** 総入力1 ***

[-6. 73768623 -17. 84717067 -5. 21246427 0. 03959496 -13. 69267504
2. 03331314 -12. 7728675 -10. 39467274 -3. 83905384 -17. 21035142]

*** 中間層出力1 ***

[1. 18398322e-03 1. 77448467e-08 5. 41870885e-03 5. 09897446e-01
1. 13069714e-06 8. 84250614e-01 2. 83669665e-06 3. 05941013e-05
2. 10608455e-02 3. 35458912e-08]

*** 総入力2 ***

-0. 9689865789178789

*** 出力1 ***

-0. 9689865789178789

出力合計: -0. 9689865789178789

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 48935856 1. 46988544 -1. 17773585 0. 65492384 -1. 348006 1. 07327691
-1. 19351354 0. 6301629 0. 6973694 -1. 247253]
[-0. 55429947 -1. 66494831 1. 33402867 -0. 74183628 1. 52689472 -1. 21570738
1. 35190016 -0. 7137894 -0. 78991463 1. 41277118]]

*** 偏微分_重み2 ***

[1. 24378530e-03 1. 86411251e-08 5. 69240363e-03 5. 35651970e-01
1. 18780778e-06 9. 28913426e-01 2. 97997599e-06 3. 21393856e-05
2. 21246124e-02 3. 52402681e-08]

*** 偏微分_バイアス1 ***

[-0. 17800322 -0. 53466796 0. 42839911 -0. 23822727 0. 49033455 -0. 39040238
0. 43413822 -0. 22922052 -0. 25366676 0. 45368584]

*** 偏微分_バイアス2 ***

1. 0505092231164046

順伝播開始

*** 総入力1 ***

[254.65978489 557.14351756 -407.28357365 485.45240888 -537.12213138
640.05131219 -569.92499593 378.54935126 395.96393658 -562.02682801]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.31519877e-177 1.00000000e+000
5.38049504e-234 1.00000000e+000 3.05294633e-248 1.00000000e+000
1.00000000e+000 8.21958541e-245]

*** 総入力2 ***

-6.368804616389578

*** 出力1 ***

-6.368804616389578

出力合計: -6.368804616389578

誤差逆伝播開始

*** 偏微分_重み1 ***

[[11.54660393 34.6780467 -35.32207896 17.11614042 -40.43831773
31.70939736 -35.80375459 14.86705978 16.48078564 -37.41586861]
[10.8532374 32.59565113 -33.20100965 16.08832661 -38.0100214
29.80526737 -33.65376095 13.9743019 15.49112451 -35.16906851]]

*** 偏微分_重み2 ***

[1.76222689e+001 1.76222689e+001 2.31767864e-176 1.76222689e+001
9.48165305e-233 1.76222689e+001 5.37998412e-247 1.76222689e+001
1.76222689e+001 1.44847745e-243]

*** 偏微分_バイアス1 ***

[-2.34863548 -7.05368361 7.18468291 -3.48150633 8.2253508 -6.44984588
7.28265808 -3.02403238 -3.35227208 7.61056993]

*** 偏微分_バイアス2 ***

17.622268927604164

順伝播開始

*** 総入力1 ***

[92.68085608 203.2134111 -162.60403123 183.56102711 -217.19863219
245.57561749 -227.5445902 136.93495469 147.93830634 -227.85064674]

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 2.40971955e-71 1.00000000e+00
4.69712982e-95 1.00000000e+00 1.50882923e-99 1.00000000e+00
1.00000000e+00 1.11101884e-99]
```

*** 総入力2 ***

-15.003716390915619

*** 出力1 ***

-15.003716390915619

出力合計: -15.003716390915619

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -6.51279739 -11.13983143  7.06555415 -7.62688419  8.08896679
 -10.54600589  7.1619048  -7.17699558 -7.49979275  7.48437956]
 [ 0.49634062  0.84896712 -0.53846624  0.58124523 -0.61646057
  0.80371164 -0.54580913  0.5469592  0.57155959 -0.57038494]]
```

*** 偏微分_重み2 ***

```
[-4.86953935e+00 -4.86953935e+00 -1.17342242e-70 -4.86953935e+00
-2.28728585e-94 -4.86953935e+00 -7.34730331e-99 -4.86953935e+00
-4.86953935e+00 -5.41014997e-99]
```

*** 偏微分_バイアス1 ***

```
[ 1.83001647  3.13015649 -1.98533437  2.14306125 -2.27290081  2.96329877
-2.01240772  2.01664805  2.10735011 -2.10301919]
```

*** 偏微分_バイアス2 ***

-4.869539347223283

順伝播開始

*** 総入力1 ***

```
[-111.32430613 -241.4151776  174.01115616 -209.6390062  228.38842991
-276.06973967  244.60385648 -164.7788739 -173.27569522  238.97916517]
```

*** 中間層出力1 ***

```
[4.49229375e-049 1.42797473e-105 1.00000000e+000 9.01439148e-092
1.00000000e+000 1.27184868e-120 1.00000000e+000 2.73806865e-072
5.58884051e-076 1.00000000e+000]
```

*** 総入力2 ***

7. 037351465209009

*** 出力1 ***

7. 037351465209009

出力合計: 7. 037351465209009

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2. 72991358  5. 09032399 -2. 22931165  3. 29824786 -2. 55221707  4. 787393  
  -2. 25971204  3. 06874409  3. 23341412 -2. 36145873]  
 [ 1. 97172878  3. 67657729 -1. 6101601  2. 38221835 -1. 8433843  3. 45777998  
  -1. 63211733  2. 21645516  2. 33539102 -1. 70560569]]
```

*** 偏微分_重み2 ***

```
[-1. 37476975e-048 -4. 37000911e-105 -3. 06028462e+000 -2. 75866037e-091  
 -3. 06028462e+000 -3. 89221895e-120 -3. 06028462e+000 -8. 37926938e-072  
 -1. 71034427e-075 -3. 06028462e+000]
```

*** 偏微分_バイアス1 ***

```
[ 1. 201588  2. 24053693 -0. 98124502  1. 45174377 -1. 1233738  2. 10720002  
 -0. 99462594  1. 3507263  1. 42320681 -1. 03941036]
```

*** 偏微分_バイアス2 ***

-3. 0602846245319784

順伝播開始

*** 総入力1 ***

```
[-26. 16544645 -49. 74502688  43. 16335006 -56. 81537628  61. 9689756  
 -73. 42404795  69. 3058736 -38. 26570598 -45. 91632748  68. 18186061]
```

*** 中間層出力1 ***

```
[4. 33003083e-12  2. 48891076e-22  1. 00000000e+00  2. 11541506e-25  
  1. 00000000e+00  1. 29521283e-32  1. 00000000e+00  2. 40666169e-17  
  1. 14496536e-20  1. 00000000e+00]
```

*** 総入力2 ***

8. 108451083788399

*** 出力1 ***

8. 108451083788399

出力合計: 8.108451083788399

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-4.31690004 -8.04949284 3.98835353 -5.2156253 4.49897424 -7.57045834
 4.03642665 -4.85270361 -5.11310162 4.19732195]
 [ 3.24910191 6.05842672 -3.00182236 3.92552479 -3.38613951 5.69788284
 -3.03800445 3.65237287 3.84836065 -3.15910182]]
```

*** 偏微分_重み2 ***

```
[1.73139968e-11 9.95212149e-22 3.99858511e+00 8.45866716e-25
 3.99858511e+00 5.17901872e-32 3.99858511e+00 9.62324160e-17
 4.57824143e-20 3.99858511e+00]
```

*** 偏微分_バイアス1 ***

```
[-1.57000163 -2.92749816 1.45051345 -1.89685658 1.6362197 -2.7532794
 1.46799703 -1.76486658 -1.85957002 1.5265126 ]
```

*** 偏微分_バイアス2 ***

3.998585107000096

順伝播開始

*** 総入力1 ***

```
[-21.48607538 -51.46040328 10.97043055 -19.38609662 3.41840289
 -24.04878282 4.13150841 -31.04150586 -21.79794991 -1.664998 ]
```

*** 中間層出力1 ***

```
[4.66354341e-10 4.47745078e-23 9.99982797e-01 3.80824790e-09
 9.68274747e-01 3.59539265e-11 9.84195166e-01 3.30251876e-14
 3.41405596e-10 1.59092215e-01]
```

*** 総入力2 ***

5.22925525923956

*** 出力1 ***

5.22925525923956

出力合計: 5.22925525923956

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 11.78702 21.97862636 -9.23796309 14.24093193 -10.78698493
```

```
20. 67065323 -9. 43736543 13. 24999744 13. 96099757 -12. 39327319]
[-14. 34504492 -26. 74843874 11. 24279042 -17. 33150604 13. 12798175
-25. 15660864 11. 48546715 -16. 12551845 -16. 99082018 15. 08286747]]
```

*** 偏微分_重み2 ***

```
[3. 49572307e-09 3. 35623079e-22 7. 49572295e+00 2. 85460622e-08
7. 25804410e+00 2. 69505309e-10 7. 37738121e+00 2. 47551915e-13
2. 55912578e-09 1. 19253168e+00]
```

*** 偏微分_バイアス1 ***

```
[-2. 943166 -5. 48796437 2. 30667793 -3. 5558968 2. 69346173 -5. 16136935
2. 3564678 -3. 3084649 -3. 48599844 3. 0945447 ]
```

*** 偏微分_バイアス2 ***

```
7. 495851896760756
```

順伝播開始

*** 総入力1 ***

```
[ 68. 88674103 158. 54018332 -114. 93437461 127. 38109856 -147. 21511082
170. 68062557 -152. 69988293 103. 12516238 104. 26482827 -150. 48402949]
```

*** 中間層出力1 ***

```
[1. 00000000e+00 1. 00000000e+00 1. 21516520e-50 1. 00000000e+00
1. 16222367e-64 1. 00000000e+00 4. 82262457e-67 1. 00000000e+00
1. 00000000e+00 4. 42197597e-66]
```

*** 総入力2 ***

```
-13. 208032779764391
```

*** 出力1 ***

```
-13. 208032779764391
```

出力合計: -13. 208032779764391

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0. 29629903 0. 55249297 -0. 24958735 0. 35798483 -0. 31024374
0. 51961348 -0. 25690938 0. 33307497 0. 35094791 -0. 37862099]
[ -6. 95528283 -12. 96914424 5. 85877922 -8. 40328679 7. 282619
-12. 19733567 6. 03065572 -7. 81855632 -8. 23810316 8. 88769736]]
```

*** 偏微分_重み2 ***

[-7.80530305e+00 -7.80530305e+00 -9.48473267e-50 -7.80530305e+00
-9.07150799e-64 -7.80530305e+00 -3.76420463e-66 -7.80530305e+00
-7.80530305e+00 -3.45148625e-65]

*** 偏微分_バイアス1 ***

[2.41020174 4.49417439 -2.0302323 2.91197596 -2.52363296 4.22672095
-2.08979236 2.70935036 2.85473517 -3.07983789]

*** 偏微分_バイアス2 ***

-7.8053030515067885

順伝播開始

*** 総入力1 ***

[36.01585678 74.74733103 -71.34729291 78.98708998 -100.65754067
107.65041025 -104.06177599 51.39048667 61.64505914 -109.32588636]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.03339033e-31 1.00000000e+00
1.92746068e-44 1.00000000e+00 6.40538019e-46 1.00000000e+00
1.00000000e+00 3.31413981e-48]

*** 総入力2 ***

-9.383434284526064

*** 出力1 ***

-9.383434284526064

出力合計: -9.383434284526064

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.74575482 -6.38637445 3.54673731 -3.62233498 4.40868918 -5.91914362
3.65078643 -3.26835588 -3.52233754 5.38035769]
[2.01203408 4.67980717 -2.598978 2.65437446 -3.23059905 4.33742978
-2.67522311 2.39498567 2.58109833 -3.94261826]]

*** 偏微分_重み2 ***

[-3.64804295e+00 -3.64804295e+00 -3.76985229e-31 -3.64804295e+00
-7.03145934e-44 -3.64804295e+00 -2.33671020e-45 -3.64804295e+00
-3.64804295e+00 -1.20901244e-47]

*** 偏微分_バイアス1 ***

```
[ 0.73459613  1.70860338 -0.94889008  0.96911539 -1.1794957  1.58360097  
-0.97672726  0.87441223  0.94236219 -1.43945479]
```

*** 偏微分_バイアス2 ***

-3.6480429456551633

順伝播開始

*** 総入力1 ***

```
[ -83.2915566 -172.94012392 133.7407273 -164.40883765 181.5648814  
-216.42427359 195.63170835 -121.58104815 -134.46151824 194.0534132 ]
```

*** 中間層出力1 ***

```
[6.71330811e-37 7.81733065e-76 1.00000000e+00 3.96414044e-72  
1.00000000e+00 1.01890157e-94 1.00000000e+00 1.57769005e-53  
4.01887594e-59 1.00000000e+00]
```

*** 総入力2 ***

5.353313288113772

*** 出力1 ***

5.353313288113772

出力合計: 5.353313288113772

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3.33482009  9.22513397 -3.54921154  4.75307655 -4.41176471  8.46918128  
-3.65333324  4.18035866  4.59128642 -5.38411107]  
[-1.30692981 -3.61536823  1.39095071 -1.8627504  1.72898887 -3.31910724  
1.43175644 -1.63829988 -1.79934418  2.11005544]]
```

*** 偏微分_重み2 ***

```
[-2.73722055e-36 -3.18736422e-75 -4.07730511e+00 -1.61630101e-71  
-4.07730511e+00 -4.15437256e-94 -4.07730511e+00 -6.43272369e-53  
-1.63861834e-58 -4.07730511e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0.78368144  2.16790295 -0.83406335  1.11697117 -1.03676302  1.99025436  
-0.85853191  0.98238268  1.07895055 -1.26526404]
```

*** 偏微分_バイアス2 ***

-4.077305109665175

順伝播開始

*** 総入力1 ***

[69.38695645 164.01905149 -114.11197291 124.7103159 -142.48661932
166.22162712 -147.88851775 105.60678533 102.70540118 -142.61504491]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.76566673e-50 1.00000000e+00
1.31476303e-62 1.00000000e+00 5.92697100e-65 1.00000000e+00
1.00000000e+00 1.15630648e-62]

*** 総入力2 ***

-7.310481883478472

*** 出力1 ***

-7.310481883478472

出力合計: -7.310481883478472

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.72234655 1.99823184 -1.58395697 1.02955133 -1.88603514 1.83448693
-1.62042185 0.90549642 0.99450639 -2.22656442]
[-2.04592229 -5.65964783 4.48628554 -2.91602696 5.34186997 -5.19586854
4.58956602 -2.56466279 -2.81676822 6.30636055]]

*** 偏微分_重み2 ***

[-2.86327710e+00 -2.86327710e+00 -7.91887024e-50 -2.86327710e+00
-3.76453088e-62 -2.86327710e+00 -1.69705604e-64 -2.86327710e+00
-2.86327710e+00 -3.31082586e-62]

*** 偏微分_バイアス1 ***

[0.4328123 1.19729142 -0.9490681 0.61688186 -1.13006591 1.09917949
-0.97091695 0.54255121 0.59588379 -1.33410269]

*** 偏微分_バイアス2 ***

-2.8632771048960404

順伝播開始

*** 総入力1 ***

[31.15486607 78.13158126 -52.58135876 53.90269872 -63.15198955
72.05829107 -64.24479307 48.63481744 44.19730326 -60.5579349]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.45950652e-23 1.00000000e+00
3.74489304e-28 1.00000000e+00 1.25556985e-28 1.00000000e+00
1.00000000e+00 5.01213821e-27]

*** 総入力2 ***

-5.9074761020793956

*** 出力1 ***

-5.9074761020793956

出力合計: -5.9074761020793956

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.97302359 3.29772186 -2.88601338 1.53275919 -3.43640815 2.99937411
-2.95245339 1.30672772 1.46890635 -4.05686191]
[-1.80164464 -6.10604201 5.34372506 -2.83804771 6.36283272 -5.5536231
5.46674499 -2.4195292 -2.71981818 7.51166117]]

*** 偏微分_重み2 ***

[-4.56680027e+00 -4.56680027e+00 -6.66527479e-23 -4.56680027e+00
-1.71021786e-27 -4.56680027e+00 -5.73393674e-28 -4.56680027e+00
-4.56680027e+00 -2.28894341e-26]

*** 偏微分_バイアス1 ***

[0.51035343 1.72966379 -1.51372161 0.80393623 -1.80240512 1.57317961
-1.54856957 0.68538213 0.77044525 -2.12783475]

*** 偏微分_バイアス2 ***

-4.566800271863038

順伝播開始

*** 総入力1 ***

[-132.7890312 -286.79542452 210.95089296 -253.25351071 279.06219011
-334.73691222 298.20320969 -195.86329919 -208.5379091 293.50234996]

*** 中間層出力1 ***

[2.14021052e-058 2.79466462e-125 1.00000000e+000 1.03133029e-110
1.00000000e+000 4.22285467e-146 1.00000000e+000 8.66263381e-086
2.71104551e-091 1.00000000e+000]

*** 総入力2 ***
7.300475492869719

*** 出力1 ***
7.300475492869719

出力合計: 7.300475492869719

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.25169922 8.08587177 -5.24756005 2.89721585 -6.24832798 7.20878589
-5.36836612 2.23272615 2.7095006 -7.37648225]
[0.2919956 1.88626701 -1.22414746 0.67586066 -1.45760596 1.68166097
-1.25232902 0.52084893 0.63207057 -1.72078107]]

*** 偏微分_重み2 ***

[-1.16986071e-057 -1.52759195e-124 -5.46610114e+000 -5.63735569e-110
-5.46610114e+000 -2.30825507e-145 -5.46610114e+000 -4.73508326e-085
-1.48188490e-090 -5.46610114e+000]

*** 偏微分_バイアス1 ***

[0.33987881 2.19558854 -1.4248906 0.7866924 -1.69663305 1.95742996
-1.45769355 0.60626091 0.73572135 -2.00296521]

*** 偏微分_バイアス2 ***

-5.466101142747537

順伝播開始

*** 総入力1 ***

[-169.4122729 -368.2573057 272.87882904 -324.58392984 361.31466293
-431.00948843 384.79139767 -249.89305331 -266.87515523 380.57813588]

*** 中間層出力1 ***

[2.66185696e-074 1.16918763e-160 1.00000000e+000 1.08390285e-141
1.00000000e+000 6.53066680e-188 1.00000000e+000 2.97047486e-109
1.25196655e-116 1.00000000e+000]

*** 総入力2 ***
9.213610892831356

*** 出力1 ***

9. 213610892831356

出力合計: 9. 213610892831356

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2. 24650884 14. 51225823 -12. 1361356 5. 19982826 -13. 93228114
    12. 93809318 -12. 35295439 4. 00722388 4. 86292308 -15. 95705554]
  [ 0. 36587346 2. 36351179 -1. 97652903 0. 8468603 -2. 26905491
    2. 10713835 -2. 01184081 0. 65262902 0. 79199087 -2. 59881601]]
```

*** 偏微分_重み2 ***

```
[-1. 93876409e-073 -8. 51578067e-160 -7. 28350218e+000 -7. 89460876e-141
 -7. 28350218e+000 -4. 75661259e-187 -7. 28350218e+000 -2. 16354601e-108
 -9. 11870110e-116 -7. 28350218e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0. 45288369 2. 92559056 -2. 44657745 1. 04825646 -2. 8086704 2. 60824764
 -2. 49028691 0. 80783405 0. 98033825 -3. 21685366]
```

*** 偏微分_バイアス2 ***

-7. 283502182038598

順伝播開始

*** 総入力1 ***

```
[ 115. 26661579 260. 74862795 -193. 77031154 218. 98310237 -252. 19692202
 292. 85750859 -264. 22625004 172. 21707394 178. 66874012 -260. 82526023]
```

*** 中間層出力1 ***

```
[1. 00000000e+000 1. 00000000e+000 7. 02462171e-085 1. 00000000e+000
 2. 96666437e-110 1. 00000000e+000 1. 77009931e-115 1. 00000000e+000
 1. 00000000e+000 5. 30919580e-114]
```

*** 総入力2 ***

-2. 777271736131503

*** 出力1 ***

-2. 777271736131503

出力合計: -2. 777271736131503

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.56589064  3.65560596 -6.41771781  1.30982531 -7.14923776
  3.25907724 -6.50602205  1.00941089  1.22495964 -7.97387186]
 [ 1.06800472  6.8992207 -12.11215106  2.47203172 -13.49274777
  6.15085253 -12.27880754  1.90505995  2.31186484 -15.04907872]]
```

*** 偏微分_重み2 ***

```
[7.57380576e+000 7.57380576e+000 5.32031204e-084 7.57380576e+000
 2.24689397e-109 7.57380576e+000 1.34063883e-114 7.57380576e+000
 7.57380576e+000 4.02108177e-113]
```

*** 偏微分_バイアス1 ***

```
[-0.37036544 -2.3925296  4.20028307 -0.85725755  4.67904997 -2.13300855
 4.25807664 -0.66064162 -0.80171447  5.21875844]
```

*** 偏微分_バイアス2 ***

7.573805758701912

順伝播開始

*** 総入力1 ***

```
[-22.30213024 -46.55705928  29.89808656 -40.47438765  39.01721964
 -52.30369551  43.8215435 -32.81811312 -34.63987911  41.53908812]
```

*** 中間層出力1 ***

```
[2.06209135e-10 6.03289910e-21 1.00000000e+00 2.64360634e-18
 1.00000000e+00 1.92660932e-23 1.00000000e+00 5.58823374e-15
 9.03840189e-16 1.00000000e+00]
```

*** 総入力2 ***

11.232670253274883

*** 出力1 ***

11.232670253274883

出力合計: 11.232670253274883

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -0.77578239 -2.12835172  1.73764645 -1.10145097  1.9357111 -1.95476531
   1.7615555 -0.96994004 -1.06429975  2.15898712]
 [ -0.48430457 -1.32868505  1.08477599 -0.68761259  1.20842357 -1.22031872
   1.09970191 -0.60551309 -0.66441987  1.34781008]]
```

*** 偏微分_重み2 ***

[1.94651306e-09 5.69476074e-20 9.43950934e+00 2.49543468e-17
9.43950934e+00 1.81862467e-22 9.43950934e+00 5.27501846e-14
8.53180791e-15 9.43950934e+00]

*** 偏微分_バイアス1 ***

[-1.83807057 -5.0427294 4.11702669 -2.60968108 4.58630366 -4.63144903
4.1736747 -2.29809065 -2.52165824 5.11531423]

*** 偏微分_バイアス2 ***

9.439509343759822

順伝播開始

*** 総入力1 ***

[-111.97259248 -243.59370553 183.64942529 -217.06091589 244.56356981
-290.3636785 260.31480954 -164.56859309 -178.61160421 260.12049749]

*** 中間層出力1 ***

[2.34920525e-049 1.61658245e-106 1.00000000e+000 5.39066063e-095
1.00000000e+000 7.88236756e-127 1.00000000e+000 3.37884390e-072
2.69132340e-078 1.00000000e+000]

*** 総入力2 ***

7.928841983119862

*** 出力1 ***

7.928841983119862

出力合計: 7.928841983119862

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.88343267 7.91067054 -4.53471933 4.09387964 -5.27088722 7.26548353
-4.62358464 3.60507902 3.95579574 -6.1007609]
[-0.42445586 -1.16449068 0.6675336 -0.60263977 0.77590124 -1.06951589
0.68061502 -0.53068585 -0.58231312 0.89806284]]

*** 偏微分_重み2 ***

[-8.23220601e-049 -5.66491148e-106 -3.50425150e+000 -1.88902306e-094
-3.50425150e+000 -2.76217983e-126 -3.50425150e+000 -1.18403188e-071
-9.43107404e-078 -3.50425150e+000]

*** 偏微分_バイアス1 ***

[0.68235131 1.87202442 -1.07312083 0.96879811 -1.24733164 1.71934384
-1.0941504 0.85312565 0.93612118 -1.44371749]

*** 偏微分_バイアス2 ***

-3.5042514951782655

順伝播開始

*** 総入力1 ***

[91.34473805 205.64260596 -161.97373884 179.2100165 -214.44581859
243.09425965 -223.13144165 134.96287917 145.24126549 -225.81273341]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 4.52583805e-71 1.00000000e+00
7.36824939e-94 1.00000000e+00 1.24522019e-97 1.00000000e+00
1.00000000e+00 8.52660094e-99]

*** 総入力2 ***

-6.903904607432409

*** 出力1 ***

-6.903904607432409

出力合計: -6.903904607432409

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.21812373 3.34191106 -3.58516452 1.72948445 -4.08799169 3.06934787
-3.64586248 1.52298764 1.67115006 -4.65482302]
[0.03373974 0.09256466 -0.09930233 0.04790347 -0.1132297 0.08501517
-0.10098355 0.0421839 0.04628772 -0.12892986]]

*** 偏微分_重み2 ***

[2.56634432e+00 2.56634432e+00 1.16148588e-70 2.56634432e+00
1.89094650e-93 2.56634432e+00 3.19566376e-97 2.56634432e+00
2.56634432e+00 2.18821939e-98]

*** 偏微分_バイアス1 ***

[-0.39300452 -1.07820424 1.15668535 -0.55798536 1.318913 -0.99026689
1.1762684 -0.49136308 -0.53916488 1.50179038]

*** 偏微分_バイアス2 ***

2. 566344324953338

順伝播開始

*** 総入力1 ***

[-127.98191311 -285.50405318 200.64234631 -236.30438701 258.05192394
-311.86168358 275.51245192 -191.48382831 -196.26061828 266.58088786]

*** 中間層出力1 ***

[2.61915591e-056 1.01663520e-124 1.00000000e+000 2.36760185e-103
1.00000000e+000 3.63238358e-136 1.00000000e+000 6.91241801e-084
5.82232529e-086 1.00000000e+000]

*** 総入力2 ***

8.975685903685521

*** 出力1 ***

8.975685903685521

出力合計: 8.975685903685521

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.19173942 0.4633827 -0.28361994 0.25714508 -0.32339825 0.42852047
-0.28842171 0.23073308 0.24968381 -0.3682399]
[1.2745333 3.08020476 -1.8852829 1.7092988 -2.14969795 2.84846801
-1.91720134 1.53373254 1.65970215 -2.44777003]]

*** 偏微分_重み2 ***

[-3.33220017e-056 -1.29340601e-124 -1.27224200e+000 -3.01216253e-103
-1.27224200e+000 -4.62127096e-136 -1.27224200e+000 -8.79426854e-084
-7.40740679e-086 -1.27224200e+000]

*** 偏微分_バイアス1 ***

[0.30486991 0.73678871 -0.45096196 0.40886634 -0.51421036 0.681357
-0.45859688 0.36687068 0.39700277 -0.58550956]

*** 偏微分_バイアス2 ***

-1.2722420036580413

順伝播開始

*** 総入力1 ***

```
[ -76.88655465 -166.05488695 125.15703063 -149.20280258 167.35805829  
-200.07873955 178.50315521 -112.33390809 -123.20714325 179.32154292]
```

*** 中間層出力1 ***

```
[4.06063155e-34 7.64326480e-73 1.00000000e+00 1.59237795e-65  
1.00000000e+00 1.27910874e-87 1.00000000e+00 1.63683003e-49  
3.10325565e-54 1.00000000e+00]
```

*** 総入力2 ***

9.420970604965836

*** 出力1 ***

9.420970604965836

出力合計: 9.420970604965836

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.14590509 -2.76934492 1.77874681 -1.53679326 2.01647661 -2.56099546  
1.80744397 -1.37894547 -1.492202 2.28446671]  
[ 0.33652835 0.81329867 -0.52238073 0.45132403 -0.592197 0.75211079  
-0.53080848 0.40496744 0.43822851 -0.67090008]]
```

*** 偏微分_重み2 ***

```
[5.87496547e-34 1.10583578e-72 1.44681077e+00 2.30386958e-65  
1.44681077e+00 1.85062831e-87 1.44681077e+00 2.36818332e-49  
4.48982370e-54 1.44681077e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.34670218 -0.83788607 0.53817318 -0.46496832 0.61010012 -0.77484838  
0.54685572 -0.41721029 -0.4514769 0.69118253]
```

*** 偏微分_バイアス2 ***

1.4468107709396456

順伝播開始

*** 総入力1 ***

```
[ 154.22044 350.13179236 -260.09817685 291.30454299 -336.78697565  
390.03079969 -352.86095433 230.50560987 238.51490572 -348.47313275]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.09849236e-113 1.00000000e+000
```

5. 43594306e-147 1. 00000000e+000 5. 68112907e-154 1. 00000000e+000
1. 00000000e+000 4. 57131718e-152]

*** 総入力2 ***

-8. 173633140369258

*** 出力1 ***

-8. 173633140369258

出力合計: -8. 173633140369258

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1. 71142506 4. 13605484 -4. 0652739 2. 29522194 -4. 63932842
3. 82488205 -4. 13456996 2. 05947409 2. 22862427 -5. 28645354]
[4. 14703441 10. 02226865 -9. 85075603 5. 56166003 -11. 24177449
9. 26825125 -10. 01867056 4. 99040834 5. 40028409 -12. 80985375]]

*** 偏微分_重み2 ***

[5. 29166013e+000 5. 29166013e+000 5. 81284822e-113 5. 29166013e+000
2. 87651632e-146 5. 29166013e+000 3. 00626042e-153 5. 29166013e+000
5. 29166013e+000 2. 41898569e-151]

*** 偏微分_バイアス1 ***

[-0. 99725596 -2. 41009989 2. 36885548 -1. 33743733 2. 70335993 -2. 22877794
2. 40923464 -1. 20006587 -1. 29863053 3. 08044298]

*** 偏微分_バイアス2 ***

5. 291660132156146

順伝播開始

*** 総入力1 ***

[3. 22858344 10. 06835641 -13. 53863154 8. 98180506 -18. 40454237
14. 31562029 -16. 58530375 4. 80876493 5. 85125213 -19. 15563584]

*** 中間層出力1 ***

[9. 61895867e-01 9. 99957602e-01 1. 31900505e-06 9. 99874340e-01
1. 01626929e-08 9. 99999394e-01 6. 26749609e-08 9. 91908084e-01
9. 97131954e-01 4. 79526989e-09]

*** 総入力2 ***

-10. 698608944777622

*** 出力1 ***

-10.698608944777622

出力合計: -10.698608944777622

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.10898087 -2.20372862 1.86737454 -1.3581818 2.13106521 -2.06074949
1.89920553 -1.25447882 -1.32926991 2.4283207]
[0.65463068 1.30085955 -1.10230997 0.80173382 -1.25796639 1.21645907
-1.12109978 0.74051803 0.78466715 -1.43343611]]

*** 偏微分_重み2 ***

[-9.55611578e+00 -9.93424646e+00 -1.31038768e-05 -9.93341929e+00
-1.00962976e-07 -9.93466165e+00 -6.22654908e-07 -9.85427718e+00
-9.90617459e+00 -4.76394127e-08]

*** 偏微分_バイアス1 ***

[2.64114708 5.24839659 -4.44733626 3.23464362 -5.07534154 4.90787772
-4.52314489 2.98766479 3.16578711 -5.78328474]

*** 偏微分_バイアス2 ***

-9.934667678494428

順伝播開始

*** 総入力1 ***

[107.80892096 242.60045254 -190.44501701 210.83690452 -251.73349833
285.80568307 -262.200779 159.30521963 171.20988401 -265.15501427]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.95334972e-083 1.00000000e+000
4.71553273e-110 1.00000000e+000 1.34167871e-114 1.00000000e+000
1.00000000e+000 6.99262845e-116]

*** 総入力2 ***

-5.932797220160669

*** 出力1 ***

-5.932797220160669

出力合計: -5.932797220160669

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.35419647  7.10352082 -8.12129176  3.42625475 -9.26808905
    6.48178039 -8.25972207  2.97505636  3.3000136 -10.5608652 ]
  [ 0.13220207  0.39890476 -0.45605863  0.19240449 -0.52045808
    0.36399035 -0.46383231  0.16706703  0.18531531 -0.59305512 ]]
```

*** 偏微分_重み2 ***

```
[5.11210285e+000 5.11210285e+000 9.98572468e-083 5.11210285e+000
 2.41062883e-109 5.11210285e+000 6.85879956e-114 5.11210285e+000
 5.11210285e+000 3.57470358e-115]
```

*** 偏微分_バイアス1 ***

```
[-0.66338251 -2.00168149  2.28847635 -0.96547485  2.61162918 -1.82648297
 2.32748424 -0.8383329  -0.92990171  2.975917  ]
```

*** 偏微分_バイアス2 ***

5.1121028452951975

順伝播開始

*** 総入力1 ***

```
[ 98.98169719 226.54618788 -170.22496086 186.58717345 -219.59033049
 250.89204396 -228.62803402 147.8985291 152.57844609 -226.95375627]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.18096986e-074 1.00000000e+000
 4.29666197e-096 1.00000000e+000 5.10630104e-100 1.00000000e+000
 1.00000000e+000 2.72418128e-099]
```

*** 総入力2 ***

-8.437727614355316

*** 出力1 ***

-8.437727614355316

出力合計: -8.437727614355316

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.01423751  0.03286216 -0.03184795  0.01844162 -0.03634515  0.03042398
    -0.03239081  0.01667223  0.01794656 -0.04141482]
```

```
[ 0.04476302  0.10331931 -0.10013061  0.05798085 -0.11426992  0.09565363  
-0.10183737  0.05241784  0.05642437 -0.13020907]]
```

*** 偏微分_重み2 ***

```
[7.75992313e-002 7.75992313e-002 9.16423534e-076 7.75992313e-002  
3.33417666e-097 7.75992313e-002 3.96245035e-101 7.75992313e-002  
7.75992313e-002 2.11394373e-100]
```

*** 偏微分_バイアス1 ***

```
[-0.01552947 -0.0358442  0.03473796 -0.02011509  0.03964326 -0.03318477  
0.03533008 -0.01818514 -0.01957511  0.04517297]
```

*** 偏微分_バイアス2 ***

0.07759923130717361

順伝播開始

*** 総入力1 ***

```
[-270.77528368 -603.97089269 443.979401 -509.72859055 577.40622113  
-680.93729586 610.36196033 -401.68465894 -420.9380244 603.74277947]
```

*** 中間層出力1 ***

```
[2.53389412e-118 4.99774478e-263 1.00000000e+000 4.24312531e-222  
1.00000000e+000 1.87365613e-296 1.00000000e+000 3.55278690e-175  
1.54503664e-183 1.00000000e+000]
```

*** 総入力2 ***

8.876319189277861

*** 出力1 ***

8.876319189277861

出力合計: 8.876319189277861

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 17.9738819  41.36142465 -24.7353242  23.25311887 -28.22816791  
38.29973001 -25.1569466  21.03124038  22.63145778 -32.16562492]  
[ 18.93353533 43.56977526 -26.05598153  24.49463895 -29.73531357  
40.34461199 -26.50011499  22.15413092  23.8397864 -33.88299752]]
```

*** 偏微分_重み2 ***

```
[-3.80508770e-117 -7.50499283e-262 -1.50167589e+001 -6.37179896e-221
```

-1.50167589e+001 -2.81362423e-295 -1.50167589e+001 -5.33513441e-174
-2.32014426e-182 -1.50167589e+001]

*** 偏微分_バイアス1 ***

[3.84164468 8.84037728 -5.28680044 4.97000153 -6.03334281 8.18598648
-5.37691583 4.4951087 4.8371309 -6.87491454]

*** 偏微分_バイアス2 ***

-15.016758875593762

順伝播開始

*** 総入力1 ***

[53.40338355 121.39467003 -99.85173493 106.10285079 -132.74952469
146.54032968 -136.15150933 77.9353258 85.58645175 -141.06079069]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 4.31461960e-44 1.00000000e+00
2.22645515e-58 1.00000000e+00 7.41567681e-60 1.00000000e+00
1.00000000e+00 5.47112942e-62]

*** 総入力2 ***

-7.424578116404268

*** 出力1 ***

-7.424578116404268

出力合計: -7.424578116404268

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.75555488 -1.73867984 2.66802426 -0.97747428 2.90541488 -1.60997763
2.69667977 -0.88407481 -0.95134197 3.17302358]
[0.20570747 0.4733732 -0.72639663 0.26612728 -0.79102864 0.43833272
-0.73419839 0.24069832 0.25901249 -0.86388781]]

*** 偏微分_重み2 ***

[-1.57691941e+00 -1.57691941e+00 -6.80380738e-44 -1.57691941e+00
-3.51094034e-58 -1.57691941e+00 -1.16939247e-59 -1.57691941e+00
-1.57691941e+00 -8.62753017e-62]

*** 偏微分_バイアス1 ***

[0.31726367 0.73008589 -1.12032522 0.41044945 -1.22000748 0.67604278

-1.1323579 0.37123025 0.39947628 -1.33237856]

*** 偏微分_バイアス2 ***

-1.5769194078518005

順伝播開始

*** 総入力1 ***

[178.33935854 405.4985073 -299.11618097 330.68685659 -384.68518131
446.72089193 -400.43581464 263.44430136 272.92482886 -399.86899436]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.24592861e-130 1.00000000e+000
8.57725825e-168 1.00000000e+000 1.23861217e-174 1.00000000e+000
1.00000000e+000 2.18324394e-174]

*** 総入力2 ***

-6.651887606556886

*** 出力1 ***

-6.651887606556886

出力合計: -6.651887606556886

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.57377133 6.32769327 -10.18746872 3.42113883 -11.09391081
5.83626231 -10.29688566 3.0645063 3.32135634 -12.11573632]
[6.61022243 16.25142819 -26.16449774 8.78651818 -28.49251492
14.98928499 -26.44551352 7.8705781 8.5302466 -31.11687156]]

*** 偏微分_重み2 ***

[7.97609639e+000 7.97609639e+000 9.93764668e-130 7.97609639e+000
6.84130385e-167 7.97609639e+000 9.87929008e-174 7.97609639e+000
7.97609639e+000 1.74137641e-173]

*** 偏微分_バイアス1 ***

[-1.43162304 -3.51968776 5.66663196 -1.90295894 6.17082725 -3.2463364
5.72749355 -1.70458726 -1.84745637 6.73920289]

*** 偏微分_バイアス2 ***

7.976096386962779

順伝播開始

*** 総入力1 ***

[-290.42052481 -649.43626663 479.72544295 -537.5589906 618.62309004
-724.76979311 648.91283176 -425.9507356 -446.91654441 649.31357897]

*** 中間層出力1 ***

[7.44678204e-127 8.98282739e-283 1.00000000e+000 3.47613542e-234
1.00000000e+000 0.00000000e+000 1.00000000e+000 1.02788840e-185
8.06512109e-195 1.00000000e+000]

*** 総入力2 ***

13.684242407197909

*** 出力1 ***

13.684242407197909

出力合計: 13.684242407197909

誤差逆伝播開始

*** 偏微分_重み1 ***

[[18.42421642 35.09860333 -27.98792201 22.18810221 -30.47818052
32.91573694 -28.288522 20.6039913 21.7448826 -33.28543062]
[19.40800088 36.97273788 -29.4823727 23.37286414 -32.10560172
34.67331456 -29.79902359 21.70416761 22.90597825 -35.06274851]]

*** 偏微分_重み2 ***

[-7.85928559e-126 -9.48041790e-282 -1.05539353e+001 -3.66869083e-233
-1.05539353e+001 0.00000000e+000 -1.05539353e+001 -1.08482677e-184
-8.51187661e-194 -1.05539353e+001]

*** 偏微分_バイアス1 ***

[3.88183684 7.39499842 -5.89683404 4.67485783 -6.42151184 6.93508571
-5.96016808 4.34109818 4.58147496 -7.01297725]

*** 偏微分_バイアス2 ***

-10.553935295705232

順伝播開始

*** 総入力1 ***

[132.12549767 296.67691805 -231.30330075 248.74265208 -300.48314244
340.20072504 -310.32226448 191.66262923 204.79826592 -317.21728908]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.51765173e-101 1.00000000e+000
3.17562587e-131 1.00000000e+000 1.69337414e-135 1.00000000e+000
1.00000000e+000 1.71506975e-138]

*** 総入力2 ***

-9.821399365469281

*** 出力1 ***

-9.821399365469281

出力合計: -9.821399365469281

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.23543174 4.25855461 -6.91771089 2.6921084 -7.40622497 3.99370488
-6.97667959 2.49990637 2.63833205 -7.9569233]
[0.43663531 0.83180142 -1.35120065 0.5258356 -1.44661958 0.7800697
-1.36271871 0.48829377 0.51533174 -1.55418463]]

*** 偏微分_重み2 ***

[2.18281901e+000 2.18281901e+000 7.67839706e-101 2.18281901e+000
6.93181653e-131 2.18281901e+000 3.69632926e-135 2.18281901e+000
2.18281901e+000 3.74368686e-138]

*** 偏微分_バイアス1 ***

[-0.63140853 -1.20284938 1.95394096 -0.76039906 2.09192413 -1.12804129
1.97059696 -0.70611067 -0.74520967 2.24747154]

*** 偏微分_バイアス2 ***

2.182819009296894

順伝播開始

*** 総入力1 ***

[81.35607038 184.85326694 -144.5422881 151.28760449 -185.65531138
207.14258772 -190.55465508 118.37536134 124.5353599 -194.43730905]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.68299133e-63 1.00000000e+00
2.34921482e-81 1.00000000e+00 1.75051081e-83 1.00000000e+00
1.00000000e+00 3.60536804e-85]

*** 総入力2 ***
-10.89098068002476

*** 出力1 ***
-10.89098068002476

出力合計: -10.89098068002476

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.85822955 -3.3817478 5.20940124 -2.20213117 5.57727811 -3.18230198
5.25380778 -2.0573929 -2.16163474 5.99198301]
[-1.59558921 -2.90377488 4.47310957 -1.89088411 4.78899109 -2.73251854
4.51123974 -1.76660301 -1.8561114 5.14508201]]

*** 偏微分_重み2 ***

[-3.96212348e+00 -3.96212348e+00 -6.66821945e-63 -3.96212348e+00
-9.30787921e-81 -3.96212348e+00 -6.93574000e-83 -3.96212348e+00
-3.96212348e+00 -1.42849134e-84]

*** 偏微分_バイアス1 ***

[1.26512451 2.30237003 -3.54667763 1.49926047 -3.79713649 2.16658283
-3.57691061 1.4007194 1.47168959 -4.07947692]

*** 偏微分_バイアス2 ***

-3.962123483266658

順伝播開始

*** 総入力1 ***

[-204.51717181 -455.34909085 331.15642842 -367.28872212 420.53565135
-494.81643283 440.19171079 -297.52173344 -308.35557606 439.64437441]

*** 中間層出力1 ***

[1.51119611e-089 1.75550676e-198 1.00000000e+000 3.07988655e-160
1.00000000e+000 1.27043856e-215 1.00000000e+000 6.13695472e-130
1.21024933e-134 1.00000000e+000]

*** 総入力2 ***

17.502671073872623

*** 出力1 ***

17.502671073872623

出力合計: 17.502671073872623

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.35775302 -2.70020265  2.83908161 -1.66078227  3.03957154 -2.52446076
  2.86328282 -1.533246   -1.6250988   3.26558236]
 [-3.93541528 -7.82647406  8.22901148 -4.81373848  8.81012684 -7.31709033
  8.29915812 -4.4440776   -4.71031078  9.4652139  ]]
```

*** 偏微分_重み2 ***

```
[3.53576573e-089 4.10738262e-198 2.33971336e+000 7.20605171e-160
 2.33971336e+000 2.97246207e-215 2.33971336e+000 1.43587150e-129
 2.83163654e-134 2.33971336e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.78771503 -1.56655163  1.64712375 -0.96352071  1.76344014 -1.46459308
 1.66116434 -0.88952917 -0.94281856  1.89456275]
```

*** 偏微分_バイアス2 ***

2.3397133619185375

順伝播開始

*** 総入力1 ***

```
[-162.37460507 -356.87590066  267.13191658 -301.7433162   347.42770148
 -408.52517244  364.50262621 -234.85562479 -251.44545573  368.80852968]
```

*** 中間層出力1 ***

```
[3.03113317e-071 1.02509855e-155 1.00000000e+000 9.00622559e-132
 1.00000000e+000 3.79989758e-178 1.00000000e+000 1.00808722e-102
 6.28964417e-110 1.00000000e+000]
```

*** 総入力2 ***

16.683771397201138

*** 出力1 ***

16.683771397201138

出力合計: 16.683771397201138

誤差逆伝播開始

*** 偏微分_重み1 ***


```
[[ -3.55802276 -7.07594265  7.09956963 -4.35211785  7.62495806 -6.61540703
   7.16298945 -4.01790614 -4.2586085  8.21722457]
 [-0.44932542 -0.89358643  0.89657017 -0.54960783  0.96291892 -0.83542763
   0.90457915 -0.50740185 -0.53779899  1.03771338]]
```

*** 偏微分_重み2 ***

```
[7.29842024e-071 2.46825184e-155 2.40781907e+000 2.16853617e-131
 2.40781907e+000 9.14946584e-178 2.40781907e+000 2.42729164e-102
 1.51443252e-109 2.40781907e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.81064428 -1.6121517  1.61753477 -0.99156742  1.73723696 -1.50722529
 1.63198406 -0.91542209 -0.97026266  1.87217636]
```

*** 偏微分_バイアス2 ***

2.407819065822819

順伝播開始

*** 総入力1 ***

```
[-126.62717097 -279.67199532  203.44276161 -230.65856654  261.35094001
 -310.5316104  274.93369394 -184.06440561 -193.2984485  275.13881603]
```

*** 中間層出力1 ***

```
[1.01512234e-055 3.46733409e-122 1.00000000e+000 6.70281674e-101
 1.00000000e+000 1.37352051e-135 1.00000000e+000 1.15303988e-080
 1.12603128e-084 1.00000000e+000]
```

*** 総入力2 ***

15.84103472416315

*** 出力1 ***

15.84103472416315

出力合計: 15.84103472416315

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -3.90418066 -7.76435687  7.40599595 -4.77553278  7.9824991  -7.25901602
   7.47558585 -4.40880582 -4.67292597  8.63238687]
 [-3.90351367 -7.7630304  7.40473069 -4.77471692  7.98113536 -7.25777588
   7.4743087  -4.40805261 -4.67212763  8.63091209]]
```

*** 偏微分_重み2 ***

[5.82636727e-055 1.99010119e-121 5.73957149e+000 3.84712959e-100
5.73957149e+000 7.88341914e-135 5.73957149e+000 6.61795481e-080
6.46293703e-084 5.73957149e+000]

*** 偏微分_バイアス1 ***

[-1.93235068 -3.84292162 3.66555304 -2.36362116 3.9508898 -3.59280621
3.69999614 -2.18211186 -2.31283653 4.27254783]

*** 偏微分_バイアス2 ***

5.7395714920012715

順伝播開始

*** 総入力1 ***

[236.92348311 532.7099426 -404.12916794 441.38155537 -522.36690331
600.00357919 -542.18788186 345.68616222 364.83585463 -548.86745345]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.08270797e-176 1.00000000e+000
1.37700769e-227 1.00000000e+000 3.39464805e-236 1.00000000e+000
1.00000000e+000 4.26475090e-239]

*** 総入力2 ***

-9.683637447606085

*** 出力1 ***

-9.683637447606085

出力合計: -9.683637447606085

誤差逆伝播開始

*** 偏微分_重み1 ***

[[13.33087088 26.51148803 -35.82870787 16.30611296 -39.01137027
24.78599572 -36.21288817 15.05391943 15.95576077 -42.59916219]
[8.99095273 17.88056743 -24.16452922 10.99759289 -26.31106319
16.71681602 -24.42363809 10.15305595 10.76129925 -28.73083515]]

*** 偏微分_重み2 ***

[1.07274203e+001 1.07274203e+001 3.30695041e-175 1.07274203e+001
1.47717402e-226 1.07274203e+001 3.64158164e-235 1.07274203e+001
1.07274203e+001 4.57497754e-238]

*** 偏微分_バイアス1 ***

[-2.84034854 -5.6486832 7.63386121 -3.47426995 8.31197674 -5.28104033
7.71571677 -3.20747072 -3.39962199 9.07641138]

*** 偏微分_バイアス2 ***

10.727420304102854

順伝播開始

*** 総入力1 ***

[-54.05875148 -119.66398256 79.54474685 -91.53863473 97.58111647
-120.72984825 104.06029796 -79.1817528 -78.70362549 100.23816687]

*** 中間層出力1 ***

[3.33106060e-24 1.07298263e-52 1.00000000e+00 1.75904137e-40
1.00000000e+00 3.69566933e-53 1.00000000e+00 4.09073827e-35
6.59856873e-35 1.00000000e+00]

*** 総入力2 ***

13.081265280675504

*** 出力1 ***

13.081265280675504

出力合計: 13.081265280675504

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.52278942 7.39374308 -4.82682233 5.17084573 -5.25558872
7.01790268 -4.87857887 4.89809753 5.0945333 -5.73893393]
[-14.52343735 -23.74255231 15.49973814 -16.60445514 16.87657913
-22.53566558 15.6659371 -15.7286148 -16.3594031 18.42868186]]

*** 偏微分_重み2 ***

[3.39185960e-23 1.09256687e-51 1.01825215e+01 1.79114765e-39
1.01825215e+01 3.76312323e-52 1.01825215e+01 4.16540302e-34
6.71900677e-34 1.01825215e+01]

*** 偏微分_バイアス1 ***

[-5.33972901 -8.72925549 5.69867858 -6.10484203 6.20489192 -8.28552803
5.75978377 -5.78282804 -6.01474549 6.7755425]

*** 偏微分_バイアス2 ***

10. 182521465454734

順伝播開始

*** 総入力1 ***

[-135.2650416 -303.66474877 219.60260639 -242.8667194 277.56179281
-325.93596161 291.63564609 -198.69173786 -204.07841993 289.08468069]

*** 中間層出力1 ***

[1.79944608e-059 1.31848520e-132 1.00000000e+000 3.34444397e-106
1.00000000e+000 2.80420927e-142 1.00000000e+000 5.12005524e-087
2.34351830e-089 1.00000000e+000]

*** 総入力2 ***

9.517382767766346

*** 出力1 ***

9.517382767766346

出力合計: 9.517382767766346

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.06034057 0.09864326 -0.04827148 0.06898658 -0.05399184 0.093629
-0.04896198 0.06534773 0.06796847 -0.06044037]
[0.53646499 0.87699956 -0.42916326 0.61333338 -0.48002085 0.83241972
-0.4353023 0.58098169 0.60428168 -0.53735224]]

*** 偏微分_重み2 ***

[-4.40760335e-060 -3.22952706e-133 -2.44942230e-001 -8.19195563e-107
-2.44942230e-001 -6.86869271e-143 -2.44942230e-001 -1.25411775e-087
-5.74026597e-090 -2.44942230e-001]

*** 偏微分_バイアス1 ***

[0.12844806 0.20998368 -0.10275636 0.14685298 -0.1149334 0.19930974
-0.10422625 0.13910688 0.14468569 -0.1286605]

*** 偏微分_バイアス2 ***

-0.24494222953849132

順伝播開始

*** 総入力1 ***

[-39.30441655 -88.68973858 56.50165211 -66.68113252 68.69102179

-86.98747556 74.45768431 -58.97107387 -57.44624005 69.67407317]

*** 中間層出力1 ***

[8.51743398e-18 3.03763743e-39 1.00000000e+00 1.09837869e-29
1.00000000e+00 1.66655392e-38 1.00000000e+00 2.45012378e-26
1.12567998e-25 1.00000000e+00]

*** 総入力2 ***

9.60311254810482

*** 出力1 ***

9.60311254810482

出力合計: 9.60311254810482

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.24924916 6.9465663 -3.42664634 4.85811075 -3.82948076
6.59345689 -3.47527263 4.60185848 4.78641373 -4.28359304]
[-10.28583482 -16.81502564 8.29462263 -11.75965984 9.26973333
-15.96028049 8.41232859 -11.13936942 -11.5861083 10.36896844]]

*** 偏微分_重み2 ***

[6.51906310e-17 2.32494318e-38 7.65378765e+00 8.40675725e-29
7.65378765e+00 1.27554498e-37 7.65378765e+00 1.87527271e-25
8.61571551e-25 7.65378765e+00]

*** 偏微分_バイアス1 ***

[-4.01365733 -6.56142667 3.23666222 -4.5887617 3.61716222 -6.22789476
3.28259251 -4.34671687 -4.52103979 4.04609707]

*** 偏微分_バイアス2 ***

7.6537876517272245

順伝播開始

*** 総入力1 ***

[252.55332469 568.72200232 -438.33666343 466.62549143 -562.09644383
635.11675458 -581.75250348 367.77875896 386.77536575 -590.30880563]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 4.29344454e-191 1.00000000e+000
7.66683557e-245 1.00000000e+000 2.22893757e-253 1.00000000e+000]

1. 00000000e+000 4. 28689746e-257]

*** 総入力2 ***

-16. 171469078751525

*** 出力1 ***

-16. 171469078751525

出力合計: -16. 171469078751525

誤差逆伝播開始

*** 偏微分_重み1 ***

[[8. 80210722 14. 38946484 -8. 617664 10. 06333355 -9. 96681729
13. 65801634 -8. 78052077 9. 53251979 9. 91481676 -11. 48770787]
[7. 9271174 12. 95905336 -7. 7610091 9. 06296919 -8. 97604731
12. 30031586 -7. 90767679 8. 58492195 8. 92921599 -10. 34575094]]

*** 偏微分_重み2 ***

[4. 86996762e+000 4. 86996762e+000 2. 09089359e-190 4. 86996762e+000
3. 73372410e-244 4. 86996762e+000 1. 08548538e-252 4. 86996762e+000
4. 86996762e+000 2. 08770518e-256]

*** 偏微分_バイアス1 ***

[-2. 00844444 -3. 28335475 1. 96635861 -2. 29622814 2. 27420528 -3. 11645453
2. 00351889 -2. 17510828 -2. 26233992 2. 62123857]

*** 偏微分_バイアス2 ***

4. 869967621354096

順伝播開始

*** 総入力1 ***

[-132. 60634043 -294. 21618065 216. 52165647 -240. 31468244 276. 39558686
-323. 60105225 289. 94543587 -193. 05593714 -201. 62508195 290. 50337906]

*** 中間層出力1 ***

[2. 56920103e-058 1. 67315532e-128 1. 00000000e+000 4. 29199785e-105
1. 00000000e+000 2. 89633419e-141 1. 00000000e+000 1. 43506576e-084
2. 72483052e-088 1. 00000000e+000]

*** 総入力2 ***

6. 583389136505504

*** 出力1 ***

6.583389136505504

出力合計: 6.583389136505504

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 3.78863817  5.85736636 -1.97345055  4.25560926 -2.28240752  5.58654637
    -2.01074486  4.05907461  4.20062068 -2.63069243]
  [ 5.85394756  9.05040649 -3.04924237  6.57547972 -3.52662178  8.63195376
    -3.10686701  6.27180765  6.49051508 -4.06476809]]
```

*** 偏微分_重み2 ***

```
[-9.46936844e-058 -6.16679039e-128 -3.68572500e+000 -1.58191238e-104
 -3.68572500e+000 -1.06750913e-140 -3.68572500e+000 -5.28925774e-084
 -1.00429759e-087 -3.68572500e+000]
```

*** 偏微分_バイアス1 ***

```
[ 2.24691335  3.47380617 -1.17038688  2.52385813 -1.35361882  3.31319198
 -1.19250487  2.40730007  2.49124626 -1.56017484]
```

*** 偏微分_バイアス2 ***

-3.685724995366817

順伝播開始

*** 総入力1 ***

```
[ 21.75226957  60.85826387 -41.91242062  35.35992041 -46.45320392
  46.95670545 -46.39074464  36.31820066  29.00115479 -41.56408906]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 6.27576977e-19 1.00000000e+00
 6.69313944e-21 1.00000000e+00 7.12451967e-21 1.00000000e+00
 1.00000000e+00 8.89089488e-19]
```

*** 総入力2 ***

-18.299752462667236

*** 出力1 ***

-18.299752462667236

出力合計: -18.299752462667236

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 25.44234514 39.33475029 -24.84978474 28.57825812 -28.20431929
    37.51607687 -25.25471179 27.25844284 28.20898599 -31.98586141]
  [-38.52848079 -59.56637106 37.63114008 -43.27733402 42.71106173
    -56.81227257 38.24433921 -41.27867874 -42.71812872 48.43762004]]
```

*** 偏微分_重み2 ***

```
[-1.82161751e+01 -1.82161751e+01 -1.14320521e-17 -1.82161751e+01
 -1.21923400e-19 -1.82161751e+01 -1.29781498e-19 -1.82161751e+01
 -1.82161751e+01 -1.61958098e-17]
```

*** 偏微分_バイアス1 ***

```
[ 8.73354284 13.50236092 -8.53013582 9.8100014 -9.68164017
 12.87806854 -8.66913431 9.35695106 9.6832421 -10.97972256]
```

*** 偏微分_バイアス2 ***

-18.2161751360439

順伝播開始

*** 総入力1 ***

```
[ -92.69873849 -200.41256053 146.91827399 -166.79472809 188.92546562
 -224.56079191 198.43232663 -132.64059631 -140.66898704 200.60813838]
```

*** 中間層出力1 ***

```
[5.51377951e-41 9.16074634e-88 1.00000000e+00 3.64728734e-73
 1.00000000e+00 2.98185982e-98 1.00000000e+00 2.48268114e-58
 8.09534108e-62 1.00000000e+00]
```

*** 総入力2 ***

9.148525144406962

*** 出力1 ***

9.148525144406962

出力合計: 9.148525144406962

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.01709404 -2.18118378 1.28786809 -1.27986237 1.46172063 -2.02879123
 1.30885389 -1.16927076 -1.24891986 1.65770331]
 [-0.4200886 -0.90089059 0.53192595 -0.52861936 0.60373196 -0.83794816
```


0.54059368 -0.4829419 -0.51583923 0.68467835]]

*** 偏微分_重み2 ***

[1.00772010e-40 1.67425415e-87 1.82763947e+00 6.66592628e-73
1.82763947e+00 5.44976468e-98 1.82763947e+00 4.53744604e-58
1.47953648e-61 1.82763947e+00]

*** 偏微分_バイアス1 ***

[-0.53155581 -1.13993483 0.67306831 -0.66888435 0.76392749 -1.06029111
0.68403596 -0.61108673 -0.65271311 0.86635237]

*** 偏微分_バイアス2 ***

1.827639466136219

順伝播開始

*** 総入力1 ***

[-246.8175983 -547.4270219 408.65336926 -449.90137338 523.68286331
-608.197562 546.82576487 -357.9989737 -376.17705744 551.44660477]

*** 中間層出力1 ***

[6.43396985e-108 1.80079860e-238 1.00000000e+000 4.07676935e-196
1.00000000e+000 7.29717757e-265 1.00000000e+000 3.33442686e-156
4.24991001e-164 1.00000000e+000]

*** 総入力2 ***

8.508851331259287

*** 出力1 ***

8.508851331259287

出力合計: 8.508851331259287

誤差逆伝播開始

*** 偏微分_重み1 ***

[[13.14568423 28.19125094 -15.50846799 16.54189873 -17.75546818
26.22161558 -15.77970418 15.11253005 16.14197457 -20.28849497]
[12.58479749 26.98841521 -14.84676839 15.83610575 -16.99789585
25.10281826 -15.10643175 14.46772393 15.45324515 -19.42284602]]

*** 偏微分_重み2 ***

[-7.23508003e-107 -2.02502067e-237 -1.12451258e+001 -4.58437842e-195
-1.12451258e+001 -8.20576796e-264 -1.12451258e+001 -3.74960494e-155

-4.77907726e-163 -1.12451258e+001]

*** 偏微分_バイアス1 ***

[3.27056406 7.01380701 -3.85840989 4.115521 -4.4174495 6.52377405
-3.92589176 3.75990301 4.01602237 -5.04765073]

*** 偏微分_バイアス2 ***

-11.245125786660957

順伝播開始

*** 総入力1 ***

[9.02743951 28.08184468 -25.30928114 19.55135906 -31.34928089
28.19469617 -30.59711967 15.64510739 14.51391622 -30.51725289]

*** 中間層出力1 ***

[9.99879945e-01 1.00000000e+00 1.01933952e-11 9.99999997e-01
2.42761772e-14 1.00000000e+00 5.15038584e-14 9.99999840e-01
9.99999503e-01 5.57860314e-14]

*** 総入力2 ***

-8.714462006311122

*** 出力1 ***

-8.714462006311122

出力合計: -8.714462006311122

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.83306638 1.78643273 -2.30560525 1.04823264 -2.53582135 1.66162021
-2.33339472 0.95765599 1.02289034 -2.79534227]
[-2.009602 -4.30940303 5.5618004 -2.52864652 6.11714959 -4.00831839
5.6288368 -2.31014891 -2.46751342 6.74319065]]

*** 偏微分_重み2 ***

[-7.86919056e+00 -7.87013541e+00 -8.02234004e-11 -7.87013538e+00
-1.91056802e-13 -7.87013541e+00 -4.05342339e-13 -7.87013414e+00
-7.87013149e+00 -4.39043621e-13]

*** 偏微分_バイアス1 ***

[1.80025699 3.86048228 -4.98241444 2.26523141 -5.47991159 3.59076235
-5.0424675 2.06949521 2.21046669 -6.04073647]

*** 偏微分_バイアス2 ***

-7.870135405737994

順伝播開始

*** 総入力1 ***

[34.30040046 89.80469994 -69.34808136 67.11795312 -86.6901497
92.29108549 -89.01611509 55.05318237 53.67773144 -86.67089977]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 7.62976101e-31 1.00000000e+00
2.24360473e-38 1.00000000e+00 2.19175707e-39 1.00000000e+00
1.00000000e+00 2.28721236e-38]

*** 総入力2 ***

-4.858302759788133

*** 出力1 ***

-4.858302759788133

出力合計: -4.858302759788133

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.21175055 0.67202913 -1.11313137 0.31563088 -1.22427823 0.61177045
-1.12654795 0.27190106 0.30339577 -1.34957326]
[-0.66752342 -2.11850776 3.50904051 -0.99499626 3.85942036 -1.92854801
3.55133498 -0.85714215 -0.95642622 4.254401]]

*** 偏微分_重み2 ***

[-2.12917400e+00 -2.12917400e+00 -1.62450888e-30 -2.12917400e+00
-4.77702487e-38 -2.12917400e+00 -4.66663217e-39 -2.12917400e+00
-2.12917400e+00 -4.86987309e-38]

*** 偏微分_バイアス1 ***

[0.25641706 0.81378649 -1.34793453 0.38220984 -1.48252662 0.74081689
-1.36418119 0.32925567 0.36739386 -1.6342513]

*** 偏微分_バイアス2 ***

-2.129174000121651

順伝播開始

*** 総入力1 ***

[32.53603304 95.44377501 -69.28944599 66.79805369 -84.76686127
90.63702733 -88.93406895 57.76909589 52.37741075 -80.74612072]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 8.09051103e-31 1.00000000e+00
1.53539422e-37 1.00000000e+00 2.37916522e-39 1.00000000e+00
1.00000000e+00 8.55865139e-36]

*** 総入力2 ***

-3.8150074997285213

*** 出力1 ***

-3.8150074997285213

出力合計: -3.8150074997285213

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.29920576 1.15872517 -2.07864986 0.49319081 -2.28620433 1.04619874
-2.10370383 0.41153019 0.47034308 -2.52017895]
[-0.60492665 -2.34268126 4.20256177 -0.99712071 4.62219014 -2.11517817
4.25321526 -0.83202133 -0.95092775 5.09523413]]

*** 偏微分_重み2 ***

[-1.44687264e+00 -1.44687264e+00 -1.17059390e-30 -1.44687264e+00
-2.22151989e-37 -1.44687264e+00 -3.44234906e-39 -1.44687264e+00
-1.44687264e+00 -1.23832785e-35]

*** 偏微分_バイアス1 ***

[0.13184892 0.51060733 -0.91598413 0.21733095 -1.00744571 0.4610211
-0.92702449 0.18134614 0.2072628 -1.11054967]

*** 偏微分_バイアス2 ***

-1.4468726368587808

順伝播開始

*** 総入力1 ***

[10.63806776 35.09290121 -28.0948947 23.75488934 -34.52911889
33.21298604 -34.83307218 20.04741823 17.5591645 -32.3081661]

*** 中間層出力1 ***

```
[9.99976015e-01 1.00000000e+00 6.28843045e-13 1.00000000e+00  
1.00970429e-15 1.00000000e+00 7.45056085e-16 9.99999998e-01  
9.99999976e-01 9.30554350e-15]
```

*** 総入力2 ***

-3.106031204339806

*** 出力1 ***

-3.106031204339806

出力合計: -3.106031204339806

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.14945747 0.69884598 -1.3286376 0.27344775 -1.46130288 0.626921  
-1.34465167 0.22125167 0.25884387 -1.61085548]  
[-0.29592316 -1.38370276 2.6306791 -0.54142173 2.89335403 -1.24129257  
2.66238668 -0.43807442 -0.51250632 3.18946554]]
```

*** 偏微分_重み2 ***

```
[-2.18319021e+00 -2.18324258e+00 -1.37291691e-12 -2.18324258e+00  
-2.20442939e-15 -2.18324258e+00 -1.62663817e-15 -2.18324257e+00  
-2.18324252e+00 -2.03162588e-14]
```

*** 偏微分_バイアス1 ***

```
[ 0.15547863 0.72700027 -1.38216419 0.28446409 -1.52017414 0.65217766  
-1.39882342 0.2301652 0.26927187 -1.67575173]
```

*** 偏微分_バイアス2 ***

-2.1832425757176974

順伝播開始

*** 総入力1 ***

```
[ 24.07622876 60.83265899 -49.03602284 46.91572914 -62.18494466  
65.18422011 -62.72626555 37.17562442 37.34974421 -63.09649243]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 5.05738325e-22 1.00000000e+00  
9.84966991e-28 1.00000000e+00 5.73230120e-28 1.00000000e+00  
1.00000000e+00 3.95859900e-28]
```

*** 総入力2 ***

-2.036254715002665

*** 出力1 ***

-2.036254715002665

出力合計: -2.036254715002665

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.00025833 -0.00190101 0.00397265 -0.00062906 0.00436932 -0.00168595
0.00402053 -0.00047299 -0.0005854 0.00481649]
[0.00240115 0.01766987 -0.03692576 0.00584712 -0.04061282 0.01567092
-0.03737082 0.00439647 0.00544124 -0.04476921]]

*** 偏微分_重み2 ***

[4.69606643e-02 4.69606643e-02 2.37498077e-23 4.69606643e-02
4.62547042e-29 4.69606643e-02 2.69192672e-29 4.69606643e-02
4.69606643e-02 1.85898439e-29]

*** 偏微分_バイアス1 ***

[-0.00193322 -0.01422643 0.02972979 -0.00470765 0.03269833 -0.01261702
0.03008813 -0.0035397 -0.00438087 0.03604474]

*** 偏微分_バイアス2 ***

0.04696066427417689

順伝播開始

*** 総入力1 ***

[143.66129443 326.89083732 -248.47876362 263.8696011 -317.49606713
360.32032873 -327.38558569 209.54978236 218.69224078 -332.10701256]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.22192371e-108 1.00000000e+000
1.29780672e-138 1.00000000e+000 6.58031495e-143 1.00000000e+000
1.00000000e+000 5.85810355e-145]

*** 総入力2 ***

-2.0592654405042206

*** 出力1 ***

-2.0592654405042206

出力合計: -2.0592654405042206

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.73064864  5.30496433 -11.06249241  1.76301677 -12.16708908
    4.70610312 -11.19582866  1.32842218  1.64142208 -13.41229278]
  [ 1.18700078  8.61836518 -17.97195859  2.8641705  -19.76646972
    7.64546427 -18.18857466  2.15813467  2.6666296  -21.78940891]]
```

*** 偏微分_重み2 ***

```
[9.47079083e+000 9.47079083e+000 1.15725839e-107 9.47079083e+000
 1.22912560e-137 9.47079083e+000 6.23207864e-142 9.47079083e+000
 9.47079083e+000 5.54808734e-144]
```

*** 偏微分_バイアス1 ***

```
[-0.39600392 -2.87523518  5.99575516 -0.95553665  6.59443501 -2.55065866
 6.06802202 -0.71999093 -0.8896336  7.26932239]
```

*** 偏微分_バイアス2 ***

9.470790827829738

順伝播開始

*** 総入力1 ***

```
[ 18.46873469  36.15426774 -36.41163244  33.04544226 -48.33015241
 48.00197277 -45.82629639  22.30211326  27.09822663 -53.57273778]
```

*** 中間層出力1 ***

```
[9.99999990e-01 1.00000000e+00 1.53684106e-16 1.00000000e+00
 1.02442814e-21 1.00000000e+00 1.25283059e-20 1.00000000e+00
 1.00000000e+00 5.41571250e-24]
```

*** 総入力2 ***

-6.699952937576981

*** 出力1 ***

-6.699952937576981

出力合計: -6.699952937576981

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.3190279  -3.32468766  4.85047327 -1.77168122  5.33479601 -3.06211028
```

```
4. 90893604 -1. 58112837 -1. 71836667 5. 88076948]
[ 1. 18704076 2. 9920063 -4. 36511578 1. 59439981 -4. 80097527 2. 75570344
-4. 41772853 1. 42291443 1. 54642012 -5. 29231648]]
```

*** 偏微分_重み2 ***

```
[-4. 77380730e+00 -4. 77380734e+00 -7. 33658312e-16 -4. 77380734e+00
-4. 89042259e-21 -4. 77380734e+00 -5. 98077188e-20 -4. 77380734e+00
-4. 77380734e+00 -2. 58535681e-23]
```

*** 偏微分_バイアス1 ***

```
[ 0. 82184969 2. 07152066 -3. 02219535 1. 10388543 -3. 32396342 1. 90791598
-3. 05862188 0. 98515723 1. 07066661 -3. 66414434]
```

*** 偏微分_バイアス2 ***

```
-4. 77380734469833
```

順伝播開始

*** 総入力1 ***

```
[-95. 92108394 -203. 0075844 150. 95430391 -169. 86791508 194. 38374856
-230. 39262962 202. 42375673 -133. 91221236 -144. 22242644 208. 74020102]
```

*** 中間層出力1 ***

```
[2. 19787277e-042 6. 83795611e-089 1. 00000000e+000 1. 68772556e-074
1. 00000000e+000 8. 74484838e-101 1. 00000000e+000 6. 96089546e-059
2. 31737347e-063 1. 00000000e+000]
```

*** 総入力2 ***

```
13. 066628989568544
```

*** 出力1 ***

```
13. 066628989568544
```

出力合計: 13. 066628989568544

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2. 00182353 -6. 92428563 7. 36290104 -3. 11276412 8. 09809124 -6. 27984572
7. 45164611 -2. 64509299 -2. 98191499 8. 92686574]
[ 0. 17547158 0. 60695426 -0. 64540148 0. 27285204 -0. 70984521 0. 55046532
-0. 6531805 0. 23185792 0. 26138234 -0. 78249216]]
```

*** 偏微分_重み2 ***

[1.22609688e-041 3.81459600e-088 5.57856169e+000 9.41508115e-074
5.57856169e+000 4.87836762e-100 5.57856169e+000 3.88317847e-058
1.29276108e-062 5.57856169e+000]

*** 偏微分_バイアス1 ***

[-0.75513844 -2.61201557 2.77747239 -1.17421331 3.05480471 -2.36891654
2.81094927 -0.99779594 -1.12485371 3.36743941]

*** 偏微分_バイアス2 ***

5.57856168851252

順伝播開始

*** 総入力1 ***

[-173.00719515 -380.11758276 282.99812644 -311.44751263 362.10875327
-422.52514264 377.1089356 -247.96970527 -261.98381079 383.44300703]

*** 中間層出力1 ***

[7.31020942e-076 8.26097546e-166 1.00000000e+000 5.49621689e-136
1.00000000e+000 3.15981811e-184 1.00000000e+000 2.03294356e-108
1.66677365e-114 1.00000000e+000]

*** 総入力2 ***

11.11413239858916

*** 出力1 ***

11.11413239858916

出力合計: 11.11413239858916

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.0075692 3.4851708 -3.13445764 1.56673413 -3.50449775 3.16080764
-3.17912531 1.33134324 1.5008744 -3.92164124]
[0.63434929 2.19420724 -1.9734039 0.9863905 -2.20637517 1.98999343
-2.00152594 0.8381922 0.94492628 -2.46900198]]

*** 偏微分_重み2 ***

[-1.72076073e-075 -1.94456292e-165 -2.35391441e+000 -1.29376241e-135
-2.35391441e+000 -7.43794139e-184 -2.35391441e+000 -4.78537513e-108
-3.92344252e-114 -2.35391441e+000]

*** 偏微分_バイアス1 ***

```
[ 0.31863612  1.10215884 -0.99124846  0.49546779 -1.10827084  0.99958145  
-1.00537428  0.4210272  0.47464015 -1.24018931]
```

*** 偏微分_バイアス2 ***

-2.3539144091966246

順伝播開始

*** 総入力1 ***

```
[ -83.29706725 -174.60808541  129.05494898 -147.03043567  166.57274978  
-199.01148159  173.76536426 -115.77818137 -125.07754314  179.34467087]
```

*** 中間層出力1 ***

```
[6.67641515e-37 1.47459247e-76 1.00000000e+00 1.39795476e-64  
1.00000000e+00 3.71887609e-87 1.00000000e+00 5.22606377e-51  
4.78093903e-55 1.00000000e+00]
```

*** 総入力2 ***

11.938002441807981

*** 出力1 ***

11.938002441807981

出力合計: 11.938002441807981

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.78866745 -6.18698109  5.99246336 -2.78131403  6.64936981 -5.61116175  
 6.07175877 -2.36344096 -2.66439783  7.38989561]  
[ 0.29120638  1.00727966 -0.97561095  0.45281552 -1.08255947  0.91353263  
-0.98852074  0.38478314  0.43378082 -1.20312176]]
```

*** 偏微分_重み2 ***

```
[3.62539621e-36 8.00726413e-76 5.43015395e+00 7.59110957e-64  
5.43015395e+00 2.01940697e-86 5.43015395e+00 2.83783308e-50  
2.59612350e-54 5.43015395e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.73504932 -2.54252753  2.46259086 -1.14297545  2.73254525 -2.30589572  
 2.49517715 -0.97125135 -1.09492897  3.03686285]
```

*** 偏微分_バイアス2 ***

5.430153951538732

順伝播開始

*** 総入力1 ***

[27.67948248 50.00511918 -47.69017435 48.44629502 -64.62754282
68.74652607 -62.14542983 32.66076498 40.36920683 -72.81388192]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.94276575e-21 1.00000000e+00
8.56277973e-29 1.00000000e+00 1.02466700e-27 1.00000000e+00
1.00000000e+00 2.38414615e-32]

*** 総入力2 ***

-4.9666234366522755

*** 出力1 ***

-4.9666234366522755

出力合計: -4.9666234366522755

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.5817674 -2.01232706 2.63196028 -0.90462754 2.97740898 -1.82504076
2.67365951 -0.76871355 -0.86660033 3.36683077]
[0.55258981 1.9114021 -2.49995863 0.85925743 -2.82808193 1.73350884
-2.53956651 0.73015999 0.82313741 -3.19797291]]

*** 偏微分_重み2 ***

[-2.09105112e+00 -2.09105112e+00 -4.06242250e-21 -2.09105112e+00
-1.79052102e-28 -2.09105112e+00 -2.14263108e-27 -2.09105112e+00
-2.09105112e+00 -4.98537148e-32]

*** 偏微分_バイアス1 ***

[0.22260702 0.76999523 -1.0070912 0.34614597 -1.13927342 0.69833215
-1.02304696 0.29413994 0.33159526 -1.28828146]

*** 偏微分_バイアス2 ***

-2.0910511222238046

順伝播開始

*** 総入力1 ***

[-192.41117535 -416.3080375 311.89586721 -344.99619327 400.80429368
-468.33314328 416.33747516 -272.59904812 -290.56713573 426.61028033]

*** 中間層出力1 ***

[2.73456524e-084 1.58385909e-181 1.00000000e+000 1.47930248e-150
1.00000000e+000 4.03181116e-204 1.00000000e+000 4.09013487e-119
6.43126390e-127 1.00000000e+000]

*** 総入力2 ***

10.183822137325091

*** 出力1 ***

10.183822137325091

出力合計: 10.183822137325091

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.19440121 9.58956264 -8.41512836 3.86340034 -9.5196265
8.62140136 -8.54845272 3.16080407 3.66682179 -10.76471912]
[0.478528 2.09117378 -1.83506761 0.84248279 -2.07592296
1.88004908 -1.86414134 0.68926924 0.79961536 -2.34743744]]

*** 偏微分_重み2 ***

[-1.37299058e-083 -7.95235593e-181 -5.02087339e+000 -7.42739043e-150
-5.02087339e+000 -2.02432134e-203 -5.02087339e+000 -2.05360493e-118
-3.22905617e-126 -5.02087339e+000]

*** 偏微分_バイアス1 ***

[0.49591652 2.16716181 -1.90174938 0.87309651 -2.15135682 1.94836537
-1.93187958 0.71431557 0.82867138 -2.43273745]

*** 偏微分_バイアス2 ***

-5.0208733866913615

順伝播開始

*** 総入力1 ***

[-213.44740737 -479.03667671 356.17355203 -386.73170429 453.56516081
-525.69851313 472.45860993 -309.93278985 -324.40784533 477.46164077]

*** 中間層出力1 ***

[1.99971822e-093 9.05763210e-209 1.00000000e+000 1.10803850e-168
1.00000000e+000 4.92081005e-229 1.00000000e+000 2.49976744e-135
1.29259623e-141 1.00000000e+000]

*** 総入力2 ***

11.941127822667067

*** 出力1 ***

11.941127822667067

出力合計: 11.941127822667067

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.24540681 5.44244441 -5.64721075 2.1926278 -6.27405578 4.89297577
-5.72287743 1.79387748 2.08106193 -6.98069357]
[1.7607644 7.69456399 -7.98406399 3.09995172 -8.87030166 6.91772158
-8.09104205 2.53619587 2.94221915 -9.86935085]]

*** 偏微分_重み2 ***

[-8.95050228e-093 -4.05408902e-208 -4.47588175e+000 -4.95944929e-168
-4.47588175e+000 -2.20249639e-228 -4.47588175e+000 -1.11886634e-134
-5.78550789e-141 -4.47588175e+000]

*** 偏微分_バイアス1 ***

[0.44208717 1.93192683 -2.00461357 0.77832609 -2.22712733 1.73687969
-2.03147329 0.63678005 0.73872309 -2.47796544]

*** 偏微分_バイアス2 ***

-4.475881746457915

順伝播開始

*** 総入力1 ***

[22.7350041 43.75662245 -41.39995412 40.69201355 -55.52586561
58.0171267 -53.41176489 27.8608132 33.48807483 -61.53933024]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.04767933e-18 1.00000000e+00
7.68109196e-25 1.00000000e+00 6.36158358e-24 1.00000000e+00
1.00000000e+00 1.87848814e-27]

*** 総入力2 ***

-3.277235527389524

*** 出力1 ***

-3.277235527389524

出力合計: -3.277235527389524

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.13488485 -0.5894486  1.12489903 -0.23747443  1.23466618 -0.52993793
  1.13814906 -0.19428744 -0.2253912  1.35840589]
 [ 0.11818914  0.51648813 -0.98566184  0.20808044 -1.08184229  0.46434354
 -0.99727182  0.17023902  0.19749284 -1.19026581]]
```

*** 偏微分_重み2 ***

```
[-9.18379820e-01 -9.18379820e-01 -9.62167557e-19 -9.18379820e-01
 -7.05415985e-25 -9.18379820e-01 -5.84234999e-24 -9.18379820e-01
 -9.18379820e-01 -1.72516560e-27]
```

*** 偏微分_バイアス1 ***

```
[ 0.07133809  0.31174842 -0.59493821  0.12559582 -0.65299202  0.28027433
 -0.60194591  0.10275502  0.11920522 -0.71843565]
```

*** 偏微分_バイアス2 ***

-0.9183798204047875

順伝播開始

*** 総入力1 ***

```
[-5.79544373 -15.13791798  4.69328805 -9.81909044  4.49155441
 -11.29251584  7.91536047 -10.75894748 -9.19719824  3.60646847]
```

*** 中間層出力1 ***

```
[3.03215863e-03 2.66492896e-07 9.90926552e-01 5.44000848e-05
 9.88920906e-01 1.24657173e-05 9.99635041e-01 2.12539302e-05
 1.01312621e-04 9.73569961e-01]
```

*** 総入力2 ***

13.432163637112915

*** 出力1 ***

13.432163637112915

出力合計: 13.432163637112915

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.79363021  3.98795026 -4.90965081  1.5145513 -5.39368624  3.56975584
 -4.94761031  1.21106691  1.42963977 -5.97581505]
 [-1.20440453 -6.05206975  7.45083244 -2.2984665  8.18539932 -5.41742247
  7.50843936 -1.83790191 -2.16960569  9.06883164]]
```

*** 偏微分_重み2 ***

```
[4.06521005e-02 3.57286584e-06 1.32853359e+01 7.29341036e-04
 1.32584462e+01 1.67127665e-04 1.34020904e+01 2.84951090e-04
 1.35829664e-03 1.30526363e+01]
```

*** 偏微分_バイアス1 ***

```
[-1.10874586 -5.57138991  6.85905721 -2.11591301  7.53528183 -4.98714889
  6.91208876 -1.69192831 -1.99728684  8.34854838]
```

*** 偏微分_バイアス2 ***

13.406983435542625

順伝播開始

*** 総入力1 ***

```
[ 51.10362198 100.47965783 -87.36924776  90.20649172 -115.68587778
 126.90396023 -114.17009213  64.81127864  75.67590242 -128.04041229]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.13767394e-38 1.00000000e+00
 5.73141222e-51 1.00000000e+00 2.60951013e-50 1.00000000e+00
 1.00000000e+00 2.47033289e-56]
```

*** 総入力2 ***

-3.768741933226346

*** 出力1 ***

-3.768741933226346

出力合計: -3.768741933226346

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.23031152  1.14743022 -1.45816317  0.4358084 -1.68175361  1.02711344
 -1.47777984  0.3484671  0.41140768 -1.9445883 ]
 [-0.18668676 -0.93008821  1.18196327 -0.35325917  1.36320203 -0.83256139
  1.19786422 -0.28246174 -0.33348035  1.57625154]]
```

*** 偏微分_重み2 ***

[1. 01249937e+00 1. 01249937e+00 1. 15189415e-38 1. 01249937e+00
5. 80305128e-51 1. 01249937e+00 2. 64212738e-50 1. 01249937e+00
1. 01249937e+00 2. 50121050e-56]

*** 偏微分_バイアス1 ***

[-0. 06641812 -0. 33090031 0. 42051067 -0. 12568009 0. 48499053 -0. 2962029
0. 4261678 -0. 10049227 -0. 11864332 0. 5607878]

*** 偏微分_バイアス2 ***

1. 0124993742121018

順伝播開始

*** 総入力1 ***

[-98. 09224653 -218. 36695341 159. 4565445 -176. 51446269 202. 93592262
-239. 11571548 212. 69865708 -142. 1517576 -148. 90127682 214. 15998363]

*** 中間層出力1 ***

[2. 50656293e-043 1. 46028325e-095 1. 00000000e+000 2. 19150707e-077
1. 00000000e+000 1. 42352215e-104 1. 00000000e+000 1. 83770620e-062
2. 15276751e-065 1. 00000000e+000]

*** 総入力2 ***

8. 852713605843771

*** 出力1 ***

8. 852713605843771

出力合計: 8. 852713605843771

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 19099757 -0. 81830717 0. 6168822 -0. 33155753 0. 7114731 -0. 73601044
0. 62518111 -0. 27181604 -0. 31486743 0. 82266644]
[-0. 2610153 -1. 11829006 0. 84302479 -0. 45310306 0. 97229172 -1. 0058242
0. 854366 -0. 37146097 -0. 43029455 1. 12424739]]

*** 偏微分_重み2 ***

[3. 67420329e-043 2. 14053175e-095 1. 46583325e+000 3. 21238394e-077
1. 46583325e+000 2. 08664610e-104 1. 46583325e+000 2. 69377085e-062
3. 15559819e-065 1. 46583325e+000]

*** 偏微分_バイアス1 ***

[-0.14823894 -0.63511271 0.47878076 -0.25733173 0.55219559 -0.57123976
0.4852218 -0.21096457 -0.24437804 0.63849607]

*** 偏微分_バイアス2 ***

1.4658332520622803

順伝播開始

*** 総入力1 ***

[-169.83407054 -366.43791002 275.93634587 -303.39727235 354.54164363
-413.69634458 367.34849793 -238.95234205 -256.22786193 379.03846363]

*** 中間層出力1 ***

[1.74582347e-074 7.21170110e-160 1.00000000e+000 1.72281559e-132
1.00000000e+000 2.15754751e-180 1.00000000e+000 1.67616361e-104
5.26809326e-112 1.00000000e+000]

*** 総入力2 ***

8.339671967621971

*** 出力1 ***

8.339671967621971

出力合計: 8.339671967621971

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.2120243 9.47716403 -6.70310536 3.83990902 -7.79860287 8.52405055
-6.79921866 3.14801742 3.64661386 -9.08638038]
[0.09684398 0.4149169 -0.29346666 0.16811391 -0.34142831 0.37318892
-0.29767457 0.13782241 0.15965132 -0.39780812]]

*** 偏微分_重み2 ***

[-8.80854640e-074 -3.63866135e-159 -5.04549662e+000 -8.69246025e-132
-5.04549662e+000 -1.08858986e-179 -5.04549662e+000 -8.45707783e-104
-2.65801467e-111 -5.04549662e+000]

*** 偏微分_バイアス1 ***

[0.5102484 2.18610066 -1.5462076 0.88575312 -1.79890639 1.96624565
-1.56837809 0.72615425 0.84116566 -2.09595846]

*** 偏微分_バイアス2 ***

-5.045496618564094

順伝播開始

*** 総入力1 ***

[-142.51774982 -323.81360921 237.75098439 -258.59129171 301.50597776
-351.11545388 315.37830414 -209.03683639 -217.08741482 316.1463334]

*** 中間層出力1 ***

[1.27446432e-062 2.34172749e-141 1.00000000e+000 4.95711438e-113
1.00000000e+000 3.25458688e-153 1.00000000e+000 1.64609706e-091
5.24968994e-095 1.00000000e+000]

*** 総入力2 ***

10.105595784119407

*** 出力1 ***

10.105595784119407

出力合計: 10.105595784119407

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.07611157 0.32609127 -0.28290302 0.132124 -0.32059701 0.29329644
-0.28621009 0.10831732 0.12547308 -0.364907]
[0.21596178 0.92526342 -0.80271946 0.37489352 -0.9096738 0.83221016
-0.81210308 0.30734356 0.35602195 -1.03540059]]

*** 偏微分_重み2 ***

[-7.76559836e-063 -1.42686734e-141 -6.09322539e-001 -3.02048152e-113
-6.09322539e-001 -1.98309314e-153 -6.09322539e-001 -1.00300404e-091
-3.19875440e-095 -6.09322539e-001]

*** 偏微分_バイアス1 ***

[0.06162047 0.26400581 -0.22904029 0.10696853 -0.25955761 0.23745488
-0.23171772 0.08769447 0.10158389 -0.29543129]

*** 偏微分_バイアス2 ***

-0.6093225393926716

順伝播開始

*** 総入力1 ***

```
[ 33.11993327  55.31693886 -55.13785719  55.88402186 -75.75511346
 81.51809013 -71.46070634  35.64888884  47.67038504 -88.57827241]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.13222536e-24 1.00000000e+00
 1.25884497e-33 1.00000000e+00 9.22591740e-32 1.00000000e+00
 1.00000000e+00 3.39582324e-39]
```

*** 総入力2 ***

-3.971637613177659

*** 出力1 ***

-3.971637613177659

出力合計: -3.971637613177659

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.15574368 -0.66726593  0.95684156 -0.27035941  1.08154896 -0.60015934
  0.96778274 -0.22164487 -0.25674993  1.2281448 ]
 [ 0.16665942  0.71403314 -1.02390449  0.28930831 -1.15735236  0.64222319
 -1.03561252  0.23717947  0.27474497 -1.31422278]]
```

*** 偏微分_重み2 ***

```
[-4.82573732e-01 -4.82573732e-01 -5.46382220e-25 -4.82573732e-01
 -6.07485515e-34 -4.82573732e-01 -4.45218539e-32 -4.82573732e-01
 -4.82573732e-01 -1.63873509e-39]
```

*** 偏微分_バイアス1 ***

```
[ 0.03838056  0.16443709 -0.2357984  0.06662578 -0.26653056  0.14789974
 -0.23849468  0.05462086  0.06327194 -0.30265678]
```

*** 偏微分_バイアス2 ***

-0.4825737318071006

順伝播開始

*** 総入力1 ***

```
[ 2.11772614  28.28773735 -21.05244983  11.39391285 -22.17407041
 15.31501533 -23.83231862  14.08114735  6.11954894 -14.58151868]
```

*** 中間層出力1 ***

```
[8.92614165e-01 1.00000000e+00 7.19510621e-10 9.99988736e-01
```

2. 34381635e-10 9. 99999777e-01 4. 46432219e-11 9. 99999233e-01
9. 97805379e-01 4. 64864839e-07]

*** 総入力2 ***

-3. 6939656717518345

*** 出力1 ***

-3. 6939656717518345

出力合計: -3. 6939656717518345

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 83910534 3. 66839821 -5. 36495393 1. 44297438 -6. 06418092 3. 29213588
-5. 4263005 1. 16982774 1. 36804476 -6. 88613513]
[-1. 24290967 -5. 43374876 7. 94674135 -2. 1373798 8. 98245874 -4. 87641696
8. 03760986 -1. 73278627 -2. 02639165 10. 1999636]]

*** 偏微分_重み2 ***

[-3. 39403550e+00 -3. 80235451e+00 -2. 73583445e-09 -3. 80231168e+00
-8. 91202066e-10 -3. 80235366e+00 -1. 69749356e-10 -3. 80235159e+00
-3. 79400978e+00 -1. 76758092e-06]

*** 偏微分_バイアス1 ***

[0. 29058974 1. 27039935 -1. 85793188 0. 49971503 -2. 10008049 1. 14009632
-1. 87917675 0. 40512189 0. 47376622 -2. 38473064]

*** 偏微分_バイアス2 ***

-3. 8023545085592168

順伝播開始

*** 総入力1 ***

[92. 70499555 206. 91832734 -164. 80619238 168. 87602266 -211. 42369896
234. 19745655 -214. 71554806 131. 04182852 140. 46397753 -224. 68645132]

*** 中間層出力1 ***

[1. 00000000e+00 1. 00000000e+00 2. 66428124e-72 1. 00000000e+00
1. 51305319e-92 1. 00000000e+00 5. 62629237e-94 1. 00000000e+00
1. 00000000e+00 2. 62974738e-98]

*** 総入力2 ***

-1. 9011924986697546

*** 出力1 ***

-1.9011924986697546

出力合計: -1.9011924986697546

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.36433211  3.92134922 -6.79996236  1.10067163 -7.68621735  3.44444464
    -6.8777178   0.75446556  1.00554353 -8.72802686]
  [ 0.03420064  0.36810549 -0.6383271   0.10332241 -0.72152176  0.32333743
    -0.64562617  0.07082331  0.09439254 -0.81931866]]
```

*** 偏微分_重み2 ***

```
[5.77739049e+00 5.77739049e+00 1.53925931e-71 5.77739049e+00
 8.74149913e-92 5.77739049e+00 3.25052880e-93 5.77739049e+00
 5.77739049e+00 1.51930775e-97]
```

*** 偏微分_バイアス1 ***

```
[-0.15125155 -1.62793821  2.82298717 -0.45694104  3.19091369 -1.42995248
 2.85526715 -0.31321447 -0.41744885  3.62341827]
```

*** 偏微分_バイアス2 ***

5.777390490247208

順伝播開始

*** 総入力1 ***

```
[ 151.18818896  329.41618776 -263.39675155  272.22078047 -339.0914585
 378.18342109 -344.00624025  209.63428453  228.11032535 -364.21363216]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 4.05736659e-115 1.00000000e+000
 5.42563675e-148 1.00000000e+000 3.98096279e-150 1.00000000e+000
 1.00000000e+000 6.66851789e-159]
```

*** 総入力2 ***

-4.732113838890886

*** 出力1 ***

-4.732113838890886

出力合計: -4.732113838890886

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 4.10716446 14.03950835 -18.98769742 6.1632629 -21.46240842
    12.70783629 -19.2048158 5.19654342 5.89763445 -24.37147799]
  [ -1.00155332 -3.42360682 4.63024835 -1.50294358 5.23371944
    -3.09887169 4.68319379 -1.26720403 -1.4381687 5.94311112]]
```

*** 偏微分_重み2 ***

```
[7.79386804e+000 7.79386804e+000 3.16225798e-114 7.79386804e+000
 4.22866969e-147 7.79386804e+000 3.10270987e-149 7.79386804e+000
 7.79386804e+000 5.19735485e-158]
```

*** 偏微分_バイアス1 ***

```
[-0.82375871 -2.81585202 3.80829192 -1.23614274 4.30463551 -2.54876351
 3.85183854 -1.0422514 -1.18286663 4.88809678]
```

*** 偏微分_バイアス2 ***

7.793868043334259

順伝播開始

*** 総入力1 ***

```
[-16.95666474 -17.69810515 18.4772697 -22.91389027 26.78262561
 -34.0378449 25.20013954 -13.2700969 -22.90819621 37.96996041]
```

*** 中間層出力1 ***

```
[4.32328687e-08 2.05973138e-08 9.99999991e-01 1.11846886e-10
 1.00000000e+00 1.65025776e-15 1.00000000e+00 1.72531895e-06
 1.12485565e-10 1.00000000e+00]
```

*** 総入力2 ***

9.668813446895037

*** 出力1 ***

9.668813446895037

出力合計: 9.668813446895037

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ -7.03016543 -15.46790989 9.97669406 -8.77686625 11.27697987
    -14.3366252 10.09077439 -7.9556168 -8.55120904 12.80549049]
```

```
[ 8.91826901 19.62215296 -12.65615188 11.13408426 -14.30565769
18.18703721 -12.80087097 10.09227044 10.84782192 -16.24468302]]
```

*** 偏微分_重み2 ***

```
[3.54686348e-07 1.68982217e-07 8.20408997e+00 9.17601922e-10
8.20409004e+00 1.35388633e-14 8.20409004e+00 1.41546720e-05
9.22841705e-10 8.20409004e+00]
```

*** 偏微分_バイアス1 ***

```
[-2.22155136 -4.88790151 3.1526624 -2.77351356 3.56355625 -4.53041248
3.1887121 -2.5139965 -2.70220527 4.04656975]
```

*** 偏微分_バイアス2 ***

8.204090042873919

順伝播開始

*** 総入力1 ***

```
[ 166.32650827 375.51209011 -295.42484682 303.00156414 -376.99044184
419.02115108 -385.1395727 237.88801118 252.67393302 -399.48086976]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 4.99596295e-129 1.00000000e+000
1.88421900e-164 1.00000000e+000 5.44513702e-168 1.00000000e+000
1.00000000e+000 3.21856761e-174]
```

*** 総入力2 ***

-9.125396510738518

*** 出力1 ***

-9.125396510738518

出力合計: -9.125396510738518

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3.13561238 6.89903664 -5.08060022 3.91468026 -6.01828294 6.39445812
-5.16286765 3.54838736 3.81403206 -7.12054674]
[ 1.37380063 3.02266343 -2.22595491 1.71513234 -2.63678028 2.80159329
-2.2619986 1.55464904 1.67103551 -3.11971328]]
```

*** 偏微分_重み2 ***

```
[4.26296415e+000 4.26296415e+000 2.12976109e-128 4.26296415e+000
```

8. 03235802e-164 4. 26296415e+000 2. 32124239e-167 4. 26296415e+000
4. 26296415e+000 1. 37206383e-173]

*** 偏微分_バイアス1 ***

[-0. 9078362 -1. 99743923 1. 47095757 -1. 13339533 1. 74243957 -1. 85135145
1. 494776 -1. 02734461 -1. 10425522 2. 0615718]

*** 偏微分_バイアス2 ***

4. 262964145199312

順伝播開始

*** 総入力1 ***

[-256. 82780421 -576. 38565893 433. 99627191 -463. 42743598 552. 22546511
-634. 33112029 571. 88949409 -369. 93115474 -389. 55581626 584. 23101022]

*** 中間層出力1 ***

[2. 89135777e-112 4. 77407105e-251 1. 00000000e+000 5. 44529977e-202
1. 00000000e+000 3. 26208114e-276 1. 00000000e+000 2. 19250611e-161
6. 57746591e-170 1. 00000000e+000]

*** 総入力2 ***

6. 498976676643171

*** 出力1 ***

6. 498976676643171

出力合計: 6. 498976676643171

誤差逆伝播開始

*** 偏微分_重み1 ***

[[18. 36884274 35. 65353583 -14. 43222346 21. 94695361 -17. 09585494
33. 33610251 -14. 6659167 20. 26463984 21. 48469552 -20. 22700417]
[17. 15605766 33. 29954561 -13. 47934986 20. 49792722 -15. 96711765
31. 13511858 -13. 69761373 18. 92668659 20. 06618928 -18. 89153578]]

*** 偏微分_重み2 ***

[-3. 80662465e-111 -6. 28531577e-250 -1. 31655262e+001 -7. 16902369e-201
-1. 31655262e+001 -4. 29470148e-275 -1. 31655262e+001 -2. 88654966e-160
-8. 65957999e-169 -1. 31655262e+001]

*** 偏微分_バイアス1 ***

[4. 54721098 8. 82604048 -3. 57270003 5. 4329731 -4. 23208258 8. 25235936

-3.63055084 5.01651596 5.31854101 -5.00719924]

*** 偏微分_バイアス2 ***

-13.165526230636889

順伝播開始

*** 総入力1 ***

[-35.45129015 -65.34411766 51.13282687 -59.45855331 67.65127663
-81.83481339 69.54978865 -44.33096089 -52.38546618 77.76376105]

*** 中間層出力1 ***

[4.01513646e-16 4.18225277e-29 1.00000000e+00 1.50479866e-26
1.00000000e+00 2.88132415e-36 1.00000000e+00 5.58866794e-20
1.77533823e-23 1.00000000e+00]

*** 総入力2 ***

11.106910857366083

*** 出力1 ***

11.106910857366083

出力合計: 11.106910857366083

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-6.92537565 -13.44200789 9.07434501 -8.27438616 10.07858076
-12.56829491 9.16245146 -7.64012439 -8.10010676 11.2590789]
[6.28276823 12.19472046 -8.23233416 7.5066037 -9.14338661
11.40207953 -8.31226519 6.93119524 7.34849573 -10.21434602]]

*** 偏微分_重み2 ***

[3.29729878e-15 3.43453755e-28 8.21217115e+00 1.23576641e-25
8.21217115e+00 2.36619270e-35 8.21217115e+00 4.58950976e-19
1.45793814e-22 8.21217115e+00]

*** 偏微分_バイアス1 ***

[-2.836383 -5.50535951 3.71652301 -3.38888884 4.12782159 -5.14751832
3.75260822 -3.12911819 -3.31751031 4.61131087]

*** 偏微分_バイアス2 ***

8.21217115281559

順伝播開始

*** 総入力1 ***

[-57.48153138 -114.77149937 89.33425924 -100.24067662 116.95678071
-137.74592957 120.45859647 -76.14511097 -86.34589466 130.18921005]

*** 中間層出力1 ***

[1.08664607e-25 1.43011560e-50 1.00000000e+00 2.92433608e-44
1.00000000e+00 1.50557670e-60 1.00000000e+00 8.52311765e-34
3.16558815e-38 1.00000000e+00]

*** 総入力2 ***

8.232650953880626

*** 出力1 ***

8.232650953880626

出力合計: 8.232650953880626

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3.56112192 -6.91206243 3.50082927 -4.25480138 4.01722088 -6.46278739
3.54613479 -3.92865539 -4.16518456 4.62424901]
[2.48992481 4.83289147 -2.44776839 2.97494323 -2.80882772 4.51875983
-2.47944586 2.74690302 2.91228344 -3.2332598]]

*** 偏微分_重み2 ***

[3.75979599e-25 4.94820076e-50 3.46000056e+00 1.01182045e-43
3.46000056e+00 5.20929622e-60 3.46000056e+00 2.94899918e-33
1.09529368e-37 3.46000056e+00]

*** 偏微分_バイアス1 ***

[-1.19504167 -2.31955065 1.17480866 -1.4278267 1.34809942 -2.16878289
1.1900123 -1.3183786 -1.39775308 1.55180598]

*** 偏微分_バイアス2 ***

3.460000555704168

順伝播開始

*** 総入力1 ***

[46.5310229 112.69559247 -86.72478634 85.26399505 -108.71441962
118.92410463 -110.0416029 69.01362366 70.12455101 -112.0317772]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.16722424e-38 1.00000000e+00
6.10839981e-48 1.00000000e+00 1.62008978e-48 1.00000000e+00
1.00000000e+00 2.21420263e-49]

*** 総入力2 ***

-11.109714125337982

*** 出力1 ***

-11.109714125337982

出力合計: -11.109714125337982

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.29785664 0.57813345 -0.40702907 0.35587685 -0.47686194 0.54055553
-0.41315584 0.3285976 0.34838119 -0.5589518]
[-3.99971268 -7.76335784 5.46571434 -4.77882629 6.40345211 -7.25874971
5.5479866 -4.41251189 -4.67817218 7.50578061]]

*** 偏微分_重み2 ***

[-7.72195736e+00 -7.72195736e+00 -1.67352131e-37 -7.72195736e+00
-4.71688029e-47 -7.72195736e+00 -1.25102642e-47 -7.72195736e+00
-7.72195736e+00 -1.70979783e-48]

*** 偏微分_バイアス1 ***

[2.09751051 4.07122361 -2.86630421 2.50608961 -3.35806824 3.80659939
-2.90944904 2.31398873 2.45330505 -3.93614617]

*** 偏微分_バイアス2 ***

-7.721957361281577

順伝播開始

*** 総入力1 ***

[17.26459656 52.31676586 -36.67359076 33.48663062 -43.50000592
46.58030171 -44.38067912 30.18659096 26.17809156 -40.08243767]

*** 中間層出力1 ***

[9.99999968e-01 1.00000000e+00 1.18266543e-16 1.00000000e+00
1.28288423e-19 1.00000000e+00 5.31760354e-20 1.00000000e+00
1.00000000e+00 3.91217703e-18]

*** 総入力2 ***

-7.3259549915824005

*** 出力1 ***

-7.3259549915824005

出力合計: -7.3259549915824005

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.75783666 4.47503986 -3.94602999 2.3203259 -4.62303963 4.11073271
-4.00542731 2.05586136 2.24765761 -5.41887729]
[-3.10383066 -7.90162491 6.96754661 -4.09702383 8.16294967 -7.25836395
7.07242509 -3.63005601 -3.96871266 9.56816859]]

*** 偏微分_重み2 ***

[-6.45008680e+00 -6.45008701e+00 -7.62829492e-16 -6.45008701e+00
-8.27471492e-19 -6.45008701e+00 -3.42990055e-19 -6.45008701e+00
-6.45008701e+00 -2.52338822e-17]

*** 偏微分_バイアス1 ***

[1.06654354 2.71516973 -2.39420016 1.40782626 -2.80496658 2.4941313
-2.43023868 1.24736599 1.36373576 -3.28783028]

*** 偏微分_バイアス2 ***

-6.45008700609405

順伝播開始

*** 総入力1 ***

[8.80415041 20.47755521 -24.32060614 17.52984878 -31.86629061
27.03735454 -29.29105099 11.09395987 13.56240169 -34.73012755]

*** 中間層出力1 ***

[9.99849914e-01 9.99999999e-01 2.73964920e-11 9.99999976e-01
1.44759085e-14 1.00000000e+00 1.90133300e-13 9.99984796e-01
9.99998712e-01 8.25842536e-16]

*** 総入力2 ***

-4.165345028355745

*** 出力1 ***

-4.165345028355745

出力合計: -4.165345028355745

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.19460608 -0.84405934  0.94318131 -0.32903894  1.10500037 -0.75698253
  0.95737848 -0.26582841 -0.31166993  1.29522173]
 [ 0.16109876  0.69872901 -0.78078415  0.27238494 -0.91474116  0.62664511
 -0.79253684  0.22005802  0.25800653 -1.07221017]]
```

*** 偏微分_重み2 ***

```
[-3.04218420e+00 -3.04264085e+00 -8.33576858e-11 -3.04264078e+00
 -4.40449908e-14 -3.04264086e+00 -5.78507347e-13 -3.04259460e+00
 -3.04263694e+00 -2.51274224e-15]
```

*** 偏微分_バイアス1 ***

```
[ 0.2330273  1.01070256 -1.12939426  0.39400133 -1.32316136  0.90643412
 -1.14639438  0.3183111  0.37320314 -1.55093827]
```

*** 偏微分_バイアス2 ***

-3.0426408573166164

順伝播開始

*** 総入力1 ***

```
[ 142.95111741  334.70624872 -248.84496537  259.3293303 -313.49000501
 356.9920083 -322.49902143  210.27157937  215.83943553 -325.53445724]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 8.47236565e-109 1.00000000e+000
 7.12886992e-137 1.00000000e+000 8.71875703e-141 1.00000000e+000
 1.00000000e+000 4.18968674e-142]
```

*** 総入力2 ***

-2.6745538636233808

*** 出力1 ***

-2.6745538636233808

出力合計: -2.6745538636233808

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.08539883  0.71419267 -0.91318175  0.21555341 -1.06985386
  0.62988549 -0.92692735  0.15435316  0.1987368  -1.2540249 ]
 [ 1.26610171 10.5884426 -13.53860515  3.19574121 -15.86138687
  9.33852542 -13.742394  2.28840155  2.94642234 -18.59186076]]
```

*** 偏微分_重み2 ***

```
[7.72451324e+000 7.72451324e+000 6.54449006e-108 7.72451324e+000
 5.50670501e-136 7.72451324e+000 6.73481541e-140 7.72451324e+000
 7.72451324e+000 3.23632906e-141]
```

*** 偏微分_バイアス1 ***

```
[-0.26813943 -2.24245723  2.86725292 -0.6768052  3.35917972 -1.97774542
 2.91041204 -0.48464565 -0.62400358  3.93744899]
```

*** 偏微分_バイアス2 ***

7.724513236290118

順伝播開始

*** 総入力1 ***

```
[-173.88689016 -388.2150699  287.20658315 -309.94832074  365.08622442
 -425.27444473  377.72043261 -248.47435256 -261.96377528  387.55581023]
```

*** 中間層出力1 ***

```
[3.03307484e-076 2.51383837e-169 1.00000000e+000 2.46124376e-135
 1.00000000e+000 2.02141441e-185 1.00000000e+000 1.22732559e-108
 1.70050509e-114 1.00000000e+000]
```

*** 総入力2 ***

7.6859627985781955

*** 出力1 ***

7.6859627985781955

出力合計: 7.6859627985781955

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 2.48323507  6.9838386 -4.0425875  3.41481894 -4.73616326  6.38040844
 -4.10343824  2.97677702  3.29445374 -5.55147469]
 [ 2.18477463  6.14444984 -3.55670821  3.00439126 -4.16692298  5.61354605
 -3.6102453  2.61899768  2.89849278 -4.884242  ]]
```

*** 偏微分_重み2 ***

[-1.55877967e-075 -1.29192992e-168 -5.13927202e+000 -1.26490012e-134
-5.13927202e+000 -1.03885985e-184 -5.13927202e+000 -6.30756005e-108
-8.73935822e-114 -5.13927202e+000]

*** 偏微分_バイアス1 ***

[0.92156242 2.59179781 -1.50025939 1.26728591 -1.75765482 2.36785664
-1.52284193 1.10472257 1.22261674 -2.06022802]

*** 偏微分_バイアス2 ***

-5.139272016863735

順伝播開始

*** 総入力1 ***

[-213.58835584 -477.47911272 354.72471148 -380.64828731 450.98220273
-523.6175599 465.46760983 -304.58589343 -321.63432797 479.19109443]

*** 中間層出力1 ***

[1.73682340e-093 4.29987788e-208 1.00000000e+000 4.85902659e-166
1.00000000e+000 3.94260356e-228 1.00000000e+000 5.24840352e-133
2.07007543e-140 1.00000000e+000]

*** 総入力2 ***

9.484708004480504

*** 出力1 ***

9.484708004480504

出力合計: 9.484708004480504

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.90714036 10.98842309 -7.9017886 5.37290126 -8.99306581
10.03898163 -7.99753162 4.68368289 5.18351778 -10.27588283]
[3.04868302 8.57410173 -6.16564713 4.19239427 -7.01715437
7.83326679 -6.24035397 3.65460751 4.04462118 -8.01811725]]

*** 偏微分_重み2 ***

[-1.09361881e-092 -2.70748733e-207 -6.29666099e+000 -3.05956432e-165
-6.29666099e+000 -2.48252380e-227 -6.29666099e+000 -3.30474177e-132
-1.30345632e-139 -6.29666099e+000]

*** 偏微分_バイアス1 ***

[1.12910275 3.17548324 -2.28349391 1.55268484 -2.59885604 2.90110943
-2.31116216 1.35351145 1.49795596 -2.96957019]

*** 偏微分_バイアス2 ***

-6.296660989470009

順伝播開始

*** 総入力1 ***

[-243.80703023 -545.70555206 406.73424521 -433.96003079 516.87237797
-598.56903391 532.35202365 -346.86459674 -366.84201947 549.83597543]

*** 中間層出力1 ***

[1.30602690e-106 1.00714035e-237 1.00000000e+000 3.41627844e-189
1.00000000e+000 1.10859147e-260 1.00000000e+000 2.28359807e-151
4.81432289e-160 1.00000000e+000]

*** 総入力2 ***

11.688539350795008

*** 出力1 ***

11.688539350795008

出力合計: 11.688539350795008

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.6009421 12.93966784 -11.52845521 6.32698224 -12.81351353
11.82163143 -11.64119957 5.51537744 6.1039694 -14.32412393]
[3.21280478 9.03567699 -8.05023736 4.41808619 -8.94758435
8.2549602 -8.12896594 3.8513484 4.26235793 -10.00243272]]

*** 偏微分_重み2 ***

[-8.19998406e-106 -6.32340333e-237 -6.27857212e+000 -2.14493506e-188
-6.27857212e+000 -6.96037151e-260 -6.27857212e+000 -1.43377352e-150
-3.02270735e-159 -6.27857212e+000]

*** 偏微分_バイアス1 ***

[1.12585909 3.1663608 -2.82103444 1.54822433 -3.13549061 2.89277521
-2.8486232 1.34962312 1.49365267 -3.50513978]

*** 偏微分_バイアス2 ***

-6.278572124442807

順伝播開始

*** 総入力1 ***

[8.75263414 32.25440501 -24.1321296 18.58117232 -28.1331881
26.95335125 -27.92711018 17.14441678 13.70753124 -25.04122011]

*** 中間層出力1 ***

[9.99841981e-01 1.00000000e+00 3.30787644e-11 9.99999991e-01
6.05217741e-13 1.00000000e+00 7.43721185e-13 9.99999964e-01
9.99998886e-01 1.33271193e-11]

*** 総入力2 ***

-5.2194355480434975

*** 出力1 ***

-5.2194355480434975

出力合計: -5.2194355480434975

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.91660389 2.57766423 -4.42717739 1.26037515 -4.84106871 2.35494425
-4.46349007 1.09869832 1.2159502 -5.32760581]
[-1.51485484 -4.26005951 7.3167168 -2.08299945 8.00074758 -3.8919742
7.37673012 -1.81579905 -2.00957912 8.80483872]]

*** 偏微分_重み2 ***

[-4.80577807e+00 -4.80653760e+00 -1.58994325e-10 -4.80653756e+00
-2.90900183e-12 -4.80653760e+00 -3.57472384e-12 -4.80653743e+00
-4.80653224e+00 -6.40573001e-11]

*** 偏微分_バイアス1 ***

[0.67788664 1.90634597 -3.27417811 0.93212726 -3.58027697 1.74163045
-3.30103364 0.81255701 0.89927219 -3.94010196]

*** 偏微分_バイアス2 ***

-4.806537597436572

順伝播開始

*** 総入力1 ***

[94.9716982 206.8827636 -172.30494816 170.3980819 -221.73402026

240.06542751 -222.00518076 129.45786529 142.93704417 -240.27258243]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.47540690e-075 1.00000000e+000
5.03661262e-097 1.00000000e+000 3.84038746e-097 1.00000000e+000
1.00000000e+000 4.47654853e-105]

*** 総入力2 ***

-2.864400124115085

*** 出力1 ***

-2.864400124115085

出力合計: -2.864400124115085

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.42772562 6.30065912 -12.98770047 2.43622035 -14.20190449
5.64728112 -13.09422844 1.96192035 2.30589354 -15.6292243]
[-0.62052982 -2.73844415 5.64482092 -1.05885008 6.17254823
-2.45446765 5.69112098 -0.85270592 -1.00220637 6.79290168]]

*** 偏微分_重み2 ***

[5.10050295e+000 5.10050295e+000 7.52531724e-075 5.10050295e+000
2.56892575e-096 5.10050295e+000 1.95879076e-096 5.10050295e+000
5.10050295e+000 2.28326490e-104]

*** 偏微分_バイアス1 ***

[-0.38194027 -1.68553075 3.47442515 -0.65172933 3.79924485 -1.51074131
3.50292315 -0.52484621 -0.61686474 4.18107656]

*** 偏微分_バイアス2 ***

5.10050294914858

順伝播開始

*** 総入力1 ***

[158.23175176 364.57237782 -280.1323638 284.97936678 -354.51709957
397.21028746 -360.98907208 227.02662285 238.54759741 -374.43916383]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.18806490e-122 1.00000000e+000
1.08437605e-154 1.00000000e+000 1.67663284e-157 1.00000000e+000

1. 00000000e+000 2. 41622482e-163]

*** 総入力2 ***

-5. 36364656919789

*** 出力1 ***

-5. 36364656919789

出力合計: -5. 36364656919789

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2. 01078237 5. 5530793 -9. 4411901 2. 74389063 -10. 32383526
5. 07811717 -9. 51862882 2. 39910623 2. 64915175 -11. 36140136]
[2. 5246059 6. 97208061 -11. 85373643 3. 44504834 -12. 96192756
6. 37574944 -11. 95096338 3. 01215976 3. 32610045 -14. 26462721]]

*** 偏微分_重み2 ***

[6. 46008290e+000 6. 46008290e+000 1. 41350806e-121 6. 46008290e+000
7. 00515919e-154 6. 46008290e+000 1. 08311872e-156 6. 46008290e+000
6. 46008290e+000 1. 56090126e-162]

*** 偏微分_バイアス1 ***

[-0. 93723042 -2. 58830339 4. 40056103 -1. 27893391 4. 81196403 -2. 36692242
4. 4366554 -1. 11822909 -1. 2347759 5. 29557604]

*** 偏微分_バイアス2 ***

6. 460082902507452

順伝播開始

*** 総入力1 ***

[-218. 60415312 -495. 56405668 368. 3066786 -388. 27693734 465. 04927695
-536. 60359805 479. 13085022 -312. 93922068 -328. 5248996 492. 90121279]

*** 中間層出力1 ***

[1. 15192069e-095 6. 01540339e-216 1. 00000000e+000 2. 36302688e-169
1. 00000000e+000 9. 03687755e-234 1. 00000000e+000 1. 23658304e-136
2. 10595426e-143 1. 00000000e+000]

*** 総入力2 ***

13. 413256216570693

*** 出力1 ***

13.413256216570693

出力合計: 13.413256216570693

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.74457161  3.65012435 -3.14124987  2.13894184 -3.43492142  3.39462195
 -3.16701509  1.95346759  2.08797775 -3.7801379 ]
 [ 2.41778126  5.05866438 -4.35342121  2.96433432 -4.76041717  4.7045666
 -4.38912893  2.70728774  2.89370379 -5.23884862]]
```

*** 偏微分_重み2 ***

```
[-2.50145804e-095 -1.30627736e-215 -2.17155405e+000 -5.13144060e-169
 -2.17155405e+000 -1.96240681e-233 -2.17155405e+000 -2.68530692e-136
 -4.57319352e-143 -2.17155405e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.6460956  1.35180996 -1.16335019  0.79214915 -1.27211036  1.2571856
 -1.17289225  0.72345945  0.77327479 -1.39996   ]
```

*** 偏微分_バイアス2 ***

-2.1715540524098227

順伝播開始

*** 総入力1 ***

```
[ 62.75016232 140.90152843 -119.30826415 113.37003619 -152.19765342
 160.70964849 -151.72561453  86.72260351  94.57046897 -163.58614874]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.53136682e-52 1.00000000e+00
 7.96891072e-67 1.00000000e+00 1.27762337e-66 1.00000000e+00
 1.00000000e+00 9.02481453e-72]
```

*** 総入力2 ***

-8.377078407757853

*** 出力1 ***

-8.377078407757853

出力合計: -8.377078407757853

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.5457779  -3.23419315  4.75113816 -1.89520969  5.17184585 -3.00780521
  4.78804887 -1.73087021 -1.85005296  5.6663957 ]
 [ 0.38097636  0.79710748 -1.17097761  0.46709821 -1.27466629  0.74131133
 -1.18007471  0.42659468  0.45596876 -1.39655431]]
```

*** 偏微分_重み2 ***

```
[-3.19775852e+00 -3.19775852e+00 -4.89694129e-52 -3.19775852e+00
 -2.54826521e-66 -3.19775852e+00 -4.08553102e-66 -3.19775852e+00
 -3.19775852e+00 -2.88591776e-71]
```

*** 偏微分_バイアス1 ***

```
[ 0.74824129  1.56552688 -2.29981146  0.91738544 -2.50345706  1.4559427
 -2.31767828  0.83783612  0.89552711 -2.74284632]
```

*** 偏微分_バイアス2 ***

-3.1977585194183407

順伝播開始

*** 総入力1 ***

```
[ 156.36023612  345.8459818  -282.55088139  279.72303434 -360.81804732
 393.10379587 -363.38606435  216.04081239  235.31149821 -388.96419518]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.94854911e-123 1.00000000e+000
 1.98935861e-157 1.00000000e+000 1.52558866e-158 1.00000000e+000
 1.00000000e+000 1.18849230e-169]
```

*** 総入力2 ***

-6.810176733242866

*** 出力1 ***

-6.810176733242866

出力合計: -6.810176733242866

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 5.41408745 12.6977139 -20.49585579  6.92149544 -22.31073969
   11.72110273 -20.65508431  6.21255409  6.72669454 -24.44417006]
 [ -1.32025326 -3.09640329  4.99802058 -1.68784251  5.44058942
```

-2.8582516 5.03684928 -1.51496349 -1.6403393 5.96083746]]

*** 偏微分_重み2 ***

[5.71580515e+000 5.71580515e+000 1.11375270e-122 5.71580515e+000
1.13707862e-156 5.71580515e+000 8.71996752e-158 5.71580515e+000
5.71580515e+000 6.79319044e-169]

*** 偏微分_バイアス1 ***

[-1.0858834 -2.54673329 4.11077764 -1.38821862 4.47478216 -2.35085802
4.14271351 -1.24602889 -1.34914813 4.90267636]

*** 偏微分_バイアス2 ***

5.7158051489822785

順伝播開始

*** 総入力1 ***

[133.58264096 309.23386676 -240.73164944 240.20398339 -303.5331208
335.78625725 -308.1991627 191.57844424 201.06963631 -320.44869262]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.82860970e-105 1.00000000e+000
1.50397480e-132 1.00000000e+000 1.41515598e-134 1.00000000e+000
1.00000000e+000 6.77487147e-140]

*** 総入力2 ***

-9.610921256244183

*** 出力1 ***

-9.610921256244183

出力合計: -9.610921256244183

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.11967106 0.2335226 -0.32037404 0.14323359 -0.34874278 0.21825703
-0.32286296 0.13215202 0.14018863 -0.38209078]
[0.16948624 0.3307305 -0.45373538 0.2028571 -0.49391311 0.30911037
-0.45726037 0.18716263 0.19854462 -0.5411428]]

*** 偏微分_重み2 ***

[2.63131402e-001 2.63131402e-001 7.44296036e-106 2.63131402e-001
3.95742998e-133 2.63131402e-001 3.72371978e-135 2.63131402e-001

2. 63131402e-001 1. 78268143e-140]

*** 偏微分_バイアス1 ***

[-0.07068887 -0.1379402 0.18924275 -0.0846071 0.20599997 -0.12892293
0.19071294 -0.07806129 -0.08280846 0.2256984]

*** 偏微分_バイアス2 ***

0.2631314018129167

順伝播開始

*** 総入力1 ***

[110.74468461 252.13914881 -203.31948197 198.8003787 -257.3679788
279.32934947 -259.54277566 156.08317935 166.57636089 -274.21649612]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 5.00577028e-089 1.00000000e+000
1.68463953e-112 1.00000000e+000 1.91427670e-113 1.00000000e+000
1.00000000e+000 8.11500683e-120]

*** 総入力2 ***

-9.739855643132513

*** 出力1 ***

-9.739855643132513

出力合計: -9.739855643132513

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.79578284 -1.54279732 2.10207116 -0.9503838 2.28820708 -1.44263531
2.11840176 -0.87767421 -0.93040486 2.50701339]
[-0.23699174 -0.45945979 0.62601688 -0.28303338 0.68144994 -0.42963058
0.63088029 -0.26137977 -0.27708346 0.74661255]]

*** 偏微分_重み2 ***

[-1.23580080e+000 -1.23580080e+000 -6.18613491e-089 -1.23580080e+000
-2.08187888e-112 -1.23580080e+000 -2.36566468e-113 -1.23580080e+000
-1.23580080e+000 -1.00285319e-119]

*** 偏微分_バイアス1 ***

[0.33646679 0.65231371 -0.88878157 0.40183397 -0.96748213 0.60996398
-0.89568635 0.37109147 0.39338663 -1.05999613]

*** 偏微分_バイアス2 ***

-1.2358007982432273

順伝播開始

*** 総入力1 ***

[83.10766656 178.18889785 -159.93649271 148.17095238 -205.04667396
211.28547775 -202.97602828 110.394911 124.75739618 -224.6454421]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 3.47107311e-70 1.00000000e+00
8.89940489e-90 1.00000000e+00 7.05717615e-89 1.00000000e+00
1.00000000e+00 2.73983313e-98]

*** 総入力2 ***

-9.13431325199333

*** 出力1 ***

-9.13431325199333

出力合計: -9.13431325199333

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.10597296 -4.21460829 5.93362192 -2.54237285 6.45903715 -3.93187594
5.97971913 -2.33713185 -2.48597731 7.07667271]
[1.34499782 2.69169598 -3.78955887 1.62370837 -4.12511985 2.51112652
-3.81899926 1.49262944 1.58769087 -4.51957813]]

*** 偏微分_重み2 ***

[-1.98914308e+00 -1.98914308e+00 -6.90446107e-70 -1.98914308e+00
-1.77021897e-89 -1.98914308e+00 -1.40377331e-88 -1.98914308e+00
-1.98914308e+00 -5.44992012e-98]

*** 偏微分_バイアス1 ***

[0.50774484 1.01613156 -1.43058147 0.61295976 -1.55725777 0.9479655
-1.44169539 0.56347667 0.59936294 -1.70616816]

*** 偏微分_バイアス2 ***

-1.9891430829828654

順伝播開始

*** 総入力1 ***

[98.49891211 224.75650725 -181.44789944 177.29749829 -229.9052351
249.28927287 -231.68517068 138.96299272 148.33787871 -244.85223468]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.57825989e-079 1.00000000e+000
1.42372147e-100 1.00000000e+000 2.40109219e-101 1.00000000e+000
1.00000000e+000 4.59225079e-107]

*** 総入力2 ***

-8.159633141331726

*** 出力1 ***

-8.159633141331726

出力合計: -8.159633141331726

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.2575632 -0.5464331 0.81286924 -0.31734727 0.88484785 -0.50770053
0.81918427 -0.28923053 -0.30962143 0.96946008]
[-0.07514254 -0.15941863 0.2371498 -0.09258419 0.25814914 -0.14811863
0.23899217 -0.0843813 -0.09033022 0.28283425]]

*** 偏微分_重み2 ***

[-5.30919640e-001 -5.30919640e-001 -8.37929170e-080 -5.30919640e-001
-7.55881688e-101 -5.30919640e-001 -1.27478700e-101 -5.30919640e-001
-5.30919640e-001 -2.43811613e-107]

*** 偏微分_バイアス1 ***

[0.12098694 0.25667979 -0.38183467 0.14906972 -0.41564568 0.23848567
-0.38480107 0.13586225 0.14544061 -0.45539117]

*** 偏微分_バイアス2 ***

-0.530919639643523

順伝播開始

*** 総入力1 ***

[72.35215092 158.46469145 -138.54175733 130.02543821 -177.41604347
184.9643836 -176.20066291 97.87598311 108.96604281 -192.81975733]

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 6.79327630e-61 1.00000000e+00
8.89592925e-78 1.00000000e+00 2.99933095e-77 1.00000000e+00
1.00000000e+00 1.81737014e-84]
```

*** 総入力2 ***

-7.8994825179064

*** 出力1 ***

-7.8994825179064

出力合計: -7.8994825179064

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.19727052 -2.58455151 3.90375749 -1.48438003 4.24943061 -2.39854059
3.93408506 -1.34935102 -1.44727714 4.65577592]
[ 0.61157415 1.32020698 -1.99406662 0.7582317 -2.17063887 1.2251913
-2.00955815 0.68925794 0.73927928 -2.37820289]]
```

*** 偏微分_重み2 ***

```
[-1.74477749e+00 -1.74477749e+00 -1.18527556e-60 -1.74477749e+00
-1.55214171e-77 -1.74477749e+00 -5.23316513e-77 -1.74477749e+00
-1.74477749e+00 -3.17090652e-84]
```

*** 偏微分_バイアス1 ***

```
[ 0.38485406 0.83078564 -1.25483499 0.47714337 -1.36594915 0.77099376
-1.26458357 0.43373926 0.46521691 -1.49656595]
```

*** 偏微分_バイアス2 ***

-1.7447774925081303

順伝播開始

*** 総入力1 ***

```
[-56.13291316 -118.08417725 89.97759447 -97.37251885 115.06978041
-134.2480978 118.80945824 -76.55737891 -83.94866265 125.91807976]
```

*** 中間層出力1 ***

```
[4.18586833e-25 5.20826914e-52 1.00000000e+00 5.14816403e-43
1.00000000e+00 4.97498663e-59 1.00000000e+00 5.64355535e-34
3.47983818e-37 1.00000000e+00]
```

*** 総入力2 ***

14. 363662543654193

*** 出力1 ***

14. 363662543654193

出力合計: 14. 363662543654193

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-4.82321871 -11.09464109 10.91501089 -6.12114252 11.88152226
 -10.25374937 10.9998076 -5.5107226 -5.95341306 13.01767466]
 [ 1.91691325 4.40939252 -4.33800129 2.43275288 -4.7221262
 4.07519319 -4.37170243 2.19015098 2.36609142 -5.1736723 ]]
```

*** 偏微分_重み2 ***

```
[4.26369048e-24 5.30509939e-51 1.01859164e+01 5.24387684e-42
 1.01859164e+01 5.06747978e-58 1.01859164e+01 5.74847829e-33
 3.54453408e-36 1.01859164e+01]
```

*** 偏微分_バイアス1 ***

```
[-2.54582955 -5.85606146 5.76124762 -3.23090999 6.27139931 -5.41221532
 5.80600569 -2.90871331 -3.1423777 6.87109229]
```

*** 偏微分_バイアス2 ***

10.185916390291874

順伝播開始

*** 総入力1 ***

```
[-128.05204205 -293.05521925 210.98203667 -226.53291445 264.90920812
 -311.53610646 274.99001204 -185.39300768 -192.08912111 278.80675742]
```

*** 中間層出力1 ***

```
[2.44176993e-056 5.34238753e-128 1.00000000e+000 4.14959092e-099
 1.00000000e+000 5.03023242e-136 1.00000000e+000 3.05379431e-081
 3.77358961e-084 1.00000000e+000]
```

*** 総入力2 ***

10.79859180705204

*** 出力1 ***

10.79859180705204

出力合計: 10.79859180705204

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.34941227 -0.80373791 0.59474247 -0.4434388 0.66476022 -0.74282052
 0.60088547 -0.39921766 -0.43128784 0.74706741]
 [-1.77773791 -4.08925351 3.02592761 -2.25612558 3.38216355 -3.77931834
 3.0571819 -2.03113751 -2.19430399 3.80092565]]
```

*** 偏微分_重み2 ***

```
[5.18434989e-056 1.13429221e-127 2.12319343e+000 8.81038420e-099
 2.12319343e+000 1.06801565e-135 2.12319343e+000 6.48379602e-081
 8.01206069e-084 2.12319343e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.53066296 -1.22066103 0.90325335 -0.67346389 1.00959142 -1.12814396
 0.9125829 -0.60630392 -0.65500986 1.13459384]
```

*** 偏微分_バイアス2 ***

2.123193433651812

順伝播開始

*** 総入力1 ***

```
[-149.90062643 -332.8084017 251.56113794 -265.27435267 319.23093701
 -366.84206436 328.31670849 -211.44091706 -225.22991056 341.61886994]
```

*** 中間層出力1 ***

```
[7.92474157e-066 2.90500985e-145 1.00000000e+000 6.20600965e-116
 1.00000000e+000 4.81410679e-160 1.00000000e+000 1.48722430e-092
 1.52718863e-098 1.00000000e+000]
```

*** 総入力2 ***

10.055474105273905

*** 出力1 ***

10.055474105273905

出力合計: 10.055474105273905

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.70437281 1.62023828 -1.11657741 0.8939189 -1.25772471 1.4974362
```

```
-1.12896094 0.80477445 0.86942404 -1.42364605]
[ 0.24225527 0.55724931 -0.38402499 0.30744595 -0.43256985 0.51501394
-0.38828407 0.27678646 0.29902142 -0.48963526]]
```

*** 偏微分_重み2 ***

```
[-7.48736750e-066 -2.74467958e-145 -9.44809043e-001 -5.86349404e-116
-9.44809043e-001 -4.54841163e-160 -9.44809043e-001 -1.40514297e-092
-1.44290163e-098 -9.44809043e-001]
```

*** 偏微分_バイアス1 ***

```
[ 0.23614201 0.54318724 -0.3743342 0.29968761 -0.42165404 0.50201767
-0.3784858 0.26980181 0.29147568 -0.47727941]
```

*** 偏微分_バイアス2 ***

```
-0.9448090433067016
```

順伝播開始

*** 総入力1 ***

```
[ 83.85953166 194.36735283 -154.69905471 151.68591566 -195.56639845
212.9958245 -197.42808822 119.80818728 126.47024235 -206.83004432]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 6.53212047e-68 1.00000000e+00
1.16571480e-85 1.00000000e+00 1.81163504e-86 1.00000000e+00
1.00000000e+00 1.49572950e-90]
```

*** 総入力2 ***

```
-7.840042601222006
```

*** 出力1 ***

```
-7.840042601222006
```

出力合計: -7.840042601222006

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.37806469 -0.86964582 1.00077675 -0.47980155 1.12326555 -0.8037331
1.01152328 -0.43195421 -0.46665419 1.26725346]
[-0.33475376 -0.77001958 0.88612821 -0.4248357 0.99458474 -0.71165779
0.89564362 -0.38246972 -0.41319449 1.12207746]]
```

*** 偏微分_重み2 ***

```
[-1.43198809e+00 -1.43198809e+00 -9.35391874e-68 -1.43198809e+00  
-1.66928971e-85 -1.43198809e+00 -2.59423981e-86 -1.43198809e+00  
-1.43198809e+00 -2.14186684e-90]
```

*** 偏微分_バイアス1 ***

```
[ 0.28147413  0.64746275 -0.74509146  0.35721857 -0.83628598  0.59838987  
-0.75309239  0.32159559  0.34743019 -0.94348687]
```

*** 偏微分_バイアス2 ***

-1.4319880938971874

順伝播開始

*** 総入力1 ***

```
[ 187.03566591  419.31584471 -335.96667365  335.34937596 -427.55553059  
 469.69905026 -432.5400855  261.91510102  281.8237544 -458.03521628]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.23460358e-146 1.00000000e+000  
 2.06534380e-186 1.00000000e+000 1.41327822e-188 1.00000000e+000  
 1.00000000e+000 1.19628058e-199]
```

*** 総入力2 ***

-7.138368435212383

*** 出力1 ***

-7.138368435212383

出力合計: -7.138368435212383

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 6.37418737 15.58587457 -18.75345023  8.28062381 -21.04875503  
 14.35074305 -18.95482839  7.38401743  8.03425685 -23.74692927]  
 [ 0.13629444  0.33326101 -0.40099089  0.17705834 -0.45006966  
 0.30685112 -0.40529681  0.15788688  0.17179046 -0.50776269]]
```

*** 偏微分_重み2 ***

```
[7.49458230e+000 7.49458230e+000 9.25283811e-146 7.49458230e+000  
 1.54788891e-185 7.49458230e+000 1.05919299e-187 7.49458230e+000  
 7.49458230e+000 8.96562324e-199]
```

*** 偏微分_バイアス1 ***

[-1.32544361 -3.24091474 3.89957798 -1.72186653 4.37686189 -2.98408244
3.9414524 -1.53542689 -1.67063717 4.93791816]

*** 偏微分_バイアス2 ***

7.494582304183973

順伝播開始

*** 総入力1 ***

[107.2788186 257.74711653 -192.39614719 194.07571246 -240.2991549
270.09599818 -245.68149672 158.65639056 161.59502721 -248.89846355]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.77597108e-084 1.00000000e+000
4.35916211e-105 1.00000000e+000 2.00392594e-107 1.00000000e+000
1.00000000e+000 8.03102035e-109]

*** 総入力2 ***

-10.81071376426253

*** 出力1 ***

-10.81071376426253

出力合計: -10.81071376426253

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.32993578 0.63109707 -0.61311387 0.39226365 -0.68815517 0.59071643
-0.61969761 0.36295055 0.38420908 -0.77636763]
[-4.01298822 -7.67599409 7.45726563 -4.77107821 8.36998822 -7.18484693
7.53734319 -4.41454478 -4.67311096 9.4429109]]

*** 偏微分_重み2 ***

[-3.38329562e+000 -3.38329562e+000 -9.39193080e-084 -3.38329562e+000
-1.47483341e-104 -3.38329562e+000 -6.77987386e-107 -3.38329562e+000
-3.38329562e+000 -2.71713160e-108]

*** 偏微分_バイアス1 ***

[0.94732368 1.81202899 -1.76039499 1.12628175 -1.9758563 1.69608663
-1.77929845 1.04211689 1.10315517 -2.22913516]

*** 偏微分_バイアス2 ***

-3.3832956228458775

順伝播開始

*** 総入力1 ***

[239.82144123 546.89706136 -427.80323303 429.39884338 -540.98102504
599.91500167 -549.66898105 340.64994453 360.90264976 -575.02136753]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.61219124e-186 1.00000000e+000
1.13481746e-235 1.00000000e+000 1.91335103e-239 1.00000000e+000
1.00000000e+000 1.86806982e-250]

*** 総入力2 ***

-9.15289890906805

*** 出力1 ***

-9.15289890906805

出力合計: -9.15289890906805

誤差逆伝播開始

*** 偏微分_重み1 ***

[[8.53870967 17.88741799 -19.03240227 10.47350378 -21.36184905
16.63391426 -19.23677587 9.56356065 10.22347219 -24.10015784]
[5.53681736 11.59886801 -12.34131846 6.79140992 -13.85181851
10.78604951 -12.47384192 6.2013689 6.62928013 -15.62743992]]

*** 偏微分_重み2 ***

[8.76956954e+000 8.76956954e+000 1.41382231e-185 8.76956954e+000
9.95186063e-235 8.76956954e+000 1.67792649e-238 8.76956954e+000
8.76956954e+000 1.63821682e-249]

*** 偏微分_バイアス1 ***

[-2.04713786 -4.28847121 4.56297881 -2.51100072 5.12145882 -3.9879463
4.61197696 -2.29284375 -2.45105617 5.77796265]

*** 偏微分_バイアス2 ***

8.76956953560186

順伝播開始

*** 総入力1 ***

[-101.7946022 -234.89243421 165.41089409 -179.89223769 206.89831475
-246.47806556 215.98565023 -148.7778832 -152.65326062 216.4916682]

*** 中間層出力1 ***

[6.18252634e-045 9.71654762e-103 1.00000000e+000 7.47814417e-079
1.00000000e+000 9.03516766e-108 1.00000000e+000 2.43548970e-065
5.05279023e-067 1.00000000e+000]

*** 総入力2 ***

9.584736501818258

*** 出力1 ***

9.584736501818258

出力合計: 9.584736501818258

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.02364961 0.04071784 -0.02149168 0.02718202 -0.02412212 0.03842928
-0.02172246 0.02552071 0.02672553 -0.02721426]
[-4.41197681 -7.59615864 4.00940186 -5.07097013 4.50012752 -7.16921369
4.05245559 -4.76104235 -4.98580905 5.07698483]]

*** 偏微分_重み2 ***

[1.80158934e-044 2.83140381e-102 2.91400189e+000 2.17913262e-078
2.91400189e+000 2.63284956e-107 2.91400189e+000 7.09702157e-065
1.47238402e-066 2.91400189e+000]

*** 偏微分_バイアス1 ***

[-1.31215006 -2.25914605 1.1924217 -1.50813887 1.33836664 -2.1321699
1.20522615 -1.41596437 -1.48281143 1.50992768]

*** 偏微分_バイアス2 ***

2.914001885719924

順伝播開始

*** 総入力1 ***

[170.17678595 383.85910131 -309.58022876 303.15320031 -391.76605601
425.94032045 -395.09433207 238.18097855 255.22508356 -419.34424618]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.55643556e-135 1.00000000e+000
7.21379299e-171 1.00000000e+000 2.58649565e-172 1.00000000e+000
1.00000000e+000 7.60515142e-183]

*** 総入力2 ***

-13.653968113513356

*** 出力1 ***

-13.653968113513356

出力合計: -13.653968113513356

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.0714496 -1.84472889 1.41997756 -1.23148628 1.61265798 -1.74104521
1.43688235 -1.15622024 -1.21080489 1.83915745]
[-0.16050105 -0.27633678 0.21270986 -0.18447423 0.24157301 -0.26080517
0.21524216 -0.17319953 -0.1813762 0.27550219]]

*** 偏微分_重み2 ***

[-7.75163720e-001 -7.75163720e-001 -2.75681982e-135 -7.75163720e-001
-5.59187061e-171 -7.75163720e-001 -2.00495759e-172 -7.75163720e-001
-7.75163720e-001 -5.89523747e-183]

*** 偏微分_バイアス1 ***

[0.27450925 0.47262619 -0.36380337 0.31551122 -0.41316878 0.44606206
-0.36813443 0.29622779 0.31021257 -0.47119876]

*** 偏微分_バイアス2 ***

-0.7751637201202293

順伝播開始

*** 総入力1 ***

[-10.49029139 -8.58567152 12.43424165 -14.62515109 18.17786259
-20.46253751 17.93124743 -8.13475875 -14.77905951 26.15586251]

*** 中間層出力1 ***

[2.78043188e-05 1.86727865e-04 9.99996020e-01 4.45017808e-07
9.99999987e-01 1.29787502e-09 9.99999984e-01 2.93083832e-04
3.81536282e-07 1.00000000e+00]

*** 総入力2 ***

8.617916861336859

*** 出力1 ***

8. 617916861336859

出力合計: 8. 617916861336859

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-7.34648159 -12.81322377  6.20889377 -8.47787006  7.05138163
 -12.08022616  6.28279892 -7.94577236 -8.33166181  8.04175538]
 [ 9.25970481 16.15013506 -7.82585825 10.68573756 -8.88775281
 15.22624498 -7.91901031 10.01506717 10.50145271 -10.13604678]]
```

*** 偏微分_重み2 ***

```
[2.09934271e-04 1.40987371e-03 7.55038945e+00 3.36007114e-06
 7.55041940e+00 9.79950084e-09 7.55041938e+00 2.21290588e-03
 2.88075898e-06 7.55041950e+00]
```

*** 偏微分_バイアス1 ***

```
[-3.29746495 -5.75120971  2.78685917 -3.80528815  3.16500946 -5.42220406
 2.82003146 -3.56645634 -3.73966264  3.60953828]
```

*** 偏微分_バイアス2 ***

7.55041950040885

順伝播開始

*** 総入力1 ***

```
[-107.81871921 -239.1944258  180.86923943 -189.87466578 228.82796301
 -262.55825611 235.5779282 -151.9630647 -161.75329248 245.24808436]
```

*** 中間層出力1 ***

```
[1.49597798e-047 1.31577241e-104 1.00000000e+000 3.45525735e-083
 1.00000000e+000 9.38422030e-115 1.00000000e+000 1.00758002e-066
 5.64205928e-071 1.00000000e+000]
```

*** 総入力2 ***

5.976452595955522

*** 出力1 ***

5.976452595955522

出力合計: 5.976452595955522

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.58910012  2.77166472 -0.9649095   1.83381288 -1.14714549  2.61302327
 -0.98089657  1.71885778  1.80218715 -1.3613691 ]
 [ 0.61565975  1.0738168  -0.37383166  0.710468  -0.44443474  1.01235488
 -0.38002548  0.66593133  0.69821535 -0.52743068]]
```

*** 偏微分_重み2 ***

```
[-2.65166734e-047 -2.33224738e-104 -1.77253100e+000 -6.12455077e-083
 -1.77253100e+000 -1.66338214e-114 -1.77253100e+000 -1.78596683e-066
 -1.00007250e-070 -1.77253100e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.77411699  1.35019356 -0.47004769  0.89332679 -0.55882244  1.27291269
 -0.47783566  0.83732736  0.87792058 -0.66317971]
```

*** 偏微分_バイアス2 ***

-1.77253100130158

順伝播開始

*** 総入力1 ***

```
[ 54.03790214 137.27439488 -97.1854571   98.17091046 -119.51111009
 136.52555003 -122.43349878  83.01853688  80.89743387 -119.93722623]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 6.20715029e-43 1.00000000e+00
 1.25021401e-52 1.00000000e+00 6.72677777e-54 1.00000000e+00
 1.00000000e+00 8.16440377e-53]
```

*** 総入力2 ***

-13.678858813106348

*** 出力1 ***

-13.678858813106348

出力合計: -13.678858813106348

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 5.27968086  9.20867414 -5.66008592  6.09272295 -6.6390141
  8.68159833 -5.74596467  5.71079217  5.98764855 -7.78977216]
 [-13.81615047 -24.09774965 14.81161472 -15.94376238 17.37332621
 -22.71846957 15.03634681 -14.94430556 -15.66879808 20.38469128]]
```

*** 偏微分_重み2 ***

[-1.03667055e+01 -1.03667055e+01 -6.43476992e-42 -1.03667055e+01
-1.29606005e-51 -1.03667055e+01 -6.97345244e-53 -1.03667055e+01
-1.03667055e+01 -8.46379698e-52]

*** 偏微分_バイアス1 ***

[3.56060163 6.21030344 -3.81714572 4.10891489 -4.47733208 5.85484503
-3.8750621 3.85134187 4.03805301 -5.25340001]

*** 偏微分_バイアス2 ***

-10.366705536515482

順伝播開始

*** 総入力1 ***

[40.93863524 78.710231 -87.02224205 70.8815017 -113.40493751
104.88834229 -107.42918445 47.82692773 60.282208 -129.70272866]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.60960930e-38 1.00000000e+00
5.60868975e-50 1.00000000e+00 2.20850301e-47 1.00000000e+00
1.00000000e+00 4.68619821e-57]

*** 総入力2 ***

-8.599173100213763

*** 出力1 ***

-8.599173100213763

出力合計: -8.599173100213763

誤差逆伝播開始

*** 偏微分_重み1 ***

[-3.68395962 -8.37349 6.75571143 -4.65438266 7.9241312 -7.74438788
6.85821376 -4.19852136 -4.52896895 9.29764204]
[3.67901795 8.36225778 -6.7466493 4.64813926 -7.91350176 7.73399954
-6.84901415 4.19288946 4.52289379 -9.28517017]]

*** 偏微分_重み2 ***

[-4.59938983e+00 -4.59938983e+00 -7.40322066e-38 -4.59938983e+00
-2.57965506e-49 -4.59938983e+00 -1.01577663e-46 -4.59938983e+00
-4.59938983e+00 -2.15536524e-56]

*** 偏微分_バイアス1 ***

[0.92351078 2.09910234 -1.69355068 1.16678058 -1.98645515 1.94139632
-1.7192464 1.05250332 1.13534134 -2.33077273]

*** 偏微分_バイアス2 ***

-4.59938983031453

順伝播開始

*** 総入力1 ***

[-151.19391761 -346.46484201 253.7013858 -268.3631894 318.77931808
-370.25183795 329.84135485 -218.46079722 -227.28991055 336.26522498]

*** 中間層出力1 ***

[2.17428207e-066 3.40589253e-151 1.00000000e+000 2.82714249e-117
1.00000000e+000 1.59099884e-161 1.00000000e+000 1.32947830e-095
1.94646256e-099 1.00000000e+000]

*** 総入力2 ***

7.644465122089176

*** 出力1 ***

7.644465122089176

出力合計: 7.644465122089176

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.5403998 1.54502214 -0.89512626 0.74829027 -1.04994093 1.4102517
-0.90870773 0.65063263 0.72142331 -1.23192999]
[1.74412349 4.98651071 -2.88899204 2.41508347 -3.38865155 4.55154334
-2.93282584 2.09989651 2.32837121 -3.97601558]]

*** 偏微分_重み2 ***

[-6.08501547e-066 -9.53183995e-151 -2.79863204e+000 -7.91213154e-117
-2.79863204e+000 -4.45262032e-161 -2.79863204e+000 -3.72072057e-095
-5.44743249e-099 -2.79863204e+000]

*** 偏微分_バイアス1 ***

[0.48926543 1.39882715 -0.81042652 0.67748462 -0.95059212 1.27680913
-0.82272287 0.58906767 0.65315991 -1.11536079]

*** 偏微分_バイアス2 ***

-2.7986320385239623

順伝播開始

*** 総入力1 ***

[-159.04171575 -357.42303725 269.57952751 -281.05303896 340.32084411
-389.3884555 349.7841908 -225.64498817 -238.64534887 362.90094656]

*** 中間層出力1 ***

[8.49298698e-070 5.93126349e-156 1.00000000e+000 8.71396995e-123
1.00000000e+000 7.77575307e-170 1.00000000e+000 1.00838591e-098
2.27846234e-104 1.00000000e+000]

*** 総入力2 ***

8.623986335572564

*** 出力1 ***

8.623986335572564

出力合計: 8.623986335572564

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.19359899 3.41254171 -2.24006947 1.65277357 -2.58201377 3.11486978
-2.27006733 1.43707391 1.59343163 -2.98397906]
[0.90732906 2.59408587 -1.70281656 1.25637631 -1.96274976 2.36780686
-1.72561981 1.09240954 1.2112668 -2.26830866]]

*** 偏微分_重み2 ***

[-2.31049904e-069 -1.61358762e-155 -2.72047873e+000 -2.37061699e-122
-2.72047873e+000 -2.11537708e-169 -2.72047873e+000 -2.74329241e-098
-6.19850834e-104 -2.72047873e+000]

*** 偏微分_バイアス1 ***

[0.47560242 1.35976415 -0.8925799 0.6585655 -1.02883131 1.24115355
-0.90453287 0.57261764 0.63492006 -1.18899873]

*** 偏微分_バイアス2 ***

-2.7204787303281854

順伝播開始

*** 総入力1 ***

```
[ 67.71230951 144.06352231 -132.48015209 120.43425315 -170.12782173
172.32647079 -167.30136334 89.01923986 101.35987783 -187.14651774]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 2.91474780e-58 1.00000000e+00
1.301444495e-74 1.00000000e+00 2.19756174e-73 1.00000000e+00
1.00000000e+00 5.28810463e-82]
```

*** 総入力2 ***

-5.959134329539992

*** 出力1 ***

-5.959134329539992

出力合計: -5.959134329539992

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.0360211 -0.10298559 0.12177305 -0.04987833 0.13845759 -0.09400228
0.12323674 -0.04336882 -0.04808747 0.15807074]
[ 0.02475104 0.0707641 -0.08367345 0.0342727 -0.09513783 0.06459143
-0.08467919 0.02979985 0.03304216 -0.10861454]]
```

*** 偏微分_重み2 ***

```
[-7.23541908e-02 -7.23541908e-02 -2.10894219e-59 -7.23541908e-02
-9.41649964e-76 -7.23541908e-02 -1.59002802e-74 -7.23541908e-02
-7.23541908e-02 -3.82616531e-83]
```

*** 偏微分_バイアス1 ***

```
[ 0.00994792 0.02844145 -0.03362997 0.01377486 -0.03823773 0.02596054
-0.0340342 0.01197713 0.01328028 -0.04365428]
```

*** 偏微分_バイアス2 ***

-0.07235419077518479

順伝播開始

*** 総入力1 ***

```
[-195.10591909 -445.89345682 331.03656189 -346.00837667 416.41570083
-479.24875611 428.91743232 -280.14234267 -293.0630598 440.79787598]
```

*** 中間層出力1 ***

```
[1.84746387e-085 2.24353159e-194 1.00000000e+000 5.37614928e-151
```


1. 00000000e+000 7. 32672285e-209 1. 00000000e+000 2. 16633907e-122
5. 30066406e-128 1. 00000000e+000]

*** 総入力2 ***

9. 58121868454169

*** 出力1 ***

9. 58121868454169

出力合計: 9. 58121868454169

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1. 37453034 3. 94847324 -2. 89497769 1. 90716651 -3. 29162835 3. 60317792
-2. 92977479 1. 65695788 1. 83833068 -3. 75790255]
[2. 71432743 7. 79717182 -5. 71680168 3. 76614049 -6. 50007997 7. 11530649
-5. 78551659 3. 2720458 3. 63020826 -7. 42084599]]

*** 偏微分_重み2 ***

[-7. 46463374e-085 -9. 06493591e-194 -4. 04047617e+000 -2. 17222030e-150
-4. 04047617e+000 -2. 96034491e-208 -4. 04047617e+000 -8. 75304137e-122
-2. 14172068e-127 -4. 04047617e+000]

*** 偏微分_バイアス1 ***

[0. 70125238 2. 01441624 -1. 47694811 0. 97299056 -1. 67930975 1. 83825486
-1. 49470075 0. 84534013 0. 93787217 -1. 91719165]

*** 偏微分_バイアス2 ***

-4. 040476171463233

順伝播開始

*** 総入力1 ***

[-6. 09240546 8. 90983632 6. 57692589 -6. 21686438 12. 58725485 -8. 91086502
10. 7390869 1. 47055345 -8. 0106038 23. 44792205]

*** 中間層出力1 ***

[2. 25487017e-03 9. 99864964e-01 9. 98609813e-01 1. 99151846e-03
9. 99996585e-01 1. 34896880e-04 9. 99978320e-01 8. 13141493e-01
3. 31814106e-04 1. 00000000e+00]

*** 総入力2 ***

8. 313852786446908

*** 出力1 ***

8. 313852786446908

出力合計: 8. 313852786446908

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -4.18312807 -9.45090822 10.15715292 -5.80410904 11.35778578
  -10.96561734 10.25663503 -4.29303889 -5.5946253 12.77678865]
 [ 5.54842023 12.53550203 -13.47225135 7.69845807 -15.06474758
  14.54458294 -13.6042025 5.69420383 7.42060288 -16.94688556]]
```

*** 偏微分_重み2 ***

```
[1.61043187e-02 7.14105149e+00 7.13208718e+00 1.42234565e-02
 7.14199152e+00 9.63435662e-04 7.14186107e+00 5.80746948e+00
 2.36982163e-03 7.14201591e+00]
```

*** 偏微分_バイアス1 ***

```
[-1.23954431 -2.80049269 3.00976708 -1.71987332 3.36553855 -3.24933122
 3.03924562 -1.27211309 -1.65779911 3.78601742]
```

*** 偏微分_バイアス2 ***

7.142015912679515

順伝播開始

*** 総入力1 ***

```
[ 1.79162388 -7.66865782 -15.61975832 3.95636648 -23.91109658
 8.32976013 -18.60253276 -4.49364394 2.69709314 -31.91319629]
```

*** 中間層出力1 ***

```
[8.57126253e-01 4.67026314e-04 1.64598199e-07 9.81226674e-01
 4.12612801e-11 9.99758828e-01 8.33724699e-09 1.10562241e-02
 9.36854899e-01 1.38125846e-14]
```

*** 総入力2 ***

-3.1504202803568857

*** 出力1 ***

-3.1504202803568857

出力合計: -3.1504202803568857

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.75057505 -3.2176601  2.11934743 -0.98677174  2.44708537 -1.84668189
  2.14729481 -1.60405883 -0.96933135  2.83339992]
 [ 0.94859584  4.06656067 -2.67848518  1.24710722 -3.09268872  2.33388354
 -2.71380579  2.02725035  1.22506561 -3.58092288]]
```

*** 偏微分_重み2 ***

```
[-1.52947538e+00 -8.33372265e-04 -2.93712731e-07 -1.75092296e+00
 -7.36275568e-11 -1.78399215e+00 -1.48771712e-08 -1.97289752e-02
 -1.67174497e+00 -2.46474868e-14]
```

*** 偏微分_バイアス1 ***

```
[ 0.25954177  1.11263648 -0.73285033  0.34121635 -0.84617901  0.63856516
 -0.74251427  0.5546684  0.33518563 -0.97976294]
```

*** 偏微分_バイアス2 ***

-1.7844225053181058

順伝播開始

*** 総入力1 ***

```
[ 24.29613716  54.10945733 -52.96383513  44.88740738 -68.0714797
 65.02806057 -65.87471046  32.39272894  36.72748534 -73.82776893]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 9.95631580e-24 1.00000000e+00
 2.73484044e-30 1.00000000e+00 2.46023589e-29 1.00000000e+00
 1.00000000e+00 8.64982541e-33]
```

*** 総入力2 ***

-6.451662876411422

*** 出力1 ***

-6.451662876411422

出力合計: -6.451662876411422

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.62481521 -2.64889346  2.21853742 -0.89392935  2.56161416 -1.8002626
 2.24779277 -1.31912329 -0.8620096  2.96600905]
```

```
[ 0.38240394  1.62119501 -1.35780538  0.54710913 -1.5677777  1.10180979  
-1.37571045  0.80733942  0.52757337 -1.8152784  ]]
```

*** 偏微分_重み2 ***

```
[-4.12719195e+00 -4.12719195e+00 -4.10916264e-23 -4.12719195e+00  
-1.12872114e-29 -4.12719195e+00 -1.01538657e-28 -4.12719195e+00  
-4.12719195e+00 -3.56994898e-32]
```

*** 偏微分_バイアス1 ***

```
[ 0.47737218  2.02381123 -1.69501001  0.68298113 -1.95712798  1.37543911  
-1.71736173  1.0078384  0.65859376 -2.26609432]
```

*** 偏微分_バイアス2 ***

-4.1271919486617

順伝播開始

*** 総入力1 ***

```
[ 102.43936642  233.11157544 -189.77278424  183.92626553 -240.2898249  
258.98264497 -241.74871734  143.85774477  154.09426838 -256.48052949]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 3.82584163e-083 1.00000000e+000  
4.40002344e-105 1.00000000e+000 1.02297743e-105 1.00000000e+000  
1.00000000e+000 4.09186530e-112]
```

*** 総入力2 ***

-4.429338821591829

*** 出力1 ***

-4.429338821591829

出力合計: -4.429338821591829

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.47556487  3.50278202 -3.31805083  0.87805274 -3.83115738  2.23356731  
-3.36180522  1.51397401  0.83031347 -4.43597152]  
[ 0.09699083  0.71438777 -0.67671209  0.1790777 -0.78135949  0.4555331  
-0.68563574  0.308773  0.16934134 -0.90471054]]]
```

*** 偏微分_重み2 ***

```
[3.48073747e+000 3.48073747e+000 1.33167503e-082 3.48073747e+000
```

1. 53153265e-104 3. 48073747e+000 3. 56071588e-105 3. 48073747e+000
3. 48073747e+000 1. 42427089e-111]

*** 偏微分_バイアス1 ***

[-0. 20488757 -1. 50910322 1. 4295155 -0. 37829137 1. 65057714 -0. 96228758
1. 4483662 -0. 65226527 -0. 35772387 1. 91114916]

*** 偏微分_バイアス2 ***

3. 480737470892425

順伝播開始

*** 総入力1 ***

[72. 73131586 147. 54883642 -140. 75950876 130. 02953456 -183. 36047137
184. 15036776 -180. 36731774 93. 39367708 109. 30824822 -203. 86854852]

*** 中間層出力1 ***

[1. 00000000e+00 1. 00000000e+00 7. 39472575e-62 1. 00000000e+00
2. 33109022e-80 1. 00000000e+00 4. 65017384e-79 1. 00000000e+00
1. 00000000e+00 2. 89077537e-89]

*** 総入力2 ***

-6. 134900182329117

*** 出力1 ***

-6. 134900182329117

出力合計: -6. 134900182329117

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 40058575 1. 80641378 -1. 54089008 0. 58749957 -1. 7791748 1. 21699534
-1. 56120945 0. 88281896 0. 56532963 -2. 06004817]
[-0. 3234184 -1. 45843297 1. 24405876 -0. 47432584 1. 4364412 -0. 98255789
1. 26046389 -0. 71275601 -0. 45642664 1. 66320817]]

*** 偏微分_重み2 ***

[7. 54419567e-01 7. 54419567e-01 5. 57872580e-62 7. 54419567e-01
1. 75862008e-80 7. 54419567e-01 3. 50818214e-79 7. 54419567e-01
7. 54419567e-01 2. 18085750e-89]

*** 偏微分_バイアス1 ***

[-0. 08054793 -0. 36322533 0. 30983505 -0. 1181317 0. 35774824 -0. 24470779

0.31392077 -0.17751315 -0.11367387 0.41422495]

*** 偏微分_バイアス2 ***

0.7544195671037741

順伝播開始

*** 総入力1 ***

[-227.64943844 -520.40664571 389.95251763 -403.01110027 490.31048174
-560.39737607 503.30267577 -325.64301022 -341.60370242 520.32260055]

*** 中間層出力1 ***

[1.35864213e-099 9.77834653e-227 1.00000000e+000 9.42981143e-176
1.00000000e+000 4.19287483e-244 1.00000000e+000 3.75869938e-142
4.39943636e-149 1.00000000e+000]

*** 総入力2 ***

8.613739373761614

*** 出力1 ***

8.613739373761614

出力合計: 8.613739373761614

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.83245958 11.89178255 -6.14150673 4.03695447 -7.0912352
8.09350002 -6.22249341 5.94002776 3.89408876 -8.21070875]
[4.36035506 18.30649043 -9.45438027 6.21458289 -10.91641467
12.45932475 -9.57905306 9.14421879 5.99465206 -12.63975863]]

*** 偏微分_重み2 ***

[-9.88390687e-099 -7.11359263e-226 -7.27484203e+000 -6.86003886e-175
-7.27484203e+000 -3.05025021e-243 -7.27484203e+000 -2.73439442e-141
-3.20052045e-148 -7.27484203e+000]

*** 偏微分_バイアス1 ***

[1.08367691 4.54970313 -2.34969251 1.54450725 -2.71305121 3.0965099
-2.38067738 2.27260823 1.48984795 -3.14135304]

*** 偏微分_バイアス2 ***

-7.274842032348577

順伝播開始

*** 総入力1 ***

[-122.68153303 -279.86992769 206.25363047 -215.85992871 259.3138781
-299.95165297 266.9496523 -175.73464789 -183.81205784 276.07271221]

*** 中間層出力1 ***

[5.24912812e-054 2.84468873e-122 1.00000000e+000 1.79153005e-094
1.00000000e+000 5.40321536e-131 1.00000000e+000 4.77982663e-077
1.48401255e-080 1.00000000e+000]

*** 総入力2 ***

11.159934085083618

*** 出力1 ***

11.159934085083618

出力合計: 11.159934085083618

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.60550588 -2.5421525 1.71987422 -0.86299542 1.92290136 -1.73017891
1.73718705 -1.26982279 -0.83245447 2.16221556]
[-0.8116481 -3.40761887 2.305399 -1.156799 2.57754597 -2.31921188
2.32860592 -1.70212923 -1.11586049 2.8983338]]

*** 偏微分_重み2 ***

[1.44022421e-053 7.80508590e-122 2.74373988e+000 4.91549244e-094
2.74373988e+000 1.48250174e-130 2.74373988e+000 1.31146009e-076
4.07174440e-080 2.74373988e+000]

*** 偏微分_バイアス1 ***

[-0.40871369 -1.7159413 1.16090722 -0.58251796 1.29794961 -1.16786284
1.17259331 -0.85712457 -0.56190295 1.4594856]

*** 偏微分_バイアス2 ***

2.743739877500257

順伝播開始

*** 総入力1 ***

[-25.43488797 -75.50085843 31.91145335 -44.18479329 34.75824756
-59.61152856 41.49646318 -45.62815338 -38.01327107 29.12398849]

*** 中間層出力1 ***

[8.99018249e-12 1.62328137e-33 1.00000000e+00 6.46826925e-20
1.00000000e+00 1.29134441e-26 1.00000000e+00 1.52737180e-20
3.09774836e-17 1.00000000e+00]

*** 総入力2 ***

10.199625127952578

*** 出力1 ***

10.199625127952578

出力合計: 10.199625127952578

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.63650816 19.4658901 -11.9941563 6.60816927 -13.5487853
13.24840757 -12.12672496 9.72334696 6.37430963 -15.38127332]
[-7.16325939 -30.07418841 18.53059452 -10.20941384 20.93244747
-20.46837331 18.73540893 -15.02226546 -9.84810803 23.76358385]]

*** 偏微分_重み2 ***

[8.91588729e-11 1.60986651e-32 9.91735963e+00 6.41481524e-19
9.91735963e+00 1.28067269e-25 9.91735963e+00 1.51474954e-19
3.07214845e-16 9.91735963e+00]

*** 偏微分_バイアス1 ***

[-1.47731231 -6.20233978 3.82165071 -2.10553491 4.31699602 -4.22128784
3.86389054 -3.09811169 -2.03102113 4.90087444]

*** 偏微分_バイアス2 ***

9.917359630719938

順伝播開始

*** 総入力1 ***

[183.72988594 424.10965839 -333.04273894 328.30322526 -419.78030387
461.61674183 -424.80914495 261.70385128 276.10480051 -446.40631033]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.29813873e-145 1.00000000e+000
4.91734203e-183 1.00000000e+000 3.21908531e-185 1.00000000e+000
1.00000000e+000 1.34339194e-194]

*** 総入力2 ***
-6.88160379352722

*** 出力1 ***
-6.88160379352722

出力合計: -6.88160379352722

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.34750194 9.8557391 -6.34077989 3.34577006 -7.61340933 6.70777692
-6.44930145 4.92300996 3.22736501 -9.11349597]
[1.72429376 7.23926534 -4.65744756 2.45754448 -5.59222294 4.92701526
-4.73715913 3.61606319 2.37057327 -6.69407082]]

*** 偏微分_重み2 ***

[6.62850703e+000 6.62850703e+000 1.52332287e-144 6.62850703e+000
3.25946362e-182 6.62850703e+000 2.13377296e-184 6.62850703e+000
6.62850703e+000 8.90468290e-194]

*** 偏微分_バイアス1 ***

[-0.77653644 -3.26020627 2.09748352 -1.10675622 2.51846001 -2.21888345
2.13338166 -1.62849562 -1.06758869 3.01467768]

*** 偏微分_バイアス2 ***

6.628507027284868

順伝播開始

*** 総入力1 ***

[-20.00814921 -50.91067766 21.71062684 -34.94795723 24.72697494
-44.70836891 30.78723548 -32.79772831 -30.09417442 21.2215056]

*** 中間層出力1 ***

[2.04442510e-09 7.75842602e-23 1.00000000e+00 6.64194111e-16
1.00000000e+00 3.83179341e-20 1.00000000e+00 5.70331783e-15
8.51659728e-14 9.99999999e-01]

*** 総入力2 ***

6.2645537615251765

*** 出力1 ***

6.2645537615251765

出力合計: 6.2645537615251765

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.87645097  8.0487435 -2.70164016  3.56414032 -3.24387422
    5.88016772 -2.74787836  4.65067315  3.48257316 -3.88302183]
  [ -4.72095635 -13.20994765  4.43404926 -5.849622  5.32398736
    -9.65078683  4.5099374 -7.6328869 -5.71575044  6.3729842 ] ]
```

*** 偏微分_重み2 ***

```
[1.17130918e-08 4.44502250e-22 5.72928387e+00 3.80535661e-15
 5.72928387e+00 2.19534322e-19 5.72928387e+00 3.26759269e-14
 4.87940034e-13 5.72928387e+00]
```

*** 偏微分_バイアス1 ***

```
[-1.51803755 -4.24769793  1.42578172 -1.88096334  1.71194396 -3.10323919
 1.45018377 -2.45437747 -1.83791654  2.04925201]
```

*** 偏微分_バイアス2 ***

5.7292838691740196

順伝播開始

*** 総入力1 ***

```
[ 113.03204888 268.29987535 -207.53111228 203.78615328 -259.9269573
 286.61005402 -263.60547567 163.94525563 170.35050551 -272.8314404 ]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 7.41964475e-091 1.00000000e+000
 1.30363720e-113 1.00000000e+000 3.29303628e-115 1.00000000e+000
 1.00000000e+000 3.24198459e-119]
```

*** 総入力2 ***

-10.53062210855894

*** 出力1 ***

-10.53062210855894

出力合計: -10.53062210855894

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.33947432 -0.94990033 0.35217048 -0.42063436 0.45563632 -0.69396835
 0.36099337 -0.54886529 -0.41100793 0.57759463]
[-1.57185968 -4.39830036 1.63064638 -1.94765303 2.10972176 -3.21326476
 1.67149881 -2.5413976 -1.90308 2.67442235]]
```

*** 偏微分_重み2 ***

```
[-2.48151729e+000 -2.48151729e+000 -1.84119767e-090 -2.48151729e+000
-3.23499826e-113 -2.48151729e+000 -8.17172645e-115 -2.48151729e+000
-2.48151729e+000 -8.04504079e-119]
```

*** 偏微分_バイアス1 ***

```
[ 0.51709381 1.44690645 -0.53643284 0.64071835 -0.69403401 1.05706594
-0.54987205 0.83604217 0.62605518 -0.87980325]
```

*** 偏微分_バイアス2 ***

-2.481517285800109

順伝播開始

*** 総入力1 ***

```
[ 91.09766466 214.73167384 -170.01301965 164.18366684 -213.62033877
231.89808848 -215.36871988 131.02562186 137.21631347 -225.6692511 ]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.45976758e-74 1.00000000e+00
1.68215360e-93 1.00000000e+00 2.92788072e-94 1.00000000e+00
1.00000000e+00 9.84213936e-99]
```

*** 総入力2 ***

-9.314678638516888

*** 出力1 ***

-9.314678638516888

出力合計: -9.314678638516888

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.50111553 -1.57883222 0.6217625 -0.64440485 0.80443307 -1.1269803
 0.63733945 -0.87079857 -0.62740924 1.01975237]
[-0.7758644 -2.44446569 0.96265903 -0.99771561 1.24548322 -1.74487488
 0.98677644 -1.34823524 -0.97140173 1.57885662]]
```

*** 偏微分_重み2 ***

[-2.61880627e+00 -2.61880627e+00 -3.82284849e-74 -2.61880627e+00
-4.40523440e-93 -2.61880627e+00 -7.66755239e-94 -2.61880627e+00
-2.61880627e+00 -2.57746563e-98]

*** 偏微分_バイアス1 ***

[0.45626249 1.43751665 -0.56611078 0.5867265 -0.73243117 1.02610836
-0.5802935 0.79285654 0.5712521 -0.92847803]

*** 偏微分_バイアス2 ***

-2.618806269838613

順伝播開始

*** 総入力1 ***

[37.25518778 90.30221594 -75.25636654 68.36602456 -94.47407182
97.92180078 -93.81323149 53.80653171 56.31569728 -99.30763704]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.07288535e-33 1.00000000e+00
9.34182926e-42 1.00000000e+00 1.80896945e-41 1.00000000e+00
1.00000000e+00 7.43431953e-44]

*** 総入力2 ***

-8.031463566295969

*** 出力1 ***

-8.031463566295969

出力合計: -8.031463566295969

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.3278758 -1.21693844 0.51292312 -0.44608236 0.66361725 -0.84418309
0.52577333 -0.63284592 -0.43206183 0.84124496]
[-0.53330943 -1.9794225 0.83429985 -0.7255794 1.07941279 -1.37311383
0.85520149 -1.02936139 -0.70277417 1.36833479]]

*** 偏微分_重み2 ***

[-5.15104600e+00 -5.15104600e+00 -1.06775278e-32 -5.15104600e+00
-4.81201923e-41 -5.15104600e+00 -9.31808486e-41 -5.15104600e+00
-5.15104600e+00 -3.82945219e-43]

*** 偏微分_バイアス1 ***

[0.71178786 2.64186012 -1.11350836 0.96840331 -1.4406513 1.83264295
-1.14140499 1.37384961 0.93796603 -1.82626454]

*** 偏微分_バイアス2 ***

-5.151046002176741

順伝播開始

*** 総入力1 ***

[49.67657433 119.17344479 -97.0540454 90.63054711 -121.76311191
128.8684083 -121.85557431 71.73478168 75.04420401 -127.93391076]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 7.07886509e-43 1.00000000e+00
1.31508068e-53 1.00000000e+00 1.19893734e-53 1.00000000e+00
1.00000000e+00 2.74794800e-56]

*** 総入力2 ***

-5.507451025229363

*** 出力1 ***

-5.507451025229363

出力合計: -5.507451025229363

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.06169197 -0.40521447 0.19818697 -0.10736549 0.25641326 -0.26118654
0.20315213 -0.17952855 -0.10194813 0.32504635]
[-0.12929504 -0.84925504 0.41536346 -0.22501832 0.53739507 -0.54739899
0.42576952 -0.37625884 -0.21366454 0.68123741]]

*** 偏微分_重み2 ***

[-1.75889955e+00 -1.75889955e+00 -1.24510126e-42 -1.75889955e+00
-2.31309482e-53 -1.75889955e+00 -2.10881035e-53 -1.75889955e+00
-1.75889955e+00 -4.83336449e-56]

*** 偏微分_バイアス1 ***

[0.11835665 0.77740789 -0.38022362 0.20598173 -0.49193133 0.50108892
-0.38974933 0.34442726 0.19558848 -0.62360458]

*** 偏微分_バイアス2 ***

-1.7588995492894846

順伝播開始

*** 総入力1 ***

[131.53413202 300.24839046 -243.5467473 234.20762003 -308.49009807
331.704121 -309.28284591 184.99891085 197.2726561 -331.77648131]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.69430487e-106 1.00000000e+000
1.05791965e-134 1.00000000e+000 4.78813815e-135 1.00000000e+000
1.00000000e+000 8.15276529e-145]

*** 総入力2 ***

-4.645590246077516

*** 出力1 ***

-4.645590246077516

出力合計: -4.645590246077516

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.81888997 7.94086603 -4.10885129 1.76580221 -5.31601034 4.9548507
-4.21178997 3.26190103 1.6534885 -6.73892506]
[-0.0509994 -0.49454682 0.25589392 -0.10997187 0.33107422 -0.30858166
0.26230481 -0.20314696 -0.10297712 0.4196915]]

*** 偏微分_重み2 ***

[5.42639976e+000 5.42639976e+000 9.19397557e-106 5.42639976e+000
5.74069496e-134 5.42639976e+000 2.59823517e-134 5.42639976e+000
5.42639976e+000 4.42401637e-144]

*** 偏微分_バイアス1 ***

[-0.2337841 -2.26703009 1.17303195 -0.50411715 1.5176626 -1.41455549
1.20241981 -0.93123694 -0.47205282 1.92388914]

*** 偏微分_バイアス2 ***

5.426399764285378

順伝播開始

*** 総入力1 ***

[-156.13255541 -352.84542262 267.12218517 -274.94826183 337.40438599

-383.44568174 345.10431925 -221.50980001 -234.04018682 361.89806717]

*** 中間層出力1 ***

[1.55773199e-068 5.77005551e-154 1.00000000e+000 3.90379566e-120
1.00000000e+000 2.96248602e-167 1.00000000e+000 6.30254809e-097
2.27844380e-102 1.00000000e+000]

*** 総入力2 ***

4.7201752654836655

*** 出力1 ***

4.7201752654836655

出力合計: 4.7201752654836655

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.80882422 11.74568698 -3.18892814 3.99703724 -4.12581857 7.99874807
-3.26882007 5.87438557 3.85610274 -5.23015953]
[1.13162598 4.73213111 -1.28476317 1.61033614 -1.66221988 3.2225552
-1.31695023 2.36668684 1.55355611 -2.10713947]]

*** 偏微分_重み2 ***

[-9.98883746e-068 -3.70000404e-153 -6.41242364e+000 -2.50327916e-119
-6.41242364e+000 -1.89967154e-166 -6.41242364e+000 -4.04146084e-096
-1.46103469e-101 -6.41242364e+000]

*** 偏微分_バイアス1 ***

[0.96021825 4.01535379 -1.09015971 1.36641804 -1.41044293 2.73443379
-1.11747138 2.00820407 1.31823849 -1.78797042]

*** 偏微分_バイアス2 ***

-6.412423643718108

順伝播開始

*** 総入力1 ***

[-39.02698125 -75.97936946 63.26193907 -63.76623651 83.85407602
-91.51419172 82.50715953 -49.9937648 -57.05173683 99.77761723]

*** 中間層出力1 ***

[1.12408046e-17 1.00595628e-33 1.00000000e+00 2.02616754e-28
1.00000000e+00 1.80256744e-40 1.00000000e+00 1.94081355e-22]

1.67011167e-25 1.00000000e+00]

*** 総入力2 ***

6.964523540785003

*** 出力1 ***

6.964523540785003

出力合計: 6.964523540785003

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.02003266 -8.44718982 3.48392458 -2.87456428 4.15771159 -5.75248969
3.54138076 -4.22470393 -2.77320789 4.95192462]
[2.12484639 8.88549037 -3.66469547 3.02371721 -4.37344337 6.05096995
-3.72513289 4.44391176 2.91710172 -5.20886585]]

*** 偏微分_重み2 ***

[4.12791336e-17 3.69413089e-33 3.67225791e+00 7.44060976e-28
3.67225791e+00 6.61949253e-40 3.67225791e+00 7.12716792e-22
6.13308079e-25 3.67225791e+00]

*** 偏微分_バイアス1 ***

[-0.54989646 -2.29950726 0.94839941 -0.7825184 1.13181877 -1.56595176
0.96404022 -1.15005553 -0.754927 1.34802068]

*** 偏微分_バイアス2 ***

3.672257907527663

順伝播開始

*** 総入力1 ***

[116.57527112 270.95375872 -216.30856172 208.56491926 -273.12011381
295.50594794 -274.36818533 165.99348944 175.21395716 -291.80145497]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.14389262e-094 1.00000000e+000
2.42907919e-119 1.00000000e+000 6.97286249e-120 1.00000000e+000
1.00000000e+000 1.87170886e-127]

*** 総入力2 ***

-7.112714529044021

*** 出力1 ***

-7.112714529044021

出力合計: -7.112714529044021

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.45762062  1.91363652 -1.02635166  0.65120724 -1.2731431  1.30317592
 -1.04739643  0.9570695  0.62824584 -1.56404361]
 [ 0.15367463  0.64262265 -0.34466149  0.21868339 -0.42753709  0.43762248
 -0.35172858  0.32139569  0.21097267 -0.52522505]]
```

*** 偏微分_重み2 ***

```
[1.63162145e+000 1.63162145e+000 1.86639974e-094 1.63162145e+000
 3.96333772e-119 1.63162145e+000 1.13770720e-119 1.63162145e+000
 1.63162145e+000 3.05392033e-127]
```

*** 偏微分_バイアス1 ***

```
[-0.19214851 -0.80350925  0.43095073 -0.27343283  0.53457501 -0.54718537
 0.43978713 -0.40186012 -0.26379166  0.65672007]
```

*** 偏微分_バイアス2 ***

1.6316214526586448

順伝播開始

*** 総入力1 ***

```
[-33.62353678 -84.84083018  45.56068052 -60.78623998  53.55192739
 -79.40406093  61.98843273 -53.72338585 -51.25216441  48.87493361]
```

*** 中間層出力1 ***

```
[2.49737360e-15 1.42592149e-37 1.00000000e+00 3.98906766e-27
 1.00000000e+00 3.27532574e-35 1.00000000e+00 4.65832704e-24
 5.51401335e-23 1.00000000e+00]
```

*** 総入力2 ***

5.565019771464214

*** 出力1 ***

5.565019771464214

出力合計: 5.565019771464214

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.91911036  7.0473072 -2.23580791  2.6009369 -2.77341922
   4.89721932 -2.28165191  3.67820664  2.52006513 -3.40711787]
 [ -3.39294334 -12.4594784  3.95285739 -4.59839712  4.90334194
  -8.65817207  4.03390854 -6.50298545 -4.45541768  6.02370669]]
```

*** 偏微分_重み2 ***

```
[1.04573791e-14 5.97083337e-37 4.18735071e+00 1.67036253e-26
 4.18735071e+00 1.37149376e-34 4.18735071e+00 1.95060490e-23
 2.30891077e-22 4.18735071e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.74659121 -2.74161286  0.86979601 -1.01184209  1.07894286 -1.9051645
 0.8876307  -1.43093217 -0.98038056  1.32547055]
```

*** 偏微分_バイアス2 ***

4.187350709540386

順伝播開始

*** 総入力1 ***

```
[ 164.451509   384.44060688 -299.93074245  294.52908264 -377.37576168
 415.05363564 -381.78943373  236.08448352  247.44800813 -400.38927632]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 5.51738896e-131 1.00000000e+000
 1.28170801e-164 1.00000000e+000 1.55222860e-166 1.00000000e+000
 1.00000000e+000 1.29761746e-174]
```

*** 総入力2 ***

-8.205323590514585

*** 出力1 ***

-8.205323590514585

出力合計: -8.205323590514585

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.20075783  4.40939173 -1.63427116  1.62736622 -2.17812744  3.06411481
  -1.68064769  2.30139732  1.576766  -2.81918722]
 [ 1.35531401  4.97694889 -1.84462723  1.83683351 -2.45848626  3.45851395]
```

-1.89697314 2.59762289 1.77972026 -3.18206038]]

*** 偏微分_重み2 ***

[3.76199859e+000 3.76199859e+000 2.07564095e-130 3.76199859e+000
4.82178372e-164 3.76199859e+000 5.83948181e-166 3.76199859e+000
3.76199859e+000 4.88163505e-174]

*** 偏微分_バイアス1 ***

[-0.52751162 -1.93711447 0.71796078 -0.71492733 0.95688531 -1.34611337
0.73833471 -1.01103969 -0.69269786 1.23851286]

*** 偏微分_バイアス2 ***

3.7619985927101958

順伝播開始

*** 総入力1 ***

[95.52986223 219.18995624 -180.30941425 169.47119075 -229.40578827
242.81052929 -227.52559539 133.9633661 142.96864526 -249.24267978]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 4.92738342e-079 1.00000000e+000
2.34602177e-100 1.00000000e+000 1.53776308e-099 1.00000000e+000
1.00000000e+000 5.69219167e-109]

*** 総入力2 ***

-10.048702900942581

*** 出力1 ***

-10.048702900942581

出力合計: -10.048702900942581

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.62176534 -4.78675278 1.61204047 -2.04257065 2.14849877 -3.45977542
1.65778614 -2.70743303 -1.99265874 2.78083833]
[0.59002161 1.74148965 -0.58648356 0.74311664 -0.78165482 1.25871616
-0.60312649 0.98500316 0.72495797 -1.01170907]]

*** 偏微分_重み2 ***

[-2.56472338e+000 -2.56472338e+000 -1.26373754e-078 -2.56472338e+000
-6.01689686e-100 -2.56472338e+000 -3.94393691e-099 -2.56472338e+000

-2.56472338e+000 -1.45988970e-108]

*** 偏微分_バイアス1 ***

[0.49241888 1.45340844 -0.4894661 0.62018858 -0.65235169 1.05049645
-0.50335593 0.82206168 0.60503376 -0.84434983]

*** 偏微分_バイアス2 ***

-2.5647233759818224

順伝播開始

*** 総入力1 ***

[-173.94514901 -399.90722094 296.55349154 -307.86151179 372.79632251
-428.41312448 383.09573965 -249.9653454 -261.2429096 395.76863231]

*** 中間層出力1 ***

[2.86142016e-076 2.10136102e-174 1.00000000e+000 1.98355496e-134
1.00000000e+000 8.76080602e-187 1.00000000e+000 2.76331138e-109
3.49659978e-114 1.00000000e+000]

*** 総入力2 ***

4.015637757954094

*** 出力1 ***

4.015637757954094

出力合計: 4.015637757954094

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.91333161 9.87962565 -2.19455001 3.83954492 -2.9248571 6.95888278
-2.25682585 5.30293995 3.72968633 -3.78569205]
[5.23145987 17.74081091 -3.94074614 6.89465804 -5.25215615 12.49604265
-4.05257467 9.52247162 6.69738532 -6.79795462]]

*** 偏微分_重み2 ***

[-2.29272659e-075 -1.68372557e-173 -8.01254783e+000 -1.58933290e-133
-8.01254783e+000 -7.01963773e-186 -8.01254783e+000 -2.21411646e-108
-2.80166730e-113 -8.01254783e+000]

*** 偏微分_バイアス1 ***

[1.59649304 5.41399185 -1.20260385 2.1040539 -1.60280896 3.81343747
-1.23673074 2.90598801 2.04385187 -2.07454276]

*** 偏微分_バイアス2 ***

-8.012547832707408

順伝播開始

*** 総入力1 ***

[-154.77023886 -352.05181375 263.30634641 -271.72462178 332.81254884
-380.23207788 339.77302914 -220.35286669 -231.64995839 357.72136452]

*** 中間層出力1 ***

[6.08330090e-068 1.27596848e-153 1.00000000e+000 9.80609655e-119
1.00000000e+000 7.36727252e-166 1.00000000e+000 2.00431475e-096
2.48714632e-101 1.00000000e+000]

*** 総入力2 ***

6.820029499401687

*** 出力1 ***

6.820029499401687

出力合計: 6.820029499401687

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.40844795 8.16747537 -3.14719908 3.17414745 -3.75094312 5.75290053
-3.19868245 4.38393446 3.08332747 -4.46259441]
[0.85389148 2.8956979 -1.11580842 1.1253627 -1.32985992 2.03963419
-1.13406134 1.55428076 1.09316337 -1.58216887]]

*** 偏微分_重み2 ***

[-2.49665726e-067 -5.23672266e-153 -4.10411601e+000 -4.02453579e-118
-4.10411601e+000 -3.02361411e-165 -4.10411601e+000 -8.22594028e-096
-1.02075371e-100 -4.10411601e+000]

*** 偏微分_バイアス1 ***

[0.81774147 2.77310677 -1.06856999 1.07771978 -1.27355949 1.95328504
-1.08605016 1.48847934 1.04688363 -1.51518679]

*** 偏微分_バイアス2 ***

-4.1041160138250286

順伝播開始

*** 総入力1 ***

[-74.92958238 -161.59540638 125.15703049 -128.38698655 160.74651164
-180.99769356 162.19734449 -102.88336317 -111.24466505 179.10346881]

*** 中間層出力1 ***

[2.87406006e-33 6.60703654e-71 1.00000000e+00 1.74678798e-56
1.00000000e+00 2.47571386e-79 1.00000000e+00 2.08124447e-45
4.86469736e-49 1.00000000e+00]

*** 総入力2 ***

8.256470104240448

*** 出力1 ***

8.256470104240448

出力合計: 8.256470104240448

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.75109067 -5.93825991 2.7846176 -2.30780158 3.22357688 -4.18271462
2.8220492 -3.18739159 -2.24176984 3.74099139]
[1.15877246 3.92960351 -1.84270195 1.52717215 -2.13318029 2.76788323
-1.86747205 2.10923492 1.48347609 -2.47557586]]

*** 偏微分_重み2 ***

[7.49814247e-33 1.72371141e-70 2.60890249e+00 4.55719951e-56
2.60890249e+00 6.45889608e-79 2.60890249e+00 5.42976390e-45
1.26915211e-48 2.60890249e+00]

*** 偏微分_バイアス1 ***

[-0.5198215 -1.76280718 0.82663002 -0.68508439 0.95693765 -1.24166329
0.83774181 -0.94619583 -0.66548249 1.11053517]

*** 偏微分_バイアス2 ***

2.6089024949813737

順伝播開始

*** 総入力1 ***

[-171.7080453 -389.148606 293.84360903 -301.00182623 372.1549596
-422.29638971 378.6368139 -243.46267638 -256.79409218 401.68907049]

*** 中間層出力1 ***

```
[2.68005327e-075 9.88343186e-170 1.00000000e+000 1.89046146e-131  
1.00000000e+000 3.97199069e-184 1.00000000e+000 1.84290564e-106  
2.99049294e-112 1.00000000e+000]
```

*** 総入力2 ***

7.343354230996967

*** 出力1 ***

7.343354230996967

出力合計: 7.343354230996967

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3.80287838 12.89623697 -5.36210765 5.01189852 -6.31540422 9.0836844  
-5.44339859 6.92212161 4.86849607 -7.4390836 ]  
[ 0.34374436 1.16569825 -0.48468398 0.45302838 -0.57085301 0.82107944  
-0.49203192 0.62569454 0.44006615 -0.67242303]]
```

*** 偏微分_重み2 ***

```
[-1.32439404e-074 -4.88406646e-169 -4.94167059e+000 -9.34203779e-131  
-4.94167059e+000 -1.96282696e-183 -4.94167059e+000 -9.10703262e-106  
-1.47780310e-111 -4.94167059e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.98462348 3.33903334 -1.38833182 1.29765731 -1.63515491 2.35190506  
-1.40937929 1.79224334 1.26052822 -1.92609272]
```

*** 偏微分_バイアス2 ***

-4.941670593182387

順伝播開始

*** 総入力1 ***

```
[ 74.61606487 167.10318917 -145.08464227 131.14995406 -186.42046442  
190.59627376 -181.95407758 101.95320332 111.17121987 -206.81697819]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 9.78454089e-64 1.00000000e+00  
1.09300208e-81 1.00000000e+00 9.51367145e-80 1.00000000e+00  
1.00000000e+00 1.51540113e-90]
```

*** 総入力2 ***

-7.780528210580145

*** 出力1 ***

-7.780528210580145

出力合計: -7.780528210580145

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.97257471 -3.29817383 2.75395316 -1.28177798 3.14813702 -2.32312497
2.78756659 -1.77031179 -1.24510323 3.6127734]
[0.71934929 2.43944138 -2.03691729 0.94804652 -2.32846906 1.71826213
-2.06177893 1.30938272 0.92092064 -2.67212991]]

*** 偏微分_重み2 ***

[-1.50373632e+00 -1.50373632e+00 -1.47133695e-63 -1.50373632e+00
-1.64358692e-81 -1.50373632e+00 -1.43060533e-79 -1.50373632e+00
-1.50373632e+00 -2.27876373e-90]

*** 偏微分_バイアス1 ***

[0.235634 0.79907679 -0.66722379 0.31054732 -0.76272609 0.56284336
-0.67536761 0.42890858 0.30166181 -0.87529752]

*** 偏微分_バイアス2 ***

-1.5037363212242854

順伝播開始

*** 総入力1 ***

[110.71343228 255.89275386 -206.09804956 196.60372447 -261.52537695
280.78259146 -260.66159832 156.46496293 165.81799126 -282.60474808]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.10995672e-090 1.00000000e+000
2.63616090e-114 1.00000000e+000 6.25325599e-114 1.00000000e+000
1.00000000e+000 1.84636410e-123]

*** 総入力2 ***

-7.0436974131802454

*** 出力1 ***

-7.0436974131802454

出力合計: -7.0436974131802454

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.62458175  2.34533211 -2.0376968  0.85336651 -2.32936015  1.62387687
    -2.06256796  1.21484099  0.82623024 -2.67315252]
  [-0.11596368 -0.43544874  0.37833128 -0.15844126  0.43248329 -0.30149894
    0.38294902 -0.22555483 -0.15340297  0.49631389]]
```

*** 偏微分_重み2 ***

```
[1.42540433e+000 1.42540433e+000 4.43294577e-090 1.42540433e+000
 3.75759515e-114 1.42540433e+000 8.91341815e-114 1.42540433e+000
 1.42540433e+000 2.63181538e-123]
```

*** 偏微分_バイアス1 ***

```
[-0.19385974 -0.72795192  0.63246706 -0.26487071  0.72299449 -0.50402426
 0.64018665 -0.37706635 -0.25644807  0.8297019 ]
```

*** 偏微分_バイアス2 ***

1.425404327716917

順伝播開始

*** 総入力1 ***

```
[ -78.60295889 -169.44294438  131.60069888 -134.61685623  169.22125689
 -190.13177188  170.41909401 -107.76494468 -116.6569955  188.8685179 ]
```

*** 中間層出力1 ***

```
[7.29740911e-35 2.58145320e-74 1.00000000e+00 3.44066325e-59
 1.00000000e+00 2.67190270e-83 1.00000000e+00 1.57862575e-47
 2.17025407e-51 1.00000000e+00]
```

*** 総入力2 ***

9.078422178156318

*** 出力1 ***

9.078422178156318

出力合計: 9.078422178156318

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [-2.25774971 -7.69383041  3.9815055 -2.98051138  4.55139363 -5.41465674
```

```
4. 03010186 -4. 12245765 -2. 89478428 5. 22313793]
[ 1. 54830536 5. 27622649 -2. 73041173 2. 0439563 -3. 12122602 3. 71322915
-2. 76373783 2. 827073 1. 98516691 -3. 58189058]]
```

*** 偏微分_重み2 ***

```
[2. 27423000e-34 8. 04507221e-74 3. 11648966e+00 1. 07227914e-58
3. 11648966e+00 8. 32695712e-83 3. 11648966e+00 4. 91977083e-47
6. 76357435e-51 3. 11648966e+00]
```

*** 偏微分_バイアス1 ***

```
[-0. 61668568 -2. 10150622 1. 08751534 -0. 81410206 1. 24317557 -1. 47896876
1. 10078903 -1. 12601525 -0. 79068641 1. 42665697]
```

*** 偏微分_バイアス2 ***

```
3. 116489656409345
```

順伝播開始

*** 総入力1 ***

```
[-14. 56571437 -38. 16712201 12. 77370981 -25. 51395931 13. 30644523
-31. 28879278 19. 33233251 -24. 95804858 -22. 03826496 8. 83174745]
```

*** 中間層出力1 ***

```
[4. 72270065e-07 2. 65600887e-17 9. 99997166e-01 8. 30669493e-12
9. 99998336e-01 2. 57899173e-14 9. 99999996e-01 1. 44829564e-11
2. 68474558e-10 9. 99853998e-01]
```

*** 総入力2 ***

```
7. 987334904792825
```

*** 出力1 ***

```
7. 987334904792825
```

出力合計: 7. 987334904792825

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3. 09092272 10. 53306979 -4. 78081637 4. 08040374 -5. 56100723
7. 41281706 -4. 84733989 5. 64376023 3. 96304093 -6. 48107698]
[ -4. 76621621 -16. 24203919 7. 37203953 -6. 29200022 8. 57509721
-11. 43059599 7. 47461909 -8. 70270269 -6. 11102626 9. 99384875]]
```

*** 偏微分_重み2 ***

[3.69292459e-06 2.07687109e-16 7.81949650e+00 6.49543561e-11
7.81950566e+00 2.01664740e-13 7.81951863e+00 1.13249748e-10
2.09934182e-09 7.81837700e+00]

*** 偏微分_バイアス1 ***

[-1.54731307 -5.27284506 2.39327228 -2.04264636 2.78383511 -3.71084941
2.4265739 -2.82526118 -1.98389465 3.24442118]

*** 偏微分_バイアス2 ***

7.8195186661579585

順伝播開始

*** 総入力1 ***

[20.66927371 47.6210496 -47.93057747 36.94770936 -62.07037258
56.46576724 -57.97502926 27.4906659 30.71848626 -69.78508104]

*** 中間層出力1 ***

[9.99999999e-01 1.00000000e+00 1.52761773e-21 1.00000000e+00
1.10453555e-27 1.00000000e+00 6.63383557e-26 1.00000000e+00
1.00000000e+00 4.92860920e-31]

*** 総入力2 ***

-8.507666374168277

*** 出力1 ***

-8.507666374168277

出力合計: -8.507666374168277

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.82176969 -6.20812059 2.95389928 -2.40496256 3.69737419 -4.36906459
3.01729361 -3.32639437 -2.33578971 4.57396389]
[1.7034699 5.80498548 -2.76208269 2.24879213 -3.45727877 4.08535178
-2.8213604 3.11038917 2.18411114 -4.27694559]]

*** 偏微分_重み2 ***

[-6.46025270e+00 -6.46025271e+00 -9.86879656e-21 -6.46025271e+00
-7.13557876e-27 -6.46025271e+00 -4.28562542e-25 -6.46025271e+00
-6.46025271e+00 -3.18400609e-30]

*** 偏微分_バイアス1 ***

[1.00535094 3.42597635 -1.63012121 1.32718827 -2.04041084 2.41108589
-1.66510563 1.83568413 1.28901496 -2.52416039]

*** 偏微分_バイアス2 ***
-6.460252705614878

順伝播開始

*** 総入力1 ***
[-245.7315354 -564.85167365 422.28379224 -432.65063302 532.83214702
-606.79129274 543.067249 -351.654739 -367.92246184 570.68668492]

*** 中間層出力1 ***
[1.90611959e-107 4.87567826e-246 1.00000000e+000 1.26536986e-188
1.00000000e+000 2.97776140e-264 1.00000000e+000 1.89796115e-153
1.63419943e-160 1.00000000e+000]

*** 総入力2 ***
5.703119335244326

*** 出力1 ***
5.703119335244326

出力合計: 5.703119335244326

誤差逆伝播開始

*** 偏微分_重み1 ***
[[4.02130577 26.60821727 -9.40781765 7.02437735 -11.77569677
17.13825099 -9.60972106 11.76916392 6.66818126 -14.56753064]
[2.41904233 16.00634413 -5.65933318 4.22555934 -7.08374608
10.30962504 -5.78078947 7.0798162 4.01128729 -8.76319169]]

*** 偏微分_重み2 ***
[-2.20147726e-106 -5.63117596e-245 -1.15495233e+001 -1.46144187e-187
-1.15495233e+001 -3.43917246e-263 -1.15495233e+001 -2.19205465e-152
-1.88742244e-159 -1.15495233e+001]

*** 偏微分_バイアス1 ***
[0.97967612 6.482331 -2.29194566 1.71128861 -2.86881167 4.17524461
-2.34113365 2.86722013 1.62451162 -3.54896213]

*** 偏微分_バイアス2 ***
-11.549523285547144

順伝播開始

*** 総入力1 ***

[-71.17293156 -172.63024512 111.78320468 -126.81118184 137.42132647
-173.12626077 146.35986858 -107.72384446 -107.3773847 139.42708637]

*** 中間層出力1 ***

[1.23023637e-31 1.06570532e-75 1.00000000e+00 8.44507450e-56
1.00000000e+00 6.48963504e-76 1.00000000e+00 1.64485940e-47
2.32591771e-47 1.00000000e+00]

*** 総入力2 ***

9.745452485185824

*** 出力1 ***

9.745452485185824

出力合計: 9.745452485185824

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.87994119 5.82240387 -3.7075652 1.53707261 -4.22570395
3.75018807 -3.75174565 2.57532569 1.45912986 -4.83661238]
[-2.29701541 -15.19891511 9.67829953 -4.01240391 11.03085891
-9.7895631 9.79362905 -6.72267974 -3.80894067 12.62558603]]

*** 偏微分_重み2 ***

[7.02761494e-31 6.08774607e-75 5.71241032e+00 4.82417307e-55
5.71241032e+00 3.70714582e-75 5.71241032e+00 9.39611180e-47
1.32865963e-46 5.71241032e+00]

*** 偏微分_バイアス1 ***

[-0.48454917 -3.20616995 2.04161106 -0.84640573 2.32692979 -2.0650818
2.0659395 -1.41813107 -0.80348571 2.66333316]

*** 偏微分_バイアス2 ***

5.7124103200452385

順伝播開始

*** 総入力1 ***

[-28.61018099 -65.05310566 38.3880227 -49.63471531 47.43859315
-65.88254787 52.43763069 -42.36492531 -42.87328657 48.52516976]

*** 中間層出力1 ***

[3.75626542e-13 5.59493678e-29 1.00000000e+00 2.77918228e-22
1.00000000e+00 2.44102938e-29 1.00000000e+00 3.99159720e-19
2.40086766e-19 1.00000000e+00]

*** 総入力2 ***

7.746108873169865

*** 出力1 ***

7.746108873169865

出力合計: 7.746108873169865

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.32506038 2.15086288 -1.06833538 0.56781228 -1.25974179 1.38536256
-1.08465615 0.9513549 0.53901933 -1.48541839]
[-0.89139324 -5.89817995 2.92963089 -1.55707694 3.45451299 -3.79899515
2.97438633 -2.60884244 -1.47811981 4.07337214]]

*** 偏微分_重み2 ***

[2.33410844e-12 3.47664174e-28 6.21390711e+00 1.72695805e-21
6.21390711e+00 1.51683298e-28 6.21390711e+00 2.48034143e-18
1.49187687e-18 6.21390711e+00]

*** 偏微分_バイアス1 ***

[-0.52708811 -3.48764202 1.73231469 -0.92071232 2.04268177 -2.24637689
1.75877895 -1.54262986 -0.87402432 2.40861824]

*** 偏微分_バイアス2 ***

6.213907112011396

順伝播開始

*** 総入力1 ***

[123.98575275 292.65680445 -230.53371327 220.25219949 -291.78311
315.99273843 -291.03786457 177.72245128 185.96097285 -314.78970307]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 7.59417205e-101 1.00000000e+000
1.90636219e-127 1.00000000e+000 4.01662596e-127 1.00000000e+000
1.00000000e+000 1.94343041e-137]

*** 総入力2 ***
-5.368518139987792

*** 出力1 ***
-5.368518139987792

出力合計: -5.368518139987792

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.83126748 5.5003392 -3.06212542 1.45204986 -3.85352077 3.54274745
-3.12960581 2.43287226 1.37841849 -4.78661077]
[-0.04246798 -0.28100255 0.15643855 -0.07418265 0.19686953 -0.18099267
0.159886 -0.12429112 -0.07042095 0.24453944]]

*** 偏微分_重み2 ***

[3.89715340e+000 3.89715340e+000 2.95956535e-100 3.89715340e+000
7.42938590e-127 3.89715340e+000 1.56534075e-126 3.89715340e+000
3.89715340e+000 7.57384644e-137]

*** 偏微分_バイアス1 ***

[-0.25997754 -1.72022205 0.95767469 -0.45412621 1.20518229 -1.10798844
0.97877908 -0.7608768 -0.43109812 1.49700465]

*** 偏微分_バイアス2 ***

3.897153401756725

順伝播開始

*** 総入力1 ***

[-83.1834179 -186.35500379 143.46140252 -142.05818323 184.48034083
-205.01791655 183.72596328 -116.08740812 -123.64118511 207.90671842]

*** 中間層出力1 ***

[7.47998314e-37 1.16694444e-81 1.00000000e+00 2.01797098e-62
1.00000000e+00 9.15904410e-90 1.00000000e+00 3.83600563e-51
2.01055321e-54 1.00000000e+00]

*** 総入力2 ***

5.2984406458430335

*** 出力1 ***

5. 2984406458430335

出力合計: 5. 2984406458430335

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0. 67909931  2. 79347223 -0. 85765722  0. 96021845 -1. 07931565  1. 9069836  
  -0. 8765575  1. 40438047  0. 92687474 -1. 34066072]  
 [-0. 52629059 -2. 16489419  0. 66466998 -0. 74415322  0. 83645156 -1. 47788035  
  0. 67931739 -1. 08837135 -0. 7183124  1. 03898961]]
```

*** 偏微分_重み2 ***

```
[-7. 61962544e-37 -1. 18872989e-81 -1. 01866880e+00 -2. 05564407e-62  
 -1. 01866880e+00 -9. 33003245e-90 -1. 01866880e+00 -3. 90761925e-51  
 -2. 04808783e-54 -1. 01866880e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0. 15588091  0. 64121547 -0. 19686721  0. 22040918 -0. 24774683  0. 43773028  
 -0. 20120559  0. 32236242  0. 21275544 -0. 30773615]
```

*** 偏微分_バイアス2 ***

-1. 0186687983943479

順伝播開始

*** 総入力1 ***

```
[ 91. 15600129 219. 07052497 -168. 91086284 164. 05477829 -212. 03181684  
 232. 85140739 -213. 55782437 132. 75748438 137. 23668956 -223. 77132745]
```

*** 中間層出力1 ***

```
[1. 00000000e+00 1. 00000000e+00 4. 39485281e-74 1. 00000000e+00  
 8. 23667556e-93 1. 00000000e+00 1. 79066897e-93 1. 00000000e+00  
 1. 00000000e+00 6. 56670157e-98]
```

*** 総入力2 ***

-7. 206816490960984

*** 出力1 ***

-7. 206816490960984

出力合計: -7. 206816490960984

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.06687916 -0.27510714  0.14646929 -0.09456437  0.18176339 -0.18780384
  0.14947873 -0.1383064  -0.09128061  0.22337668]
 [-0.16878722 -0.69430555  0.36965395 -0.23865818  0.45872792 -0.4739726
  0.37724907 -0.34905275 -0.23037075  0.56375006]]
```

*** 偏微分_重み2 ***

```
[-6.85818972e-01 -6.85818972e-01 -3.01407344e-74 -6.85818972e-01
 -5.64886836e-93 -6.85818972e-01 -1.22807475e-93 -6.85818972e-01
 -6.85818972e-01 -4.50356852e-98]
```

*** 偏微分_バイアス1 ***

```
[ 0.08253521  0.33950826 -0.18075697  0.11670139 -0.22431323  0.23176772
 -0.18447091  0.1706832  0.11264892 -0.27566797]
```

*** 偏微分_バイアス2 ***

-0.6858189718977359

順伝播開始

*** 総入力1 ***

```
[-162.75838928 -377.30017418  276.60484219 -285.92024815  349.05164348
 -401.90238403  356.14722902 -234.44455574 -243.75821804  374.48199383]
```

*** 中間層出力1 ***

```
[2.06504562e-071 1.38234464e-164 1.00000000e+000 6.70523441e-125
 1.00000000e+000 2.85767181e-175 1.00000000e+000 1.52062851e-102
 1.37135845e-106 1.00000000e+000]
```

*** 総入力2 ***

5.702982053313897

*** 出力1 ***

5.702982053313897

出力合計: 5.702982053313897

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.03817855  8.92410943 -2.99577968  2.95370625 -3.71766023  6.03705985
   -3.05733272  4.40021975  2.84511497 -4.56878921]
 [ 1.3436003  5.88291744 -1.97486648  1.94713099 -2.45074182  3.97972761
   -2.01544323  2.90069611  1.87554586 -3.01181983]]
```

*** 偏微分_重み2 ***

[-1.14560548e-070 -7.66870029e-164 -5.54760373e+000 -3.71979834e-124
-5.54760373e+000 -1.58532308e-174 -5.54760373e+000 -8.43584437e-102
-7.60775327e-106 -5.54760373e+000]

*** 偏微分_バイアス1 ***

[0.78233582 3.42543614 -1.14990208 1.13375259 -1.42698919 2.3172691
-1.17352864 1.6889833 1.09207084 -1.75368711]

*** 偏微分_バイアス2 ***

-5.547603727113496

順伝播開始

*** 総入力1 ***

[-294.2353623 -687.66160106 507.89841056 -518.16708589 640.76153362
-731.35486944 651.20862085 -424.86382347 -440.82320396 687.10248765]

*** 中間層出力1 ***

[1.64136728e-128 2.25092614e-299 1.00000000e+000 9.18108260e-226
1.00000000e+000 0.00000000e+000 1.00000000e+000 3.04779609e-185
3.57202941e-192 1.00000000e+000]

*** 総入力2 ***

7.64464335780362

*** 出力1 ***

7.64464335780362

出力合計: 7.64464335780362

誤差逆伝播開始

*** 偏微分_重み1 ***

[[8.6158878 37.7244308 -17.32862622 12.4860512 -20.38019488
25.52015397 -17.58882621 18.60082364 12.02700884 -23.97812884]
[5.58716136 24.46323429 -11.23712761 8.09685367 -13.21598422
16.54910339 -11.40586 12.06211192 7.79917758 -15.54914338]]

*** 偏微分_重み2 ***

[-2.10506629e-127 -2.88683026e-298 -1.28250777e+001 -1.17748098e-224
-1.28250777e+001 0.00000000e+000 -1.28250777e+001 -3.90882217e-184
-4.58115548e-191 -1.28250777e+001]

*** 偏微分_バイアス1 ***

[1.80862192 7.91900195 -3.63757443 2.62103527 -4.27815078 5.35711592
-3.69219485 3.90463038 2.52467444 -5.03341853]

*** 偏微分_バイアス2 ***

-12.825077711067973

順伝播開始

*** 総入力1 ***

[-151.33464149 -357.56324819 253.63882059 -266.38820313 318.13530206
-373.42380111 326.66825145 -221.38787801 -226.74418844 337.50263233]

*** 中間層出力1 ***

[1.88886222e-066 5.15530520e-156 1.00000000e+000 2.03738609e-116
1.00000000e+000 6.66966108e-163 1.00000000e+000 7.11977419e-097
3.35931057e-099 1.00000000e+000]

*** 総入力2 ***

12.133420556677411

*** 出力1 ***

12.133420556677411

出力合計: 12.133420556677411

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.28986204 -1.26915309 0.94578592 -0.42006493 1.04844904 -0.85856782
0.95453976 -0.62578261 -0.40462149 1.16949339]
[-1.09817041 -4.80830933 3.58320152 -1.59145666 3.97215069 -3.25276729
3.61636628 -2.37083799 -1.53294768 4.4307389]]

*** 偏微分_重み2 ***

[4.12799753e-066 1.12666170e-155 2.18544132e+000 4.45258775e-116
2.18544132e+000 1.45761529e-162 2.18544132e+000 1.55598487e-096
7.34157613e-099 2.18544132e+000]

*** 偏微分_バイアス1 ***

[-0.30819595 -1.34942762 1.00560733 -0.44663424 1.11476394 -0.91287264
1.01491485 -0.66536365 -0.43021399 1.24346439]

*** 偏微分_バイアス2 ***

2. 1854413207480867

順伝播開始

*** 総入力1 ***

[116.39370832 279.66894866 -218.32019602 205.88550421 -276.35540979
298.48746259 -274.02385993 168.30015819 174.32013611 -299.74703269]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.53018373e-095 1.00000000e+000
9.55807608e-121 1.00000000e+000 9.83897194e-120 1.00000000e+000
1.00000000e+000 6.63006425e-131]

*** 総入力2 ***

-5.737658386510757

*** 出力1 ***

-5.737658386510757

出力合計: -5.737658386510757

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.04731519 4.58564113 -5.16392985 1.51775782 -5.76366676 3.10213475
-5.21506798 2.26104676 1.46195834 -6.47078303]
[-0.1937224 -0.84820827 0.95517461 -0.2807404 1.06610824 -0.57380337
0.96463366 -0.41822692 -0.27041915 1.19690388]]

*** 偏微分_重み2 ***

[2.88150878e+000 2.88150878e+000 4.40923785e-095 2.88150878e+000
2.75416801e-120 2.88150878e+000 2.83510840e-119 2.88150878e+000
2.88150878e+000 1.91045883e-130]

*** 偏微分_バイアス1 ***

[-0.31957853 -1.39926592 1.57572536 -0.46312974 1.75872953 -0.94658769
1.59132969 -0.68993748 -0.44610305 1.97449951]

*** 偏微分_バイアス2 ***

2.881508778549378

順伝播開始

*** 総入力1 ***

```
[ 52.02598591 125.25167454 -112.26959106 89.43360434 -145.03806944
139.25428135 -136.1633614 72.54702025 77.12857622 -167.08719858]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.74556537e-49 1.00000000e+00
1.02510128e-63 1.00000000e+00 7.32830452e-60 1.00000000e+00
1.00000000e+00 2.72239826e-73]
```

*** 総入力2 ***

-7.149597687999954

*** 出力1 ***

-7.149597687999954

出力合計: -7.149597687999954

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.79510575 -6.26241308 6.51971075 -2.38906228 7.27690756 -4.38941465
6.58427512 -3.32750045 -2.31861275 8.16967599]
[ 1.81476376 6.3309921 -6.59110741 2.41522465 -7.35659621 4.43748266
-6.65637882 3.36393955 2.34400363 -8.25914125]]
```

*** 偏微分_重み2 ***

```
[-2.51753842e+00 -2.51753842e+00 -4.39452789e-49 -2.51753842e+00
-2.58073185e-63 -2.51753842e+00 -1.84492882e-59 -2.51753842e+00
-2.51753842e+00 -6.85374221e-73]
```

*** 偏微分_バイアス1 ***

```
[ 0.37905165 1.32236111 -1.37669167 0.50447056 -1.53658014 0.92686176
-1.39032498 0.70262966 0.48959455 -1.72509569]
```

*** 偏微分_バイアス2 ***

-2.517538419787991

順伝播開始

*** 総入力1 ***

```
[ 107.9250448 259.7510504 -202.75918642 191.3311502 -256.54614129
277.16719899 -254.54031072 156.21776744 161.76965673 -277.69588338]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 8.76605481e-089 1.00000000e+000
```

3.83200869e-112 1.00000000e+000 2.84805014e-111 1.00000000e+000
1.00000000e+000 2.50155584e-121]

*** 総入力2 ***

-5.916003862303837

*** 出力1 ***

-5.916003862303837

出力合計: -5.916003862303837

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.69813733 2.95484767 -3.29350492 0.99818113 -3.67601138 2.00868153
-3.32612034 1.47224368 0.96259276 -4.12700335]
[-0.08467121 -0.35836862 0.39944151 -0.12106099 0.44583251 -0.24361609
0.40339716 -0.17855605 -0.11674478 0.50052953]]

*** 偏微分_重み2 ***

[2.07759525e+000 2.07759525e+000 1.82123139e-088 2.07759525e+000
7.96136306e-112 2.07759525e+000 5.91709545e-111 2.07759525e+000
2.07759525e+000 5.19722053e-121]

*** 偏微分_バイアス1 ***

[-0.24082639 -1.01929127 1.13611298 -0.34432817 1.26806073 -0.69290595
1.14736385 -0.50785871 -0.33205177 1.42363294]

*** 偏微分_バイアス2 ***

2.0775952530849917

順伝播開始

*** 総入力1 ***

[-205.51800091 -483.65619498 355.95941618 -359.0202111 450.09240162
-511.85310647 454.49529905 -297.37560454 -307.1890212 487.99911102]

*** 中間層出力1 ***

[5.55477243e-090 8.92860031e-211 1.00000000e+000 1.20089055e-156
1.00000000e+000 5.07014426e-223 1.00000000e+000 7.10257613e-130
3.88600354e-134 1.00000000e+000]

*** 総入力2 ***

11.197606501586334

*** 出力1 ***

11.197606501586334

出力合計: 11.197606501586334

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 2.64936524  9.51883827 -6.20077039  3.56270477 -6.92092559  6.63868894
 -6.26217631  5.005761    3.45437303 -7.77002032]
 [ 0.12664446  0.45501772 -0.29640806  0.17030374 -0.33083279  0.31734136
 -0.29934338  0.23928445  0.16512529 -0.37142105]]
```

*** 偏微分_重み2 ***

```
[-1.73189516e-089 -2.78380435e-210 -3.11785079e+000 -3.74419754e-156
 -3.11785079e+000 -1.58079533e-222 -3.11785079e+000 -2.21447726e-129
 -1.21159792e-133 -3.11785079e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.57290413  2.05837296 -1.34086721  0.77040653 -1.49659504  1.43556361
 -1.35414575  1.08245595  0.74698066 -1.68020501]
```

*** 偏微分_バイアス2 ***

-3.117850790861267

順伝播開始

*** 総入力1 ***

```
[-185.84382324 -438.77196265  318.68728493 -325.3530633  401.53841291
 -461.30354685  407.71624784 -270.26741623 -277.90218627  431.98362206]
```

*** 中間層出力1 ***

```
[1.94559783e-081 2.77816355e-191 1.00000000e+000 5.02296255e-142
 1.00000000e+000 4.55423168e-201 1.00000000e+000 4.21068247e-118
 2.03523233e-121 1.00000000e+000]
```

*** 総入力2 ***

12.288854278387776

*** 出力1 ***

12.288854278387776

出力合計: 12.288854278387776

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.19161644  0.68845395 -0.49322087  0.25767411 -0.54530639  0.48014594
    -0.49766207  0.36204375  0.24983897 -0.60671752]
  [ 0.11159137  0.40093384 -0.28723626  0.15006126 -0.31756922  0.27962183
    -0.28982268  0.21084285  0.14549833 -0.35333312]]
```

*** 偏微分_重み2 ***

```
[-6.68886386e-082 -9.55118140e-192 -3.43794785e-001 -1.72686833e-142
 -3.43794785e-001 -1.56572110e-201 -3.43794785e-001 -1.44761067e-118
 -6.99702260e-122 -3.43794785e-001]
```

*** 偏微分_バイアス1 ***

```
[ 0.06317219  0.22696977 -0.16260525  0.0849501 -0.17977683  0.15829471
 -0.16406943  0.11935873  0.08236701 -0.20002288]
```

*** 偏微分_バイアス2 ***

-0.3437947848537828

順伝播開始

*** 総入力1 ***

```
[-263.53513006 -625.34068994  451.98379992 -464.13606099  567.52931516
 -654.73943355  578.68193834 -385.05481595 -394.6968307  604.5122513 ]
```

*** 中間層出力1 ***

```
[3.53302920e-115 2.61811698e-272 1.00000000e+000 2.68083362e-202
 1.00000000e+000 4.46968507e-285 1.00000000e+000 5.92677174e-168
 3.84896891e-172 1.00000000e+000]
```

*** 総入力2 ***

12.4091824530866

*** 出力1 ***

12.4091824530866

出力合計: 12.4091824530866

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.4618734  8.84520352 -6.40025761  3.31057718 -7.06944844
    6.16887829 -6.45731792  4.65151036  3.20991192 -7.85845394]
```



```
[ 4. 80795633 17. 27438637 -12. 49948886 6. 46544641 -13. 80639615
12. 0476128 -12. 61092573 9. 08424402 6. 26885053 -15. 34729746]]
```

*** 偏微分_重み2 ***

```
[-1. 85198310e-114 -1. 37239410e-271 -5. 24191281e+000 -1. 40526961e-201
-5. 24191281e+000 -2. 34296995e-284 -5. 24191281e+000 -3. 10676207e-167
-2. 01759594e-171 -5. 24191281e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0. 96319988 3. 46065682 -2. 50407977 1. 29525245 -2. 76589848 2. 41355337
-2. 52640443 1. 81988815 1. 2558675 -3. 07459429]
```

*** 偏微分_バイアス2 ***

```
-5. 241912813653521
```

順伝播開始

*** 総入力1 ***

```
[ 202. 3583886 489. 56701009 -366. 06340874 359. 46438246 -458. 66938652
512. 03413459 -462. 70484504 297. 0453079 303. 40392149 -487. 01636308]
```

*** 中間層出力1 ***

```
[1. 00000000e+000 1. 00000000e+000 1. 04877314e-159 1. 00000000e+000
6. 34477778e-200 1. 00000000e+000 1. 12160271e-201 1. 00000000e+000
1. 00000000e+000 3. 10085112e-212]
```

*** 総入力2 ***

```
-6. 324776449059684
```

*** 出力1 ***

```
-6. 324776449059684
```

出力合計: -6. 324776449059684

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 2. 13026646 7. 65378124 -10. 30645828 2. 8646524 -11. 24267948
5. 33794896 -10. 38628763 4. 02496592 2. 77754645 -12. 34652553]
[ 4. 36844587 15. 69528021 -21. 135011 5. 87441956 -23. 05487957
10. 9463025 -21. 29871362 8. 25382461 5. 69579513 -25. 31848923]]
```

*** 偏微分_重み2 ***

```
[7. 54665929e+000 7. 54665929e+000 7. 91473357e-159 7. 54665929e+000
```

4. 78818761e-199 7. 54665929e+000 8. 46435351e-201 7. 54665929e+000
7. 54665929e+000 2. 34010669e-211]

*** 偏微分_バイアス1 ***

[-1. 09056419 -3. 91826089 5. 27626687 -1. 46652421 5. 75555401 -2. 73269852
5. 31713455 -2. 0605327 -1. 42193137 6. 32065467]

*** 偏微分_バイアス2 ***

7. 546659287039537

順伝播開始

*** 総入力1 ***

[296. 05406324 714. 15651337 -540. 51732408 522. 23363851 -678. 36267947
748. 53896235 -680. 85717963 433. 02490745 442. 94257467 -727. 53232019]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 1. 80430012e-235 1. 00000000e+000
2. 45941363e-295 1. 00000000e+000 2. 02994337e-296 1. 00000000e+000
1. 00000000e+000 0. 00000000e+000]

*** 総入力2 ***

-10. 022639499709056

*** 出力1 ***

-10. 022639499709056

出力合計: -10. 022639499709056

誤差逆伝播開始

*** 偏微分_重み1 ***

[[12. 67321262 31. 79200643 -35. 67421447 15. 2151762 -38. 91479962
23. 77611047 -35. 95053144 19. 23142233 14. 9136724 -42. 73559236]
[7. 74039894 19. 41755576 -21. 7886861 9. 29295019 -23. 7679334
14. 52169909 -21. 9574518 11. 74594678 9. 10880117 -26. 10155321]]

*** 偏微分_重み2 ***

[1. 04972891e+001 1. 04972891e+001 1. 89402601e-234 1. 04972891e+001
2. 58171760e-294 1. 04972891e+001 2. 13089025e-295 1. 04972891e+001
1. 04972891e+001 0. 00000000e+000]

*** 偏微分_バイアス1 ***

[-2. 60724278 -6. 54052619 7. 33920757 -3. 13019748 8. 00588874 -4. 89142683

7. 39605388 -3. 95645433 -3. 06816952 8. 79193523]

*** 偏微分_バイアス2 ***

10. 497289142787837

順伝播開始

*** 総入力1 ***

[93. 29080828 228. 60586191 -179. 08175897 165. 11040433 -223. 25652064
237. 94139413 -222. 40942172 137. 17471965 139. 22179497 -237. 99429175]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 1. 68182293e-078 1. 00000000e+000
1. 09881615e-097 1. 00000000e+000 2. 56339436e-097 1. 00000000e+000
1. 00000000e+000 4. 36910384e-104]

*** 総入力2 ***

-15. 166311179675095

*** 出力1 ***

-15. 166311179675095

出力合計: -15. 166311179675095

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-4. 20559236 -8. 21687774 7. 48475329 -4. 73891792 8. 16465559 -6. 53507466
7. 54272694 -5. 58156048 -4. 67565986 8. 96629036]
[-4. 72240688 -9. 22662888 8. 40453552 -5. 32127145 9. 16798928 -7. 33815331
8. 46963341 -6. 26746421 -5. 25023977 10. 06813491]]

*** 偏微分_重み2 ***

[-8. 74324029e+000 -8. 74324029e+000 -1. 47045820e-077 -8. 74324029e+000
-9. 60721367e-097 -8. 74324029e+000 -2. 24123729e-096 -8. 74324029e+000
-8. 74324029e+000 -3. 82001247e-103]

*** 偏微分_バイアス1 ***

[3. 43474192 6. 71079173 -6. 11285966 3. 8703133 -6. 66814147 5. 3372493
-6. 16020722 4. 55850642 3. 81864992 -7. 32284319]

*** 偏微分_バイアス2 ***

-8. 743240293093534

順伝播開始

*** 総入力1 ***

[61.71414549 152.62442005 -122.47505309 110.08029643 -153.19134198
160.07944533 -151.42352742 90.65879532 92.41318083 -163.86086817]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 6.45297928e-54 1.00000000e+00
2.95015954e-67 1.00000000e+00 1.72821436e-66 1.00000000e+00
1.00000000e+00 6.85692113e-72]

*** 総入力2 ***

-10.882123436059265

*** 出力1 ***

-10.882123436059265

出力合計: -10.882123436059265

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.95344036 -4.63934126 5.0116867 -2.31054773 5.46693982 -3.51322931
5.05050505 -2.87476947 -2.26819102 6.00370332]
[-0.96768216 -2.29820569 2.48265568 -1.14458361 2.70817591 -1.74035992
2.50188525 -1.42408398 -1.12360122 2.9740742]]

*** 偏微分_重み2 ***

[-6.44034411e+00 -6.44034411e+00 -4.15594071e-53 -6.44034411e+00
-1.90000426e-66 -6.44034411e+00 -1.11302952e-65 -6.44034411e+00
-6.44034411e+00 -4.41609316e-71]

*** 偏微分_バイアス1 ***

[1.75508165 4.16824741 -4.50278368 2.07592718 -4.91180891 3.15648454
-4.53766029 2.582856 2.0378715 -5.3940677]

*** 偏微分_バイアス2 ***

-6.440344109895846

順伝播開始

*** 総入力1 ***

[-4.04659281 -0.81844292 1.07891392 -1.83978041 5.49151608 -6.82158825
2.49920126 -1.90236854 -4.8439491 16.46949957]

*** 中間層出力1 ***

[0.01718147 0.30609428 0.7462884 0.13707726 0.99589533 0.0010888
0.92408581 0.12984064 0.00781434 0.99999993]

*** 総入力2 ***

11.841429919421888

*** 出力1 ***

11.841429919421888

出力合計: 11.841429919421888

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-8.0115798 -23.77771286 20.9098076 -10.13524411 20.59297266
-17.4936978 19.6437777 -13.55546782 -9.92530301 22.57208302]
[11.09538515 32.93019466 -28.95837958 14.03648718 -28.519589
24.22734588 -27.20503134 18.7732183 13.74573586 -31.26049559]]

*** 偏微分_重み2 ***

[0.19128072 3.40773658 8.30840167 1.52607622 11.08726657 0.01212159
10.28781379 1.4455111 0.08699682 11.13296297]

*** 偏微分_バイアス1 ***

[-2.60276236 -7.72478558 6.79307472 -3.29268791 6.69014295 -5.68326589
6.3817732 -4.40383324 -3.22448328 7.33310653]

*** 偏微分_バイアス2 ***

11.132963748552008

順伝播開始

*** 総入力1 ***

[-114.10181662 -263.98990325 195.76326628 -197.52052272 251.35729225
-283.69551592 251.67353867 -162.8237364 -170.38797447 278.16981742]

*** 中間層出力1 ***

[2.79389877e-050 2.24203165e-115 1.00000000e+000 1.65168384e-086
1.00000000e+000 6.20301592e-124 1.00000000e+000 1.93441547e-071
1.00332794e-074 1.00000000e+000]

*** 総入力2 ***

10.407167843863524

*** 出力1 ***

10.407167843863524

出力合計: 10.407167843863524

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.10063166 -6.81937021 3.85752212 -2.86863408 3.96117577 -4.52364115
3.6539419 -3.74266556 -2.57901106 4.47723361]
[1.08377339 3.51829982 -1.99020129 1.48000687 -2.04367905 2.33387033
-1.88516868 1.93094364 1.33058242 -2.30992741]]

*** 偏微分_重み2 ***

[5.86186211e-050 4.70399305e-115 2.09809395e+000 3.46538787e-086
2.09809395e+000 1.30145102e-123 2.09809395e+000 4.05858539e-071
2.10507628e-074 2.09809395e+000]

*** 偏微分_バイアス1 ***

[-0.49757028 -1.61528362 0.91371961 -0.67948469 0.93827174 -1.07150122
0.86549818 -0.88651389 -0.61088256 1.0605088]

*** 偏微分_バイアス2 ***

2.098093949392549

順伝播開始

*** 総入力1 ***

[-43.99237029 -105.66555377 68.71613626 -75.31216264 81.98610019
-102.6422006 87.70583346 -66.71513356 -64.95715017 83.74721141]

*** 中間層出力1 ***

[7.84072707e-20 1.28834766e-46 1.00000000e+00 1.96039391e-33
1.00000000e+00 2.64885796e-45 1.00000000e+00 1.06166044e-29
6.15840322e-29 1.00000000e+00]

*** 総入力2 ***

9.672834961576132

*** 出力1 ***

9.672834961576132

出力合計: 9.672834961576132

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.02481512  6.57324373 -3.47175467  2.7650986  -3.57166723
    4.36037272 -3.27552213  3.6075843  2.48592872 -4.06909938]
  [ -4.94569497 -16.05542063  8.47990488 -6.75386809  8.72394546
    -10.65039133  8.00059875 -8.81167438 -6.07198408  9.93894411]]
```

*** 偏微分_重み2 ***

```
[5.90998557e-19 9.71098216e-46 7.53754789e+00 1.47765630e-32
 7.53754789e+00 1.99658937e-44 7.53754789e+00 8.00231641e-29
 4.64192592e-28 7.53754789e+00]
```

*** 偏微分_バイアス1 ***

```
[-1.7875557  -5.80301834  3.06494889 -2.44109583  3.15315411 -3.84944236
 2.89171006 -3.18486256 -2.19463793  3.59229922]
```

*** 偏微分_バイアス2 ***

7.537547887734013

順伝播開始

*** 総入力1 ***

```
[ 278.31102092  672.62234782 -513.7344322  490.30913661 -643.73664718
 703.76504902 -645.17065701  407.42053443  416.08599698 -690.67821365]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 7.72628870e-224 1.00000000e+000
 2.68365281e-280 1.00000000e+000 6.39652021e-281 1.00000000e+000
 1.00000000e+000 1.10220668e-300]
```

*** 総入力2 ***

-9.647037824878941

*** 出力1 ***

-9.647037824878941

出力合計: -9.647037824878941

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 8.21850464  26.68008233 -16.97082386  11.22323487 -17.62649759
    17.69827924 -15.68305258  14.64279282  10.09011468 -20.89088387]
```

```
[ 4. 83315032 15. 69006212 -9. 98022709  6. 60017649 -10. 36581667
10. 40803013 -9. 22291266  8. 61115517  5. 9338095  -12. 28554176]]
```

*** 偏微分_重み2 ***

```
[9. 57400913e+000 9. 57400913e+000 7. 39715586e-223 9. 57400913e+000
2. 56933165e-279 9. 57400913e+000 6. 12403429e-280 9. 57400913e+000
9. 57400913e+000 1. 05525368e-299]
```

*** 偏微分_バイアス1 ***

```
[-1. 7856371 -5. 79678992  3. 68725626 -2. 43847579  3. 8297147  -3. 84531072
3. 40746179 -3. 18144422 -2. 1922824  4. 53896894]
```

*** 偏微分_バイアス2 ***

9. 574009134051147

順伝播開始

*** 総入力1 ***

```
[-175. 87378214 -418. 58814181  307. 78480389 -305. 65290916  386. 05743428
-435. 57710088  389. 95147191 -256. 83964309 -261. 88207943  417. 15969329]
```

*** 中間層出力1 ***

```
[4. 15898069e-077 1. 61986873e-182 1. 00000000e+000 1. 80562755e-133
1. 00000000e+000 6. 78060808e-190 1. 00000000e+000 2. 85732916e-112
1. 84526182e-114 1. 00000000e+000]
```

*** 総入力2 ***

6. 364512561485647

*** 出力1 ***

6. 364512561485647

出力合計: 6. 364512561485647

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 6. 76338378 15. 66641291 -5. 06187758  8. 21240407 -5. 257445  11. 33497083
-4. 67777481  9. 86147354  7. 66596096 -6. 23111156]
[ 2. 55725696  5. 92352065 -1. 91391205  3. 10513615 -1. 98785671  4. 28578859
-1. 76868156  3. 72865457  2. 89852427 -2. 35600314]]
```

*** 偏微分_重み2 ***

```
[-2. 22753091e-076 -8. 67594236e-182 -5. 35595396e+000 -9. 67085804e-133
```


-5.35595396e+000 -3.63166247e-189 -5.35595396e+000 -1.53037234e-111
-9.88313733e-114 -5.35595396e+000]

*** 偏微分_バイアス1 ***

[2.16754727 5.0208138 -1.62224403 2.63193316 -1.68492 3.63266168
-1.49914575 3.16043134 2.45680761 -1.99696325]

*** 偏微分_バイアス2 ***

-5.3559539624554

順伝播開始

*** 総入力1 ***

[11.75446989 38.94705185 -32.58848683 24.03812475 -33.89789333
32.23870444 -36.39575034 21.8546763 17.95690186 -26.4439643]

*** 中間層出力1 ***

[9.99992146e-01 1.00000000e+00 7.03072316e-15 1.00000000e+00
1.89815634e-15 1.00000000e+00 1.56144418e-16 1.00000000e+00
9.99999984e-01 3.27742094e-12]

*** 総入力2 ***

-13.963372779039036

*** 出力1 ***

-13.963372779039036

出力合計: -13.963372779039036

誤差逆伝播開始

*** 偏微分_重み1 ***

[[11.91430727 27.59769161 -17.9256602 14.466834 -18.48266631
19.9674955 -16.83167637 17.37180726 13.50422902 -21.25581857]
[-18.26324637 -42.30404923 27.47795078 -22.17597277 28.33177632
-30.60784664 25.80100089 -26.62895869 -20.70041137 32.58269597]]

*** 偏微分_重み2 ***

[-1.37846670e+01 -1.37847752e+01 -9.69169386e-14 -1.37847752e+01
-2.61656585e-14 -1.37847752e+01 -2.15241571e-15 -1.37847752e+01
-1.37847750e+01 -4.51785111e-11]

*** 偏微分_バイアス1 ***

[4.38735598 10.16264686 -6.60099246 5.32730517 -6.80610587 7.35288329

-6.19814097 6.3970402 4.97283297 -7.82729878]

*** 偏微分_バイアス2 ***

-13.784775248744081

順伝播開始

*** 総入力1 ***

[-18.67690305 -47.35304197 25.79382335 -36.44919089 28.15565432
-44.96975045 37.33996169 -31.31807586 -30.42838928 20.34350332]

*** 中間層出力1 ***

[7.73969888e-09 2.72166815e-21 1.00000000e+00 1.48019021e-16
1.00000000e+00 2.95043145e-20 1.00000000e+00 2.50456594e-14
6.09703154e-14 9.99999999e-01]

*** 総入力2 ***

9.204030707365789

*** 出力1 ***

9.204030707365789

出力合計: 9.204030707365789

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.98973099 16.99195289 -9.19164039 6.10588027 -9.47725329
10.66617651 -8.63068442 8.514234 5.30783738 -10.89922705]
[-6.42462259 -27.36196619 14.80120355 -9.83223592 15.26112306
-17.17563383 13.89790196 -13.71038305 -8.54715569 17.55091271]]

*** 偏微分_重み2 ***

[6.63779179e-08 2.33418209e-20 8.57629204e+00 1.26945435e-15
8.57629204e+00 2.53037618e-19 8.57629204e+00 2.14798890e-13
5.22899231e-13 8.57629203e+00]

*** 偏微分_バイアス1 ***

[-1.40194044 -5.97075491 3.22982486 -2.14552823 3.33018559 -3.747958
3.03271211 -2.99179293 -1.86510616 3.82984898]

*** 偏微分_バイアス2 ***

8.576292042446976

順伝播開始

*** 総入力1 ***

[-67.37994152 -155.85211309 108.95776386 -109.69926714 138.90316986
-159.50941572 135.93306168 -95.97324018 -96.75131158 160.07944334]

*** 中間層出力1 ***

[5.46088722e-30 2.06199350e-68 1.00000000e+00 2.28146395e-48
1.00000000e+00 5.32035903e-70 1.00000000e+00 2.08617809e-42
9.58162710e-43 1.00000000e+00]

*** 総入力2 ***

6.2023285017856375

*** 出力1 ***

6.2023285017856375

出力合計: 6.2023285017856375

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.0695417 -4.55509458 1.69175574 -1.63682552 1.76832102 -2.85932071
1.54137823 -2.28244166 -1.42289126 2.1495147]
[0.95357087 4.06118387 -1.50831799 1.45934388 -1.57658128 2.54928343
-1.37424598 2.03495561 1.2686066 -1.91644197]]

*** 偏微分_重み2 ***

[9.90885752e-30 3.74151653e-68 1.81451422e+00 4.13974879e-48
1.81451422e+00 9.65386713e-70 1.81451422e+00 3.78539981e-42
1.73859986e-42 1.81451422e+00]

*** 偏微分_バイアス1 ***

[-0.29661314 -1.26325219 0.46917009 -0.45393644 0.49040374 -0.79296776
0.4274663 -0.63298344 -0.39460663 0.59611916]

*** 偏微分_バイアス2 ***

1.814514222452396

順伝播開始

*** 総入力1 ***

[-99.45821917 -236.23997589 169.02798947 -175.1116157 209.75823957
-244.65401166 217.3171871 -146.85222702 -149.46755174 220.08615359]

*** 中間層出力1 ***

[6.39505430e-044 2.52512027e-103 1.00000000e+000 8.91233670e-077
1.00000000e+000 5.59902958e-107 1.00000000e+000 1.67066029e-064
1.22198833e-065 1.00000000e+000]

*** 総入力2 ***

5.567248523927298

*** 出力1 ***

5.567248523927298

出力合計: 5.567248523927298

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.02666183 -0.11355063 0.03809942 -0.04080323 0.04000806 -0.07127792
0.03435077 -0.05689732 -0.03547022 0.04951056]
[0.39676849 1.68980603 -0.56697724 0.60721409 -0.5953807 1.06072383
-0.51119161 0.84671868 0.52785078 -0.73679234]]

*** 偏微分_重み2 ***

[-4.45636993e-044 -1.75962072e-103 -6.96846301e-001 -6.21052887e-077
-6.96846301e-001 -3.90166305e-107 -6.96846301e-001 -1.16419344e-064
-8.51538046e-066 -6.96846301e-001]

*** 偏微分_バイアス1 ***

[0.11391135 0.48513955 -0.1627779 0.17432982 -0.17093248 0.30453145
-0.14676197 0.24309105 0.15154478 -0.21153144]

*** 偏微分_バイアス2 ***

-0.6968463013808588

順伝播開始

*** 総入力1 ***

[56.39376518 143.07673534 -113.5828845 105.1568319 -139.41365349
149.059923 -142.51738826 85.46027951 86.71673834 -141.06145497]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 4.69439923e-50 1.00000000e+00
2.84066218e-61 1.00000000e+00 1.27492519e-62 1.00000000e+00
1.00000000e+00 5.46749629e-62]

*** 総入力2 ***
-7.887430447758285

*** 出力1 ***
-7.887430447758285

出力合計: -7.887430447758285

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.63573665 2.70755275 -1.52911604 0.97293072 -1.60269806 1.69958308
-1.3845978 1.3566856 0.84576798 -1.96903903]
[-1.95278771 -8.31677039 4.69697478 -2.98854432 4.92299616 -5.22059716
4.25305913 -4.16732142 -2.59793945 6.04828307]]

*** 偏微分_重み2 ***

[-4.03564428e+00 -4.03564428e+00 -1.89449254e-49 -4.03564428e+00
-1.14639021e-60 -4.03564428e+00 -5.14514456e-62 -4.03564428e+00
-4.03564428e+00 -2.20648701e-61]

*** 偏微分_バイアス1 ***

[0.51881527 2.20959372 -1.24788896 0.79399436 -1.30793816 1.38700459
-1.12994976 1.10717103 0.69021873 -1.6069036]

*** 偏微分_バイアス2 ***

-4.035644280443109

順伝播開始

*** 総入力1 ***

[196.02788191 476.36797862 -363.44530981 341.27506796 -455.06665499
493.52181986 -451.52778068 286.84494709 290.41079397 -493.49925801]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.43782979e-158 1.00000000e+000
2.32842815e-198 1.00000000e+000 8.01634549e-197 1.00000000e+000
1.00000000e+000 4.74236986e-215]

*** 総入力2 ***

-5.90996475034116

*** 出力1 ***

-5.90996475034116

出力合計: -5.90996475034116

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.43404409e+00 1.64003753e+01 -1.03079328e+01 4.70710493e+00
   -1.08039570e+01 9.60554523e+00 -9.33372002e+00 7.29403709e+00
     3.84988749e+00 -1.32735001e+01]
 [ 7.24057023e-03 4.87863264e-02 -3.06630892e-02 1.40022623e-02
   -3.21386163e-02 2.85736915e-02 -2.77650909e-02 2.16976299e-02
     1.14522908e-02 -3.94847858e-02]]
```

*** 偏微分_重み2 ***

```
[7.48231146e+000 7.48231146e+000 1.07582903e-157 7.48231146e+000
 1.74220247e-197 7.48231146e+000 5.99807938e-196 7.48231146e+000
 7.48231146e+000 3.54838883e-214]
```

*** 偏微分_バイアス1 ***

```
[-0.54633083 -3.68112917 2.31365632 -1.05652834 2.42499091 -2.15600266
 2.09499041 -1.6371755 -0.86412249 2.97928964]
```

*** 偏微分_バイアス2 ***

7.482311461173234

順伝播開始

*** 総入力1 ***

```
[-60.08786981 -140.69209965 97.67510646 -97.92616781 123.91407997
 -142.47370155 121.42176097 -86.38563285 -86.40714754 142.89950534]
```

*** 中間層出力1 ***

```
[8.01991399e-27 7.91038230e-62 1.00000000e+00 2.95941375e-43
 1.00000000e+00 1.33185701e-62 1.00000000e+00 3.04226009e-38
 2.97750586e-38 1.00000000e+00]
```

*** 総入力2 ***

5.56987802675949

*** 出力1 ***

5.56987802675949

出力合計: 5.56987802675949

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -1.19223645 -4.03040393  1.29558821 -1.65415643  1.35793273 -2.64959279
   1.17314091 -2.17985975 -1.47995702  1.66832581]
 [  1.04621384  3.53676852 -1.13690729  1.45155882 -1.19161598  2.32507623
  -1.02945708  1.91287511  1.29869499 -1.46399277]]
```

*** 偏微分_重み2 ***

```
[1.38352949e-26 1.36463398e-61 1.72511761e+00 5.10533678e-43
 1.72511761e+00 2.29760998e-62 1.72511761e+00 5.24825646e-38
 5.13654780e-38 1.72511761e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.3860531 -1.30506825  0.419519 -0.53562548  0.43970652 -0.85795357
  0.37986986 -0.70585127 -0.4792187  0.54021361]
```

*** 偏微分_バイアス2 ***

1.7251176129135253

順伝播開始

*** 総入力1 ***

```
[-18.37176204 -39.29287404  22.37821118 -27.7437244  29.08218666
 -39.30276635  29.18942546 -25.65321247 -25.76647107  36.20839687]
```

*** 中間層出力1 ***

```
[1.05013497e-08 8.61631615e-18 1.00000000e+00 8.93415714e-13
 1.00000000e+00 8.53150111e-18 1.00000000e+00 7.22688898e-12
 6.45303165e-12 1.00000000e+00]
```

*** 総入力2 ***

4.966086852605751

*** 出力1 ***

4.966086852605751

出力合計: 4.966086852605751

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -1.11569613 -3.77165623  1.09404211 -1.54796133  1.15238418 -2.47949172
   0.9794558 -2.03991505 -1.38494533  1.44285035]
 [  1.21813037  4.11793935 -1.19448825  1.69008267 -1.25818682  2.70713869]]
```

-1.06938155 2.22720363 1.51209987 -1.57532125]]

*** 偏微分_重み2 ***

[4.12764545e-08 3.38671687e-17 3.93058566e+00 3.51164699e-12
3.93058566e+00 3.35337959e-17 3.93058566e+00 2.84059062e-11
2.53641937e-11 3.93058566e+00]

*** 偏微分_バイアス1 ***

[-0.87960078 -2.97352628 0.86252902 -1.22039321 0.90852517 -1.95480005
0.77219062 -1.60824333 -1.09187346 1.13752504]

*** 偏微分_バイアス2 ***

3.9305856605454084

順伝播開始

*** 総入力1 ***

[4.88547262 16.712478 -20.43143512 7.42457854 -26.51276629
16.67471114 -20.1447588 6.74685314 5.98327908 -33.78419487]

*** 中間層出力1 ***

[9.92501106e-01 9.99999945e-01 1.33887634e-09 9.99403943e-01
3.05951015e-12 9.99999943e-01 1.78337393e-09 9.98826808e-01
9.97485790e-01 2.12672135e-15]

*** 総入力2 ***

-9.960029747121975

*** 出力1 ***

-9.960029747121975

出力合計: -9.960029747121975

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.8459381 -9.58763413 3.38802418 -3.9360358 3.62780884 -6.30292317
2.91707683 -5.18832003 -3.52465018 4.82161871]
[3.71369953 12.51102137 -4.42107431 5.1361814 -4.73397226 8.22476175
-3.80652934 6.77030244 4.59935925 -6.2917894]]

*** 偏微分_重み2 ***

[-9.21306905e+00 -9.28267836e+00 -1.24283591e-08 -9.27714587e+00
-2.84004502e-11 -9.28267834e+00 -1.65544875e-08 -9.27178851e+00

-9.25934026e+00 -1.97416713e-14]

*** 偏微分_バイアス1 ***

[1.63935011 5.52277967 -1.95160879 2.26728077 -2.08973232 3.63068255
-1.68032827 2.98863599 2.03030968 -2.77740446]

*** 偏微分_バイアス2 ***

-9.28267887092249

順伝播開始

*** 総入力1 ***

[48.20591941 119.27728152 -100.6025274 80.50269561 -128.38321642
124.28449371 -118.98731021 68.54097953 69.22540128 -148.97885194]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.03646751e-44 1.00000000e+00
1.75338602e-56 1.00000000e+00 2.11090048e-52 1.00000000e+00
1.00000000e+00 1.99207958e-65]

*** 総入力2 ***

-5.43134005058021

*** 出力1 ***

-5.43134005058021

出力合計: -5.43134005058021

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.32516455 -3.08797665 1.38960442 -0.77002196 1.48795254 -1.74074638
1.19644449 -1.28342769 -0.60167873 1.97759588]
[0.33568381 3.18787451 -1.43455894 0.79493262 -1.53608868 1.79706055
-1.23515017 1.32494733 0.62114339 -2.04157227]]

*** 偏微分_重み2 ***

[-1.62344228e+00 -1.62344228e+00 -3.30608746e-44 -1.62344228e+00
-2.84652101e-56 -1.62344228e+00 -3.42692509e-52 -1.62344228e+00
-1.62344228e+00 -3.23402623e-65]

*** 偏微分_バイアス1 ***

[0.07986717 0.75847124 -0.34131572 0.18913339 -0.36547207 0.42756348
-0.29387163 0.31523651 0.1477848 -0.48573864]

*** 偏微分_バイアス2 ***

-1.6234422841809595

順伝播開始

*** 総入力1 ***

[78.31452835 192.37162902 -153.67925288 135.63143719 -193.34436821
200.15957996 -187.66926781 113.82703942 115.30520689 -213.43716381]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.81112527e-67 1.00000000e+00
1.07549347e-84 1.00000000e+00 3.13525283e-82 1.00000000e+00
1.00000000e+00 2.02030773e-93]

*** 総入力2 ***

-4.635853331331539

*** 出力1 ***

-4.635853331331539

出力合計: -4.635853331331539

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.0847387 1.40381014 -0.66344993 0.29713053 -0.71040506 0.76059124
-0.57122804 0.54224993 0.21675708 -0.94417939]
[-0.04898303 -0.8114695 0.38350584 -0.17175568 0.41064815 -0.43965816
0.33019717 -0.31344643 -0.12529597 0.54578091]]

*** 偏微分_重み2 ***

[1.02744309e+00 1.02744309e+00 1.86082815e-67 1.02744309e+00
1.10500833e-84 1.02744309e+00 3.22129386e-82 1.02744309e+00
1.02744309e+00 2.07575121e-93]

*** 偏微分_バイアス1 ***

[-0.02758995 -0.45706444 0.21601167 -0.09674228 0.23129972 -0.24763976
0.18598528 -0.17655034 -0.07057361 0.30741395]

*** 偏微分_バイアス2 ***

1.0274430897955007

順伝播開始

*** 総入力1 ***

[325.47510983 792.96690868 -599.15330193 571.5700172 -747.13092185
820.13709423 -749.14471096 479.52665841 485.28090746 -800.77878569]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 6.18055048e-261 1.00000000e+000
0.00000000e+000 1.00000000e+000 0.00000000e+000 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-5.139300445331335

*** 出力1 ***

-5.139300445331335

出力合計: -5.139300445331335

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.09548726 34.65956587 -15.87570251 8.17781418 -16.99929248
19.26797184 -13.66892371 14.04327961 6.25455671 -22.59328158]
[2.8461222 31.8674741 -14.59679387 7.51902902 -15.62987012
17.71579009 -12.56778789 12.91198657 5.75070457 -20.77322083]]

*** 偏微分_重み2 ***

[1.67175191e+001 1.67175191e+001 1.03323471e-259 1.67175191e+001
0.00000000e+000 1.67175191e+001 0.00000000e+000 1.67175191e+001
1.67175191e+001 0.00000000e+000]

*** 偏微分_バイアス1 ***

[-0.68531042 -7.67328685 3.51472433 -1.81048759 3.76347609 -4.26573938
3.02616521 -3.10904393 -1.38469731 5.00193023]

*** 偏微分_バイアス2 ***

16.717519076048106

順伝播開始

*** 総入力1 ***

[-8.94098473 -17.45312259 4.75054263 -14.68829135 5.54955503
-17.18514703 9.59603256 -13.2366151 -13.50279563 4.51386896]

*** 中間層出力1 ***

[1.30894927e-04 2.63151079e-08 9.91427128e-01 4.17787977e-07
9.96125880e-01 3.44021400e-08 9.99932007e-01 1.78406358e-06
1.36712988e-06 9.89162743e-01]

*** 総入力2 ***

3.0877582055359065

*** 出力1 ***

3.0877582055359065

出力合計: 3.0877582055359065

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.57965599 1.47350066 -0.27916172 0.72357943 -0.29827424 1.03763512
-0.23941791 0.88968012 0.66911583 -0.39769755]
[-1.00060957 -2.54357565 0.48189253 -1.24905206 0.5148848 -1.79117899
0.41328625 -1.53577717 -1.15503629 0.68651059]]

*** 偏微分_重み2 ***

[3.68827382e-04 7.41490335e-08 2.79358016e+00 1.17721633e-06
2.80682000e+00 9.69361571e-08 2.81754466e+00 5.02702063e-06
3.85221141e-06 2.78719972e+00]

*** 偏微分_バイアス1 ***

[-0.97122165 -2.46887078 0.46773933 -1.21236737 0.49976262 -1.73857202
0.40114802 -1.49067137 -1.12111285 0.66634776]

*** 偏微分_バイアス2 ***

2.8177362498822296

順伝播開始

*** 総入力1 ***

[60.22929737 157.67527959 -120.67284424 111.86640196 -147.7600423
160.13183984 -150.13563445 92.97429846 92.39448439 -151.04811929]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 3.91245749e-53 1.00000000e+00
6.73952028e-65 1.00000000e+00 6.26501941e-66 1.00000000e+00
1.00000000e+00 2.51556353e-66]

*** 総入力2 ***

-13.528152863930746

*** 出力1 ***

-13.528152863930746

出力合計: -13.528152863930746

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 3.05642663  7.76937079 -1.81927596  3.81523899 -1.9844328
    5.47116958 -1.48504151  4.6910436  3.52806755 -2.82357256]
  [ -9.75105998 -24.7869848  5.80412069 -12.17193433  6.3310282
    -17.45492664  4.73779696 -14.96605448 -11.25575792  9.00817481]]
```

*** 偏微分_重み2 ***

```
[-9.52727978e+00 -9.52727978e+00 -3.72750771e-52 -9.52727978e+00
 -6.42092953e-64 -9.52727978e+00 -5.96885927e-65 -9.52727978e+00
 -9.52727978e+00 -2.39664776e-65]
```

*** 偏微分_バイアス1 ***

```
[ 2.5826463  6.56503136 -1.53726783  3.22383425 -1.6768235  4.62307706
 -1.25484345  3.96387934  2.98117759 -2.38588721]
```

*** 偏微分_バイアス2 ***

-9.527279781041212

順伝播開始

*** 総入力1 ***

```
[ 23.06411832  59.14090024 -50.82813737  36.99915349 -65.06635008
  59.89378355 -57.32260786  32.55338313  31.778458 -77.7121742 ]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 8.42597983e-23 1.00000000e+00
 5.52132361e-29 1.00000000e+00 1.27381898e-25 1.00000000e+00
 1.00000000e+00 1.77840867e-34]
```

*** 総入力2 ***

-8.859785771152014

*** 出力1 ***

-8.859785771152014

出力合計: -8.859785771152014

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.57336976 -10.25905899  2.96680572 -3.81081196  3.23613717
  -6.51124028  2.42174895 -5.23904065 -3.34250375  4.60457424]
 [ 2.9549875  11.78042563 -3.40676803  4.37593613 -3.71603997
  7.47682433 -2.78088208  6.01596392  3.83818017 -5.28740935]]
```

*** 偏微分_重み2 ***

```
[-7.01647761e+00 -7.01647761e+00 -5.91206988e-22 -7.01647761e+00
 -3.87402435e-28 -7.01647761e+00 -8.93772238e-25 -7.01647761e+00
 -7.01647761e+00 -1.24781646e-33]
```

*** 偏微分_バイアス1 ***

```
[ 0.98200308  3.91487755 -1.13213903  1.45421351 -1.23491645  2.48470239
 -0.92414427  1.99922845  1.27550615 -1.75711479]
```

*** 偏微分_バイアス2 ***

-7.0164776139326275

順伝播開始

*** 総入力1 ***

```
[-264.59636799 -644.71412363  472.16433419 -459.60172575  589.43878501
 -659.99470214  591.47477266 -391.06032658 -393.27854737  639.49344943]
```

*** 中間層出力1 ***

```
[1.22252417e-115 1.00974963e-280 1.00000000e+000 2.49750653e-200
 1.00000000e+000 2.33315063e-287 1.00000000e+000 1.46102644e-170
 1.58963357e-171 1.00000000e+000]
```

*** 総入力2 ***

3.2881243748174445

*** 出力1 ***

3.2881243748174445

出力合計: 3.2881243748174445

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 3.75002047  39.87582631 -8.62508853  9.56649253 -9.4080881
```

```
22. 25958303 -7. 04050113 16. 2797372 7. 36525708 -13. 38640416]
[ 1. 1383887 12. 10505124 -2. 61830659 2. 90408734 -2. 85600072
 6. 75731184 -2. 13727551 4. 94201804 2. 23586124 -4. 0636928 ]]
```

*** 偏微分_重み2 ***

```
[-1. 72376763e-114 -1. 42375404e-279 -1. 41000700e+001 -3. 52150168e-199
-1. 41000700e+001 -3. 28975871e-286 -1. 41000700e+001 -2. 06005750e-169
-2. 24139446e-170 -1. 41000700e+001]
```

*** 偏微分_バイアス1 ***

```
[ 0. 77793234 8. 2721402 -1. 78925299 1. 98454489 -1. 95168429 4. 61769469
-1. 46053431 3. 37719067 1. 52790412 -2. 77697598]
```

*** 偏微分_バイアス2 ***

```
-14. 100069972725796
```

順伝播開始

*** 総入力1 ***

```
[-331. 86426876 -826. 40821463 597. 41034771 -582. 32323375 743. 46497794
-837. 90626022 748. 1159383 -497. 46310464 -496. 31713961 801. 72952707]
```

*** 中間層出力1 ***

```
[7. 46757060e-145 0. 00000000e+000 1. 00000000e+000 1. 25960071e-253
1. 00000000e+000 0. 00000000e+000 1. 00000000e+000 9. 00572546e-217
2. 83272876e-216 1. 00000000e+000]
```

*** 総入力2 ***

```
8. 223148865271474
```

*** 出力1 ***

```
8. 223148865271474
```

出力合計: 8. 223148865271474

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3. 24881118 34. 5462195 -18. 89932435 8. 2878822 -19. 57767205
19. 28447666 -17. 52652511 14. 10386761 6. 38085304 -23. 02426595]
[ 3. 17030082 33. 71137992 -18. 44260566 8. 08759828 -19. 1045605
18. 81845042 -17. 10298131 13. 76303532 6. 22665415 -22. 46786444]]
```

*** 偏微分_重み2 ***

```
[-1.00454688e-143  0.00000000e+000 -1.34521243e+001 -1.69443053e-252  
-1.34521243e+001  0.00000000e+000 -1.34521243e+001 -1.21146138e-215  
-3.81062194e-215 -1.34521243e+001]
```

*** 偏微分_バイアス1 ***

```
[ 0.74218373  7.8920075 -4.31750888  1.89334837 -4.47247592  4.40549608  
-4.00389593  3.22199739  1.45769178 -5.25984268]
```

*** 偏微分_バイアス2 ***

-13.452124285825308

順伝播開始

*** 総入力1 ***

```
[-198.42101373 -498.22611535  355.00379114 -343.7497748  442.45570596  
-499.25565298  441.2822447 -298.15342682 -294.7009887  484.95614424]
```

*** 中間層出力1 ***

```
[6.71194896e-087 4.19901441e-217 1.00000000e+000 5.14481365e-150  
1.00000000e+000 1.49977065e-217 1.00000000e+000 3.26296167e-130  
1.03035479e-128 1.00000000e+000]
```

*** 総入力2 ***

12.931392365310332

*** 出力1 ***

12.931392365310332

出力合計: 12.931392365310332

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.01317329 -0.14007812  0.12083815 -0.03360573  0.12358872 -0.07819476  
  0.11527172 -0.05718841 -0.0258731  0.13756398]  
[ 0.00058077  0.00617561 -0.00532738  0.00148157 -0.00544864  0.00344736  
-0.00508197  0.00252126  0.00114066 -0.00606477]]
```

*** 偏微分_重み2 ***

```
[3.62376077e-088 2.26703507e-218 5.39896950e-002 2.77766920e-151  
5.39896950e-002 8.09721598e-219 5.39896950e-002 1.76166305e-131  
5.56285408e-130 5.39896950e-002]
```

*** 偏微分_バイアス1 ***


```
[-0.00297873 -0.03167433  0.02732381 -0.0075989  0.02794577 -0.01768133  
 0.02606513 -0.01293139 -0.0058504  0.03110584]
```

*** 偏微分_バイアス2 ***

0.053989694976799285

順伝播開始

*** 総入力1 ***

```
[-240.10565073 -605.33020222  432.88444655 -418.23516063  538.66398247  
-606.73010011  538.42262514 -361.87815937 -357.68489545  587.42019874]
```

*** 中間層出力1 ***

```
[5.28981901e-105 1.28361104e-263 1.00000000e+000 2.30556621e-182  
1.00000000e+000 3.16566909e-264 1.00000000e+000 6.89147628e-158  
4.56481988e-156 1.00000000e+000]
```

*** 総入力2 ***

12.912495972068452

*** 出力1 ***

12.912495972068452

出力合計: 12.912495972068452

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.68398948  7.27319915 -6.26500088  1.74489187 -6.40781703  4.06006333  
-5.97597816  2.96936218  1.34339489 -7.13344675]  
[ 0.12904368  1.37218546 -1.18197549  0.32919699 -1.20891965  0.76598478  
-1.12744752  0.56020955  0.25344926 -1.34581932]]
```

*** 偏微分_重み2 ***

```
[-1.42004506e-104 -3.44583721e-263 -2.68448704e+000 -6.18926261e-182  
-2.68448704e+000 -8.49819764e-264 -2.68448704e+000 -1.85000788e-157  
-1.22541998e-155 -2.68448704e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.14810914  1.57491794 -1.35660554  0.37783394 -1.38753055  0.87915461  
-1.29402138  0.64297728  0.29089492 -1.54465635]
```

*** 偏微分_バイアス2 ***

-2.684487040164637

順伝播開始

*** 総入力1 ***

[279.76560379 722.57009447 -533.55646413 498.61265088 -660.23379774
725.04821713 -660.39552015 426.89519454 421.2947177 -708.08248055]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.90270668e-232 1.00000000e+000
1.83698189e-287 1.00000000e+000 1.56267882e-287 1.00000000e+000
1.00000000e+000 3.04569188e-308]

*** 総入力2 ***

-3.3089233281791186

*** 出力1 ***

-3.3089233281791186

出力合計: -3.3089233281791186

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.93139708 20.53750247 -30.69359863 4.92709198 -31.34561684
11.46449576 -29.37408341 8.38465742 3.79337557 -34.65843414]
[3.26295344 34.69660114 -51.85457924 8.32395982 -52.95611609
19.36842307 -49.62535526 14.16526254 6.40862926 -58.55287747]]

*** 偏微分_重み2 ***

[1.52770294e+001 1.52770294e+001 2.90677058e-231 1.52770294e+001
2.80636262e-286 1.52770294e+001 2.38730902e-286 1.52770294e+001
1.52770294e+001 4.65291242e-307]

*** 偏微分_バイアス1 ***

[-0.66287149 -7.04864108 10.53429747 -1.69101881 10.75807552 -3.93470997
10.08142891 -2.87768393 -1.30191794 11.89506188]

*** 偏微分_バイアス2 ***

15.277029366939587

順伝播開始

*** 総入力1 ***

[155.09483533 402.98155915 -305.03256785 272.6264067 -377.99167455
402.38055173 -371.55737472 235.62924882 231.20317933 -413.14677685]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.35767753e-133 1.00000000e+000
6.92311485e-165 1.00000000e+000 4.31203671e-162 1.00000000e+000
1.00000000e+000 3.73795954e-180]

*** 総入力2 ***

-10.794667717979515

*** 出力1 ***

-10.794667717979515

出力合計: -10.794667717979515

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.27945762 -0.73999347 0.75972388 -0.35360666 0.77586254 -0.51541961
0.72706341 -0.43918786 -0.32554507 0.85786096]
[0.03286304 0.08702012 -0.08934033 0.04158266 -0.09123817 0.06061118
-0.0854996 0.05164664 0.03828273 -0.10088084]]

*** 偏微分_重み2 ***

[-2.89982034e-001 -2.89982034e-001 -9.73666159e-134 -2.89982034e-001
-2.00757893e-165 -2.89982034e-001 -1.25041318e-162 -2.89982034e-001
-2.89982034e-001 -1.08394111e-180]

*** 偏微分_バイアス1 ***

[0.07355258 0.19476453 -0.19995753 0.09306844 -0.20420519 0.13565722
-0.19136137 0.11559321 0.08568269 -0.22578697]

*** 偏微分_バイアス2 ***

-0.2899820339083963

順伝播開始

*** 総入力1 ***

[-189.17394661 -484.27537157 350.81143087 -331.31165923 433.02038243
-481.00314658 433.97395846 -288.32844179 -282.97458189 470.34086018]

*** 中間層出力1 ***

[6.96303965e-083 4.80704740e-211 1.00000000e+000 1.29770090e-144
1.00000000e+000 1.26761585e-209 1.00000000e+000 6.03321432e-126
1.27555905e-123 1.00000000e+000]

*** 総入力2 ***

12. 802973122813892

*** 出力1 ***

12. 802973122813892

出力合計: 12. 802973122813892

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 62327605 -1. 66683177 1. 06475014 -0. 7912948 1. 08736843 -1. 15795644
1. 01897662 -0. 98521836 -0. 72770834 1. 20228889]
[-0. 33849054 -0. 90522777 0. 57824755 -0. 42973864 0. 59053116 -0. 62886629
0. 55338874 -0. 5350552 -0. 39520593 0. 65294249]]

*** 偏微分_重み2 ***

[4. 60073628e-083 3. 17619294e-211 6. 60736764e-001 8. 57438696e-145
6. 60736764e-001 8. 37560397e-210 6. 60736764e-001 3. 98636651e-126
8. 42808759e-124 6. 60736764e-001]

*** 偏微分_バイアス1 ***

[-0. 20974795 -0. 56093051 0. 35831501 -0. 26629046 0. 36592663 -0. 38968125
0. 34291108 -0. 33155058 -0. 24489203 0. 40460023]

*** 偏微分_バイアス2 ***

0. 6607367637570079

順伝播開始

*** 総入力1 ***

[-39. 27320036 -94. 93422419 61. 70273866 -66. 00423454 77. 09477894
-94. 16211625 78. 49916505 -58. 54526725 -57. 82351148 85. 95632546]

*** 中間層出力1 ***

[8. 78750932e-18 5. 89644555e-42 1. 00000000e+00 2. 16135029e-29
1. 00000000e+00 1. 27618169e-41 1. 00000000e+00 3. 75071005e-26
7. 71912439e-26 1. 00000000e+00]

*** 総入力2 ***

12. 571715255498939

*** 出力1 ***

12. 571715255498939

出力合計: 12. 571715255498939

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-3.10067591 -8.29216067  5.20810023 -3.93653619  5.32062174 -5.76060584
  4.98038596 -4.90126782 -3.62020608  5.89232849]
 [ 0.8445369  2.25855132 -1.41854001  1.07220173 -1.4491877  1.56902699
 -1.35651705  1.33496749  0.98604231 -1.60490454]]
```

*** 偏微分_重み2 ***

```
[8.98670520e-17 6.03010659e-41 1.02266807e+01 2.21034393e-28
 1.02266807e+01 1.30511026e-40 1.02266807e+01 3.83573141e-25
 7.89410205e-25 1.02266807e+01]
```

*** 偏微分_バイアス1 ***

```
[-3.24641439 -8.68191017  5.45289221 -4.12156191  5.57070248 -6.03136678
 5.21447488 -5.13163801 -3.7903636  6.16928069]
```

*** 偏微分_バイアス2 ***

10.226680699409158

順伝播開始

*** 総入力1 ***

```
[ 251.07412021  657.48757752 -496.48097298  446.93934362 -611.19999044
 654.41526456 -607.93617128  385.59532004  377.81376831 -659.16170094]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 2.40465659e-216 1.00000000e+000
 3.62423886e-266 1.00000000e+000 9.47710000e-265 1.00000000e+000
 1.00000000e+000 5.36674055e-287]
```

*** 総入力2 ***

-11.414695743786032

*** 出力1 ***

-11.414695743786032

出力合計: -11.414695743786032

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 4.58958784 12.27396891 -9.17389847  5.82681942 -9.44318407
   8.5267881  -8.62893446  7.25480501  5.35859091 -10.81138822]
 [ 4.16502804 11.13856547 -8.32526703  5.28780952 -8.56964237
   7.73801761 -7.83071492  6.58369931  4.86289449 -9.8112808 ]]
```

*** 偏微分_重み2 ***

```
[5.29680977e+000 5.29680977e+000 1.27370086e-215 5.29680977e+000
 1.91969038e-265 5.29680977e+000 5.01983959e-264 5.29680977e+000
 5.29680977e+000 2.84266038e-286]
```

*** 偏微分_バイアス1 ***

```
[-1.32237156 -3.5364281  2.64322262 -1.67884798  2.72081034 -2.45677443
 2.48620528 -2.09028526 -1.54393999  3.11502313]
```

*** 偏微分_バイアス2 ***

5.296809773428665

順伝播開始

*** 総入力1 ***

```
[-226.41131177 -580.07948468  421.90346794 -396.27023147  520.80691085
 -576.10274299  520.88823643 -344.91419069 -338.36501022  566.34774846]
```

*** 中間層出力1 ***

```
[4.68615509e-099 1.18762885e-252 1.00000000e+000 7.98040865e-173
 1.00000000e+000 6.33516181e-251 1.00000000e+000 1.60572161e-150
 1.12187170e-147 1.00000000e+000]
```

*** 総入力2 ***

8.621600326565725

*** 出力1 ***

8.621600326565725

出力合計: 8.621600326565725

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 9.16898265 21.05109825 -8.77361431 11.08207474 -9.03115019
 15.25695098 -8.25242868 13.29012373 10.3580678 -10.33965557]
 [ 4.01240281  9.21208917 -3.83938721  4.84958359 -3.95208648
  6.67653494 -3.6113132  5.81583932  4.53275373 -4.52469643]]
```

*** 偏微分_重み2 ***

[-2.78671531e-098 -7.06247113e-252 -5.94669885e+000 -4.74570870e-172
-5.94669885e+000 -3.76732995e-250 -5.94669885e+000 -9.54874288e-150
-6.67143315e-147 -5.94669885e+000]

*** 偏微分_バイアス1 ***

[2.43897748 5.59965663 -2.33380829 2.94786583 -2.40231362 4.05839571
-2.19517131 3.53521363 2.75527777 -2.75038006]

*** 偏微分_バイアス2 ***

-5.94669885280234

順伝播開始

*** 総入力1 ***

[95.02180015 256.71857567 -200.14644943 172.95085557 -243.09527353
253.005108 -242.92017733 148.92965219 144.44658339 -256.77276344]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.19536749e-087 1.00000000e+000
2.66111797e-106 1.00000000e+000 3.17035171e-106 1.00000000e+000
1.00000000e+000 3.05496146e-112]

*** 総入力2 ***

-13.593863613069917

*** 出力1 ***

-13.593863613069917

出力合計: -13.593863613069917

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.20950353 0.48099986 -0.39171566 0.25321607 -0.40122978
0.34860848 -0.37246158 0.30366813 0.23667312 -0.4495697]
[-7.71513076 -17.71319479 14.42523464 -9.32487922 14.77559919
-12.83777889 13.71618794 -11.18281563 -8.71567224 16.55575462]]

*** 偏微分_重み2 ***

[-7.35279797e+000 -7.35279797e+000 -8.78929563e-087 -7.35279797e+000
-1.95666628e-105 -7.35279797e+000 -2.33109556e-105 -7.35279797e+000
-7.35279797e+000 -2.24625144e-111]

*** 偏微分_バイアス1 ***

[2.37167045 5.44512619 -4.43439051 2.86651531 -4.54209436 3.94639854
-4.21642595 3.43765442 2.67924199 -5.0893232]

*** 偏微分_バイアス2 ***

-7.352797972173545

順伝播開始

*** 総入力1 ***

[-60.49169519 -150.20611853 102.42448493 -103.44787088 126.81620913
-148.46884894 128.37049159 -91.23809927 -89.57603438 139.21705076]

*** 中間層出力1 ***

[5.35538352e-27 5.83863836e-66 1.00000000e+00 1.18347888e-45
1.00000000e+00 3.31740253e-65 1.00000000e+00 2.37572927e-40
1.25205256e-39 1.00000000e+00]

*** 総入力2 ***

11.217640783098693

*** 出力1 ***

11.217640783098693

出力合計: 11.217640783098693

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.3020234 -6.64901315 3.87913879 -3.0019149 3.97335651 -4.52926447
3.68846664 -3.80971434 -2.73704197 4.45206415]
[-0.44378518 -1.28179996 0.74782225 -0.5787106 0.76598558 -0.87315379
0.71106438 -0.73443857 -0.52764827 0.85827107]]

*** 偏微分_重み2 ***

[4.04348127e-26 4.40835371e-65 7.55031129e+00 8.93563393e-45
7.55031129e+00 2.50474218e-64 7.55031129e+00 1.79374955e-39
9.45338656e-39 7.55031129e+00]

*** 偏微分_バイアス1 ***

[-2.12515416 -6.13815568 3.58109651 -2.77127155 3.66807529 -4.18127169
3.40507409 -3.51700608 -2.52674936 4.11000282]

*** 偏微分_バイアス2 ***

7.550311288102524

順伝播開始

*** 総入力1 ***

[36.93994226 105.9287256 -88.03169435 70.93164702 -106.1155107
104.69749361 -106.02979474 59.75821111 57.77924975 -109.28524725]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 5.86571437e-39 1.00000000e+00
8.21522117e-47 1.00000000e+00 8.95045730e-47 1.00000000e+00
1.00000000e+00 3.45159765e-48]

*** 総入力2 ***

-10.519514396872056

*** 出力1 ***

-10.519514396872056

出力合計: -10.519514396872056

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.1588252 3.34707458 -2.46550018 1.51114651 -2.54218352
2.28000542 -2.31031303 1.91778806 1.37781102 -2.93180135]
[-4.01755729 -11.60404853 8.5476983 -5.23902802 8.81355353
-7.90460233 8.00967648 -6.64882278 -4.77676418 10.1643284]]

*** 偏微分_重み2 ***

[-7.91890954e+00 -7.91890954e+00 -4.64500615e-38 -7.91890954e+00
-6.50555933e-46 -7.91890954e+00 -7.08778617e-46 -7.91890954e+00
-7.91890954e+00 -2.73328895e-47]

*** 偏微分_バイアス1 ***

[1.75291489 5.06300421 -3.72947703 2.28585918 -3.84547328 3.44888551
-3.49473079 2.90097181 2.08416718 -4.43483473]

*** 偏微分_バイアス2 ***

-7.9189095409532495

順伝播開始

*** 総入力1 ***

[-189.79251128 -480.6599516 345.02739371 -327.57717334 427.42960506
-476.90637292 425.35134988 -286.69721111 -281.09548566 469.23396562]

*** 中間層出力1 ***

[3.75110865e-083 1.78663299e-209 1.00000000e+000 5.43301898e-143
1.00000000e+000 7.62419257e-208 1.00000000e+000 3.08306896e-125
8.35183086e-123 1.00000000e+000]

*** 総入力2 ***

9.129355500129536

*** 出力1 ***

9.129355500129536

出力合計: 9.129355500129536

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.7901565 8.44916055 -4.64041939 2.86229621 -4.78474827 5.20199048
-4.34833527 4.09973638 2.45654648 -5.51806403]
[-0.1281623 -0.60489899 0.33222058 -0.20491978 0.34255349 -0.37242502
0.31130946 -0.29351157 -0.17587102 0.39505361]]

*** 偏微分_重み2 ***

[-1.11051709e-082 -5.28933350e-209 -2.96050365e+000 -1.60844725e-142
-2.96050365e+000 -2.25714499e-207 -2.96050365e+000 -9.12743691e-125
-2.47256257e-122 -2.96050365e+000]

*** 偏微分_バイアス1 ***

[0.42301112 1.99652315 -1.09652369 0.67635602 -1.13062838 1.22922205
-1.02750468 0.96876116 0.58047801 -1.30390972]

*** 偏微分_バイアス2 ***

-2.9605036482237868

順伝播開始

*** 総入力1 ***

[181.52624235 479.62295453 -363.67108362 325.38510181 -446.32121641
476.16622155 -444.88601163 280.48315156 274.12424153 -478.30728097]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.14724231e-158 1.00000000e+000

1. 46271110e-194 1. 00000000e+000 6. 14412543e-194 1. 00000000e+000
1. 00000000e+000 1. 87839628e-208]

*** 総入力2 ***

-6. 432013466429298

*** 出力1 ***

-6. 432013466429298

出力合計: -6. 432013466429298

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1. 08435545 5. 11792867 -5. 0445678 1. 733785 -5. 18591727
3. 15101318 -4. 75851324 2. 48334237 1. 48800932 -5. 90409503]
[2. 17330292 10. 25753074 -10. 11049833 3. 47491223 -10. 39379586
6. 31537026 -9. 53717783 4. 97720119 2. 98232007 -11. 83319273]]

*** 偏微分_重み2 ***

[5. 61420329e+000 5. 61420329e+000 6. 44085154e-158 5. 61420329e+000
8. 21195745e-194 5. 61420329e+000 3. 44943692e-193 5. 61420329e+000
5. 61420329e+000 1. 05456986e-207]

*** 偏微分_バイアス1 ***

[-0. 63087626 -2. 97760269 2. 93492146 -1. 00871333 3. 01715835 -1. 83325441
2. 76849538 -1. 44480461 -0. 86572144 3. 43499303]

*** 偏微分_バイアス2 ***

5. 614203291929625

順伝播開始

*** 総入力1 ***

[-105. 85500809 -261. 08121035 180. 9710266 -176. 85220276 226. 29870816
-258. 38235277 222. 7073895 -157. 00933922 -153. 81209307 254. 86917138]

*** 中間層出力1 ***

[1. 06599239e-046 4. 11027628e-114 1. 00000000e+000 1. 56337884e-077
1. 00000000e+000 6. 10899781e-113 1. 00000000e+000 6. 48202004e-069
1. 58583036e-067 1. 00000000e+000]

*** 総入力2 ***

9. 772537546572787

*** 出力1 ***

9.772537546572787

出力合計: 9.772537546572787

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.9465803 -9.44137401 5.02387829 -3.99228116 5.16464804 -6.27427882
4.73899694 -5.19920619 -3.59653718 5.87988031]
[1.89853795 6.08325755 -3.23698071 2.57230298 -3.32768135 4.04263764
-3.05342622 3.34994782 2.31731757 -3.78851915]]

*** 偏微分_重み2 ***

[3.37370755e-046 1.30084138e-113 3.16485144e+000 4.94786177e-077
3.16485144e+000 1.93340705e-112 3.16485144e+000 2.05146304e-068
5.01891749e-067 3.16485144e+000]

*** 偏微分_バイアス1 ***

[-0.76315141 -2.44527459 1.30116251 -1.03398336 1.33762126 -1.62501078
1.22737949 -1.34657167 -0.9314874 1.52286329]

*** 偏微分_バイアス2 ***

3.1648514360482105

順伝播開始

*** 総入力1 ***

[165.99523335 441.68840019 -336.621035 298.48680525 -411.97934426
437.05949955 -410.85717511 257.68057825 251.10022512 -440.50530651]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 6.41714728e-147 1.00000000e+000
1.20127967e-179 1.00000000e+000 3.68974198e-179 1.00000000e+000
1.00000000e+000 4.90880900e-192]

*** 総入力2 ***

-9.40451267999819

*** 出力1 ***

-9.40451267999819

出力合計: -9.40451267999819

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.37405511  1.19853994 -0.92189322  0.50680213 -0.95078584  0.79649146
    -0.86342208  0.66001583  0.45656421 -1.09758538]
  [ 1.07567966  3.44667138 -2.65111147  1.45742359 -2.7341987   2.29049048
    -2.48296453  1.89802408  1.31295315 -3.15635381]]
```

*** 偏微分_重み2 ***

```
[1.57254290e+000 1.57254290e+000 1.00912394e-146 1.57254290e+000
 1.88906382e-179 1.57254290e+000 5.80227755e-179 1.57254290e+000
 1.57254290e+000 7.71931274e-192]
```

*** 偏微分_バイアス1 ***

```
[-0.29821518 -0.95553516  0.73497875 -0.40404765  0.75801337 -0.63500228
 0.68836267 -0.52619717 -0.36399551  0.8750492 ]
```

*** 偏微分_バイアス2 ***

1.572542900032916

順伝播開始

*** 総入力1 ***

```
[ -64.03045985 -156.82723612  106.51908157 -107.63597591  133.0127823
 -155.54690487  132.88545018  -95.28491806  -93.74914466  148.71844558]
```

*** 中間層出力1 ***

```
[1.55569557e-28 7.77672497e-69 1.00000000e+00 1.79593084e-47
 1.00000000e+00 2.79793446e-68 1.00000000e+00 4.15227280e-42
 1.92869604e-41 1.00000000e+00]
```

*** 総入力2 ***

8.55476154095361

*** 出力1 ***

8.55476154095361

出力合計: 8.55476154095361

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.35156674 -7.0038937   3.21742112 -3.10061937  3.31825679 -4.73525161
  3.01335595 -3.96515951 -2.81714148  3.83058937]
```

```
[ 1.08554419  3.23317895 -1.48524502  1.4313263  -1.53179338  2.18591494  
-1.39104325  1.83042045  1.30046556 -1.76829938]]
```

*** 偏微分_重み2 ***

```
[7.18833902e-28 3.59335957e-68 4.62065919e+00 8.29838433e-47  
4.62065919e+00 1.29283016e-67 4.62065919e+00 1.91862375e-41  
8.91184709e-41 4.62065919e+00]
```

*** 偏微分_バイアス1 ***

```
[-1.24135353 -3.69724066  1.69842387 -1.63676614  1.75165336 -2.4996617  
1.59070121 -2.0931427  -1.48712281  2.02210533]
```

*** 偏微分_バイアス2 ***

4.620659190871984

順伝播開始

*** 総入力1 ***

```
[ 299.33831968  785.74712342 -590.48454524  531.45910887 -725.28381091  
778.00618944 -721.59835975  460.77448296  449.62975236 -782.2785363 ]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 3.59600554e-257 1.00000000e+000  
0.00000000e+000 1.00000000e+000 0.00000000e+000 1.00000000e+000  
1.00000000e+000 0.00000000e+000]
```

*** 総入力2 ***

-10.498504844375358

*** 出力1 ***

-10.498504844375358

出力合計: -10.498504844375358

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 7.51066241  22.36971638 -13.74009334  9.90305949 -14.26080273  
15.12390682 -12.68631302  12.6643118  8.99766027 -16.90645748]  
[ 7.67779685  22.8675087 -14.04585104 10.12343184 -14.57814775  
15.46045845 -12.96862098  12.94613018  9.19788481 -17.28267614]]
```

*** 偏微分_重み2 ***

```
[9.13398197e+000 9.13398197e+000 3.28458497e-256 9.13398197e+000
```

0.00000000e+000 9.13398197e+000 0.00000000e+000 9.13398197e+000
9.13398197e+000 0.00000000e+000]

*** 偏微分_バイアス1 ***

[-1.92984115 -5.74782846 3.53047389 -2.54456008 3.66426853 -3.88604042
3.25970834 -3.2540552 -2.31192059 4.34406122]

*** 偏微分_バイアス2 ***

9.13398197103309

順伝播開始

*** 総入力1 ***

[-209.99069713 -543.81023044 394.43024061 -368.74225527 483.5735107
-534.95360004 485.51787698 -322.8305589 -314.3171473 522.44774412]

*** 中間層出力1 ***

[6.34160205e-092 6.70220518e-237 1.00000000e+000 7.19901853e-161
1.00000000e+000 4.70547455e-233 1.00000000e+000 6.25849170e-141
3.11743465e-137 1.00000000e+000]

*** 総入力2 ***

6.298152086176098

*** 出力1 ***

6.298152086176098

出力合計: 6.298152086176098

誤差逆伝播開始

*** 偏微分_重み1 ***

[[6.61280064 14.81521131 -4.69115477 7.93343811 -4.86893583 10.81542062
-4.33137217 9.45768894 7.43364476 -5.77221761]
[9.43045297 21.12783388 -6.69001182 11.31380167 -6.94354372 15.4237699
-6.17692922 13.48752148 10.60105107 -8.23170539]]

*** 偏微分_重み2 ***

[-4.35189177e-091 -4.59935381e-236 -6.86244854e+000 -4.94028942e-160
-6.86244854e+000 -3.22910770e-232 -6.86244854e+000 -4.29485772e-140
-2.13932349e-136 -6.86244854e+000]

*** 偏微分_バイアス1 ***

[2.94054268 6.58794414 -2.0860361 3.52779626 -2.16509077 4.8093399

-1. 92605001 4. 20559148 3. 30555099 -2. 56675699]

*** 偏微分_バイアス2 ***

-6. 862448535451084

順伝播開始

*** 総入力1 ***

[12. 29482814 34. 32951082 -32. 78527227 21. 5883093 -41. 46530265
35. 39004096 -36. 88365525 17. 97251921 17. 62769786 -47. 20537381]

*** 中間層出力1 ***

[9. 99995425e-01 1. 00000000e+00 5. 77480288e-15 1. 00000000e+00
9. 81404098e-19 1. 00000000e+00 9. 58588139e-17 9. 99999984e-01
9. 99999978e-01 3. 15476228e-21]

*** 総入力2 ***

-14. 493776688815236

*** 出力1 ***

-14. 493776688815236

出力合計: -14. 493776688815236

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-5. 23221552 -11. 72214601 7. 86580777 -6. 27712409 8. 09323635
-8. 5574169 7. 40555151 -7. 4831475 -5. 88167582 9. 24877053]
[5. 34185656 11. 96778349 -8. 03063572 6. 40866118 -8. 26283006
8. 73673751 -7. 56073478 7. 6399568 6. 0049263 -9. 44257845]]

*** 偏微分_重み2 ***

[-1. 33821225e+01 -1. 33821837e+01 -7. 72794733e-14 -1. 33821837e+01
-1. 31333300e-17 -1. 33821837e+01 -1. 28280026e-15 -1. 33821835e+01
-1. 33821835e+01 -4. 22176085e-20]

*** 偏微分_バイアス1 ***

[4. 5096845 10. 10340265 -6. 77959676 5. 41029877 -6. 9756191 7. 37569968
-6. 38289854 6. 44977909 5. 06945904 -7. 97158238]

*** 偏微分_バイアス2 ***

-13. 382183749996958

順伝播開始

*** 総入力1 ***

[33.85103733 88.57333602 -72.45117764 58.80116614 -91.80584619
90.65122287 -85.92021117 49.9562414 49.58557889 -103.85159701]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 3.42652056e-32 1.00000000e+00
1.34656584e-40 1.00000000e+00 4.84536398e-38 1.00000000e+00
1.00000000e+00 7.90359145e-46]

*** 総入力2 ***

-7.936518896911393

*** 出力1 ***

-7.936518896911393

出力合計: -7.936518896911393

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.72352149 -6.43789663 5.71383318 -2.48255628 5.87904049 -4.13899299
5.37949657 -3.3586286 -2.19529711 6.71843674]
[1.51460384 5.65752328 -5.02122759 2.18163179 -5.16640921 3.63728256
-4.72741779 2.9515105 1.9291929 -5.90405755]]

*** 偏微分_重み2 ***

[-5.28520463e+00 -5.28520463e+00 -1.81098624e-31 -5.28520463e+00
-7.11687603e-40 -5.28520463e+00 -2.56087401e-37 -5.28520463e+00
-5.28520463e+00 -4.17720981e-45]

*** 偏微分_バイアス1 ***

[0.80765861 3.01685977 -2.67755673 1.16334955 -2.75497445 1.93957159
-2.5208834 1.5738854 1.02873716 -3.14832354]

*** 偏微分_バイアス2 ***

-5.285204630208081

順伝播開始

*** 総入力1 ***

[220.27133086 582.15612511 -435.91235525 389.83735425 -532.57403557
570.64002263 -529.49870612 340.68590137 329.56691937 -572.90359861]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 4.84919358e-190 1.00000000e+000
5.08200567e-232 1.00000000e+000 1.10061076e-230 1.00000000e+000
1.00000000e+000 1.55284626e-249]

*** 総入力2 ***

-5.3467686281094355

*** 出力1 ***

-5.3467686281094355

出力合計: -5.3467686281094355

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.50750146 9.37670782 -9.53749565 2.77447772 -9.81325869
5.53939181 -8.97942301 4.23681232 2.29498646 -11.21437381]
[2.61436293 16.26142191 -16.54026591 4.81159844 -17.01850404
9.60661131 -15.57243638 7.34763139 3.98004755 -19.44836796]]

*** 偏微分_重み2 ***

[8.68100984e+000 8.68100984e+000 4.20958972e-189 8.68100984e+000
4.41169412e-231 8.68100984e+000 9.55441287e-230 8.68100984e+000
8.68100984e+000 1.34802737e-248]

*** 偏微分_バイアス1 ***

[-0.69513717 -4.32377567 4.39791795 -1.27936366 4.52507746 -2.55431736
4.1405802 -1.95367355 -1.05826126 5.17115789]

*** 偏微分_バイアス2 ***

8.681009841887319

順伝播開始

*** 総入力1 ***

[-12.00074323 -18.10262664 3.59184301 -15.69785744 8.65147387
-21.7257193 8.24782797 -13.8680745 -15.88200267 15.7636005]

*** 中間層出力1 ***

[6.13960982e-06 1.37445060e-08 9.73191008e-01 1.52232391e-07
9.99825162e-01 3.66977970e-10 9.99738242e-01 9.48792752e-07
1.26629189e-07 9.99999857e-01]

*** 総入力2 ***

9.3438557787895

*** 出力1 ***

9.3438557787895

出力合計: 9.3438557787895

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-3.85087235 -11.91725541  6.12125959 -5.14959491  6.22208547
 -7.98378875  5.69362155 -6.64857086 -4.65808915  7.10988695]
 [ 4.91070508 15.19710898 -7.80594574  6.56686059 -7.9345208
 10.18107807 -7.26061364  8.47838302  5.94008318 -9.066662  ]]
```

*** 偏微分_重み2 ***

```
[5.24656479e-05 1.17452808e-07 8.31634229e+00 1.30089228e-06
 8.54394277e+00 3.13598706e-09 8.54320000e+00 8.10784854e-06
 1.08210174e-06 8.54543562e+00]
```

*** 偏微分_バイアス1 ***

```
[-2.16829386 -6.7101969  3.44667087 -2.89955989  3.50344246 -4.49539703
 3.20588259 -3.74358172 -2.62280989  4.00333296]
```

*** 偏微分_バイアス2 ***

8.545436841165753

順伝播開始

*** 総入力1 ***

```
[ 20.55270369  61.00365816 -53.14797923  38.71266542 -64.12185761
 59.26178617 -61.66307891  33.20588918  31.33157677 -67.78667064]
```

*** 中間層出力1 ***

```
[9.99999999e-01 1.00000000e+00 8.28182209e-24 1.00000000e+00
 1.41981274e-28 1.00000000e+00 1.65983567e-27 1.00000000e+00
 1.00000000e+00 3.63599263e-30]
```

*** 総入力2 ***

-10.198648443707633

*** 出力1 ***

-10.198648443707633

出力合計: -10.198648443707633

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.18395717 -0.56928833  0.33286031 -0.24599661  0.34269187 -0.38138628
  0.30187338 -0.31760291 -0.22251734  0.41127626]
 [-1.0212252  -3.16036378  1.84785043 -1.36563275  1.90242962 -2.1172389
  1.67582866 -1.76315003 -1.23528922  2.283171  ]]
```

*** 偏微分_重み2 ***

```
[-8.70520178e+00 -8.70520179e+00 -7.20949325e-23 -8.70520179e+00
 -1.23597564e-27 -8.70520179e+00 -1.44492045e-26 -8.70520179e+00
 -8.70520179e+00 -3.16520496e-29]
```

*** 偏微分_バイアス1 ***

```
[ 1.73713732  5.37588171 -3.14325376  2.32298578 -3.23609474  3.60149232
 -2.85063913  2.99917563  2.10126719 -3.88374823]
```

*** 偏微分_バイアス2 ***

-8.705201792902388

順伝播開始

*** 総入力1 ***

```
[-9.42241028 -17.79910855  4.82973434 -13.87345549  6.60303156
 -17.50999852  8.8260197  -13.14477614 -13.35360605  8.61427129]
```

*** 中間層出力1 ***

```
[8.08842718e-05 1.86185291e-08 9.92074669e-01 9.43701024e-07
 9.98645587e-01 2.48601791e-08 9.99853160e-01 1.95566926e-06
 1.58709123e-06 9.99818536e-01]
```

*** 総入力2 ***

7.019801071955104

*** 出力1 ***

7.019801071955104

出力合計: 7.019801071955104

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.14292268 -0.89209061 0.40172792 -0.2635409 0.41234455 -0.52676799
 0.36302712 -0.40275918 -0.21789206 0.49460084]
 [ 0.09106609 0.56841367 -0.25596911 0.16792044 -0.26273371 0.33564093
 -0.23131011 0.2566262 0.13883435 -0.31514498]]
```

*** 偏微分_重み2 ***

```
[5.38225302e-04 1.23892609e-07 6.60152680e+00 6.27963579e-06
 6.64525142e+00 1.65426196e-07 6.65328693e+00 1.30135396e-05
 1.05609241e-05 6.65305653e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.67472193 -4.21145979 1.89651246 -1.24414704 1.9466324 -2.48681264
 1.71381036 -1.90138096 -1.02864399 2.33495511]
```

*** 偏微分_バイアス2 ***

```
6.654264042351485
```

順伝播開始

*** 総入力1 ***

```
[ 117.32859359 305.43823306 -232.44391375 205.70830565 -288.49798179
 304.94219876 -281.99375187 177.93840147 174.4216873 -316.72894907]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.12432252e-101 1.00000000e+000
 5.09235262e-126 1.00000000e+000 3.40149338e-123 1.00000000e+000
 1.00000000e+000 2.79489283e-138]
```

*** 総入力2 ***

```
-6.398937835886917
```

*** 出力1 ***

```
-6.398937835886917
```

出力合計: -6.398937835886917

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.42244975 2.63658972 -1.30071346 0.77890028 -1.35315402 1.5568722
 -1.11785905 1.1903629 0.64398463 -1.74652821]
 [-0.11775517 -0.73493255 0.36256557 -0.21711348 0.37718304 -0.43396818
 0.31159607 -0.33180605 -0.1795066 0.48683359]]
```

*** 偏微分_重み2 ***

[1. 61456182e+000 1. 61456182e+000 1. 81528821e-101 1. 61456182e+000
8. 22191814e-126 1. 61456182e+000 5. 49192136e-123 1. 61456182e+000
1. 61456182e+000 4. 51252726e-138]

*** 偏微分_バイアス1 ***

[-0. 12876258 -0. 80363191 0. 39645715 -0. 23740862 0. 41244102 -0. 47453427
0. 34072317 -0. 36282232 -0. 19628636 0. 53234138]

*** 偏微分_バイアス2 ***

1. 6145618247749702

順伝播開始

*** 総入力1 ***

[161. 41063771 437. 96804745 -331. 45093594 288. 41841392 -400. 03837058
422. 35021687 -399. 11521791 254. 33417975 242. 56454345 -425. 66257124]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 1. 12898325e-144 1. 00000000e+000
1. 84307542e-174 1. 00000000e+000 4. 63941496e-174 1. 00000000e+000
1. 00000000e+000 1. 37117902e-185]

*** 総入力2 ***

-7. 190073130026651

*** 出力1 ***

-7. 190073130026651

出力合計: -7. 190073130026651

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 02195172 0. 11193331 -0. 05286037 0. 0364377 -0. 05499153 0. 0680541
-0. 04542926 0. 05315934 0. 03095479 -0. 07097807]
[1. 36406078 6. 95543943 -3. 28469817 2. 26420707 -3. 41712658 4. 22882342
-2. 82293502 3. 30327565 1. 92350391 -4. 41051637]]

*** 偏微分_重み2 ***

[2. 75506640e+000 2. 75506640e+000 3. 11042383e-144 2. 75506640e+000
5. 07779517e-174 2. 75506640e+000 1. 27818963e-173 2. 75506640e+000
2. 75506640e+000 3. 77768925e-185]

*** 偏微分_バイアス1 ***

[-0.28093891 -1.43252679 0.67650911 -0.46633104 0.70378377 -0.87095904
0.5814054 -0.68033528 -0.39616057 0.90838011]

*** 偏微分_バイアス2 ***

2.7550664022001534

順伝播開始

*** 総入力1 ***

[301.03463978 793.31418622 -591.59545237 529.70409027 -724.4381581
777.34061755 -717.96480853 464.31447852 449.13019583 -784.81643099]

*** 中間層出力1 ***

[1.0000000e+000 1.0000000e+000 1.1840213e-257 1.0000000e+000
0.0000000e+000 1.0000000e+000 0.0000000e+000 1.0000000e+000
1.0000000e+000 0.0000000e+000]

*** 総入力2 ***

-8.540055667104728

*** 出力1 ***

-8.540055667104728

出力合計: -8.540055667104728

誤差逆伝播開始

*** 偏微分_重み1 ***

[[6.46518354 25.78315331 -11.34848914 9.57514978 -11.80602352
16.36281372 -9.75311757 13.16508648 8.39803521 -15.23814201]
[4.69839406 18.7371965 -8.2472019 6.95847636 -8.57970241
11.89122417 -7.08780956 9.56736398 6.10304077 -11.07389999]]

*** 偏微分_重み2 ***

[1.06984557e+001 1.06984557e+001 1.26671994e-256 1.06984557e+001
0.00000000e+000 1.06984557e+001 0.00000000e+000 1.06984557e+001
1.06984557e+001 0.00000000e+000]

*** 偏微分_バイアス1 ***

[-1.4965991 -5.96843752 2.6270157 -2.21651256 2.73292847 -3.78776134
2.25770961 -3.04753244 -1.94402709 3.52741565]

*** 偏微分_バイアス2 ***

10. 698455661089895

順伝播開始

*** 総入力1 ***

[-85.57322231 -230.67406726 161.41673865 -150.97875793 191.11234096
-215.78609561 196.47805104 -136.97682507 -128.42213287 200.45108588]

*** 中間層出力1 ***

[6.85522564e-038 6.59971940e-101 1.00000000e+000 2.69623998e-066
1.00000000e+000 1.92880981e-094 1.00000000e+000 3.24878315e-060
1.68646115e-056 1.00000000e+000]

*** 総入力2 ***

3.654531796818425

*** 出力1 ***

3.654531796818425

出力合計: 3.654531796818425

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.45565789 -1.11898052 0.24101335 -0.56244505 0.25073023 -0.79551359
0.20713168 -0.68571298 -0.52202637 0.32361979]
[1.3769259 3.3813817 -0.72830414 1.69961974 -0.75766701 2.40391592
-0.62591908 2.0721159 1.57748092 -0.9779277]]

*** 偏微分_重み2 ***

[-5.78823191e-038 -5.57249439e-101 -8.44353230e-001 -2.27657894e-066
-8.44353230e-001 -1.62859679e-094 -8.44353230e-001 -2.74312054e-060
-1.42396892e-056 -8.44353230e-001]

*** 偏微分_バイアス1 ***

[0.30827152 0.75703687 -0.16305556 0.38051747 -0.16962943 0.53819803
-0.14013319 0.46391336 0.35317256 -0.21894225]

*** 偏微分_バイアス2 ***

-0.8443532301931418

順伝播開始

*** 総入力1 ***

[148.02102786 399.97729114 -300.38799473 262.49697911 -364.67913954

386.4736705 -361.15120372 231.84906247 221.36261128 -392.28532619]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.49262097e-131 1.00000000e+000
4.18660544e-159 1.00000000e+000 1.42568996e-157 1.00000000e+000
1.00000000e+000 4.29187934e-171]

*** 総入力2 ***

-13.723194214925257

*** 出力1 ***

-13.723194214925257

出力合計: -13.723194214925257

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.51917824 -3.73071747 1.37736495 -1.87521008 1.42974391 -2.65226819
1.19472532 -2.28618939 -1.74045291 1.82265604]
[-3.6541473 -8.97366139 3.31303745 -4.51052659 3.43902691 -6.37961917
2.87372619 -5.49907348 -4.18638914 4.38411601]]]

*** 偏微分_重み2 ***

[-4.46244499e+000 -4.46244499e+000 -1.55856289e-130 -4.46244499e+000
-1.86824965e-158 -4.46244499e+000 -6.36206302e-157 -4.46244499e+000
-4.46244499e+000 -1.91522754e-170]

*** 偏微分_バイアス1 ***

[1.28130338 3.14655699 -1.1616954 1.58158731 -1.20587279 2.23697267
-1.00765371 1.92821495 1.46793058 -1.53726224]

*** 偏微分_バイアス2 ***

-4.46244498556273

順伝播開始

*** 総入力1 ***

[-24.07294199 -57.19696902 33.85611084 -39.86557268 41.49685684
-55.2436108 43.94348722 -36.24674565 -35.32138959 45.65322676]

*** 中間層出力1 ***

[3.50957178e-11 1.44434843e-25 1.00000000e+00 4.85961390e-18
1.00000000e+00 1.01860234e-24 1.00000000e+00 1.81233458e-16]

4. 57209671e-16 1. 00000000e+00]

*** 総入力2 ***

4. 262426576335123

*** 出力1 ***

4. 262426576335123

出力合計: 4. 262426576335123

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.13584771 -0.3874172 0.09690631 -0.17634744 0.1005915 -0.26474023
0.08405646 -0.22309762 -0.16101839 0.12823535]
[-0.33073504 -0.9432065 0.23592826 -0.42933575 0.24490023 -0.64453696
0.204644 -0.54315381 -0.39201563 0.31220198]]

*** 偏微分_重み2 ***

[1.06525602e-10 4.38401306e-25 3.03528774e+00 1.47503265e-17
3.03528774e+00 3.09175118e-24 3.03528774e+00 5.50095692e-16
1.38776291e-15 3.03528774e+00]

*** 偏微分_バイアス1 ***

[-0.87114284 -2.4843681 0.62142558 -1.13085316 0.64505739 -1.69768451
0.53902408 -1.43064536 -1.03255344 0.82232751]

*** 偏微分_バイアス2 ***

3.035287736513835

順伝播開始

*** 総入力1 ***

[0.29373711 -7.33439128 -1.66407491 -1.60396733 -9.5729704
3.29022854 -2.04395665 -5.53728282 -1.02418716 -19.08808324]

*** 中間層出力1 ***

[5.72910791e-01 6.52275352e-04 1.59215746e-01 1.67427856e-01
6.95795412e-05 9.64092067e-01 1.14664454e-01 3.92176958e-03
2.64212595e-01 5.13039471e-09]

*** 総入力2 ***

-3.575421338554732

*** 出力1 ***

-3.575421338554732

出力合計: -3.575421338554732

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.18580829 -6.75924826 1.70036744 -3.05526383 1.79292027 -3.69236978
1.42142132 -3.89235837 -2.76081714 2.40618525]
[2.94739255 9.11432081 -2.2928133 4.11978575 -2.4176136 4.9788736
-1.91667614 5.24854267 3.72274729 -3.24455376]]

*** 偏微分_重み2 ***

[-1.50092397e+00 -1.70884494e-03 -4.17116824e-01 -4.38631085e-01
-1.82285973e-04 -2.52574905e+00 -3.00400395e-01 -1.02743360e-02
-6.92189818e-01 -1.34407180e-08]

*** 偏微分_バイアス1 ***

[0.69342803 2.14431074 -0.53942628 0.96925498 -0.56878784 1.17137112
-0.45093313 1.2348157 0.87584442 -0.76334064]

*** 偏微分_バイアス2 ***

-2.6198214271975973

順伝播開始

*** 総入力1 ***

[-273.12313629 -711.47111627 513.08866733 -475.87658782 628.12798386
-693.58882636 626.70226065 -420.59517689 -406.24888366 682.8384647]

*** 中間層出力1 ***

[2.42174843e-119 0.00000000e+000 1.00000000e+000 2.13512764e-207
1.00000000e+000 6.00067359e-302 1.00000000e+000 2.17688538e-183
3.70127664e-177 1.00000000e+000]

*** 総入力2 ***

3.4337023347535416

*** 出力1 ***

3.4337023347535416

出力合計: 3.4337023347535416

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 12.94394363  40.63133236 -8.37483913  18.11448363 -8.47648329
    25.57203244 -6.94738572  23.38984127  16.28647189 -11.37568123]
 [ 10.05636286  31.56715087 -6.50655036  14.07344048 -6.58551938
    19.8673329   -5.39753832  18.17195266  12.65322807 -8.83795398]]
```

*** 偏微分_重み2 ***

```
[-3.24911209e-118  0.00000000e+000 -1.34163898e+001 -2.86457046e-206
 -1.34163898e+001 -8.05073759e-301 -1.34163898e+001 -2.92059428e-182
 -4.96577701e-176 -1.34163898e+001]
```

*** 偏微分_バイアス1 ***

```
[ 3.49817415  10.98084792 -2.26334775  4.89554189 -2.29081766  6.91098674
 -1.87757038  6.3212372   4.40151136 -3.07434234]
```

*** 偏微分_バイアス2 ***

-13.416389774267646

順伝播開始

*** 総入力1 ***

```
[ 115.57405375  314.18200639 -234.48284637  204.78845814 -284.86521858
 302.1504992   -281.09807762  181.4952982   172.56791868 -307.06032391]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.46350335e-102 1.00000000e+000
 1.92578361e-124 1.00000000e+000 8.33021126e-123 1.00000000e+000
 1.00000000e+000 4.41972975e-134]
```

*** 総入力2 ***

-10.264668132132702

*** 出力1 ***

-10.264668132132702

出力合計: -10.264668132132702

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [-0.68552572 -2.15188077  1.50203697 -0.9593633   1.51074059 -1.35432342
    1.37980654 -1.23875213 -0.86254975  1.75899403]
 [-1.22207569 -3.83612328  2.67765717 -1.71024154  2.69317297 -2.4143306
```

2. 45975894 -2. 20830353 -1. 53765359 3. 1357304]]

*** 偏微分_重み2 ***

[-3. 03656829e+000 -3. 03656829e+000 -4. 44402786e-102 -3. 03656829e+000
-5. 84777343e-124 -3. 03656829e+000 -2. 52952554e-122 -3. 03656829e+000
-3. 03656829e+000 -1. 34208112e-133]

*** 偏微分_バイアス1 ***

[0. 62267105 1. 95457855 -1. 3643178 0. 87140094 -1. 3722234 1. 23014785
-1. 25329446 1. 12517309 0. 78346406 -1. 59771491]

*** 偏微分_バイアス2 ***

-3. 0365682917243975

順伝播開始

*** 総入力1 ***

[155. 81165539 411. 24935257 -305. 10599084 272. 71638348 -375. 99070918
403. 36113098 -368. 86179824 239. 38128117 231. 37741978 -411. 5203489]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 3. 11997980e-133 1. 00000000e+000
5. 12046915e-164 1. 00000000e+000 6. 38787543e-161 1. 00000000e+000
1. 00000000e+000 1. 90100511e-179]

*** 総入力2 ***

-8. 776749669187748

*** 出力1 ***

-8. 776749669187748

出力合計: -8. 776749669187748

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 78543066 2. 89553496 -2. 16145105 1. 17948655 -2. 17397567 1. 74783939
-1. 98555984 1. 58153078 1. 04017058 -2. 53121565]
[-0. 02380756 -0. 08776793 0. 06551676 -0. 03575197 0. 0658964 -0. 05297959
0. 06018524 -0. 04793853 -0. 0315291 0. 07672487]]

*** 偏微分_重み2 ***

[1. 39076402e+000 1. 39076402e+000 4. 33915565e-133 1. 39076402e+000
7. 12136426e-164 1. 39076402e+000 8. 88402730e-161 1. 39076402e+000

1. 39076402e+000 2. 64384950e-179]

*** 偏微分_バイアス1 ***

[-0.22706405 -0.83708459 0.62486462 -0.34098363 0.62848543 -0.50529157
0.57401536 -0.45721259 -0.30070808 0.73176171]

*** 偏微分_バイアス2 ***

1. 3907640189229937

順伝播開始

*** 総入力1 ***

[-83.13886845 -201.32276223 137.51765861 -139.40926663 174.40097499
-203.27407272 172.00519332 -122.02645902 -121.48458221 197.7344483]

*** 中間層出力1 ***

[7.82074634e-37 3.68667863e-88 1.00000000e+00 2.85315113e-61
1.00000000e+00 5.23831851e-89 1.00000000e+00 1.01060677e-53
1.73746598e-53 1.00000000e+00]

*** 総入力2 ***

8.244645054843316

*** 出力1 ***

8.244645054843316

出力合計: 8.244645054843316

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.24002788 -7.62649487 3.41259865 -3.24593506 3.43237311 -4.69677034
3.1348935 -4.27223407 -2.89030293 3.99640008]
[1.58459672 5.39498586 -2.4140738 2.2961759 -2.42806226 3.32249742
-2.21762505 3.02218028 2.04460158 -2.82705519]]

*** 偏微分_重み2 ***

[2.20912054e-36 1.04137343e-87 2.82469273e+00 8.05927527e-61
2.82469273e+00 1.47966402e-88 2.82469273e+00 2.85465359e-53
4.90780752e-53 2.82469273e+00]

*** 偏微分_バイアス1 ***

[-0.65515156 -2.23055706 0.99809888 -0.94935399 1.00388241 -1.37368666
0.91687714 -1.24952052 -0.84534058 1.16884605]

*** 偏微分_バイアス2 ***

2. 824692734406762

順伝播開始

*** 総入力1 ***

[57.38739556 137.26850935 -110.02082895 97.66086601 -144.84261085
150.01306824 -135.25939673 79.9466642 83.81956544 -168.51179264]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.65409745e-48 1.00000000e+00
1.24638830e-63 1.00000000e+00 1.80963245e-59 1.00000000e+00
1.00000000e+00 6.55025670e-74]

*** 総入力2 ***

-9.655952529868488

*** 出力1 ***

-9.655952529868488

出力合計: -9.655952529868488

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-4.28335918 -14.58330812 9.38979624 -6.20684494 9.45093206
-8.98111783 8.53122707 -8.16932377 -5.5268087 11.19471013]
[4.299229 14.63733919 -9.42458537 6.22984126 -9.4859477
9.01439282 -8.56283522 8.19959107 5.5472855 -11.23618646]]

*** 偏微分_重み2 ***

[-4.79840863e+00 -4.79840863e+00 -7.93703545e-48 -4.79840863e+00
-5.98068035e-63 -4.79840863e+00 -8.68335598e-59 -4.79840863e+00
-4.79840863e+00 -3.14308083e-73]

*** 偏微分_バイアス1 ***

[0.87526117 2.97995165 -1.91870998 1.26830604 -1.93120247 1.83520068
-1.74327005 1.66931876 1.12934751 -2.28752589]

*** 偏微分_バイアス2 ***

-4.798408626287589

順伝播開始

*** 総入力1 ***

[25.99477858 76.86487102 -63.51407491 48.21526588 -76.41850066
73.28698062 -73.82049368 42.25217163 39.39307493 -81.14100401]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.60728041e-28 1.00000000e+00
6.48435598e-34 1.00000000e+00 8.71298457e-33 1.00000000e+00
1.00000000e+00 5.76646555e-36]

*** 総入力2 ***

-7.304732302984528

*** 出力1 ***

-7.304732302984528

出力合計: -7.304732302984528

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.06430329 -0.30668229 0.22096123 -0.10956687 0.22239988 -0.17485122
0.20075733 -0.15574804 -0.09356422 0.26343457]
[-0.47396799 -2.26049986 1.62866538 -0.80759766 1.63926942 -1.28879684
1.47974608 -1.14799071 -0.689645 1.9417287]]

*** 偏微分_重み2 ***

[-5.53276625e+00 -5.53276625e+00 -1.44254731e-27 -5.53276625e+00
-3.58764259e-33 -5.53276625e+00 -4.82069070e-32 -5.53276625e+00
-5.53276625e+00 -3.19045060e-35]

*** 偏微分_バイアス1 ***

[0.64383054 3.07062688 -2.21235302 1.09702776 -2.22675738 1.75068103
-2.01006343 1.55941223 0.93680275 -2.63761323]

*** 偏微分_バイアス2 ***

-5.532766254294714

順伝播開始

*** 総入力1 ***

[224.25903482 592.35405512 -436.14527088 392.94456319 -535.90745437
578.9717611 -528.35084934 345.68664685 333.478356 -584.12206878]

*** 中間層出力1 ***


```
[1.00000000e+000 1.00000000e+000 3.84163013e-190 1.00000000e+000
1.81279944e-233 1.00000000e+000 3.46849940e-230 1.00000000e+000
1.00000000e+000 2.08453298e-254]
```

*** 総入力2 ***

-4.593676838385147

*** 出力1 ***

-4.593676838385147

出力合計: -4.593676838385147

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.60717745 19.13425949 -15.97830532  4.88030947 -16.08233812
 9.60119778 -14.51730661  8.21979471  3.72311433 -19.04966752]
 [ 0.41816004  4.97840657 -4.15728135  1.26977293 -4.18434891
 2.49806721 -3.77715451  2.13864979  0.96869058 -4.95639719]]
```

*** 偏微分_重み2 ***

```
[9.78401655e+000 9.78401655e+000 3.75865728e-189 9.78401655e+000
1.77364597e-232 9.78401655e+000 3.39358556e-229 9.78401655e+000
9.78401655e+000 2.03951052e-253]
```

*** 偏微分_バイアス1 ***

```
[-0.393516 -4.68500682  3.91227418 -1.19493954  3.93774653 -2.35084494
 3.55454992 -2.0126096 -0.91160131  4.66429455]
```

*** 偏微分_バイアス2 ***

9.784016550890119

順伝播開始

*** 総入力1 ***

```
[-110.0530435 -294.81242811 202.44864663 -191.56771162 242.05166669
-275.27212961 245.45155465 -174.66316831 -163.59444825 258.58063953]
```

*** 中間層出力1 ***

```
[1.60166059e-048 9.21699341e-129 1.00000000e+000 6.35623481e-084
1.00000000e+000 2.82379451e-120 1.00000000e+000 1.39556418e-076
8.95022296e-072 1.00000000e+000]
```

*** 総入力2 ***

7. 294303680879402

*** 出力1 ***

7. 294303680879402

出力合計: 7. 294303680879402

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.16458176  0.57738419 -0.23275717  0.24167142 -0.23427263  0.35285902
 -0.2114747   0.32032386  0.21441686 -0.27749794]
 [-1.15388768 -4.048058    1.63186757 -1.69436564  1.64249246 -2.47390526
  1.48265547 -2.24580022 -1.50328307  1.94554641]]
```

*** 偏微分_重み2 ***

```
[2.20897235e-048 1.27118590e-128 1.37917631e+000 8.76636848e-084
 1.37917631e+000 3.89451050e-120 1.37917631e+000 1.92472905e-076
 1.23439355e-071 1.37917631e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.30667642 -1.07587936  0.43371232 -0.45032285  0.43653617 -0.65750629
  0.39405523 -0.59688129 -0.39953756  0.51708084]
```

*** 偏微分_バイアス2 ***

1.3791763113380124

順伝播開始

*** 総入力1 ***

```
[-215.89969001 -560.09564143  396.99143399 -373.60440959  488.41671869
 -545.54845381  485.34920657 -331.41586472 -320.01869205  535.80722732]
```

*** 中間層出力1 ***

```
[1.72169407e-094 5.66961526e-244 1.00000000e+000 5.56758044e-163
 1.00000000e+000 1.17846558e-237 1.00000000e+000 1.16928058e-144
 1.04147281e-139 1.00000000e+000]
```

*** 総入力2 ***

6.811591971911098

*** 出力1 ***

6.811591971911098

出力合計: 6.811591971911098

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 6.00377223 21.06237772 -7.97824378 8.81592337 -8.03352596 12.87193193
    -7.20188102 11.6850827 7.82170511 -9.61034054]
  [ 0.76175105 2.67236791 -1.01226951 1.11855324 -1.01928364 1.63317448
    -0.91376558 1.48258855 0.99240808 -1.21934788]]
```

*** 偏微分_重み2 ***

```
[-1.13058650e-093 -3.72307168e-243 -6.56670958e+000 -3.65606838e-162
 -6.56670958e+000 -7.73864120e-237 -6.56670958e+000 -7.67832600e-144
 -6.83904951e-139 -6.56670958e+000]
```

*** 偏微分_バイアス1 ***

```
[ 1.46018676 5.12261356 -1.94040105 2.1441344 -1.95384631 3.13060253
 -1.75158066 2.84194709 1.90232903 -2.33734583]
```

*** 偏微分_バイアス2 ***

-6.566709581613778

順伝播開始

*** 総入力1 ***

```
[-230.20161617 -607.06459201 427.89499185 -399.79865388 521.2522679
 -582.03281395 520.13187606 -358.12848202 -341.58890402 566.89896335]
```

*** 中間層出力1 ***

```
[1.05854267e-100 2.26567457e-264 1.00000000e+000 2.34234438e-174
 1.00000000e+000 1.68407184e-253 1.00000000e+000 2.92938495e-156
 4.46502508e-149 1.00000000e+000]
```

*** 総入力2 ***

9.109940325475922

*** 出力1 ***

9.109940325475922

出力合計: 9.109940325475922

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.68580483 9.42231544 -4.66070558 3.94382876 -4.68543623 5.75829588
```

```
-4. 31339746  5. 22735546  3. 49906235 -5. 39082877]
[ 2. 95271127 10. 35867412 -5. 12387115  4. 33575347 -5. 15105945  6. 33053637
-4. 74204869  5. 74683283  3. 84678764 -5. 92655158]]
```

*** 偏微分_重み2 ***

```
[-4. 85353192e-100 -1. 03883614e-263 -4. 58510748e+000 -1. 07399007e-173
-4. 58510748e+000 -7. 72165039e-253 -4. 58510748e+000 -1. 34315449e-155
-2. 04726199e-148 -4. 58510748e+000]
```

*** 偏微分_バイアス1 ***

```
[ 1. 01955373  3. 57678887 -1. 76924239  1. 49711001 -1. 77863034  2. 18589674
-1. 63740135  1. 98434737  1. 32827301 -2. 04640319]
```

*** 偏微分_バイアス2 ***

```
-4. 585107476996654
```

順伝播開始

*** 総入力1 ***

```
[ 157. 39899374  416. 92266297 -308. 71327756  275. 25207205 -381. 22940087
 408. 45604923 -372. 74905345  242. 09248709  233. 76271249 -419. 51016292]
```

*** 中間層出力1 ***

```
[1. 00000000e+000 1. 00000000e+000 8. 46305308e-135 1. 00000000e+000
 2. 71753322e-166 1. 00000000e+000 1. 30961292e-162 1. 00000000e+000
 1. 00000000e+000 6. 44245127e-183]
```

*** 総入力2 ***

```
-8. 703760096012235
```

*** 出力1 ***

```
-8. 703760096012235
```

出力合計: -8. 703760096012235

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1. 20897155  4. 24130271 -3. 94670143  1. 77525065 -3. 96469997  2. 59200364
-3. 69393648  2. 35300941  1. 57504625 -4. 47807267]
[-0. 28572003 -1. 00236036  0. 93273631 -0. 41955055  0. 93698996 -0. 61257634
 0. 87299958 -0. 55609408 -0. 37223561  1. 05831694]]
```

*** 偏微分_重み2 ***

```
[1.68227979e+000 1.68227979e+000 1.42372232e-134 1.68227979e+000
4.57165122e-166 1.68227979e+000 2.20313535e-162 1.68227979e+000
1.68227979e+000 1.08380056e-182]
```

*** 偏微分_バイアス1 ***

```
[-0.29419053 -1.03207647 0.96038835 -0.4319886 0.9647681 -0.63073687
0.89888065 -0.57258013 -0.38327096 1.08969196]
```

*** 偏微分_バイアス2 ***

1.6822797903088258

順伝播開始

*** 総入力1 ***

```
[ 309.50401958 835.15657983 -607.72403452 543.55307619 -737.92501811
798.16632873 -730.68743941 485.87491529 460.74887852 -799.13648046]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.17166994e-264 1.00000000e+000
0.00000000e+000 1.00000000e+000 0.00000000e+000 1.00000000e+000
1.00000000e+000 0.00000000e+000]
```

*** 総入力2 ***

-9.528077193263561

*** 出力1 ***

-9.528077193263561

出力合計: -9.528077193263561

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 6.02969131 19.38510071 -17.38260454 8.5237755 -17.46187619
12.12103122 -16.26934245 11.06841999 7.6420078 -19.72294274]
[ 8.32171126 26.75380918 -23.99011961 11.76385238 -24.09952418
16.72850511 -22.45368181 15.2757729 10.54690514 -27.22007247]]
```

*** 偏微分_重み2 ***

```
[9.31029933e+000 9.31029933e+000 1.09085978e-263 9.31029933e+000
0.00000000e+000 9.31029933e+000 0.00000000e+000 9.31029933e+000
9.31029933e+000 0.00000000e+000]
```

*** 偏微分_バイアス1 ***

[-1.84370964 -5.92741738 5.3151105 -2.60633029 5.33934953 -3.70626969
4.97470633 -3.38441084 -2.33671058 6.03071995]

*** 偏微分_バイアス2 ***

9.310299334776667

順伝播開始

*** 総入力1 ***

[-142.97139759 -366.96322558 256.33052659 -244.75108794 316.54479313
-357.26057509 313.6747685 -218.133589 -210.77105176 350.64911606]

*** 中間層出力1 ***

[8.09675421e-063 4.26477447e-160 1.00000000e+000 5.08104529e-107
1.00000000e+000 6.97756091e-156 1.00000000e+000 1.84410641e-095
2.90599776e-092 1.00000000e+000]

*** 総入力2 ***

9.945247403668763

*** 出力1 ***

9.945247403668763

出力合計: 9.945247403668763

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.64284712 -3.85212627 1.77847583 -2.05542363 1.7865864 -2.65048903
1.66457405 -2.47636393 -1.90955981 2.01792412]
[0.41310604 0.9686456 -0.44721088 0.51685145 -0.44925034 0.66648504
-0.41856944 0.6227 0.48017292 -0.50742193]]

*** 偏微分_重み2 ***

[9.07597136e-063 4.78055402e-160 1.12093947e+000 5.69554421e-107
1.12093947e+000 7.82142341e-156 1.12093947e+000 2.06713166e-095
3.25744759e-092 1.12093947e+000]

*** 偏微分_バイアス1 ***

[-0.46488963 -1.09006708 0.50326958 -0.58163972 0.50556469 -0.75003015
0.47103788 -0.70075657 -0.54036346 0.57102818]

*** 偏微分_バイアス2 ***

1.1209394682417688

順伝播開始

*** 総入力1 ***

[172.20744382 471.84953681 -348.23679157 303.39160562 -419.56242677
446.01875533 -414.84833567 272.98360655 256.36047974 -452.40749536]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 5.79005948e-152 1.00000000e+000
6.11439143e-183 1.00000000e+000 6.81799992e-181 1.00000000e+000
1.00000000e+000 3.32599193e-197]

*** 総入力2 ***

-14.168589630081053

*** 出力1 ***

-14.168589630081053

出力合計: -14.168589630081053

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.51343105 -3.54867317 2.55792802 -1.89350664 2.5700083 -2.44169548
2.38827707 -2.28128717 -1.75913332 2.91457414]
[-4.24996437 -9.96526043 7.18308441 -5.31727942 7.21700781 -6.85668423
6.70667651 -6.40623119 -4.93993693 8.18460561]]

*** 偏微分_重み2 ***

[-3.88948540e+000 -3.88948540e+000 -2.25203518e-151 -3.88948540e+000
-2.37818362e-182 -3.88948540e+000 -2.65185112e-180 -3.88948540e+000
-3.88948540e+000 -1.29363971e-196]

*** 偏微分_バイアス1 ***

[1.26861462 2.97463083 -2.14415112 1.58720823 -2.15427726 2.04672065
-2.00194334 1.91226039 1.47457147 -2.44310526]

*** 偏微分_バイアス2 ***

-3.8894854047550957

順伝播開始

*** 総入力1 ***

[-181.96650783 -487.4862439 341.95356588 -316.44788045 411.36676597
-458.53076978 412.67943998 -287.21934828 -270.07799682 443.69756632]

*** 中間層出力1 ***

[9.39614608e-080 1.93826998e-212 1.00000000e+000 3.70195989e-138
1.00000000e+000 7.28814325e-200 1.00000000e+000 1.82903471e-125
5.08881074e-118 1.00000000e+000]

*** 総入力2 ***

9.825182568117

*** 出力1 ***

9.825182568117

出力合計: 9.825182568117

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.08855723 0.23103061 -0.1107505 0.11516372 -0.11127354 0.15353867
-0.10340513 0.14230958 0.10575716 -0.12619219]
[0.60343918 1.57426923 -0.75466668 0.7847389 -0.75823073 1.04623024
-0.70461449 0.96971393 0.72064153 -0.85988815]]

*** 偏微分_重み2 ***

[-3.89769959e-080 -8.04031147e-213 -4.14818965e-001 -1.53564317e-138
-4.14818965e-001 -3.02326004e-200 -4.14818965e-001 -7.58718285e-126
-2.11093520e-118 -4.14818965e-001]

*** 偏微分_バイアス1 ***

[0.14380369 0.37515915 -0.17984224 0.18700866 -0.18069158 0.24932384
-0.16791446 0.23108948 0.17173382 -0.20491724]

*** 偏微分_バイアス2 ***

-0.41481896468208745

順伝播開始

*** 総入力1 ***

[-42.86691434 -94.10411132 60.54414986 -69.30335412 81.87443997
-101.6968882 79.42432571 -58.9141391 -61.92018414 98.67725507]

*** 中間層出力1 ***

[2.41621539e-19 1.35239554e-41 1.00000000e+00 7.97876600e-31
1.00000000e+00 6.81714654e-45 1.00000000e+00 2.59366859e-26
1.28352907e-27 1.00000000e+00]

*** 総入力2 ***
9. 97036920575573

*** 出力1 ***
9. 97036920575573

出力合計: 9. 97036920575573

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ -8. 04646876 -20. 99185562  10. 19550263 -10. 46398242  10. 2430269
    -13. 9507993   9. 52808915 -12. 93050413  -9. 60928574  11. 59856242]
  [  8. 34813972  21. 77886335 -10. 57774323  10. 85628862 -10. 62704924
    14. 4738301  -9. 88530768  13. 41528294   9. 96954843 -12. 03340527]]
```

*** 偏微分_重み2 ***

```
[1. 64884071e-18  9. 22883301e-41  6. 82406347e+00  5. 44476056e-30
 6. 82406347e+00  4. 65206406e-44  6. 82406347e+00  1. 76993591e-25
 8. 75888385e-27  6. 82406347e+00]
```

*** 偏微分_バイアス1 ***

```
[-2. 36567183 -6. 17163167  2. 99749046 -3. 07642385  3. 01146265 -4. 10155235
 2. 80127006 -3. 8015843  -2. 82514196  3. 40999178]
```

*** 偏微分_バイアス2 ***

6. 824063466262359

順伝播開始

*** 総入力1 ***

```
[ 112. 74973052  304. 47296419 -229. 08887271  198. 85756435 -280. 62524838
 295. 47517409 -274. 58737997  175. 57599367  168. 0891431  -306. 6547758 ]
```

*** 中間層出力1 ***

```
[1. 00000000e+000 1. 00000000e+000 3. 22082193e-100 1. 00000000e+000
 1. 33660520e-122 1. 00000000e+000 5. 60036174e-120 1. 00000000e+000
 1. 00000000e+000 6. 63014491e-134]
```

*** 総入力2 ***

-12. 711388896861676

*** 出力1 ***

-12.711388896861676

出力合計: -12.711388896861676

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-3.4217716 -8.92681466 5.51112019 -4.44982251 5.54379563 -5.93259605
 5.05223829 -5.49871417 -4.08636161 6.47579767]
 [-0.23590437 -0.615434 0.3799486 -0.30678044 0.38220132 -0.40900607
 0.34831229 -0.37909331 -0.28172265 0.44645557]]
```

*** 偏微分_重み2 ***

```
[-5.34968899e+000 -5.34968899e+000 -1.72303956e-099 -5.34968899e+000
 -7.15042212e-122 -5.34968899e+000 -2.99601936e-119 -5.34968899e+000
 -5.34968899e+000 -3.54692132e-133]
```

*** 偏微分_バイアス1 ***

```
[ 1.45851144 3.80500596 -2.34908486 1.89671252 -2.36301259 2.52873664
 -2.15348896 2.34379686 1.7417893 -2.76027336]
```

*** 偏微分_バイアス2 ***

-5.349688992274123

順伝播開始

*** 総入力1 ***

```
[-158.35360781 -410.00205346 289.03742807 -273.45551551 356.33498111
 -399.53907392 353.89947626 -242.87212438 -234.74017549 392.7196839 ]
```

*** 中間層出力1 ***

```
[1.69005928e-069 8.67702025e-179 1.00000000e+000 1.73691501e-119
 1.00000000e+000 3.03658114e-174 1.00000000e+000 3.32641611e-106
 1.13145452e-102 1.00000000e+000]
```

*** 総入力2 ***

7.956425222023095

*** 出力1 ***

7.956425222023095

出力合計: 7.956425222023095

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.66267451  5.32728556 -2.26906417  2.34703006 -2.28251745  3.33408651
 -2.08013116  3.04525892  2.10508048 -2.66624569]
 [-0.11210943 -0.35920377  0.15299657 -0.15825359  0.15390369 -0.22480801
  0.14025735 -0.20533318 -0.14193961  0.17977739]]
```

*** 偏微分_重み2 ***

```
[-3.22527580e-069 -1.65590544e-178 -1.90838028e+000 -3.31469437e-119
 -1.90838028e+000 -5.79495159e-174 -1.90838028e+000 -6.34806691e-106
 -2.15924551e-102 -1.90838028e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.48290913  1.54726306 -0.65902965  0.68167416 -0.66293704  0.96835599
 -0.60415573  0.88446857  0.61140204 -0.77438752]
```

*** 偏微分_バイアス2 ***

-1.9083802846188975

順伝播開始

*** 総入力1 ***

```
[-250.07204001 -665.51097304  470.00398563 -434.09186062  569.29216826
 -631.77260222  567.90688333 -391.70733764 -370.70947916  618.15556123]
```

*** 中間層出力1 ***

```
[2.48366459e-109 9.38116475e-290 1.00000000e+000 2.99433436e-189
 1.00000000e+000 4.21351981e-275 1.00000000e+000 7.65005828e-171
 1.00674345e-161 1.00000000e+000]
```

*** 総入力2 ***

8.62435832163971

*** 出力1 ***

8.62435832163971

出力合計: 8.62435832163971

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3.5670022  11.42883898 -5.2381477  5.03517754 -5.26700957  7.15274927
 -4.83282216  6.53311587  4.51611343 -6.09023711]
 [ 5.58941618 17.90874632 -8.20806545  7.89001556 -8.25329138 11.20820518
 -7.572929  10.23725288  7.07665319 -9.54327134]]
```

*** 偏微分_重み2 ***

[-1.47473181e-108 -5.57027793e-289 -5.93772531e+000 -1.77795349e-188
-5.93772531e+000 -2.50187232e-274 -5.93772531e+000 -4.54239447e-170
-5.97776606e-161 -5.93772531e+000]

*** 偏微分_バイアス1 ***

[1.50252117 4.81414689 -2.20645443 2.12095772 -2.21861186 3.01293821
-2.03571997 2.75193128 1.90231339 -2.56537835]

*** 偏微分_バイアス2 ***

-5.9377253057192885

順伝播開始

*** 総入力1 ***

[318.05488636 863.38745852 -627.3723983 557.10894548 -758.44298355
817.70060031 -750.51764935 501.77053106 472.48603995 -821.43574091]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.43264838e-273 1.00000000e+000
0.00000000e+000 1.00000000e+000 0.00000000e+000 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-9.540813899323682

*** 出力1 ***

-9.540813899323682

出力合計: -9.540813899323682

誤差逆伝播開始

*** 偏微分_重み1 ***

[[5.8056169 18.60146336 -16.81559631 8.19520432 -16.89154665
11.64174277 -15.74897752 10.63323368 7.35038079 -19.05787938]
[9.06349302 29.03984818 -26.25182516 12.79401973 -26.37039574
18.17461539 -24.58666326 16.60017201 11.47511559 -29.75238629]]

*** 偏微分_重み2 ***

[9.41979805e+000 9.41979805e+000 3.23348545e-272 9.41979805e+000
0.00000000e+000 9.41979805e+000 0.00000000e+000 9.41979805e+000
9.41979805e+000 0.00000000e+000]

*** 偏微分_バイアス1 ***

[-1.87461443 -6.00635078 5.42970024 -2.64620428 5.45422435 -3.7590801
5.08529257 -3.43343586 -2.37341356 6.153726]

*** 偏微分_バイアス2 ***

9.41979805487548

順伝播開始

*** 総入力1 ***

[-199.90721346 -526.78134763 371.75125852 -344.98739095 452.6196683
-502.97149633 449.90098646 -310.79777192 -295.57871093 495.57447326]

*** 中間層出力1 ***

[1.51844932e-087 1.66635510e-229 1.00000000e+000 1.49238125e-150
1.00000000e+000 3.64967834e-219 1.00000000e+000 1.05254983e-135
4.28348129e-129 1.00000000e+000]

*** 総入力2 ***

10.043176314800176

*** 出力1 ***

10.043176314800176

出力合計: 10.043176314800176

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.34444953 5.47338691 -2.54319613 2.92876956 -2.55468288 3.77154327
-2.38188036 3.52493498 2.72218691 -2.88231973]
[0.95463269 2.22869975 -1.03556001 1.19256104 -1.04023728 1.53572873
-0.96987409 1.43531269 1.10844298 -1.17364721]]

*** 偏微分_重み2 ***

[-2.74228339e-087 -3.00939773e-229 -1.80597624e+000 -2.69520507e-150
-1.80597624e+000 -6.59123237e-219 -1.80597624e+000 -1.90087999e-135
-7.73586543e-129 -1.80597624e+000]

*** 偏微分_バイアス1 ***

[0.75470494 1.76194543 -0.81868373 0.9428042 -0.82238145 1.21410263
-0.76675435 1.13471662 0.87630289 -0.92785147]

*** 偏微分_バイアス2 ***

-1.8059762414978913

順伝播開始

*** 総入力1 ***

[275.82135687 746.41663645 -546.62243077 481.74770421 -661.8496206
708.56765247 -652.66265584 433.6491892 409.00216271 -720.0066362]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 4.02619339e-238 1.00000000e+000
3.65058046e-288 1.00000000e+000 3.56623553e-284 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-14.030096609307815

*** 出力1 ***

-14.030096609307815

出力合計: -14.030096609307815

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.14228679 7.3360297 -5.81336247 3.92545618 -5.83825462 5.05503336
-5.46378614 4.72450205 3.64857159 -6.54825396]
[2.38032057 5.55713198 -4.40369298 2.97358094 -4.42254909 3.82924943
-4.13888465 3.57886793 2.76383748 -4.96038225]]

*** 偏微分_重み2 ***

[2.59639249e+000 2.59639249e+000 1.04535783e-237 2.59639249e+000
9.47833968e-288 2.59639249e+000 9.25934714e-284 2.59639249e+000
2.59639249e+000 0.00000000e+000]

*** 偏微分_バイアス1 ***

[-0.85330712 -1.99214355 1.57865399 -1.06598154 1.58541361 -1.3727251
1.48372441 -1.28296731 -0.99079184 1.77821825]

*** 偏微分_バイアス2 ***

2.5963924860791288

順伝播開始

*** 総入力1 ***

[-135.58361107 -366.49968137 252.97456484 -233.00439621 299.53286239
-335.09175275 301.41889421 -216.50187637 -199.45245057 321.74794764]

*** 中間層出力1 ***

[1.30853660e-059 6.77970443e-160 1.00000000e+000 6.41913436e-102
1.00000000e+000 2.96142575e-146 1.00000000e+000 9.42822140e-095
2.39277199e-087 1.00000000e+000]

*** 総入力2 ***

10.4935205252989

*** 出力1 ***

10.4935205252989

出力合計: 10.4935205252989

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.630832 1.39018639 -0.65104324 0.77263925 -0.65383094
0.97717 -0.6118939 0.91732122 0.72250419 -0.73334435]
[-6.6785946 -14.71785083 6.89257023 -8.17990251 6.92208343
-10.34526185 6.47809764 -9.71164507 -7.64912459 7.76388889]]

*** 偏微分_重み2 ***

[4.68209744e-059 2.42585776e-159 3.57811729e+000 2.29684157e-101
3.57811729e+000 1.05963287e-145 3.57811729e+000 3.37352820e-094
8.56161883e-087 3.57811729e+000]

*** 偏微分_バイアス1 ***

[-1.65784883 -3.65345904 1.71096469 -2.03052328 1.71829084 -2.56803734
1.60807883 -2.41075262 -1.89876659 1.9272549]

*** 偏微分_バイアス2 ***

3.5781172912012202

順伝播開始

*** 総入力1 ***

[110.84290029 292.10576085 -221.38046245 193.93665065 -275.24899132
289.91800063 -267.06173565 168.97556899 164.6556305 -305.21702784]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 7.17276756e-097 1.00000000e+000

2.88989403e-120 1.00000000e+000 1.03887161e-116 1.00000000e+000
1.00000000e+000 2.79208752e-133]

*** 総入力2 ***

-15.552797137870671

*** 出力1 ***

-15.552797137870671

出力合計: -15.552797137870671

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-11.00708599 -24.25669761 16.47510605 -13.48141275 16.55374973
-17.05017203 15.37066291 -16.00589928 -12.60663016 18.79690475]
[5.49523581 12.11004198 -8.22511906 6.73053179 -8.26438155
8.51221804 -7.67373103 7.99086979 6.2938007 -9.38426612]]

*** 偏微分_重み2 ***

[-7.88661193e+000 -7.88661193e+000 -5.65688342e-096 -7.88661193e+000
-2.27914728e-119 -7.88661193e+000 -8.19317725e-116 -7.88661193e+000
-7.88661193e+000 -2.20201108e-132]

*** 偏微分_バイアス1 ***

[2.8737613 6.33300756 -4.30136752 3.51976556 -4.32190003 4.45150738
-4.01301636 4.17886568 3.29137484 -4.90754932]

*** 偏微分_バイアス2 ***

-7.886611931334318

順伝播開始

*** 総入力1 ***

[267.87137079 730.85247109 -535.40190422 468.59739971 -644.69292126
688.09684416 -636.97630347 424.0507271 397.36020571 -698.40627874]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.00543540e-233 1.00000000e+000
1.03138729e-280 1.00000000e+000 2.31582800e-277 1.00000000e+000
1.00000000e+000 4.85296339e-304]

*** 総入力2 ***

-11.688357291516857

*** 出力1 ***

-11.688357291516857

出力合計: -11.688357291516857

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.64307159  7.17441547 -5.63445731  3.48928699 -5.66135331
    4.70979639 -5.2567397  4.35265695  3.19011288 -6.42850838]
  [ 4.30811771 11.6940557 -9.18397573  5.68742033 -9.22781531
    7.67680957 -8.56830874  7.0946843  5.19977661 -10.47825226]]
```

*** 偏微分_重み2 ***

```
[4.09688986e+000 4.09688986e+000 1.23129378e-232 4.09688986e+000
 4.22548014e-280 4.09688986e+000 9.48769227e-277 4.09688986e+000
 4.09688986e+000 1.98820565e-303]
```

*** 偏微分_バイアス1 ***

```
[-1.04815908 -2.84514759 2.2344486 -1.3837415 2.24511471 -1.86775715
 2.08465767 -1.72612688 -1.26509846 2.54934429]
```

*** 偏微分_バイアス2 ***

4.096889864324856

順伝播開始

*** 総入力1 ***

```
[-114.96987943 -287.65759767 201.67958743 -198.13837616 256.13829877
 -292.02908234 252.56362667 -171.37933987 -171.04453728 288.31969611]
```

*** 中間層出力1 ***

```
[1.17277791e-050 1.18002893e-125 1.00000000e+000 8.90423430e-087
 1.00000000e+000 1.49066819e-127 1.00000000e+000 3.72304583e-075
 5.20356880e-075 1.00000000e+000]
```

*** 総入力2 ***

9.506460018069136

*** 出力1 ***

9.506460018069136

出力合計: 9.506460018069136

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.82346441 -6.78991677 3.05047199 -3.56418795 3.06503338 -4.63254482
 2.84597723 -4.3199275 -3.30230982 3.48036798]
 [ 1.79790515 4.32363386 -1.94245739 2.2695777 -1.95172968 2.94987823
 -1.8122407 2.75081204 2.10282085 -2.21620343]]
```

*** 偏微分_重み2 ***

```
[1.80788419e-050 1.81906193e-125 1.54154011e+000 1.37262344e-086
 1.54154011e+000 2.29792481e-127 1.54154011e+000 5.73922449e-075
 8.02151005e-075 1.54154011e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.61200652 -1.47176403 0.66121207 -0.77256376 0.66436836 -1.00413791
 0.61688634 -0.93637582 -0.71579976 0.75439517]
```

*** 偏微分_バイアス2 ***

1.5415401147258505

順伝播開始

*** 総入力1 ***

```
[ 45.82207052 128.37402996 -101.91724506 82.36522575 -124.4082462
 124.34290734 -120.27331833 72.30744341 68.74292073 -135.42837545]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 5.46893621e-45 1.00000000e+00
 9.33652305e-55 1.00000000e+00 5.83393422e-53 1.00000000e+00
 1.00000000e+00 1.52828323e-59]
```

*** 総入力2 ***

-13.803741133066847

*** 出力1 ***

-13.803741133066847

出力合計: -13.803741133066847

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-3.41124662 -8.20342573 5.66405327 -4.30617225 5.69249747 -5.59693715
 5.26459331 -5.21923989 -3.98977695 6.50381187]]
```

```
[-0.12053227 -0.28985811  0.20013246 -0.15215338  0.2011375  -0.19776099  
 0.18601803 -0.18441552 -0.14097394  0.22980431]]
```

*** 偏微分_重み2 ***

```
[-1.06551603e+01 -1.06551603e+01 -5.82723919e-44 -1.06551603e+01  
 -9.94821497e-54 -1.06551603e+01 -6.21615043e-52 -1.06551603e+01  
 -1.06551603e+01 -1.62841028e-58]
```

*** 偏微分_バイアス1 ***

```
[ 3.32683355  8.0004277  -5.52389333  4.19961378 -5.55163367  5.45843803  
 -5.13431821  5.09008708  3.89104784 -6.34287166]
```

*** 偏微分_バイアス2 ***

-10.655160287148941

順伝播開始

*** 総入力1 ***

```
[-325.35325457 -871.92751454  620.02341791 -562.92716288  746.95165341  
 -819.79023467  743.04781668 -512.01505361 -480.80737949  811.83337397]
```

*** 中間層出力1 ***

```
[5.02200187e-142 0.00000000e+000 1.00000000e+000 3.34071517e-245  
 1.00000000e+000 0.00000000e+000 1.00000000e+000 4.31208750e-223  
 1.54172967e-209 1.00000000e+000]
```

*** 総入力2 ***

9.712782198015514

*** 出力1 ***

9.712782198015514

出力合計: 9.712782198015514

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 5.70383971 20.81314789 -11.04532747  8.52545943 -11.10079579  
 12.59512467 -10.26635067 11.40427929  7.52789361 -12.68291954]  
 [ 8.76059852 31.96717332 -16.96465617 13.09435943 -17.04985065  
 19.345009  -15.76821599 17.51597473 11.56218565 -19.47985423]]
```

*** 偏微分_重み2 ***

```
[-4.44832840e-141 0.00000000e+000 -8.85767968e+000 -2.95909849e-244
```

-8.85767968e+000 0.00000000e+000 -8.85767968e+000 -3.81950898e-222
-1.36561475e-208 -8.85767968e+000]

*** 偏微分_バイアス1 ***

[1.86493564 6.80509678 -3.61139616 2.78749648 -3.62953216 4.11812008
-3.35670079 3.72875956 2.46133093 -4.14682562]

*** 偏微分_バイアス2 ***

-8.857679681364342

順伝播開始

*** 総入力1 ***

[-184.39274965 -493.4010169 345.37212883 -317.30528777 415.24028774
-460.77536046 413.85629399 -290.62502838 -271.79415682 452.02861199]

*** 中間層出力1 ***

[8.30321574e-081 5.23191881e-215 1.00000000e+000 1.57059584e-138
1.00000000e+000 7.72331158e-201 1.00000000e+000 6.06951333e-127
9.14739598e-119 1.00000000e+000]

*** 総入力2 ***

12.812970086493033

*** 出力1 ***

12.812970086493033

出力合計: 12.812970086493033

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.9030945 -3.295366 2.27171574 -1.34984431 2.28049809 -1.99419837
2.14837959 -1.80565066 -1.19189874 2.53099729]
[-1.39540057 -5.09177675 3.51010158 -2.08568816 3.52367147 -3.0813005
3.31953089 -2.78996932 -1.84164135 3.9107259]]

*** 偏微分_重み2 ***

[2.11221848e-080 1.33092478e-214 2.54385595e+000 3.99536958e-138
2.54385595e+000 1.96469922e-200 2.54385595e+000 1.54399676e-126
2.32696577e-118 2.54385595e+000]

*** 偏微分_バイアス1 ***

[-0.53559485 -1.95437028 1.34727789 -0.80054707 1.3524864 -1.18269171

1. 27413138 -1. 07087043 -0. 70687489 1. 50104902]

*** 偏微分_バイアス2 ***

2. 543855954620712

順伝播開始

*** 総入力1 ***

[-287. 45866422 -764. 1353993 542. 25780176 -497. 44018024 659. 33063654
-727. 16428535 653. 96351644 -448. 89479589 -425. 48666535 721. 68738016]

*** 中間層出力1 ***

[1. 43975421e-125 0. 00000000e+000 1. 00000000e+000 9. 21456092e-217
1. 00000000e+000 0. 00000000e+000 1. 00000000e+000 1. 11549387e-195
1. 63489218e-185 1. 00000000e+000]

*** 総入力2 ***

11. 922620502375784

*** 出力1 ***

11. 922620502375784

出力合計: 11. 922620502375784

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4. 91461978 17. 93330696 -11. 54539139 7. 34582207 -11. 59318476
10. 85238226 -10. 87419883 9. 8263099 6. 48628586 -12. 95639569]
[1. 94952705 7. 11376843 -4. 5798157 2. 91393424 -4. 59877433
4. 30491345 -4. 31356763 3. 89789197 2. 57297417 -5. 13953165]]

*** 偏微分_重み2 ***

[-7. 45499445e-125 0. 00000000e+000 -5. 17796331e+000 -4. 77126584e-216
-5. 17796331e+000 0. 00000000e+000 -5. 17796331e+000 -5. 77598635e-195
-8. 46541174e-185 -5. 17796331e+000]

*** 偏微分_バイアス1 ***

[1. 09019164 3. 97807809 -2. 56107078 1. 6294961 -2. 57167261 2. 40734317
-2. 41218266 2. 1797334 1. 43882842 -2. 87406856]

*** 偏微分_バイアス2 ***

-5. 177963310845415

順伝播開始

*** 総入力1 ***

[214.03101065 580.46805219 -427.65757283 374.94260956 -520.37304088
554.30342851 -511.24055969 336.00285105 318.16149757 -568.67991655]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.86498772e-186 1.00000000e+000
1.01125299e-226 1.00000000e+000 9.35504764e-223 1.00000000e+000
1.00000000e+000 1.06035252e-247]

*** 総入力2 ***

-7.77828749973263

*** 出力1 ***

-7.77828749973263

出力合計: -7.77828749973263

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.55407754 12.96872726 -15.44409166 5.31223623 -15.49997275
7.84805535 -14.65931807 7.10603646 4.69065034 -17.09386995]
[0.80315316 2.93068289 -3.49006763 1.2004632 -3.50269568
1.77350954 -3.31272389 1.60582755 1.05999675 -3.86288579]]

*** 偏微分_重み2 ***

[5.55642492e+000 5.55642492e+000 1.03626642e-185 5.55642492e+000
5.61895128e-226 5.55642492e+000 5.19806198e-222 5.55642492e+000
5.55642492e+000 5.89176916e-247]

*** 偏微分_バイアス1 ***

[-0.92004526 -3.35721883 3.99801725 -1.37518039 4.01248321 -2.03162875
3.79486264 -1.83954207 -1.21427024 4.42509591]

*** 偏微分_バイアス2 ***

5.556424916262324

順伝播開始

*** 総入力1 ***

[-68.52291347 -169.98236708 116.85081018 -117.34282378 148.48254124
-172.11088221 147.2035445 -102.07273197 -101.87687862 167.93151103]

*** 中間層出力1 ***

[1. 74131281e-30 1. 50520605e-74 1. 00000000e+00 1. 09309810e-51
1. 00000000e+00 1. 79140416e-75 1. 00000000e+00 4. 68140004e-45
5. 69421397e-45 1. 00000000e+00]

*** 総入力2 ***

13. 345957917033317

*** 出力1 ***

13. 345957917033317

出力合計: 13. 345957917033317

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-7. 48563718 -21. 05023141 13. 76273479 -10. 01878603 13. 81253225
-13. 67238532 13. 06339739 -12. 6032871 -9. 12320726 15. 23290613]
[4. 99351829 14. 0421868 -9. 18084409 6. 68333104 -9. 21406298
9. 12057378 -8. 71433016 8. 40739982 6. 08590842 -10. 16156588]]

*** 偏微分_重み2 ***

[1. 51081783e-29 1. 30596417e-73 8. 67631489e+00 9. 48406333e-51
8. 67631489e+00 1. 55427866e-74 8. 67631489e+00 4. 06173008e-44
4. 94047935e-44 8. 67631489e+00]

*** 偏微分_バイアス1 ***

[-2. 67041289 -7. 50942211 4. 90969353 -3. 57408391 4. 92745819 -4. 87746242
4. 66021315 -4. 49607422 -3. 25459673 5. 43415984]

*** 偏微分_バイアス2 ***

8. 67631488603133

順伝播開始

*** 総入力1 ***

[-356. 38919227 -961. 6766595 683. 14012253 -615. 3927789 820. 27481575
-896. 85691942 814. 70978297 -563. 54249045 -525. 79479429 892. 37189947]

*** 中間層出力1 ***

[1. 66778624e-155 0. 00000000e+000 1. 00000000e+000 5. 47408986e-268
1. 00000000e+000 0. 00000000e+000 1. 00000000e+000 1. 80553569e-245
4. 46912217e-229 1. 00000000e+000]

*** 総入力2 ***

10.309247706922353

*** 出力1 ***

10.309247706922353

出力合計: 10.309247706922353

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 10.18987955 28.6547848 -14.78124013 13.63814735 -14.8490273
    18.61163667 -13.82926188 17.15631874 12.41903406 -16.78252185]
  [ 14.73631292 41.4397318 -21.37620753 19.72309938 -21.4742394
    26.91561767 -19.99948375 24.81097842 17.96005254 -24.27040403]]
```

*** 偏微分_重み2 ***

```
[-1.62330869e-154 0.00000000e+000 -9.73331383e+000 -5.32810345e-267
 -9.73331383e+000 0.00000000e+000 -9.73331383e+000 -1.75738456e-244
 -4.34993686e-228 -9.73331383e+000]
```

*** 偏微分_バイアス1 ***

```
[ 2.99573806 8.42426342 -4.34555909 4.00949952 -4.36548794 5.47166315
 -4.06568557 5.04381203 3.65109056 -4.93391892]
```

*** 偏微分_バイアス2 ***

-9.733313830925187

順伝播開始

*** 総入力1 ***

```
[-140.93575507 -377.46861983 260.40272828 -240.29830403 310.89427821
 -347.42713718 310.28880601 -223.00343953 -206.4588138 338.42921776]
```

*** 中間層出力1 ***

```
[6.19982272e-062 1.16804968e-164 1.00000000e+000 4.36287276e-105
 1.00000000e+000 1.30110234e-151 1.00000000e+000 1.41526175e-097
 2.16808560e-090 1.00000000e+000]
```

*** 総入力2 ***

13.715907547746166

*** 出力1 ***

13.715907547746166

出力合計: 13.715907547746166

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.97216746 -5.54589815  3.71914727 -2.63955136  3.73226692
 -3.60212935  3.5348997  -3.32046452 -2.403602  4.1064789 ]
 [-4.22527316 -11.8818179  7.96809271 -5.65511081  7.99620092
 -7.71738749  7.57335122 -7.11393425 -5.14960074  8.79793195]]
```

*** 偏微分_重み2 ***

```
[3.88386333e-061 7.31721779e-164 6.26447481e+000 2.73311065e-104
 6.26447481e+000 8.15072284e-151 6.26447481e+000 8.86587157e-097
 1.35819176e-089 6.26447481e+000]
```

*** 偏微分_バイアス1 ***

```
[-1.92809211 -5.42195463  3.63602923 -2.58056086  3.64885567 -3.52162651
 3.45589935 -3.24625652 -2.34988466  4.01470451]
```

*** 偏微分_バイアス2 ***

6.264474814015685

順伝播開始

*** 総入力1 ***

```
[ 172.26539683  484.04511122 -351.35907576  298.15644253 -412.78362361
 435.19894773 -407.86747221  279.56675609  252.57348662 -442.85020092]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 2.55089294e-153 1.00000000e+000
 5.37464827e-180 1.00000000e+000 7.33512421e-178 1.00000000e+000
 1.00000000e+000 4.70545291e-193]
```

*** 総入力2 ***

-10.8654590195397

*** 出力1 ***

-10.8654590195397

出力合計: -10.8654590195397

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.14384594  0.40450668 -0.37343978  0.19252358 -0.37498695  0.26273209
 -0.35171198  0.24218802  0.17531391 -0.41911673]
 [-2.37823423 -6.68779152  6.17415611 -3.18303163  6.19973568 -4.3438032
  5.81492588 -4.00414395 -2.89850059  6.92934236]]
```

*** 偏微分_重み2 ***

```
[-2.01996641e+000 -2.01996641e+000 -5.15271807e-153 -2.01996641e+000
 -1.08566090e-179 -2.01996641e+000 -1.48167045e-177 -2.01996641e+000
 -2.01996641e+000 -9.50485684e-193]
```

*** 偏微分_バイアス1 ***

```
[ 0.48894175  1.37494468 -1.26934625  0.65440024 -1.27460516  0.89304355
 -1.19549202  0.82321292  0.59590344 -1.42460517]
```

*** 偏微分_バイアス2 ***

-2.0199664126895573

順伝播開始

*** 総入力1 ***

```
[-186.21651892 -502.61055747  348.74597619 -318.58485056  415.36152172
 -461.11227      414.27285417 -295.93281595 -273.06297991  450.72460404]
```

*** 中間層出力1 ***

```
[1.34027339e-081 5.23610495e-219 1.00000000e+000 4.36875190e-139
 1.00000000e+000 5.51423918e-201 1.00000000e+000 3.00615256e-129
 2.57190317e-119 1.00000000e+000]
```

*** 総入力2 ***

11.664739011728948

*** 出力1 ***

11.664739011728948

出力合計: 11.664739011728948

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -0.49266875 -1.5012647  0.89372087 -0.68102113  0.89742356 -0.95268465
  0.84172161 -0.87319181 -0.61443034  1.00303552]
 [-1.74591426 -5.32016588  3.16715851 -2.41339544  3.18028007 -3.37611375
  2.98288408 -3.09440786 -2.17741169  3.5545466 ]]
```

*** 偏微分_重み2 ***

[2.49385821e-081 9.74286551e-219 1.86070860e+000 8.12897423e-139
1.86070860e+000 1.02603923e-200 1.86070860e+000 5.59357392e-129
4.78556234e-119 1.86070860e+000]

*** 偏微分_バイアス1 ***

[-0.50691752 -1.54468369 0.91956871 -0.70071736 0.92337849 -0.98023783
0.86606555 -0.89844592 -0.63220065 1.03204492]

*** 偏微分_バイアス2 ***

1.8607085988424377

順伝播開始

*** 総入力1 ***

[-88.1654882 -244.72670668 160.04203716 -147.27805759 181.11637788
-207.08596623 184.45263625 -145.42506257 -126.79529773 190.93712148]

*** 中間層出力1 ***

[5.13115317e-039 5.20645017e-107 1.00000000e+000 1.09132042e-064
1.00000000e+000 1.15799741e-090 1.00000000e+000 6.96141937e-064
8.58028797e-056 1.00000000e+000]

*** 総入力2 ***

11.013491002134094

*** 出力1 ***

11.013491002134094

出力合計: 11.013491002134094

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.33966721 13.22387351 -7.46440214 5.99876711 -7.49701727
8.39171225 -7.00636723 7.69150044 5.41220282 -8.42729903]
[-9.9291152 -30.25609044 17.0784775 -13.7251192 17.15310058
-19.20015376 16.03049821 -17.59807613 -12.38306597 19.28157595]]

*** 偏微分_重み2 ***

[3.99791983e-038 4.05658722e-106 7.79146461e+000 8.50298442e-064
7.79146461e+000 9.02249583e-090 7.79146461e+000 5.42396526e-063
6.68530100e-055 7.79146461e+000]

*** 偏微分_バイアス1 ***

[-2.12264828 -6.4681532 3.65104041 -2.93415879 3.66699335 -4.1046128
3.42700319 -3.76212032 -2.64725438 4.12201925]

*** 偏微分_バイアス2 ***

7.791464608957785

順伝播開始

*** 総入力1 ***

[-47.55372455 -110.88660296 75.10429358 -81.28932229 100.6373231
-120.59357118 99.00054364 -67.53758166 -71.29143485 117.80429432]

*** 中間層出力1 ***

[2.22679293e-21 6.95921441e-49 1.00000000e+00 4.97159669e-36
1.00000000e+00 4.23523473e-53 1.00000000e+00 4.66445560e-30
1.09275609e-31 1.00000000e+00]

*** 総入力2 ***

8.28647838899887

*** 出力1 ***

8.28647838899887

出力合計: 8.28647838899887

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-4.03621481 -12.29919061 5.35375015 -5.57930171 5.38408465
-7.80491952 4.92774345 -7.1536702 -5.03375309 6.24931621]
[3.73497489 11.38124956 -4.95417694 5.16289463 -4.98224745
7.22240509 -4.55996494 6.61976129 4.65806263 -5.78290309]]

*** 偏微分_重み2 ***

[1.00577808e-20 3.14327623e-48 4.51671129e+00 2.24552669e-35
4.51671129e+00 1.91293325e-52 4.51671129e+00 2.10679993e-29
4.93566379e-31 4.51671129e+00]

*** 偏微分_バイアス1 ***

[-1.230499 -3.74958779 1.63216888 -1.70093157 1.6414168 -2.37944365
1.50229452 -2.18090079 -1.53461311 1.90519527]

*** 偏微分_バイアス2 ***

4. 516711288640661

順伝播開始

*** 総入力1 ***

[187.96085206 507.89620687 -377.71295155 329.69665704 -461.9200377
489.2414488 -452.40360608 293.60017357 279.81003487 -507.01491976]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 9.14848958e-165 1.00000000e+000
2.45853585e-201 1.00000000e+000 3.33895284e-197 1.00000000e+000
1.00000000e+000 6.40056193e-221]

*** 総入力2 ***

-10.867497392072677

*** 出力1 ***

-10.867497392072677

出力合計: -10.867497392072677

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.11205884 3.38867584 -1.97464912 1.5372105 -1.98816209 2.15041323
-1.78487797 1.97098087 1.38690082 -2.37359262]
[-0.09457407 -0.28818697 0.16793231 -0.13073072 0.1690815 -0.18288001
0.15179339 -0.16762034 -0.11794777 0.20186011]]

*** 偏微分_重み2 ***

[1.21560735e+000 1.21560735e+000 1.11209712e-164 1.21560735e+000
2.98861426e-201 1.21560735e+000 4.05885562e-197 1.21560735e+000
1.21560735e+000 7.78057015e-221]

*** 偏微分_バイアス1 ***

[-0.26044865 -0.79364152 0.46247077 -0.36002088 0.46563556 -0.50363543
0.4180256 -0.46161165 -0.32481775 0.55590494]

*** 偏微分_バイアス2 ***

1.2156073525038735

順伝播開始

*** 総入力1 ***

[-310.46117349 -836.61029417 590.12569072 -534.91628411 708.41378543

-778.74688983 703.87788724 -490.80890099 -457.38685353 770.90433524]

*** 中間層出力1 ***

[1.47375573e-135 0.00000000e+000 1.00000000e+000 4.88438099e-233
1.00000000e+000 0.00000000e+000 1.00000000e+000 6.98880030e-214
2.28777556e-199 1.00000000e+000]

*** 総入力2 ***

6.620536923299366

*** 出力1 ***

6.620536923299366

出力合計: 6.620536923299366

誤差逆伝播開始

*** 偏微分_重み1 ***

[[9.07559721 26.30951707 -9.24535859 12.29398204 -9.30862665
16.93590764 -8.35684513 15.57761025 11.15614242 -11.11322243]
[13.53138254 39.22652491 -13.78449054 18.32987627 -13.87882089
25.25081708 -12.45974956 23.22564549 16.63339914 -16.56940701]]

*** 偏微分_重み2 ***

[-1.57435922e-134 0.00000000e+000 -1.06826334e+001 -5.21780515e-232
-1.06826334e+001 0.00000000e+000 -1.06826334e+001 -7.46587915e-213
-2.44394676e-198 -1.06826334e+001]

*** 偏微分_バイアス1 ***

[3.13754969 9.09553556 -3.19623837 4.25018637 -3.21811094 5.85495925
-2.88906793 5.38537852 3.8568207 -3.84198272]

*** 偏微分_バイアス2 ***

-10.68263340163897

順伝播開始

*** 総入力1 ***

[-18.5444604 -28.68848277 20.52997969 -32.59598026 38.14432904
-50.82481496 36.74142531 -19.57924283 -29.66798677 51.20842317]

*** 中間層出力1 ***

[8.83574498e-09 3.47336351e-13 9.99999999e-01 6.97823584e-15
1.00000000e+00 8.45402094e-23 1.00000000e+00 3.13937269e-09

1.30423862e-13 1.00000000e+00]

*** 総入力2 ***

10.359458594407153

*** 出力1 ***

10.359458594407153

出力合計: 10.359458594407153

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-8.35648837 -24.22487122 12.695894 -11.3198631 12.75414898
-15.59398375 11.87778228 -14.34331163 -10.2721807 14.41575684]
[9.56408564 27.72561063 -14.53057936 12.95569805 -14.59725277
17.84747244 -13.5942422 16.41606553 11.75661492 -16.49897981]]

*** 偏微分_重み2 ***

[6.84676853e-08 2.69148963e-12 7.74894311e+00 5.40739526e-14
7.74894312e+00 6.55097274e-22 7.74894312e+00 2.43268204e-08
1.01064709e-12 7.74894312e+00]

*** 偏微分_バイアス1 ***

[-2.27590831 -6.59769788 3.45775514 -3.08299005 3.47362101 -4.24705637
3.23494058 -3.90643302 -2.7976514 3.92616363]

*** 偏微分_バイアス2 ***

7.748943122917339

順伝播開始

*** 総入力1 ***

[225.00220641 608.150311 -448.15911107 393.73384411 -547.05962628
583.02817163 -536.47398362 352.09043408 334.44103713 -600.08063977]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.32793607e-195 1.00000000e+000
2.60029749e-238 1.00000000e+000 1.02874853e-233 1.00000000e+000
1.00000000e+000 2.44505961e-261]

*** 総入力2 ***

-11.257786681784937

*** 出力1 ***

-11.257786681784937

出力合計: -11.257786681784937

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.24640191 9.41109045 -6.06857129 4.39763971 -6.10516208 6.05808758
-5.55470355 5.57221552 3.99062686 -7.14884189]
[-0.01401912 -0.04064044 0.02620625 -0.01899057 0.02636426 -0.02616098
0.02398719 -0.02406281 -0.01723295 0.03087124]]

*** 偏微分_重み2 ***

[2.95755025e+000 2.95755025e+000 6.88498790e-195 2.95755025e+000
7.69051049e-238 2.95755025e+000 3.04257549e-233 2.95755025e+000
2.95755025e+000 7.23138667e-261]

*** 偏微分_バイアス1 ***

[-0.68314719 -1.98039558 1.27702224 -0.92540459 1.28472211 -1.27481613
1.16888797 -1.17257305 -0.83975601 1.50434585]

*** 偏微分_バイアス2 ***

2.9575502546070407

順伝播開始

*** 総入力1 ***

[-207.93452723 -555.05014324 386.78888657 -356.71407097 466.91598052
-519.4032115 463.49218815 -326.67698689 -305.90128002 511.11547484]

*** 中間層出力1 ***

[4.95658120e-091 8.80614048e-242 1.00000000e+000 1.20516735e-155
1.00000000e+000 2.66717408e-226 1.00000000e+000 1.33655621e-142
1.40851696e-133 1.00000000e+000]

*** 総入力2 ***

7.440300003687531

*** 出力1 ***

7.440300003687531

出力合計: 7.440300003687531

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 4.10905259 10.74284061 -4.0390259 5.34789336 -4.06337943 7.13469234
   -3.69701375 6.61184803 4.90990903 -4.75801571]
 [ 2.54867156 6.66332974 -2.50523697 3.3170721 -2.52034243 4.42534795
   -2.29310129 4.10104974 3.04540894 -2.95119594]]
```

*** 偏微分_重み2 ***

```
[-2.12993461e-090 -3.78416143e-241 -4.29718494e+000 -5.17882701e-155
 -4.29718494e+000 -1.14613403e-225 -4.29718494e+000 -5.74342924e-142
 -6.05265786e-133 -4.29718494e+000]
```

*** 偏微分_バイアス1 ***

```
[ 1.48451742 3.88117058 -1.4592182 1.93208548 -1.46801664 2.57761974
 -1.33565614 2.38872669 1.77385062 -1.71897464]
```

*** 偏微分_バイアス2 ***

-4.297184943664192

順伝播開始

*** 総入力1 ***

```
[-330.38211885 -893.80309851 620.74156299 -565.08655193 741.36434048
 -820.85941394 735.93489599 -524.52589267 -483.84374339 806.74989058]
```

*** 中間層出力1 ***

```
[3.28752347e-144 0.00000000e+000 1.00000000e+000 3.85503831e-246
 1.00000000e+000 0.00000000e+000 1.00000000e+000 1.58964152e-228
 7.40171129e-211 1.00000000e+000]
```

*** 総入力2 ***

8.94431473397

*** 出力1 ***

8.94431473397

出力合計: 8.94431473397

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 7.73745097 20.22904324 -8.93020072 10.07021978 -8.97605904
   13.4348079 -8.2861831 12.45027872 9.2454841 -10.28407689]
 [ 14.88507539 38.91602479 -17.17965147 19.37278584 -17.26787234
```

25. 84547925 -15. 94070976 23. 95147163 17. 78618415 -19. 78419773]]

*** 偏微分_重み2 ***

[-2. 85841317e-143 0. 00000000e+000 -8. 69473083e+000 -3. 35185205e-245
-8. 69473083e+000 0. 00000000e+000 -8. 69473083e+000 -1. 38215051e-227
-6. 43558874e-210 -8. 69473083e+000]

*** 偏微分_バイアス1 ***

[3. 00370581 7. 85298608 -3. 46673548 3. 90929491 -3. 48453784 5. 21543991
-3. 21672557 4. 8332422 3. 5891296 -3. 992315]

*** 偏微分_バイアス2 ***

-8. 694730833035958

順伝播開始

*** 総入力1 ***

[50. 38353463 156. 16116418 -108. 25324359 84. 31426868 -117. 21528491
120. 35442182 -115. 71074461 88. 62836239 70. 65676416 -119. 97836729]

*** 中間層出力1 ***

[1. 00000000e+00 1. 00000000e+00 9. 68754337e-48 1. 00000000e+00
1. 24179117e-51 1. 00000000e+00 5. 59064759e-51 1. 00000000e+00
1. 00000000e+00 7. 83532721e-53]

*** 総入力2 ***

-11. 797552202173378

*** 出力1 ***

-11. 797552202173378

出力合計: -11. 797552202173378

誤差逆伝播開始

*** 偏微分_重み1 ***

[[6. 73527114 17. 60891172 -16. 34041772 8. 76589214 -16. 40495872
11. 69468786 -15. 43402755 10. 8376781 8. 04797891 -18. 2458626]
[-11. 8710521 -31. 03606436 28. 80031794 -15. 45006284 28. 91407275
-20. 61212475 27. 20278686 -19. 10162765 -14. 18472619 32. 15870322]]

*** 偏微分_重み2 ***

[-1. 05656359e+01 -1. 05656359e+01 -1. 02355056e-46 -1. 05656359e+01
-1. 31203133e-50 -1. 05656359e+01 -5. 90687467e-50 -1. 05656359e+01

-1.05656359e+01 -8.27852142e-52]

*** 偏微分_バイアス1 ***

[2.87056085 7.50488756 -6.96425762 3.73600799 -6.99176488 4.98425563
-6.5779557 4.61899956 3.43003462 -7.77635492]

*** 偏微分_バイアス2 ***

-10.565635869180646

順伝播開始

*** 総入力1 ***

[-36.69680587 -87.77146401 57.4426954 -61.3518607 72.74802316
-88.27261649 73.23905871 -54.14007645 -54.02566056 82.93930575]

*** 中間層出力1 ***

[1.15552596e-16 7.60917397e-39 1.00000000e+00 2.26582020e-27
1.00000000e+00 4.60988142e-39 1.00000000e+00 3.07088496e-24
3.44313251e-24 1.00000000e+00]

*** 総入力2 ***

12.72706503637523

*** 出力1 ***

12.72706503637523

出力合計: 12.72706503637523

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.3178061 -10.36880331 7.48303173 -3.82130659 7.51258803
-5.98982835 7.06795382 -5.35528621 -3.28975349 8.35562291]
[1.54139973 6.89551669 -4.97640553 2.54126562 -4.99606122
3.98338749 -4.70036822 3.5614009 2.18776935 -5.55670076]]

*** 偏微分_重み2 ***

[1.20310632e-15 7.92249207e-38 1.04117636e+01 2.35911844e-26
1.04117636e+01 4.79969957e-38 1.04117636e+01 3.19733283e-23
3.58490818e-23 1.04117636e+01]

*** 偏微分_バイアス1 ***

[-1.67175591 -7.47867056 5.39726017 -2.75618047 5.41857814 -4.32026258
5.09787838 -3.86258859 -2.37278901 6.02663097]

*** 偏微分_バイアス2 ***

10.411763621115302

順伝播開始

*** 総入力1 ***

[82.09823046 211.73850655 -174.74393841 147.25960922 -222.93790757
224.56805203 -214.28778784 121.4162002 124.54903923 -250.75870308]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.28727639e-076 1.00000000e+000
1.51111298e-097 1.00000000e+000 8.62970998e-094 1.00000000e+000
1.00000000e+000 1.24991063e-109]

*** 総入力2 ***

-7.349214079752932

*** 出力1 ***

-7.349214079752932

出力合計: -7.349214079752932

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.30807453 -1.37818441 1.16358436 -0.50791446 1.16993604 -0.79614665
1.07438359 -0.71180557 -0.43726232 1.35110531]
[0.23573186 1.05455641 -0.89034917 0.38864498 -0.89520934 0.60919391
-0.8220947 0.54465797 0.33458351 -1.03383608]]

*** 偏微分_重み2 ***

[-5.25442267e-001 -5.25442267e-001 -6.76389423e-077 -5.25442267e-001
-7.94002632e-098 -5.25442267e-001 -4.53441438e-094 -5.25442267e-001
-5.25442267e-001 -6.56755875e-110]

*** 偏微分_バイアス1 ***

[0.06635038 0.29682124 -0.25060257 0.10939015 -0.25197054 0.17146706
-0.23139129 0.15330242 0.09417371 -0.29098918]

*** 偏微分_バイアス2 ***

-0.5254422673478514

順伝播開始

*** 総入力1 ***

[-348.31165135 -931.58205219 650.61895017 -596.27657545 784.73372009
-869.33370313 776.60458122 -547.26194915 -510.98563314 859.30051646]

*** 中間層出力1 ***

[5.37244323e-152 0.00000000e+000 1.00000000e+000 1.09742183e-259
1.00000000e+000 0.00000000e+000 1.00000000e+000 2.12400399e-238
1.20714432e-222 1.00000000e+000]

*** 総入力2 ***

9.119728727699224

*** 出力1 ***

9.119728727699224

出力合計: 9.119728727699224

誤差逆伝播開始

*** 偏微分_重み1 ***

[[7.62708947 35.72948338 -18.89959724 12.87513043 -19.00276493
20.44446017 -17.45074778 18.22956023 11.01971869 -21.94541885]
[4.01810294 18.82300488 -9.956685 6.78287565 -10.01103579
10.77054961 -9.19340219 9.60369613 5.80540772 -11.5612846]]

*** 偏微分_重み2 ***

[-5.60970664e-151 0.00000000e+000 -1.04416304e+001 -1.14588731e-258
-1.04416304e+001 0.00000000e+000 -1.04416304e+001 -2.21780646e-237
-1.26045548e-221 -1.04416304e+001]

*** 偏微分_バイアス1 ***

[1.58053815 7.40411027 -3.91650505 2.66807344 -3.93788417 4.23664221
-3.61626446 3.77765535 2.2835822 -4.54768124]

*** 偏微分_バイアス2 ***

-10.441630373266092

順伝播開始

*** 総入力1 ***

[-6.87111975 -6.8176622 0.10600113 -10.15732736 4.03078926
-13.46020038 5.40416064 -6.87624701 -10.28612964 7.9637946]

*** 中間層出力1 ***

[1.03623997e-03 1.09308000e-03 5.26475496e-01 3.87892989e-05
9.82549617e-01 1.42662105e-06 9.95522312e-01 1.03094596e-03
3.41016855e-05 9.99652290e-01]

*** 総入力2 ***

11.461125713571592

*** 出力1 ***

11.461125713571592

出力合計: 11.461125713571592

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.69609772 -7.94545467 6.90215907 -2.86314791 5.88293945 -4.54640159
5.50225702 -4.05385512 -2.45054485 6.49146463]
[2.00147831 9.37602532 -8.14488547 3.37865465 -6.94215643 5.36497636
-6.49293254 4.78374742 2.89176284 -7.66024593]]

*** 偏微分_重み2 ***

[1.11883260e-02 1.18020303e-02 5.68437783e+00 4.18809674e-04
1.06086291e+01 1.54032868e-05 1.07486958e+01 1.11311664e-02
3.68197316e-04 1.07932873e+01]

*** 偏微分_バイアス1 ***

[-1.63433591 -7.65612838 6.65082342 -2.75888906 5.66871772 -4.38084863
5.30189748 -3.90623779 -2.36131055 6.25508403]

*** 偏微分_バイアス2 ***

10.797041582798483

順伝播開始

*** 総入力1 ***

[-296.1790339 -801.63610662 551.57897556 -505.49726431 660.1075891
-735.27173318 654.17156139 -470.21533748 -433.35170866 720.96089897]

*** 中間層出力1 ***

[2.35006525e-129 0.00000000e+000 1.00000000e+000 2.91962782e-220
1.00000000e+000 0.00000000e+000 1.00000000e+000 6.13866065e-205
6.27688549e-189 1.00000000e+000]

*** 総入力2 ***

9. 370057144505811

*** 出力1 ***

9. 370057144505811

出力合計: 9. 370057144505811

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2. 960643 13. 85539843 -8. 60581347 4. 99148648 -7. 321967 7. 92577504
-6. 68263579 7. 07091748 4. 27217573 -8. 41311137]
[3. 36361344 15. 74124416 -9. 77714294 5. 67087319 -8. 3185533 9. 0045451
-7. 5922033 8. 03333366 4. 8536577 -9. 55821234]]

*** 偏微分_重み2 ***

[-1. 52577038e-128 0. 00000000e+000 -6. 49245965e+000 -1. 89555658e-219
-6. 49245965e+000 0. 00000000e+000 -6. 49245965e+000 -3. 98550066e-204
-4. 07524258e-188 -6. 49245965e+000]

*** 偏微分_バイアス1 ***

[0. 9840277 4. 60511308 -2. 86031069 1. 65901831 -2. 43359916 2. 63428659
-2. 22110491 2. 35015794 1. 41994129 -2. 79626237]

*** 偏微分_バイアス2 ***

-6. 492459650112767

順伝播開始

*** 総入力1 ***

[-205. 74549113 -557. 96993978 379. 69831836 -350. 06167815 452. 44473744
-508. 01002331 449. 17112585 -327. 74201865 -300. 55504973 494. 06823415]

*** 中間層出力1 ***

[4. 42454408e-090 4. 75044273e-243 1. 00000000e+000 9. 33565631e-153
1. 00000000e+000 2. 36619278e-221 1. 00000000e+000 4. 60733521e-143
2. 95529198e-131 1. 00000000e+000]

*** 総入力2 ***

11. 64241802204528

*** 出力1 ***

11. 64241802204528

出力合計: 11.64241802204528

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.24711303 -1.15645468 0.8639778 -0.41661941 0.75682027 -0.66153274
 0.70345785 -0.5901812 -0.35658142 0.84789372]
 [-0.36094511 -1.68917305 1.26196731 -0.60853425 1.1054479 -0.96626637
 1.0275042 -0.8620469 -0.52083988 1.23847415]]
```

*** 偏微分_重み2 ***

```
[3.97578813e-090 4.26863276e-243 8.98575776e-001 8.38879461e-153
 8.98575776e-001 2.12620351e-221 8.98575776e-001 4.14003981e-143
 2.65555378e-131 8.98575776e-001]
```

*** 偏微分_バイアス1 ***

```
[-0.13619237 -0.63736138 0.47616745 -0.22961308 0.41710931 -0.36459312
 0.38769947 -0.32526887 -0.19652411 0.46730298]
```

*** 偏微分_バイアス2 ***

0.8985757755798893

順伝播開始

*** 総入力1 ***

```
[ 112.61053448 307.20737949 -230.7844486 197.49174048 -281.96170617
 294.55213997 -274.38870731 176.45817756 167.30178235 -310.32676704]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 5.90999978e-101 1.00000000e+000
 3.51226199e-123 1.00000000e+000 6.83122387e-120 1.00000000e+000
 1.00000000e+000 1.68576677e-135]
```

*** 総入力2 ***

-6.7274989575135935

*** 出力1 ***

-6.7274989575135935

出力合計: -6.7274989575135935

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.18927725 0.88579127 -1.04498502 0.31911137 -0.91228049 0.50670375
```



```
-0.84619615 0.45205174 0.27312502 -1.0250664 ]  
[-0.04260082 -0.19936592 0.23519581 -0.07182271 0.20532787 -0.11404431  
0.19045421 -0.10174373 -0.06147252 0.23071271]]
```

*** 偏微分_重み2 ***

```
[5.55918692e-001 5.55918692e-001 3.28547935e-101 5.55918692e-001  
1.95253209e-123 5.55918692e-001 3.79760504e-120 5.55918692e-001  
5.55918692e-001 9.37149259e-136]
```

*** 偏微分_バイアス1 ***

```
[-0.06626424 -0.31010744 0.36583971 -0.11171798 0.31938107 -0.17739236  
0.29624555 -0.15825919 -0.09561858 0.35886639]
```

*** 偏微分_バイアス2 ***

```
0.5559186921217067
```

順伝播開始

*** 総入力1 ***

```
[ 270.72433509 746.49624597 -533.24522346 467.61870786 -638.41374762  
687.46447689 -627.18469049 432.08318145 397.97568914 -696.50759379]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 2.59741862e-232 1.00000000e+000  
5.50088084e-278 1.00000000e+000 4.14142487e-273 1.00000000e+000  
1.00000000e+000 3.24037606e-303]
```

*** 総入力2 ***

```
-6.99989911665323
```

*** 出力1 ***

```
-6.99989911665323
```

出力合計: -6.99989911665323

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3.51293725 15.66034564 -18.22484457 5.77728226 -15.91043878  
9.04894831 -14.75790857 8.09580127 4.97526688 -17.87745813]  
[ 2.67151978 11.90938526 -13.85963633 4.39350968 -12.09957618  
6.88154745 -11.22309959 6.15669785 3.78359274 -13.59545577]]
```

*** 偏微分_重み2 ***

[8. 22407372e+000 8. 22407372e+000 2. 13613622e-231 8. 22407372e+000
4. 52396495e-277 8. 22407372e+000 3. 40593834e-272 8. 22407372e+000
8. 22407372e+000 2. 66490916e-302]

*** 偏微分_バイアス1 ***

[-1. 04321332 -4. 65054741 5. 41210939 -1. 71564062 4. 72481589 -2. 68720526
4. 38255675 -2. 4041556 -1. 47747151 5. 30894838]

*** 偏微分_バイアス2 ***

8. 224073717654978

順伝播開始

*** 総入力1 ***

[1. 8406352 -1. 1684143 -19. 75013721 8. 43122192 -33. 6755092
19. 92355773 -28. 40768293 -3. 01744293 5. 87088657 -41. 83816855]

*** 中間層出力1 ***

[8. 63023814e-01 2. 37141727e-01 2. 64621053e-09 9. 99782092e-01
2. 37089424e-15 9. 99999998e-01 4. 59938812e-13 4. 66440516e-02
9. 97187560e-01 6. 75949525e-19]

*** 総入力2 ***

-6. 258356562095856

*** 出力1 ***

-6. 258356562095856

出力合計: -6. 258356562095856

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3. 04410567 -10. 16774171 7. 86337772 -3. 84554088 6. 86479324
-5. 25676222 6. 3675171 -6. 15791499 -3. 50365756 7. 71349272]
[3. 53821652 11. 81814154 -9. 13973953 4. 46973848 -7. 97906757
6. 11002539 -7. 40107493 7. 15745079 4. 0723616 -8. 96552561]]

*** 偏微分_重み2 ***

[-3. 83300946e+00 -1. 05323453e+00 -1. 17528043e-08 -4. 44040380e+00
-1. 05300223e-14 -4. 44137160e+00 -2. 04275918e-12 -2. 07163567e-01
-4. 42888052e+00 -3. 00214303e-18]

*** 偏微分_バイアス1 ***

```
[ 1.13148101  3.77930596 -2.92278375  1.42937104 -2.55161418  1.95391596  
-2.36677878  2.28887057  1.30229448 -2.86707214]
```

*** 偏微分_バイアス2 ***

-4.4413716095460005

順伝播開始

*** 総入力1 ***

```
[ -77.83528948 -222.16248004 135.0105276 -127.309412 148.33000032  
-177.98617352 151.09606449 -131.71316903 -110.18921189 156.38428433]
```

*** 中間層出力1 ***

```
[1.57240090e-34 3.28141254e-97 1.00000000e+00 5.13127009e-56  
1.00000000e+00 5.03022008e-78 1.00000000e+00 6.27621042e-58  
1.39776226e-48 1.00000000e+00]
```

*** 総入力2 ***

11.02421304539901

*** 出力1 ***

11.02421304539901

出力合計: 11.02421304539901

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 4.35783727 15.45447525 -9.47095444 6.06585784 -8.26822089  
8.81444923 -7.66928239 9.36958521 5.39568314 -9.29042718]  
[ -8.91154664 -31.60358415 19.36760069 -12.40435832 16.90807423  
-18.02508229 15.68327669 -19.16030598 -11.03388652 18.998432 ]]
```

*** 偏微分_重み2 ***

```
[1.37474752e-33 2.86893358e-96 8.74298353e+00 4.48626099e-55  
8.74298353e+00 4.39791314e-77 8.74298353e+00 5.48728044e-57  
1.22206124e-47 8.74298353e+00]
```

*** 偏微分_バイアス1 ***

```
[-2.08202701 -7.38362469 4.52490116 -2.89806137 3.95027582 -4.21124522  
3.6641233 -4.47647038 -2.5778746 4.43865135]
```

*** 偏微分_バイアス2 ***

8.742983530924594

順伝播開始

*** 総入力1 ***

[175.1112957 493.04166876 -352.23328915 302.28434061 -415.35779464
443.40594728 -408.27838709 283.78483769 256.5923317 -449.67748796]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.06420717e-153 1.00000000e+000
4.09639448e-181 1.00000000e+000 4.86350543e-178 1.00000000e+000
1.00000000e+000 5.09974363e-196]

*** 総入力2 ***

-10.042523628887928

*** 出力1 ***

-10.042523628887928

出力合計: -10.042523628887928

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.13621401 -0.48306441 0.36735389 -0.18960204 0.30657112 -0.27551545
0.27630246 -0.29286748 -0.16865422 0.35823055]
[-0.51755634 -1.83544295 1.39579131 -0.72040854 1.16484218 -1.04684361
1.0498339 -1.11277406 -0.64081558 1.36112643]]

*** 偏微分_重み2 ***

[-8.37472704e-001 -8.37472704e-001 -8.91244452e-154 -8.37472704e-001
-3.43061856e-181 -8.37472704e-001 -4.07305304e-178 -8.37472704e-001
-8.37472704e-001 -4.27089608e-196]

*** 偏微分_バイアス1 ***

[0.15684375 0.55622497 -0.42298998 0.21831745 -0.3530016 0.31724252
-0.31814872 0.33722253 0.19419706 -0.4124849]

*** 偏微分_バイアス2 ***

-0.8374727036575056

順伝播開始

*** 総入力1 ***

[-106.39290424 -284.9281724 190.58798249 -179.88963062 227.09621327
-259.60820863 226.58750392 -168.60709444 -155.17961201 248.64312865]

*** 中間層出力1 ***

[6.22513501e-047 1.80828546e-124 1.00000000e+000 7.49766564e-079
1.00000000e+000 1.79302991e-113 1.00000000e+000 5.95482871e-074
4.03971566e-068 1.00000000e+000]

*** 総入力2 ***

8.022791898831427

*** 出力1 ***

8.022791898831427

出力合計: 8.022791898831427

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.54390233 -2.01970118 0.96673923 -0.77106075 0.80678152 -1.13661003
0.72712561 -1.21044041 -0.68193078 0.94272998]
[-0.74818496 -2.77827463 1.32983389 -1.06066113 1.10979815 -1.56350595
1.00022452 -1.66506607 -0.9380551 1.29680708]]

*** 偏微分_重み2 ***

[1.59627714e-046 4.63688695e-124 2.56424501e+000 1.92258517e-078
2.56424501e+000 4.59776798e-113 2.56424501e+000 1.52696398e-073
1.03588207e-067 2.56424501e+000]

*** 偏微分_バイアス1 ***

[-0.57306037 -2.12797527 1.01856512 -0.81239652 0.85003224 -1.19754252
0.76610607 -1.27533087 -0.71848838 0.99326876]

*** 偏微分_バイアス2 ***

2.564245007032282

順伝播開始

*** 総入力1 ***

[-170.20202808 -454.36038668 314.37008308 -290.51226846 379.03721195
-423.37822472 375.36856268 -267.47606336 -249.77458438 417.24845334]

*** 中間層出力1 ***

[1.20836572e-074 4.71836214e-198 1.00000000e+000 6.79398966e-127
1.00000000e+000 1.34639734e-184 1.00000000e+000 6.86470128e-117
3.34407712e-109 1.00000000e+000]

*** 総入力2 ***
7.125306146370129

*** 出力1 ***
7.125306146370129

出力合計: 7.125306146370129

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.51158924 5.613064 -2.44801445 2.14289787 -2.00346707 3.15881622
-1.78209091 3.36400235 1.89519179 -2.38128901]
[0.31981706 1.18759353 -0.51794281 0.45338725 -0.42388694 0.6683319
-0.3770489 0.7117445 0.40097842 -0.50382526]]

*** 偏微分_重み2 ***

[-2.92969641e-074 -1.14397226e-197 -2.42451136e+000 -1.64721051e-126
-2.42451136e+000 -3.26435564e-184 -2.42451136e+000 -1.66435462e-116
-8.10775298e-109 -2.42451136e+000]

*** 偏微分_バイアス1 ***

[0.54183254 2.01201531 -0.87749624 0.76812652 -0.71814724 1.13228472
-0.63879446 1.20583415 0.67933573 -0.85357836]

*** 偏微分_バイアス2 ***

-2.4245113604897526

順伝播開始

*** 総入力1 ***

[136.76313897 393.75834547 -277.46294497 235.38222943 -321.59528518
343.27992388 -317.11837455 225.65650572 199.30586271 -344.10596803]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.15772325e-121 1.00000000e+000
2.15249544e-140 1.00000000e+000 1.89338888e-138 1.00000000e+000
1.00000000e+000 3.60310481e-150]

*** 総入力2 ***

-9.641943359353727

*** 出力1 ***

-9.641943359353727

出力合計: -9.641943359353727

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.48315723  1.79413321 -1.38174988  0.68494573 -1.15201179  1.00966906
    -1.03760657  1.07525379  0.60577013 -1.34726677]
  [-2.53721489 -9.42157375  7.25601553 -3.59687156  6.0495865  -5.30209882
    5.44880772 -5.64650541 -3.1810949  7.07493359]]
```

*** 偏微分_重み2 ***

```
[-3.20330416e+000 -3.20330416e+000 -1.01151480e-120 -3.20330416e+000
 -6.89509759e-140 -3.20330416e+000 -6.06510048e-138 -3.20330416e+000
 -3.20330416e+000 -1.15418406e-149]
```

*** 偏微分_バイアス1 ***

```
[ 0.56300065  2.09062  -1.61008888  0.79813541 -1.34238577  1.17652041
 -1.20907469  1.25294324  0.70587577 -1.56990732]
```

*** 偏微分_バイアス2 ***

-3.2033041557541893

順伝播開始

*** 総入力1 ***

```
[ -91.73287181 -241.3939164  162.67131935 -155.32968467  196.44052171
 -224.97215964  195.61348311 -143.47043267 -134.2750287  216.98406825]
```

*** 中間層出力1 ***

```
[1.44850488e-040 1.45866023e-105 1.00000000e+000 3.47676288e-068
 1.00000000e+000 1.97620723e-098 1.00000000e+000 4.91567064e-063
 4.84279379e-059 1.00000000e+000]
```

*** 総入力2 ***

8.198116413444334

*** 出力1 ***

8.198116413444334

出力合計: 8.198116413444334

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.80562125 -3.72346548 1.90211397 -1.25474268 1.585857 -1.97748065
 1.42836702 -2.12345281 -1.07852125 1.8546446 ]
[-0.12351597 -0.57087305 0.29162768 -0.19237422 0.2431399 -0.30318272
 0.2189939 -0.32556283 -0.16535636 0.28434979]]
```

*** 偏微分_重み2 ***

```
[4.57011559e-040 4.60215630e-105 3.15505710e+000 1.09693854e-067
 3.15505710e+000 6.23504666e-098 3.15505710e+000 1.55092215e-062
 1.52792909e-058 3.15505710e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.52823009 -2.44140347 1.24717892 -0.82271023 1.03981541 -1.29659537
 0.93655231 -1.39230647 -0.70716529 1.21605418]
```

*** 偏微分_バイアス2 ***

3.1550570960515696

順伝播開始

*** 総入力1 ***

```
[ 120.82642865 327.18805844 -249.45515309 212.18285396 -306.07618002
 317.99097207 -296.86048293 188.24843924 179.99214392 -339.3254649 ]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 4.60260317e-109 1.00000000e+000
 1.18250769e-133 1.00000000e+000 1.18885906e-129 1.00000000e+000
 1.00000000e+000 4.29361426e-148]
```

*** 総入力2 ***

-8.293178319757786

*** 出力1 ***

-8.293178319757786

出力合計: -8.293178319757786

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.06390382 -0.29535426 0.21714844 -0.09952922 0.17658859 -0.15685853
 0.15639056 -0.1684374 -0.08555091 0.21106051]
[ 0.02964029 0.13699315 -0.10071922 0.04616429 -0.08190648 0.07275516
 -0.0725381 0.07812574 0.03968078 -0.09789547]]
```


*** 偏微分_重み2 ***

[-1.23105531e-001 -1.23105531e-001 -5.66605908e-110 -1.23105531e-001
-1.45573238e-134 -1.23105531e-001 -1.46355125e-130 -1.23105531e-001
-1.23105531e-001 -5.28567664e-149]

*** 偏微分_バイアス1 ***

[0.01620927 0.07491689 -0.05507991 0.02524568 -0.04479187 0.03978732
-0.03966862 0.04272431 0.02170007 -0.0535357]

*** 偏微分_バイアス2 ***

-0.1231055310199416

順伝播開始

*** 総入力1 ***

[-154.46979947 -416.47838077 283.03786781 -262.48742609 337.54757433
-380.32119583 335.63187616 -245.14057554 -225.72298917 369.072026]

*** 中間層出力1 ***

[8.21520618e-068 1.33578758e-181 1.00000000e+000 1.00730103e-114
1.00000000e+000 6.73912172e-166 1.00000000e+000 3.44191986e-107
9.32720166e-099 1.00000000e+000]

*** 総入力2 ***

7.10246381699768

*** 出力1 ***

7.10246381699768

出力合計: 7.10246381699768

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.23243448 1.08525249 -0.49487417 0.36370223 -0.40243962 0.57494173
-0.35640896 0.617606 0.3121968 -0.48099998]
[0.30220684 1.41102443 -0.64342589 0.47287865 -0.52324426 0.74752819
-0.46339608 0.80299945 0.40591228 -0.62538693]]

*** 偏微分_重み2 ***

[-8.01057790e-068 -1.30251515e-181 -9.75091523e-001 -9.82210696e-115
-9.75091523e-001 -6.57126047e-166 -9.75091523e-001 -3.35618688e-107
-9.09487527e-099 -9.75091523e-001]

*** 偏微分_バイアス1 ***

[0.16115236 0.75243141 -0.34310806 0.25216342 -0.27902097 0.3986208
-0.24710682 0.42820095 0.21645348 -0.33348875]

*** 偏微分_バイアス2 ***

-0.9750915229944201

順伝播開始

*** 総入力1 ***

[16.56823561 56.6366913 -46.04542233 30.46019982 -51.71262261
46.34810367 -49.41136007 29.87496792 24.39969622 -53.30927286]

*** 中間層出力1 ***

[9.99999936e-01 1.00000000e+00 1.00629929e-20 1.00000000e+00
3.47931184e-23 1.00000000e+00 3.47471333e-22 1.00000000e+00
1.00000000e+00 7.04817964e-24]

*** 総入力2 ***

-8.164600160779525

*** 出力1 ***

-8.164600160779525

出力合計: -8.164600160779525

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.55823989 2.60646019 -1.99494449 0.87350675 -1.6360102 1.38084247
-1.45726773 1.48330961 0.74980573 -1.94106936]
[-1.1939775 -5.57476251 4.26683738 -1.86827818 3.49913971 -2.95338055
3.11684083 -3.17253984 -1.60370334 4.1516079]]

*** 偏微分_重み2 ***

[-7.42560786e+00 -7.42560833e+00 -7.47238436e-20 -7.42560833e+00
-2.58360070e-22 -7.42560833e+00 -2.58018603e-21 -7.42560833e+00
-7.42560833e+00 -5.23370214e-23]

*** 偏微分_バイアス1 ***

[0.96514643 4.50633462 -3.44907912 1.51021441 -2.82851411 2.3873521
-2.51948449 2.56450855 1.2963465 -3.35593388]

*** 偏微分_バイアス2 ***

-7.425608330295443

順伝播開始

*** 総入力1 ***

[272.02920369 759.25771864 -537.41603146 468.65412362 -636.03460936
685.8324867 -626.71342156 438.52872229 398.61644357 -689.15417144]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 4.01035716e-234 1.00000000e+000
5.93852865e-277 1.00000000e+000 6.63466930e-273 1.00000000e+000
1.00000000e+000 5.05994928e-300]

*** 総入力2 ***

-4.526052154255677

*** 出力1 ***

-4.526052154255677

出力合計: -4.526052154255677

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.40150903 7.29456199 -6.71375931 1.46250384 -5.5058067
3.16988462 -4.9042692 3.51472616 1.0462021 -6.53244869]
[1.34455166 24.42763337 -22.48267287 4.89755351 -18.43754671
10.6151376 -16.42315057 11.76992422 3.50346482 -21.87550968]]

*** 偏微分_重み2 ***

[9.79064384e+000 9.79064384e+000 3.92639787e-233 9.79064384e+000
5.81420190e-276 9.79064384e+000 6.49576842e-272 9.79064384e+000
9.79064384e+000 4.95401613e-299]

*** 偏微分_バイアス1 ***

[-0.27196431 -4.94101102 4.54760118 -0.99063489 3.72938795 -2.14713849
3.32193327 -2.38071877 -0.70865065 4.42478945]

*** 偏微分_バイアス2 ***

9.79064384447528

順伝播開始

*** 総入力1 ***

```
[ 213.16839546  607.01942853 -430.72370837  368.19767953 -504.44987197
 539.48532441 -496.67435785  348.96679734  312.52324652 -545.20440294]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 8.69100963e-188 1.00000000e+000
 8.32154963e-220 1.00000000e+000 1.98183313e-216 1.00000000e+000
 1.00000000e+000 1.66240292e-237]
```

*** 総入力2 ***

-9.323467638048564

*** 出力1 ***

-9.323467638048564

出力合計: -9.323467638048564

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.11362731  0.447038  -0.32473842  0.16494666 -0.26631085  0.24753111
   -0.23721503  0.26421078  0.14481053 -0.31596859]
 [ 1.21036948  4.76189352 -3.45914615  1.75702836 -2.83676985  2.63672621
  -2.52683826  2.81439973  1.54253622 -3.36572904]]
```

*** 偏微分_重み2 ***

```
[1.56110623e+000 1.56110623e+000 1.35675893e-187 1.56110623e+000
 1.29908229e-219 1.56110623e+000 3.09385204e-216 1.56110623e+000
 1.56110623e+000 2.59518756e-237]
```

*** 偏微分_バイアス1 ***

```
[-0.25371879 -0.9981926  0.72510947 -0.36830994  0.59464636 -0.55271303
 0.52967821 -0.58995712 -0.32334789  0.70552728]
```

*** 偏微分_バイアス2 ***

1.5611062280479135

順伝播開始

*** 総入力1 ***

```
[-156.22298995 -405.05326964  287.8503097  -267.98009883  355.31233077
 -394.13827757  349.66854622 -239.60684201 -230.83774988  396.9243213 ]
```

*** 中間層出力1 ***

```
[1.42304135e-068 1.22348914e-176 1.00000000e+000 4.14688334e-117
```

1. 00000000e+000 6. 72854162e-172 1. 00000000e+000 8. 71105363e-105
5. 60323725e-101 1. 00000000e+000]

*** 総入力2 ***

7. 168915928089786

*** 出力1 ***

7. 168915928089786

出力合計: 7. 168915928089786

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3. 16044099 11. 35117161 -4. 93419746 4. 42117738 -4. 04642707 6. 44998756
-3. 60433425 6. 85974854 3. 92650318 -4. 80094537]
[-1. 53311159 -5. 50638749 2. 39355056 -2. 1446875 1. 96289829 -3. 12885154
1. 74844163 -3. 32762422 -1. 90472391 2. 32891074]]

*** 偏微分_重み2 ***

[-3. 92915375e-068 -3. 37817095e-176 -2. 76109598e+000 -1. 14499429e-116
-2. 76109598e+000 -1. 85781492e-171 -2. 76109598e+000 -2. 40520551e-104
-1. 54710758e-100 -2. 76109598e+000]

*** 偏微分_バイアス1 ***

[0. 64603143 2. 32031342 -1. 00860818 0. 90374082 -0. 82713744 1. 31845356
-0. 73676845 1. 40221354 0. 80262358 -0. 98136988]

*** 偏微分_バイアス2 ***

-2. 7610959777767112

順伝播開始

*** 総入力1 ***

[-118. 74819576 -308. 97248039 215. 04377912 -202. 51163551 263. 67751913
-296. 47630023 260. 31045784 -183. 36491781 -174. 80799103 294. 17862146]

*** 中間層出力1 ***

[2. 68110513e-052 6. 53065447e-135 1. 00000000e+000 1. 12283044e-088
1. 00000000e+000 1. 74573692e-129 1. 00000000e+000 2. 32074820e-080
1. 20740815e-076 1. 00000000e+000]

*** 総入力2 ***

8. 135299520311635

*** 出力1 ***

8.135299520311635

出力合計: 8.135299520311635

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.69597054 -2.49967682 1.19960872 -0.97360123 1.00411004 -1.42037183
0.90675541 -1.51060657 -0.86466748 1.17026487]
[0.28297045 1.01632847 -0.48774165 0.39585063 -0.40825503 0.57750039
-0.36867219 0.61418838 0.35155992 -0.47581091]]

*** 偏微分_重み2 ***

[2.41004692e-052 5.87040900e-135 8.98900566e-001 1.00931291e-088
8.98900566e-001 1.56924390e-129 8.98900566e-001 2.08612187e-080
1.08533987e-076 8.98900566e-001]

*** 偏微分_バイアス1 ***

[-0.21032156 -0.75539969 0.36252049 -0.29422126 0.30344099 -0.42923486
0.27402052 -0.45650371 -0.2613016 0.3536528]

*** 偏微分_バイアス2 ***

0.8989005659708216

順伝播開始

*** 総入力1 ***

[45.55857703 132.51566005 -103.55499928 81.15841373 -123.44113307
122.43583469 -119.02766562 74.2043414 67.78788878 -134.22846673]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.06324962e-45 1.00000000e+00
2.45582304e-54 1.00000000e+00 2.02741020e-52 1.00000000e+00
1.00000000e+00 5.07361588e-59]

*** 総入力2 ***

-9.95805601096563

*** 出力1 ***

-9.95805601096563

出力合計: -9.95805601096563

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.99743555 -3.5824311  2.69440476 -1.3953241  2.24140488 -2.03561683
  2.01581953 -2.16493745 -1.23920487  2.62641062]
 [-0.36450282 -1.30916351  0.98464319 -0.5099072  0.81909893 -0.74389575
  0.73666103 -0.79115467 -0.45285499  0.95979542]]
```

*** 偏微分_重み2 ***

```
[-7.11615760e+00 -7.11615760e+00 -7.56625189e-45 -7.11615760e+00
 -1.74760238e-53 -7.11615760e+00 -1.44273705e-51 -7.11615760e+00
 -7.11615760e+00 -3.61046502e-58]
```

*** 偏微分_バイアス1 ***

```
[ 1.30944592  4.70306055 -3.53724842  1.83179901 -2.94254449  2.67238335
 -2.64639321  2.84215708  1.62684372 -3.44798486]
```

*** 偏微分_バイアス2 ***

-7.116157600337585

順伝播開始

*** 総入力1 ***

```
[-217.36413254 -604.2428451  409.62795305 -369.89725162  479.24768788
 -535.15658653  476.87130728 -353.01813597 -317.02127722  519.45214934]
```

*** 中間層出力1 ***

```
[3.98067458e-095 3.80773437e-263 1.00000000e+000 2.26811332e-161
 1.00000000e+000 3.84102837e-233 1.00000000e+000 4.85480214e-154
 2.08645324e-138 1.00000000e+000]
```

*** 総入力2 ***

8.31881535424548

*** 出力1 ***

8.31881535424548

出力合計: 8.31881535424548

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.04161157  0.27216442 -0.14863232  0.0770988 -0.12364334  0.13420579
 -0.1111993  0.14573975  0.0631747 -0.14488154]
```

```
[ 1.18573247  7.75539537 -4.23531633  2.19695033 -3.52324894  3.82422872  
-3.16865288  4.15289189  1.80017953 -4.12843682]]
```

*** 偏微分_重み2 ***

```
[-8.65323416e-095 -8.27729484e-263 -2.17381099e+000 -4.93044967e-161  
-2.17381099e+000 -8.34966970e-233 -2.17381099e+000 -1.05534223e-153  
-4.53555498e-138 -2.17381099e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.2379099  1.55607218 -0.84979006  0.44080452 -0.70691814  0.76730787  
-0.63577063  0.83325211  0.36119491 -0.82834535]
```

*** 偏微分_バイアス2 ***

-2.1738109935118253

順伝播開始

*** 総入力1 ***

```
[ 177.55174849  509.14314105 -362.197956   307.15077407 -423.08226614  
 450.4985947  -416.24627429  292.02776553  260.38777286 -456.75088979]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 5.00525665e-158 1.00000000e+000  
1.81011608e-184 1.00000000e+000 1.68476745e-181 1.00000000e+000  
1.00000000e+000 4.32124570e-199]
```

*** 総入力2 ***

-6.318972017254385

*** 出力1 ***

-6.318972017254385

出力合計: -6.318972017254385

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.04598479  0.30076785 -0.28589088  0.08520159 -0.24124218  0.1483103  
-0.21900797  0.16105644  0.06981412 -0.27918922]  
[ 0.97364012  6.36818525 -6.05319385  1.8039811  -5.10784279  3.14018767  
-4.63707589  3.41006276  1.47818083 -5.91129905]]
```

*** 偏微分_重み2 ***

```
[2.68936478e+000 2.68936478e+000 1.34609609e-157 2.68936478e+000
```


4. 86806242e-184 2. 68936478e+000 4. 53095423e-181 2. 68936478e+000
2. 68936478e+000 1. 16214060e-198]

*** 偏微分_バイアス1 ***

[-0. 23147831 -1. 51400579 1. 43911808 -0. 42888794 1. 21436536 -0. 7465647
1. 10244276 -0. 81072622 -0. 35143047 1. 40538327]

*** 偏微分_バイアス2 ***

2. 689364775943176

順伝播開始

*** 総入力1 ***

[92. 46152195 267. 99115582 -196. 1820045 161. 41141003 -229. 77933169
238. 72668049 -224. 64464231 152. 41496551 136. 13522649 -248. 2556619]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 6. 29851252e-086 1. 00000000e+000
1. 61474590e-100 1. 00000000e+000 2. 74202528e-098 1. 00000000e+000
1. 00000000e+000 1. 52734074e-108]

*** 総入力2 ***

-7. 636760757466542

*** 出力1 ***

-7. 636760757466542

出力合計: -7. 636760757466542

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 12208542 -0. 59510111 0. 53076869 -0. 1948931 0. 44787646 -0. 31205714
0. 4065977 -0. 33572088 -0. 16632561 0. 51832678]
[-0. 63801359 -3. 10997493 2. 77377625 -1. 01850366 2. 34058472 -1. 63079828
2. 12486355 -1. 75446409 -0. 86921106 2. 7087553]]

*** 偏微分_重み2 ***

[-2. 70601615e+000 -2. 70601615e+000 -1. 70438766e-085 -2. 70601615e+000
-4. 36952849e-100 -2. 70601615e+000 -7. 41996468e-098 -2. 70601615e+000
-2. 70601615e+000 -4. 13300872e-108]

*** 偏微分_バイアス1 ***

[0. 33307007 1. 6235384 -1. 44802847 0. 53170197 -1. 22188418 0. 85134565

-1.10926861 0.91590443 0.45376492 -1.41408479]

*** 偏微分_バイアス2 ***

-2.7060161505862856

順伝播開始

*** 総入力1 ***

[80.47756869 245.53918615 -174.37652536 139.88406634 -196.81323961
204.57188071 -193.81584536 138.49497724 117.44279393 -207.97090035]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.85881968e-76 1.00000000e+00
3.35039545e-86 1.00000000e+00 6.71193677e-85 1.00000000e+00
1.00000000e+00 4.77953427e-91]

*** 総入力2 ***

-6.310812843679261

*** 出力1 ***

-6.310812843679261

出力合計: -6.310812843679261

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.39408136 2.58335546 -2.45657422 0.73105955 -2.07292138 1.27333371
-1.88186954 1.3828574 0.59883967 -2.3989889]
[-1.01658901 -6.6641334 6.33708313 -1.88587223 5.34739597 -3.28474567
4.85455053 -3.56727765 -1.54479222 6.1885336]]

*** 偏微分_重み2 ***

[-2.94597076e+00 -2.94597076e+00 -5.47602843e-76 -2.94597076e+00
-9.87016705e-86 -2.94597076e+00 -1.97731695e-84 -2.94597076e+00
-2.94597076e+00 -1.40803682e-90]

*** 偏微分_バイアス1 ***

[0.25288971 1.65778966 -1.57643166 0.46913519 -1.33023414 0.81712311
-1.20763244 0.88740661 0.38428711 -1.53947804]

*** 偏微分_バイアス2 ***

-2.945970764663678

順伝播開始

*** 総入力1 ***

[27.56296719 96.53493819 -69.6708 48.9565419 -74.0500639
71.58039033 -72.72134737 52.15541699 39.87547134 -74.34584648]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 5.52530185e-31 1.00000000e+00
6.92573487e-33 1.00000000e+00 2.61529161e-32 1.00000000e+00
1.00000000e+00 5.15239463e-33]

*** 総入力2 ***

-4.867287168993812

*** 出力1 ***

-4.867287168993812

出力合計: -4.867287168993812

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.36179568 4.17073948 -4.27399801 0.94807721 -3.60651095 1.89153687
-3.27411506 2.08208844 0.71803836 -4.17380989]
[-0.60306897 -6.9521105 7.12422978 -1.58032828 6.01161084 -3.15295966
5.4575477 -3.47058572 -1.19688177 6.9572285]]

*** 偏微分_重み2 ***

[-4.23833216e+00 -4.23833216e+00 -2.34180645e-30 -4.23833216e+00
-2.93535648e-32 -4.23833216e+00 -1.10844746e-31 -4.23833216e+00
-4.23833216e+00 -2.18375599e-32]

*** 偏微分_バイアス1 ***

[0.19198654 2.21319894 -2.26799298 0.50309627 -1.91379161 1.00374224
-1.73740604 1.10485825 0.38102638 -2.21482825]

*** 偏微分_バイアス2 ***

-4.2383321597153465

順伝播開始

*** 総入力1 ***

[150.25105188 418.33096271 -307.32408384 261.6643189 -368.17651595
387.87622751 -359.62320144 240.49791314 221.99313919 -403.1549849]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.39505045e-134 1.00000000e+000
1.26756651e-160 1.00000000e+000 6.57094829e-157 1.00000000e+000
1.00000000e+000 8.16610020e-176]

*** 総入力2 ***

-2.7905044107338566

*** 出力1 ***

-2.7905044107338566

出力合計: -2.7905044107338566

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.20402372 7.26091708 -8.37637513 0.94499741 -7.06820373 2.79403244
-6.41675918 3.16748404 0.49415684 -8.18002192]
[-0.04674942 1.66374621 -1.91933914 0.21653406 -1.61958841 0.64021677
-1.47031823 0.72578842 0.11322972 -1.87434732]]

*** 偏微分_重み2 ***

[6.09344400e+000 6.09344400e+000 2.06875498e-133 6.09344400e+000
7.72384552e-160 6.09344400e+000 4.00397054e-156 6.09344400e+000
6.09344400e+000 4.97596742e-175]

*** 偏微分_バイアス1 ***

[0.07942077 -2.82647338 3.26069022 -0.36786125 2.75145542 -1.08763924
2.49786615 -1.23301357 -0.19236154 3.18425537]

*** 偏微分_バイアス2 ***

6.0934439968427725

順伝播開始

*** 総入力1 ***

[54.95901029 167.48317797 -121.25515904 96.27381768 -138.29814181
141.61188662 -135.57228664 93.79308395 80.41399226 -145.91641172]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.18551368e-53 1.00000000e+00
8.66722663e-61 1.00000000e+00 1.32343926e-59 1.00000000e+00
1.00000000e+00 4.25899933e-64]

*** 総入力2 ***
-5.776291969186815

*** 出力1 ***
-5.776291969186815

出力合計: -5.776291969186815

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.22848271 1.76684139 -1.72618507 0.46527047 -1.45659997 0.84631557
-1.3223517 0.92327566 0.37236223 -1.68572103]
[-0.63104717 -4.87984513 4.76755631 -1.28503207 4.02298832 -2.33744179
3.65220757 -2.54999812 -1.0284285 4.65579854]]

*** 偏微分_重み2 ***

[-3.33539493e+00 -3.33539493e+00 -7.28955124e-53 -3.33539493e+00
-2.89086238e-60 -3.33539493e+00 -4.41419259e-59 -3.33539493e+00
-3.33539493e+00 -1.42054448e-63]

*** 偏微分_バイアス1 ***

[0.23624356 1.82685547 -1.78481818 0.48107426 -1.50607612 0.87506226
-1.36726785 0.95463645 0.38501022 -1.7429797]

*** 偏微分_バイアス2 ***

-3.3353949303053154

順伝播開始

*** 総入力1 ***

[37.30907532 121.26577329 -85.07773049 65.29738734 -93.19452738
94.72135908 -92.06157122 66.78162981 53.88756081 -94.56622484]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.12515179e-37 1.00000000e+00
3.35838911e-41 1.00000000e+00 1.04271980e-40 1.00000000e+00
1.00000000e+00 8.51942682e-42]

*** 総入力2 ***

-4.141948453337211

*** 出力1 ***

-4.141948453337211

出力合計: -4.141948453337211

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.14923638  3.00459412 -3.20398356  0.58873971 -2.70360486  1.29600004
    -2.45442576  1.43884617  0.41629212 -3.12887798]
  [-0.26523722 -5.34005299  5.69442702 -1.04636471  4.80510599 -2.30337564
    4.36224098 -2.55725549 -0.7398743  5.56094219]]
```

*** 偏微分_重み2 ***

```
[-3.05501191e+00 -3.05501191e+00 -3.43735211e-37 -3.05501191e+00
 -1.02599187e-40 -3.05501191e+00 -3.18552142e-40 -3.05501191e+00
 -3.05501191e+00 -2.60269504e-41]
```

*** 偏微分_バイアス1 ***

```
[ 0.07614547  1.5330459 -1.63478116  0.30039499 -1.37947097  0.66126321
 -1.25233133  0.73414816  0.21240637 -1.59645975]
```

*** 偏微分_バイアス2 ***

-3.055011912003847

順伝播開始

*** 総入力1 ***

```
[-198.03404109 -532.38382382  375.52161264 -339.70314026  452.8061936
 -498.50429589  446.19235315 -312.57211188 -291.77503629  501.4327221 ]
```

*** 中間層出力1 ***

```
[9.88345355e-087 6.14671474e-232 1.00000000e+000 2.94307074e-148
 1.00000000e+000 3.17932619e-217 1.00000000e+000 1.78507559e-136
 1.92181590e-127 1.00000000e+000]
```

*** 総入力2 ***

9.604503402088815

*** 出力1 ***

9.604503402088815

出力合計: 9.604503402088815

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.18896585  5.07453609 -3.65295454  0.62120467 -3.08245828  1.92495238  
-2.79836196  2.18827171  0.30331867 -3.5673245 ]  
[ 0.02873814 -0.77174107  0.55554537 -0.09447349  0.46878367 -0.29274889  
 0.42557799 -0.33279479 -0.04612904  0.54252266]]
```

*** 偏微分_重み2 ***

```
[-1.99057358e-086 -1.23797698e-231 -2.01404658e+000 -5.92748156e-148  
-2.01404658e+000 -6.40331105e-217 -2.01404658e+000 -3.59522539e-136  
-3.87062674e-127 -2.01404658e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.04384551  1.17743833 -0.84759052  0.14413735 -0.71521898  0.44664432  
-0.64930047  0.50774198  0.07037865 -0.82772189]
```

*** 偏微分_バイアス2 ***

```
-2.0140465818839424
```

順伝播開始

*** 総入力1 ***

```
[-170.11938561 -469.57213138  314.01051415 -288.58559796  368.20819412  
-416.2542886  367.32223471 -275.18353309 -247.72365352  398.82365019]
```

*** 中間層出力1 ***

```
[1.31247055e-074 1.16792374e-204 1.00000000e+000 4.66516758e-126  
1.00000000e+000 1.67131916e-181 1.00000000e+000 3.08538999e-120  
2.60006520e-108 1.00000000e+000]
```

*** 総入力2 ***

```
10.309419705748194
```

*** 出力1 ***

```
10.309419705748194
```

出力合計: 10.309419705748194

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 7.53975922e-04 -2.02474581e-02  1.55353489e-02 -2.47861386e-03  
  1.32590622e-02 -7.68058239e-03  1.21255146e-02 -8.73122959e-03  
 -1.21024501e-03  1.51936840e-02]  
[ 1.93033524e-01 -5.18377056e+00  3.97737257e+00 -6.34576720e-01  
  3.39459581e+00 -1.96638890e+00  3.10438403e+00 -2.23537645e+00
```

-3.09847904e-01 3.88989925e+00]]

*** 偏微分_重み2 ***

[2.88681224e-074 2.56887789e-204 2.19952536e+000 1.02611544e-125
2.19952536e+000 3.67610886e-181 2.19952536e+000 6.78639352e-120
5.71890933e-108 2.19952536e+000]

*** 偏微分_バイアス1 ***

[0.04788336 -1.28587168 0.98661596 -0.15741133 0.84205398 -0.48777695
0.77006485 -0.55450125 -0.07686001 0.96491757]

*** 偏微分_バイアス2 ***

2.1995253562569133

順伝播開始

*** 総入力1 ***

[-153.63974599 -409.08956302 292.58734513 -264.49702901 356.23677152
-390.51511011 349.86435426 -240.79347016 -227.55227554 398.36358772]

*** 中間層出力1 ***

[1.88410940e-067 2.16102691e-178 1.00000000e+000 1.35020534e-115
1.00000000e+000 2.52024395e-170 1.00000000e+000 2.65903853e-105
1.49727780e-099 1.00000000e+000]

*** 総入力2 ***

9.539585831058275

*** 出力1 ***

9.539585831058275

出力合計: 9.539585831058275

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.01230398 0.33041413 -0.2364091 0.04044799 -0.19926284 0.12533786
-0.18076471 0.14248315 0.01974974 -0.23083354]
[0.00590862 -0.15867147 0.11352837 -0.01942393 0.09569 -0.06018974
0.08680683 -0.06842326 -0.00948422 0.11085088]]

*** 偏微分_重み2 ***

[-2.24855538e-068 -2.57903744e-179 -1.19343143e-001 -1.61137749e-116
-1.19343143e-001 -3.00773834e-171 -1.19343143e-001 -3.17338016e-106

-1.78689839e-100 -1.19343143e-001]

*** 偏微分_バイアス1 ***

[-0.00259808 0.06976958 -0.04991967 0.00854092 -0.04207594 0.02646609
-0.03816991 0.03008646 0.00417032 -0.04874235]

*** 偏微分_バイアス2 ***

-0.11934314324474116

順伝播開始

*** 総入力1 ***

[328.91242632 914.95499237 -658.82365857 569.64191707 -785.35322272
839.82384891 -770.46924147 528.57121169 484.81231228 -859.36550108]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 7.52524314e-287 1.00000000e+000
0.00000000e+000 1.00000000e+000 0.00000000e+000 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-2.6496221106343016

*** 出力1 ***

-2.6496221106343016

出力合計: -2.6496221106343016

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.27792774 34.31779121 -39.85540144 4.20104847 -33.6175353
13.01796116 -30.51119622 14.79872254 2.05126665 -38.91911353]
[-0.64832251 17.41021482 -20.21957347 2.13128974 -17.05495868
6.60431492 -15.47904052 7.50773664 1.04065535 -19.74457281]]

*** 偏微分_重み2 ***

[1.60364871e+001 1.60364871e+001 1.20678465e-285 1.60364871e+001
0.00000000e+000 1.60364871e+001 0.00000000e+000 1.60364871e+001
1.60364871e+001 0.00000000e+000]

*** 偏微分_バイアス1 ***

[0.2745584 -7.37305993 8.56279653 -0.90258088 7.22261235 -2.79686438
6.55522603 -3.17945486 -0.44070762 8.36163828]

*** 偏微分_バイアス2 ***

16.036487115361858

順伝播開始

*** 総入力1 ***

[182.17162343 522.47295337 -375.32746317 316.29031439 -439.69527855
465.42298677 -431.93088376 299.39871904 268.07918991 -476.32269947]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 9.93925513e-164 1.00000000e+000
1.10348595e-191 1.00000000e+000 2.59896612e-188 1.00000000e+000
1.00000000e+000 1.36672146e-207]

*** 総入力2 ***

-10.507500797161612

*** 出力1 ***

-10.507500797161612

出力合計: -10.507500797161612

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.14916125 -0.49856185 0.3912128 -0.20294181 0.32998313 -0.2894869
0.29949192 -0.3069665 -0.18183997 0.38202239]
[-0.68922331 -2.30368437 1.80766102 -0.93772493 1.52473958 -1.33762027
1.38385007 -1.41838756 -0.84022053 1.76519523]]

*** 偏微分_重み2 ***

[-9.37144976e-001 -9.37144976e-001 -9.31452300e-164 -9.37144976e-001
-1.03412631e-191 -9.37144976e-001 -2.43560804e-188 -9.37144976e-001
-9.37144976e-001 -1.28081615e-207]

*** 偏微分_バイアス1 ***

[0.19079023 0.63770401 -0.50039524 0.25958024 -0.42207716 0.37027894
-0.38307624 0.39263688 0.23258916 -0.48863989]

*** 偏微分_バイアス2 ***

-0.9371449755669712

順伝播開始

*** 総入力1 ***

[-67.29862044 -174.62721668 132.25954159 -117.4235692 165.02003547
-177.29444602 160.28081456 -103.9058887 -101.80569941 191.36089001]

*** 中間層出力1 ***

[5.92352878e-30 1.44664978e-76 1.00000000e+00 1.00830484e-51
1.00000000e+00 1.00461677e-77 1.00000000e+00 7.48593239e-46
6.11429682e-45 1.00000000e+00]

*** 総入力2 ***

8.52440198140829

*** 出力1 ***

8.52440198140829

出力合計: 8.52440198140829

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3.47638892 -12.17039429 6.02072862 -4.81459054 5.07840969
-6.96805979 4.60915273 -7.4029983 -4.28952136 5.87928894]
[3.13099623 10.9612185 -5.42254593 4.33624233 -4.57385003
6.27575607 -4.15121556 6.66748176 3.86334081 -5.29515882]]

*** 偏微分_重み2 ***

[1.93835455e-29 4.73386776e-76 3.27229701e+00 3.29947292e-51
3.27229701e+00 3.28740445e-77 3.27229701e+00 2.44961942e-45
2.00077952e-44 3.27229701e+00]

*** 偏微分_バイアス1 ***

[-0.79342937 -2.77769503 1.37413362 -1.09885217 1.15906461 -1.59034659
1.05196433 -1.68961424 -0.97901365 1.34185231]

*** 偏微分_バイアス2 ***

3.272297010219196

順伝播開始

*** 総入力1 ***

[-355.20326068 -989.09465068 695.53403655 -611.3912018 822.39661168
-895.76129146 811.65759299 -575.25322419 -522.86800378 901.07518652]

*** 中間層出力1 ***

```
[5.45989047e-155 0.00000000e+000 1.00000000e+000 2.99346905e-266  
1.00000000e+000 0.00000000e+000 1.00000000e+000 1.48149107e-250  
8.34278775e-228 1.00000000e+000]
```

*** 総入力2 ***

7.3790980278315725

*** 出力1 ***

7.3790980278315725

出力合計: 7.3790980278315725

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 11.85680962 41.50917842 -18.33242651 16.42097149 -15.11848917  
23.76574088 -13.51800931 25.24917188 14.63013469 -17.85002266]  
[ 10.0112125 35.04797828 -15.47885337 13.86492997 -12.76518833  
20.06643354 -11.4138346 21.31895791 12.35284972 -15.07153912]]
```

*** 偏微分_重み2 ***

```
[-6.49477002e-154 0.00000000e+000 -1.18954218e+001 -3.56085770e-265  
-1.18954218e+001 0.00000000e+000 -1.18954218e+001 -1.76229612e-249  
-9.92409793e-227 -1.18954218e+001]
```

*** 偏微分_バイアス1 ***

```
[ 2.8842666 10.09744956 -4.45951375 3.99453657 -3.67769702 5.78121222  
-3.28836711 6.14206903 3.55890077 -4.34216504]
```

*** 偏微分_バイアス2 ***

-11.895421808758089

順伝播開始

*** 総入力1 ***

```
[-144.77354462 -394.64488866 282.78269384 -249.9050278 339.95658053  
-369.74098711 333.63241612 -231.34056529 -214.7840381 380.08222364]
```

*** 中間層出力1 ***

```
[1.33551401e-063 4.05417548e-172 1.00000000e+000 2.93511707e-109  
1.00000000e+000 2.65173161e-161 1.00000000e+000 3.38898036e-101  
5.25384735e-094 1.00000000e+000]
```

*** 総入力2 ***

11.542495660896904

*** 出力1 ***

11.542495660896904

出力合計: 11.542495660896904

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.66863129 -9.34253783 5.92796775 -3.69589458 5.20460168 -5.34899369
4.84437909 -5.6828719 -3.29282805 5.81939233]
[1.16982122 4.09539491 -2.59858396 1.62013236 -2.28148921 2.34478489
-2.12358203 2.49114374 1.44344411 -2.55098884]]

*** 偏微分_重み2 ***

[3.49736663e-063 1.06168396e-171 2.61874201e+000 7.68631436e-109
2.61874201e+000 6.94420095e-161 2.61874201e+000 8.87486523e-101
1.37584707e-093 2.61874201e+000]

*** 偏微分_バイアス1 ***

[-0.63496278 -2.22292372 1.41047544 -0.87938544 1.23836079 -1.27271681
1.15265096 -1.35215837 -0.7834815 1.38464146]

*** 偏微分_バイアス2 ***

2.618742005997408

順伝播開始

*** 総入力1 ***

[207.95429553 595.43544322 -428.83036159 360.88039152 -503.54787182
533.07840083 -493.18203943 341.9039018 306.29211388 -549.16486579]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 5.77218560e-187 1.00000000e+000
2.05086887e-219 1.00000000e+000 6.51270944e-215 1.00000000e+000
1.00000000e+000 3.16759123e-239]

*** 総入力2 ***

-9.627992963655892

*** 出力1 ***

-9.627992963655892

出力合計: -9.627992963655892

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.65621042  2.29730899 -2.19908262  0.90881214 -1.91149317  1.31530549
    -1.76827908  1.39740539  0.80969899 -2.15591617]
  [ 0.8331391  2.91671375 -2.7920034  1.15384778 -2.42687355  1.66994062
    -2.2450458  1.77417645  1.02801155 -2.73719834]]
```

*** 偏微分_重み2 ***

```
[1.68496878e+000 1.68496878e+000 9.72595254e-187 1.68496878e+000
 3.45565003e-219 1.68496878e+000 1.09737121e-214 1.68496878e+000
 1.68496878e+000 5.33729235e-239]
```

*** 偏微分_バイアス1 ***

```
[-0.32130485 -1.1248473  1.07675204 -0.44498798  0.93593763 -0.64402213
 0.86581472 -0.68422127 -0.39645852  1.05561616]
```

*** 偏微分_バイアス2 ***

1.6849687834903335

順伝播開始

*** 総入力1 ***

```
[ -76.31787991 -210.24852841  131.02381391 -126.54692326  150.20825008
 -179.30110935  151.82367327 -124.94224853 -109.56741445  161.72776251]
```

*** 中間層出力1 ***

```
[7.17077150e-34 4.90031822e-92 1.00000000e+00 1.09994135e-55
 1.00000000e+00 1.35057160e-78 1.00000000e+00 5.47357289e-55
 2.60301403e-48 1.00000000e+00]
```

*** 総入力2 ***

10.507988143953488

*** 出力1 ***

10.507988143953488

出力合計: 10.507988143953488

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.47009631  4.74799035 -2.71669898  1.97463742 -2.36141721
```

```
2. 78655824 -2. 18449363 2. 95054277 1. 776671 -2. 66337209]
[-5. 28280492 -17. 06194804 9. 76248337 -7. 09587815 8. 48577498
-10. 01352329 7. 84999841 -10. 60280322 -6. 38448395 9. 57085267]]
```

*** 偏微分_重み2 ***

```
[5. 36627975e-33 3. 66717562e-91 7. 48354588e+00 8. 23146153e-55
7. 48354588e+00 1. 01070645e-77 7. 48354588e+00 4. 09617338e-54
1. 94797749e-47 7. 48354588e+00]
```

*** 偏微分_バイアス1 ***

```
[-2. 03519207 -6. 57308794 3. 76098096 -2. 7336756 3. 26913112 -3. 85769369
3. 02419922 -4. 08471283 -2. 45961214 3. 68715555]
```

*** 偏微分_バイアス2 ***

```
7. 483545875196311
```

順伝播開始

*** 総入力1 ***

```
[-405. 27306144 -1135. 18826932 790. 86241157 -695. 33814596
930. 20408637 -1017. 61907697 917. 86517672 -660. 34560657
-594. 71229883 1017. 98397956]
```

*** 中間層出力1 ***

```
[9. 82077484e-177 0. 00000000e+000 1. 00000000e+000 1. 04347044e-302
1. 00000000e+000 0. 00000000e+000 1. 00000000e+000 1. 64265711e-287
5. 24481650e-259 1. 00000000e+000]
```

*** 総入力2 ***

```
7. 88874708763478
```

*** 出力1 ***

```
7. 88874708763478
```

出力合計: 7. 88874708763478

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 14. 49883004 46. 82707167 -21. 30246752 19. 47486851 -17. 79849981
27. 48244055 -16. 05359032 29. 09973852 17. 522424 -20. 77653084]
[ 17. 45444193 56. 37285223 -25. 64501282 23. 44485456 -21. 42675516
33. 08478418 -19. 32614282 35. 03177117 21. 09440081 -25. 01186303]]
```

*** 偏微分_重み2 ***

[-1.32454884e-175 0.00000000e+000 -1.34872132e+001 -1.40735083e-301
-1.34872132e+001 0.00000000e+000 -1.34872132e+001 -2.21548666e-286
-7.07379581e-258 -1.34872132e+001]

*** 偏微分_バイアス1 ***

[3.6679229 11.84634125 -5.38911127 4.92676415 -4.50267537 6.95252463
-4.0612471 7.36166966 4.43283354 -5.25605949]

*** 偏微分_バイアス2 ***

-13.48721315199887

順伝播開始

*** 総入力1 ***

[-305.97077728 -860.46404916 585.1350308 -519.94185835 681.53791177
-757.07046189 673.65611871 -502.39789548 -445.57751051 744.00868378]

*** 中間層出力1 ***

[1.31395292e-133 0.00000000e+000 1.00000000e+000 1.55639564e-226
1.00000000e+000 0.00000000e+000 1.00000000e+000 6.47688628e-219
3.07713058e-194 1.00000000e+000]

*** 総入力2 ***

12.609271690834385

*** 出力1 ***

12.609271690834385

出力合計: 12.609271690834385

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.19896358 3.87230924 -2.57993056 1.61045119 -2.2901741 2.27262788
-2.14588088 2.40636842 1.4489961 -2.53643885]
[3.26280355 10.53792171 -7.02090266 4.38260674 -6.23237295 6.18462348
-5.8397001 6.54857875 3.94323039 -6.90254635]]

*** 偏微分_重み2 ***

[-3.24361743e-133 0.00000000e+000 -2.46859487e+000 -3.84211030e-226
-2.46859487e+000 0.00000000e+000 -2.46859487e+000 -1.59888082e-218
-7.59618875e-194 -2.46859487e+000]

*** 偏微分_バイアス1 ***

[0.67134815 2.1682624 -1.44460736 0.90175669 -1.28236101 1.27253617
-1.20156541 1.3474229 0.81135146 -1.42025459]

*** 偏微分_バイアス2 ***

-2.468594866117156

順伝播開始

*** 総入力1 ***

[-115.91376896 -318.66199611 215.8171484 -196.42579921 254.12711024
-286.11301693 251.52710303 -187.87567543 -169.32146555 280.71865922]

*** 中間層出力1 ***

[4.56341288e-051 4.04439436e-139 1.00000000e+000 4.93581986e-086
1.00000000e+000 5.52962328e-125 1.00000000e+000 2.55053258e-082
2.91488781e-074 1.00000000e+000]

*** 総入力2 ***

13.47327989397539

*** 出力1 ***

13.47327989397539

出力合計: 13.47327989397539

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3.33312869 -10.76505179 7.58862942 -4.47706766 6.78310405
-6.31792434 6.3819677 -6.68972415 -4.02822118 7.4677221]
[-1.11200429 -3.59145562 2.53173197 -1.49364723 2.26299117
-2.10779709 2.12916335 -2.2318376 -1.34390227 2.49139466]]

*** 偏微分_重み2 ***

[3.37553976e-050 2.99162367e-138 7.39696330e+000 3.65100784e-085
7.39696330e+000 4.09024205e-124 7.39696330e+000 1.88661959e-081
2.15613181e-073 7.39696330e+000]

*** 偏微分_バイアス1 ***

[-2.01164546 -6.49703912 4.57997074 -2.70204773 4.09381146 -3.81306123
3.85171336 -4.03745382 -2.4311551 4.506999946]

*** 偏微分_バイアス2 ***

7. 3969633040225276

順伝播開始

*** 総入力1 ***

[-231.43844739 -641.56236093 450.45747258 -397.10916733 534.04069597
-584.4151538 524.86434774 -374.90588206 -340.59295079 591.3065421]

*** 中間層出力1 ***

[3.07297762e-101 2.36051547e-279 1.00000000e+000 3.44889453e-173
1.00000000e+000 1.55497555e-254 1.00000000e+000 1.51511008e-163
1.20881794e-148 1.00000000e+000]

*** 総入力2 ***

10.884342737567504

*** 出力1 ***

10.884342737567504

出力合計: 10.884342737567504

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.68331487 8.6663391 -5.10471417 3.60423594 -4.4562309 5.08620635
-4.13329853 5.38552151 3.24289482 -5.00737847]
[-0.12483113 -0.40316883 0.23747763 -0.16767352 0.20730938 -0.23661662
0.19228617 -0.25054113 -0.15086348 0.23294945]]

*** 偏微分_重み2 ***

[-6.73976033e-101 -5.17716380e-279 -2.19323443e+000 -7.56423423e-173
-2.19323443e+000 -3.41042591e-254 -2.19323443e+000 -3.32299160e-163
-2.65122113e-148 -2.19323443e+000]

*** 偏微分_バイアス1 ***

[0.59646235 1.92640268 -1.13470462 0.80116987 -0.99055611 1.1305906
-0.91877288 1.19712406 0.72084893 -1.11306829]

*** 偏微分_バイアス2 ***

-2.193234430928648

順伝播開始

*** 総入力1 ***

[72.23417507 216.55210724 -152.73480562 124.40574875 -173.76005315

182.41966494 -170.16111021 122.88481317 104.69640735 -184.95354839]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 4.65711245e-67 1.00000000e+00
3.44324354e-76 1.00000000e+00 1.25883498e-74 1.00000000e+00
1.00000000e+00 4.73908529e-81]

*** 総入力2 ***

-10.224830338678347

*** 出力1 ***

-10.224830338678347

出力合計: -10.224830338678347

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.25424653 4.05085733 -4.08290961 1.68470739 -3.59282585
2.37741635 -3.34877343 2.51732352 1.51580778 -4.00934928]
[-4.26956962 -13.78948799 13.89859689 -5.7348977 12.23030704
-8.09294219 11.39953033 -8.56919898 -5.15994801 13.64819081]]

*** 偏微分_重み2 ***

[-7.06293344e+00 -7.06293344e+00 -3.28928752e-66 -7.06293344e+00
-2.43193999e-75 -7.06293344e+00 -8.89106769e-74 -7.06293344e+00
-7.06293344e+00 -3.34718440e-80]

*** 偏微分_バイアス1 ***

[1.51061209 4.87884472 -4.91744843 2.02905832 -4.3271925 2.86335565
-4.03325623 3.03185958 1.82563596 -4.82885251]

*** 偏微分_バイアス2 ***

-7.062933440393478

順伝播開始

*** 総入力1 ***

[-91.84120815 -249.24791051 170.70101263 -155.92759601 202.82048034
-227.95786711 200.40345798 -147.54431881 -134.73567499 226.08645021]

*** 中間層出力1 ***

[1.29978071e-040 5.66249513e-109 1.00000000e+000 1.91207743e-068
1.00000000e+000 9.98058981e-100 1.00000000e+000 8.36212207e-065

3.05520135e-059 1.00000000e+000]

*** 総入力2 ***

12.146380129220075

*** 出力1 ***

12.146380129220075

出力合計: 12.146380129220075

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ -2.08524037 -10.60845144  7.69627732 -3.39715293  6.7724703
    -5.50831714  6.31243192 -5.93471125 -2.88239877  7.55761622]
  [ 0.45789618  2.32950094 -1.69001907  0.74597796 -1.48716106
    1.20956673 -1.38614162  1.30319826  0.63294352 -1.6595706 ] ]
```

*** 偏微分_重み2 ***

```
[9.11946968e-040 3.97289729e-108 7.01616018e+000 1.34154415e-067
 7.01616018e+000 7.00254168e-099 7.01616018e+000 5.86699879e-064
 2.14357821e-058 7.01616018e+000]
```

*** 偏微分_バイアス1 ***

```
[-1.04087716 -5.29535823  3.84170542 -1.69573682  3.38057412 -2.74955423
 3.15093947 -2.96239487 -1.43879002  3.77249078]
```

*** 偏微分_バイアス2 ***

7.016160178444316

順伝播開始

*** 総入力1 ***

```
[-179.61864091 -499.98024913  337.94290539 -304.78405538  395.59798213
 -443.47266044  391.52216467 -293.13384653 -261.83603005  433.62196951]
```

*** 中間層出力1 ***

```
[9.83140090e-079 7.26669184e-218 1.00000000e+000 4.30493478e-133
 1.00000000e+000 2.52505416e-193 1.00000000e+000 4.93841966e-128
 1.93222183e-114 1.00000000e+000]
```

*** 総入力2 ***

9.690724066764563

*** 出力1 ***

9.690724066764563

出力合計: 9.690724066764563

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.15023719 -0.76431664 0.45671277 -0.24475773 0.39015441 -0.39686268
0.35700961 -0.42758348 -0.20767078 0.44672252]
[-0.21340911 -1.08569748 0.64875194 -0.34767378 0.55420704 -0.563736
0.50712547 -0.60737433 -0.29499245 0.63456099]]

*** 偏微分_重み2 ***

[6.43569413e-079 4.75682016e-218 6.54606012e-001 2.81803619e-133
6.54606012e-001 1.65291563e-193 6.54606012e-001 3.23271920e-128
1.26484403e-114 6.54606012e-001]

*** 偏微分_バイアス1 ***

[-0.09711358 -0.49405562 0.29521993 -0.15821183 0.2521965 -0.25653273
0.23077164 -0.27639071 -0.13423875 0.28876222]

*** 偏微分_バイアス2 ***

0.6546060116353267

順伝播開始

*** 総入力1 ***

[-159.29808856 -442.99124497 296.83219609 -269.65332584 346.85940688
-391.39308975 343.8952606 -260.0822293 -231.83705488 379.66120974]

*** 中間層出力1 ***

[6.57232697e-070 4.08645553e-193 1.00000000e+000 7.78123555e-118
1.00000000e+000 1.04746824e-170 1.00000000e+000 1.11615105e-113
2.06274890e-101 1.00000000e+000]

*** 総入力2 ***

9.4616119626922

*** 出力1 ***

9.4616119626922

出力合計: 9.4616119626922

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.26449609 -1.34559735  0.78799125 -0.43090172  0.67081371 -0.69868604
  0.61246151 -0.75277073 -0.36560927  0.7704032 ]
 [-0.54313438 -2.76314176  1.6181152  -0.88484311  1.37749481 -1.43472977
  1.25767041 -1.54579097 -0.75076711  1.58199869]]
```

*** 偏微分_重み2 ***

```
[1.06126783e-069 6.59861234e-193 1.61475202e+000 1.25647658e-117
 1.61475202e+000 1.69140146e-170 1.61475202e+000 1.80230716e-113
 3.33082796e-101 1.61475202e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.23955532 -1.21871368  0.71368728 -0.39026966  0.60755904 -0.63280315
 0.55470919 -0.6817879  -0.33113399  0.6977577 ]
```

*** 偏微分_バイアス2 ***

1.6147520221788163

順伝播開始

*** 総入力1 ***

```
[ 84.9442279  249.8482214 -181.24364334  147.90705286 -210.75969842
 219.3509808 -205.39515501  141.99712339  124.70686779 -228.17158027]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.93591292e-079 1.00000000e+000
 2.93917854e-092 1.00000000e+000 6.28083766e-090 1.00000000e+000
 1.00000000e+000 8.06012468e-100]
```

*** 総入力2 ***

-7.413979227743636

*** 出力1 ***

-7.413979227743636

出力合計: -7.413979227743636

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.13588166 -0.69128431  0.62160995 -0.22137053  0.52428006 -0.35894147
 0.47581162 -0.38672683 -0.18782732  0.60700098]
 [-0.56574958 -2.87819432  2.58810189 -0.92168648  2.18286438 -1.4944695
```

1. 98106378 -1. 6101551 -0. 78202779 2. 52727677]]

*** 偏微分_重み2 ***

[-2. 96549898e+00 -2. 96549898e+00 -5. 74094779e-79 -2. 96549898e+00
-8. 71613097e-92 -2. 96549898e+00 -1. 86258177e-89 -2. 96549898e+00
-2. 96549898e+00 -2. 39022915e-99]

*** 偏微分_バイアス1 ***

[0. 34599325 1. 76020599 -1. 5827953 0. 56367218 -1. 33496579 0. 91396684
-1. 21155139 0. 98471623 0. 47826166 -1. 54559672]

*** 偏微分_バイアス2 ***

-2. 9654989803856635

順伝播開始

*** 総入力1 ***

[12. 532789 46. 88803007 -35. 07039079 22. 80430799 -37. 57707932
34. 0897746 -36. 06181082 24. 26930899 17. 87796829 -36. 63265542]

*** 中間層出力1 ***

[9. 99996394e-01 1. 00000000e+00 5. 87655494e-16 1. 00000000e+00
4. 79161377e-17 1. 00000000e+00 2. 18049228e-16 1. 00000000e+00
9. 99999983e-01 1. 23208279e-16]

*** 総入力2 ***

-5. 9608833251991475

*** 出力1 ***

-5. 9608833251991475

出力合計: -5. 9608833251991475

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 48120316 3. 50628001 -3. 38568489 0. 94682937 -2. 85556413 1. 69612863
-2. 59157405 1. 84746541 0. 76413165 -3. 30611511]
[-0. 77481483 -5. 64567731 5. 45149968 -1. 52454827 4. 59791961 -2. 73104112
4. 17285292 -2. 97471779 -1. 23037542 5. 32337947]]

*** 偏微分_重み2 ***

[-5. 71637480e+00 -5. 71639542e+00 -3. 35927117e-15 -5. 71639542e+00
-2. 73907590e-16 -5. 71639542e+00 -1. 24645561e-15 -5. 71639542e+00

-5.71639532e+00 -7.04307243e-16]

*** 偏微分_バイアス1 ***

[0.43364183 3.15972507 -3.05104937 0.85324632 -2.57332488 1.52848607
-2.33542714 1.66486497 0.68860614 -2.97934414]

*** 偏微分_バイアス2 ***

-5.716395416280987

順伝播開始

*** 総入力1 ***

[-19.0531024 -51.08948315 8.10690222 -25.97990368 2.76170228
-28.10705203 8.75749328 -32.92471118 -23.77590365 -3.62776979]

*** 中間層出力1 ***

[5.31303604e-09 6.48812762e-23 9.99698640e-01 5.21280155e-12
9.40570858e-01 6.21244277e-13 9.99842746e-01 5.02319012e-15
4.72341651e-11 2.58874188e-02]

*** 総入力2 ***

7.3654673004426

*** 出力1 ***

7.3654673004426

出力合計: 7.3654673004426

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.08404555 14.15743379 -9.85974251 2.10802905 -8.54030326
5.63558681 -7.54664193 6.34805146 1.24792308 -12.23866113]
[0.11374523 -19.16033162 13.34393923 -2.852956 11.55824177
-7.62706814 10.21344433 -8.59130072 -1.6889092 16.56351069]]

*** 偏微分_重み2 ***

[4.35927807e-08 5.32342567e-22 8.20239939e+00 4.27703696e-11
7.71726351e+00 5.09722978e-12 8.20358177e+00 4.12146320e-14
3.87550279e-10 2.12402958e-01]

*** 偏微分_バイアス1 ***

[0.0293615 -4.9459314 3.44452327 -0.7364447 2.98357419 -1.96880495
2.63643637 -2.21770608 -0.43596474 4.27560385]

*** 偏微分_バイアス2 ***

8. 204872013180918

順伝播開始

*** 総入力1 ***

[159.95824087 461.44424759 -345.45127022 280.99368215 -409.03858421
421.8522427 -396.61312579 263.83002277 238.13105485 -453.67933836]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 9.38468232e-151 1.00000000e+000
2.27404990e-178 1.00000000e+000 5.66380144e-173 1.00000000e+000
1.00000000e+000 9.32323859e-198]

*** 総入力2 ***

-3.7341934674323105

*** 出力1 ***

-3.7341934674323105

出力合計: -3.7341934674323105

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.06911889 11.64304797 -9.58300678 1.73363928 -7.73904927
4.63469641 -6.50794471 5.22062605 1.02628969 -12.7089756]
[0.0181091 -3.0504698 2.51074056 -0.45421219 2.02762508
-1.21428697 1.70507661 -1.36780009 -0.26888713 3.32974204]]

*** 偏微分_重み2 ***

[6.15135402e+000 6.15135402e+000 5.77285033e-150 6.15135402e+000
1.39884860e-177 6.15135402e+000 3.48400478e-172 6.15135402e+000
6.15135402e+000 5.73505412e-197]

*** 偏微分_バイアス1 ***

[0.01731199 -2.91619704 2.4002251 -0.43421909 1.93837495 -1.16083761
1.63002413 -1.30759353 -0.2570515 3.18317653]

*** 偏微分_バイアス2 ***

6.151354020593143

順伝播開始

*** 総入力1 ***

[158.97278671 463.72544352 -351.6961249 281.16948531 -416.23553071
424.75975128 -402.31965484 264.26464745 238.03535668 -465.3412639]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.82101553e-153 1.00000000e+000
1.70296546e-181 1.00000000e+000 1.88275556e-175 1.00000000e+000
1.00000000e+000 8.03261375e-203]

*** 総入力2 ***

-6.748356937522951

*** 出力1 ***

-6.748356937522951

出力合計: -6.748356937522951

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.31882904 9.0032148 -6.28743781 2.50162377 -5.07761208 4.40501555
-4.2698809 4.78944564 2.03752971 -8.33839478]
[-0.53929878 -3.68161651 2.57107438 -1.02297008 2.07634949 -1.80130968
1.74605009 -1.95851177 -0.83319161 3.40975669]]

*** 偏微分_重み2 ***

[3.44839032e+000 3.44839032e+000 6.27957233e-153 3.44839032e+000
5.87248962e-181 3.44839032e+000 6.49247607e-175 3.44839032e+000
3.44839032e+000 2.76995875e-202]

*** 偏微分_バイアス1 ***

[-0.28223604 -1.92673319 1.34554327 -0.53536005 1.08663449 -0.94269545
0.91377596 -1.02496542 -0.43604159 1.78445837]

*** 偏微分_バイアス2 ***

3.4483903242053344

順伝播開始

*** 総入力1 ***

[255.40380003 727.45647044 -508.87894535 438.30050232 -594.2701462
642.56077421 -583.91726431 419.90956674 372.86664274 -644.50039982]

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 9.92389309e-222 1.00000000e+000
8.16121364e-259 1.00000000e+000 2.55831621e-254 1.00000000e+000
1.00000000e+000 1.25035338e-280]
```

*** 総入力2 ***

-8.438068196383565

*** 出力1 ***

-8.438068196383565

出力合計: -8.438068196383565

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.71090622  3.33278425 -2.14524564  1.11447049 -1.73245852
  1.76389925 -1.45686426  1.89506507  0.95612367 -2.84502298]
 [ 2.70146723 12.66469077 -8.15200464  4.23502485 -6.58339987
  6.70287568 -5.53613253  7.20131017  3.63330168 -10.81118177]]
```

*** 偏微分_重み2 ***

```
[4.50324838e+000 4.50324838e+000 4.46897555e-221 4.50324838e+000
3.67519721e-258 4.50324838e+000 1.15207333e-253 4.50324838e+000
4.50324838e+000 5.63065184e-280]
```

*** 偏微分_バイアス1 ***

```
[-0.58229417 -2.72984082  1.75714318 -0.91284848  1.41903455 -1.44478724
 1.19329882 -1.55222349 -0.78314863  2.33032183]
```

*** 偏微分_バイアス2 ***

4.503248378611371

順伝播開始

*** 総入力1 ***

```
[-25.50421349 -56.14449581  9.43737474 -34.50022206  6.86552371
-37.58009282 14.05103411 -37.68371458 -31.58764031 -3.17730784]
```

*** 中間層出力1 ***

```
[8.38804621e-12 4.13766458e-25 9.99920317e-01 1.03930720e-15
9.98957951e-01 4.77719601e-17 9.99999210e-01 4.30695865e-17
1.91276720e-14 4.00286558e-02]
```

*** 総入力2 ***

4. 250649276404739

*** 出力1 ***

4. 250649276404739

出力合計: 4. 250649276404739

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 3.65936351 12.78254416 -4.61707086 5.06362018 -3.73031414
    7.32339573 -3.13539865 7.77980504 4.51263093 -7.78243459]
  [ -5.09957006 -17.81333812 6.4341999 -7.05649653 5.19844455
    -10.20564629 4.36938966 -10.84168346 -6.2886558 10.84534792]]
```

*** 偏微分_重み2 ***

```
[4.11328282e-11 2.02900463e-24 4.90335289e+00 5.09649604e-15
 4.89863369e+00 2.34261445e-16 4.90373976e+00 2.11202211e-16
 9.37971997e-14 1.96290266e-01]
```

*** 偏微分_バイアス1 ***

```
[-1.1927073 -4.16625288 1.50485572 -1.65040088 1.21583245 -2.38693629
 1.02192987 -2.53569514 -1.4708153 2.5365522 ]
```

*** 偏微分_バイアス2 ***

4.903743632939185

順伝播開始

*** 総入力1 ***

```
[ 182.7183957 523.92749261 -370.50081641 314.72360686 -432.29021854
 462.75294216 -423.83473484 301.39505125 267.23512872 -468.99630466]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.24033756e-161 1.00000000e+000
 1.81444375e-188 1.00000000e+000 8.52930060e-185 1.00000000e+000
 1.00000000e+000 2.07726953e-204]
```

*** 総入力2 ***

-10.987921956211766

*** 出力1 ***

-10.987921956211766

出力合計: -10.987921956211766

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.29616325 -1.0345296  0.4712808 -0.40981395  0.35516065 -0.59270436
  0.27741017 -0.62964293 -0.36522074  0.7958893 ]
 [-0.99920521 -3.49032957  1.59002248 -1.38264363  1.19825255 -1.99968522
  0.93593546 -2.12430978 -1.23219361  2.68519718]]
```

*** 偏微分_重み2 ***

```
[-1.60920937e+000 -1.60920937e+000 -1.99596283e-161 -1.60920937e+000
 -2.91981989e-188 -1.60920937e+000 -1.37254305e-184 -1.60920937e+000
 -1.60920937e+000 -3.34276160e-204]
```

*** 偏微分_バイアス1 ***

```
[ 0.30781412  1.07522731 -0.48982068  0.42593577 -0.36913244  0.61602096
 -0.28832331  0.65441267  0.37958829 -0.82719906]
```

*** 偏微分_バイアス2 ***

-1.6092093743071523

順伝播開始

*** 総入力1 ***

```
[ 36.86570323 114.59764582 -91.93402113  66.90838125 -107.6743869
 102.95204045 -102.6812252  63.17117271  55.47169941 -118.94661219]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.18457326e-40 1.00000000e+00
 1.72825543e-47 1.00000000e+00 2.54747834e-45 1.00000000e+00
 1.00000000e+00 2.19858208e-52]
```

*** 総入力2 ***

-10.19940936280126

*** 出力1 ***

-10.19940936280126

出力合計: -10.19940936280126

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.11954748 -4.27618225  2.01480115 -1.60542248  1.51836886 -2.38730836
```

```
1. 18597308 -2. 54522669 -1. 41477934 3. 40255465]
[ 0. 09396225 0. 35889475 -0. 1690998 0. 13474115 -0. 12743484 0. 20036387
-0. 09953727 0. 21361777 0. 1187407 -0. 28557225]]
```

*** 偏微分_重み2 ***

```
[-7. 79421369e+00 -7. 79421369e+00 -9. 23281711e-40 -7. 79421369e+00
-1. 34703921e-46 -7. 79421369e+00 -1. 98555905e-44 -7. 79421369e+00
-7. 79421369e+00 -1. 71362186e-51]
```

*** 偏微分_バイアス1 ***

```
[ 1. 31827858 5. 03524824 -2. 37244891 1. 89040136 -1. 78789482 2. 81107995
-1. 3964954 2. 9970304 1. 66591711 -4. 00654282]
```

*** 偏微分_バイアス2 ***

```
-7. 794213694367748
```

順伝播開始

*** 総入力1 ***

```
[ 42. 50876192 140. 31404649 -130. 70610559 83. 15553013 -157. 45034095
138. 06567837 -145. 49658296 75. 94619465 68. 85735931 -189. 71069966]
```

*** 中間層出力1 ***

```
[1. 00000000e+00 1. 00000000e+00 1. 71814412e-57 1. 00000000e+00
4. 17047719e-69 1. 00000000e+00 6. 48092333e-64 1. 00000000e+00
1. 00000000e+00 4. 07089576e-83]
```

*** 総入力2 ***

```
-6. 380244652561063
```

*** 出力1 ***

```
-6. 380244652561063
```

出力合計: -6. 380244652561063

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0. 51977312 -4. 52645672 2. 55736609 -1. 1364892 1. 92724976 -2. 12892879
1. 50534326 -2. 32937288 -0. 89450785 4. 31882714]
[ 0. 52797003 4. 59783968 -2. 59769617 1. 15441182 -1. 9576428 2. 16250234
-1. 52908277 2. 36610747 0. 90861438 -4. 38693574]]
```

*** 偏微分_重み2 ***

```
[-1.76178383e+00 -1.76178383e+00 -3.02699853e-57 -1.76178383e+00  
-7.34747930e-69 -1.76178383e+00 -1.14179859e-63 -1.76178383e+00  
-1.76178383e+00 -7.17203833e-83]
```

*** 偏微分_バイアス1 ***

```
[ 0.10899287  0.94916705 -0.5362622  0.23831402 -0.40413111  0.44642182  
-0.3156602  0.48845358  0.18757218 -0.90562854]
```

*** 偏微分_バイアス2 ***

-1.761783834252209

順伝播開始

*** 総入力1 ***

```
[ 163.55886956  467.55371143 -325.36379329  280.20389522 -378.15434046  
 409.01502508 -372.36316663  269.17180715  237.85553667 -405.11290877]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 4.96935430e-142 1.00000000e+000  
5.88378279e-165 1.00000000e+000 1.92633346e-162 1.00000000e+000  
1.00000000e+000 1.15265456e-176]
```

*** 総入力2 ***

-5.516970573777482

*** 出力1 ***

-5.516970573777482

出力合計: -5.516970573777482

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.02899091 -0.39651319  0.2345803 -0.08556061  0.17678142 -0.17659442  
 0.13808108 -0.19498061 -0.06336431  0.39615437]  
[ 0.38615341  5.28148088 -3.12456528  1.13965118 -2.35469521  2.35220432  
-1.83921391  2.59710498  0.84400069 -5.27670145]]
```

*** 偏微分_重み2 ***

```
[2.32359370e+000 2.32359370e+000 1.15467603e-141 2.32359370e+000  
1.36715206e-164 2.32359370e+000 4.47601629e-162 2.32359370e+000  
2.32359370e+000 2.67830087e-176]
```

*** 偏微分_バイアス1 ***

[-0.08740877 -1.19550352 0.70726921 -0.25796875 0.53300324 -0.53243941
0.41632011 -0.58787454 -0.191046 1.19442166]

*** 偏微分_バイアス2 ***

2.323593696644102

順伝播開始

*** 総入力1 ***

[434.51583324 1240.3886562 -878.07668725 749.03573112
-1028.09620182 1104.13466158 -1007.40764524 716.14628652
637.83299233 -1126.99826374]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-6.655531485133091

*** 出力1 ***

-6.655531485133091

出力合計: -6.655531485133091

誤差逆伝播開始

*** 偏微分_重み1 ***

[[5.49176093 43.12198461 -24.0184321 11.28387388 -18.10046578
20.60473056 -14.13797774 22.48727404 9.01121813 -40.56183304]
[5.1666456 40.56913889 -22.59652742 10.61586221 -17.02890804
19.38491893 -13.30100151 21.15601478 8.47774896 -38.16054973]]

*** 偏微分_重み2 ***

[16.57877571 16.57877571 0. 16.57877571 0. 16.57877571
0. 16.57877571 16.57877571 0.]

*** 偏微分_バイアス1 ***

[-1.15383574 -9.06006062 5.04634591 -2.37077635 3.80296312 -4.3291168
2.97043229 -4.72464493 -1.89328444 8.52216496]

*** 偏微分_バイアス2 ***

16.578775706058302

順伝播開始

*** 総入力1 ***

[-98.79783702 -279.1605831 205.66905309 -172.71622556 245.67761961
-260.89639625 237.97372739 -163.05628145 -148.63764619 285.66762308]

*** 中間層出力1 ***

[1.23778313e-043 5.78228100e-122 1.00000000e+000 9.77904187e-076
1.00000000e+000 4.94464096e-114 1.00000000e+000 1.53305143e-071
2.80214406e-065 1.00000000e+000]

*** 総入力2 ***

4.311130905705792

*** 出力1 ***

4.311130905705792

出力合計: 4.311130905705792

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.43138573 11.52843892 -2.80172589 5.52377716 -2.11140109 7.28168899
-1.64918085 7.63673634 5.09515471 -4.73149694]
[-3.46292758 -9.00895374 2.1894221 -4.31658208 1.64996448 -5.6903107
1.28876027 -5.96776415 -3.98163302 3.69745091]]

*** 偏微分_重み2 ***

[-3.06670836e-043 -1.43260714e-121 -2.47758132e+000 -2.42283714e-075
-2.47758132e+000 -1.22507501e-113 -2.47758132e+000 -3.79825959e-071
-6.94253976e-065 -2.47758132e+000]

*** 偏微分_バイアス1 ***

[0.93807218 2.44043476 -0.59309238 1.16931858 -0.44695875 1.54144781
-0.34911217 1.61660715 1.07858425 -1.00160218]

*** 偏微分_バイアス2 ***

-2.477581315950646

順伝播開始

*** 総入力1 ***

[41.39383442 125.36989911 -83.77486427 70.70642617 -93.25016252
100.5956944 -92.95431764 70.21397096 58.80777682 -92.78010271]

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 4.14036593e-37 1.00000000e+00
3.17664717e-41 1.00000000e+00 4.27024487e-41 1.00000000e+00
1.00000000e+00 5.08292101e-41]
```

*** 総入力2 ***

-14.605700888985114

*** 出力1 ***

-14.605700888985114

出力合計: -14.605700888985114

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 8.8880311 23.12259186 -10.37974064 11.07904076 -8.14112384
14.60488482 -6.64221495 15.31700335 10.21935264 -16.63769031]
[-15.62923556 -40.66012271 18.25234518 -19.48203556 14.31583
-25.6820867 11.68006063 -26.93431773 -17.9703095 29.2566912 ]]
```

*** 偏微分_重み2 ***

```
[-1.34593302e+01 -1.34593302e+01 -5.57265524e-36 -1.34593302e+01
-4.27555434e-40 -1.34593302e+01 -5.74746359e-40 -1.34593302e+01
-1.34593302e+01 -6.84127124e-40]
```

*** 偏微分_バイアス1 ***

```
[ 4.00775949 10.42635719 -4.68039587 4.9957218 -3.67096671 6.58558291
-2.99508403 6.90668888 4.60807428 -7.50220836]
```

*** 偏微分_バイアス2 ***

-13.459330241023414

順伝播開始

*** 総入力1 ***

```
[-84.54250015 -234.0351028 158.20392789 -142.7643969 185.32047982
-209.65478712 181.68357614 -138.74355013 -123.60971741 213.68938727]
```

*** 中間層出力1 ***

```
[1.92158102e-037 2.29005695e-102 1.00000000e+000 9.95887341e-063
1.00000000e+000 8.87325268e-092 1.00000000e+000 5.55190184e-061
2.07482665e-054 1.00000000e+000]
```

*** 総入力2 ***

6. 120437483160156

*** 出力1 ***

6. 120437483160156

出力合計: 6. 120437483160156

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.45181738 -2.36657127 0.86356517 -0.74653981 0.67731856 -1.22081673
 0.55261357 -1.31660695 -0.63089935 1.38420895]
 [ 0.19122724 1.00162788 -0.36549542 0.31596559 -0.28666838 0.5166986
 -0.23388823 0.55724087 0.26702191 -0.58585275]]
```

*** 偏微分_重み2 ***

```
[2.80302137e-037 3.34051935e-102 1.45870580e+000 1.45270664e-062
 1.45870580e+000 1.29434651e-091 1.45870580e+000 8.09859139e-061
 3.02656167e-054 1.45870580e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.20872022 -1.09325426 0.39893001 -0.34486932 0.31289208 -0.56396488
 0.25528373 -0.60821585 -0.2914484 0.63944507]
```

*** 偏微分_バイアス2 ***

1.458705797488677

順伝播開始

*** 総入力1 ***

```
[ 83.43636674 251.53602317 -198.96057747 148.13382844 -233.49631976
 230.10314071 -219.89002073 142.81694385 125.20925802 -277.35929413]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 3.91308325e-087 1.00000000e+000
 3.92497399e-102 1.00000000e+000 3.18403160e-096 1.00000000e+000
 1.00000000e+000 3.50258799e-121]
```

*** 総入力2 ***

-8.112738476707849

*** 出力1 ***

-8.112738476707849

出力合計: -8.112738476707849

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.06546003 -5.58076602  3.0508293 -1.7604642  2.3407238 -2.87888753
  1.86525902 -3.10477669 -1.48776489  5.03589636]
 [ 0.89630058  4.69472683 -2.56645953  1.4809613 -1.96909506  2.42181637
 -1.56911821  2.61184188  1.25155753 -4.23636426]]
```

*** 偏微分_重み2 ***

```
[-2.06153192e+000 -2.06153192e+000 -8.06694602e-087 -2.06153192e+000
 -8.09145915e-102 -2.06153192e+000 -6.56398277e-096 -2.06153192e+000
 -2.06153192e+000 -7.22069693e-121]
```

*** 偏微分_バイアス1 ***

```
[ 0.23198331  1.21510385 -0.66425907  0.38330703 -0.50964733  0.62682207
 -0.40612407  0.67600507  0.32393203 -1.09646902]
```

*** 偏微分_バイアス2 ***

-2.061531917815069

順伝播開始

*** 総入力1 ***

```
[ 111.20572473  329.10990921 -236.24174073  194.3161055 -274.32298214
 287.99749768 -267.99411107  186.99493419  163.98156845 -298.59349493]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 2.52066775e-103 1.00000000e+000
 7.29529061e-120 1.00000000e+000 4.08918143e-117 1.00000000e+000
 1.00000000e+000 2.10132303e-130]
```

*** 総入力2 ***

-7.102587836978465

*** 出力1 ***

-7.102587836978465

出力合計: -7.102587836978465

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.04451241 -0.29674855  0.17042686 -0.08333706  0.13075861 -0.14581495
```

```
0.10419798 -0.15843368 -0.0681034 0.28131761]
[-0.24964449 -1.66429182 0.95582614 -0.4673896 0.73334978 -0.81779211
0.58438646 -0.88856329 -0.38195279 1.57774851]]
```

*** 偏微分_重み2 ***

```
[-1.29472526e+000 -1.29472526e+000 -3.26357219e-103 -1.29472526e+000
-9.44539700e-120 -1.29472526e+000 -5.29436647e-117 -1.29472526e+000
-1.29472526e+000 -2.72063600e-130]
```

*** 偏微分_バイアス1 ***

```
[ 0.10896026 0.72639964 -0.41718151 0.20399766 -0.3200791 0.35693494
-0.25506231 0.38782385 0.16670776 -0.6886268 ]
```

*** 偏微分_バイアス2 ***

```
-1.29472525564365
```

順伝播開始

*** 総入力1 ***

```
[ 14.87955732 52.67774743 -49.67603963 29.12247459 -58.14011529
48.30824564 -53.19732984 27.39608691 23.30111144 -67.32650451]
```

*** 中間層出力1 ***

```
[9.99999655e-01 1.00000000e+00 2.66667509e-22 1.00000000e+00
5.62430358e-26 1.00000000e+00 7.88303038e-24 1.00000000e+00
1.00000000e+00 5.76063827e-30]
```

*** 総入力2 ***

```
-6.46817234524427
```

*** 出力1 ***

```
-6.46817234524427
```

出力合計: -6.46817234524427

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.34220415 -2.80223063 1.66215115 -0.72085589 1.27527186 -1.33019467
1.0162294 -1.45326348 -0.572284 2.74365429]
[ 0.28140273 2.30434181 -1.36682696 0.59277718 -1.0486868 1.09385115
-0.83566994 1.1950536 0.47060293 -2.25617308]]
```

*** 偏微分_重み2 ***

```
[-5.09627046e+00 -5.09627222e+00 -1.35901022e-21 -5.09627222e+00  
-2.86629821e-25 -5.09627222e+00 -4.01740687e-23 -5.09627222e+00  
-5.09627222e+00 -2.93577807e-29]
```

*** 偏微分_バイアス1 ***

```
[ 0.33807636  2.76842912 -1.64210168  0.71216067 -1.25988907  1.31414939  
-1.00397127  1.4357337  0.5653809 -2.71055935]
```

*** 偏微分_バイアス2 ***

-5.096272215980602

順伝播開始

*** 総入力1 ***

```
[-117.33100134 -327.35319302  212.3675725 -198.17713363  246.47820613  
-284.7830675  246.78657147 -192.22476318 -170.4638638  266.4136343 ]
```

*** 中間層出力1 ***

```
[1.10609789e-051 6.79695883e-143 1.00000000e+000 8.56573087e-087  
1.00000000e+000 2.09066884e-124 1.00000000e+000 3.29492904e-084  
9.30003513e-075 1.00000000e+000]
```

*** 総入力2 ***

6.2015675112998725

*** 出力1 ***

6.2015675112998725

出力合計: 6.2015675112998725

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.75429207e-03  2.18336227e-01 -9.19754262e-02  3.21224343e-02  
-7.05673927e-02  8.66379830e-02 -5.62332325e-02  9.76485472e-02  
1.88301931e-02 -1.51820593e-01]  
[ 1.44494963e-02 -1.79835990e+00  7.57569738e-01 -2.64581369e-01  
5.81239179e-01 -7.13607067e-01  4.63173665e-01 -8.04297271e-01  
-1.55097781e-01  1.25049366e+00]]
```

*** 偏微分_重み2 ***

```
[1.02553077e-051 6.30187483e-143 9.27160954e-001 7.94181121e-087  
9.27160954e-001 1.93838652e-124 9.27160954e-001 3.05492955e-084  
8.62262944e-075 9.27160954e-001]
```

*** 偏微分_バイアス1 ***

[0.00448128 -0.5577331 0.23494837 -0.08205576 0.18026221 -0.22131403
0.14364604 -0.24944018 -0.04810114 0.38782098]

*** 偏微分_バイアス2 ***

0.9271609536942478

順伝播開始

*** 総入力1 ***

[-32.91565378 -84.35731108 38.09875947 -52.34959553 42.48601555
-67.14703575 48.97798379 -51.52388734 -45.91317886 34.12912788]

*** 中間層出力1 ***

[5.06889386e-15 2.31251889e-37 1.00000000e+00 1.84017672e-23
1.00000000e+00 6.89307334e-30 1.00000000e+00 4.20203863e-23
1.14857609e-20 1.00000000e+00]

*** 総入力2 ***

5.877061177506883

*** 出力1 ***

5.877061177506883

出力合計: 5.877061177506883

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.06815255 8.48215174 -3.39322895 1.24792558 -2.56154751
3.36580204 -2.00467922 3.79355183 0.73153483 -5.71815594]
[0.10683913 -13.29701753 5.3193843 -1.95630646 4.0156016
-5.27638859 3.14262884 -5.94694916 -1.1467882 8.96404852]]

*** 偏微分_重み2 ***

[2.80422658e-14 1.27933768e-36 5.53222588e+00 1.01802733e-22
5.53222588e+00 3.81340387e-29 5.53222588e+00 2.32466268e-22
6.35418239e-20 5.53222588e+00]

*** 偏微分_バイアス1 ***

[0.02673913 -3.32790707 1.33130731 -0.48961401 1.00500348 -1.32054657
0.78652049 -1.48837092 -0.28701207 2.24347455]

*** 偏微分_バイアス2 ***

5. 53222587646501

順伝播開始

*** 総入力1 ***

[-29.60117432 -76.18981005 45.32792065 -48.07548157 53.42575412
-68.61729001 53.71336639 -47.2609421 -42.71059204 63.54601934]

*** 中間層出力1 ***

[1.39435493e-13 8.15053130e-34 1.00000000e+00 1.32155012e-21
1.00000000e+00 1.58449031e-30 1.00000000e+00 2.98423925e-21
2.82504622e-19 1.00000000e+00]

*** 総入力2 ***

3.940782120744135

*** 出力1 ***

3.940782120744135

出力合計: 3.940782120744135

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.00997041 -1.24090004 0.33935109 -0.18256581 0.2176799 -0.49240146
0.13621261 -0.5549793 -0.1070202 0.67947728]
[-0.00610124 0.75935014 -0.2076608 0.11171841 -0.13320594 0.30131768
-0.08335326 0.33961125 0.06548941 -0.41579592]]

*** 偏微分_重み2 ***

[3.39930465e-13 1.98702198e-33 2.43790485e+00 3.22181344e-21
2.43790485e+00 3.86283661e-30 2.43790485e+00 7.27529132e-21
6.88719387e-19 2.43790485e+00]

*** 偏微分_バイアス1 ***

[0.01178322 -1.46652016 0.40105182 -0.21575988 0.2572584 -0.58192976
0.16097875 -0.65588549 -0.12647859 0.80301967]

*** 偏微分_バイアス2 ***

2.4379048466996585

順伝播開始

*** 総入力1 ***


```
[ 22.27724889  69.55748257 -50.58658977  40.09649693 -57.51109123
 56.90940903 -58.20122675  37.13292742  32.37691651 -49.81934571]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.07281097e-22 1.00000000e+00
 1.05499507e-25 1.00000000e+00 5.29088572e-26 1.00000000e+00
 1.00000000e+00 2.31064415e-22]
```

*** 総入力2 ***

-4.593809616389566

*** 出力1 ***

-4.593809616389566

出力合計: -4.593809616389566

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.03080361  3.83376496 -1.34937961  0.5640377 -0.74161315  1.521276
 -0.33467144  1.71461046  0.33063929 -3.04836261]
 [ 0.05049323 -6.2843019  2.21190107 -0.92456977  1.21565119 -2.4936734
  0.54859293 -2.81058695 -0.54198344  4.99687152]]
```

*** 偏微分_重み2 ***

```
[-4.03463904e+00 -4.03463904e+00 -4.32840501e-22 -4.03463904e+00
 -4.25652429e-25 -4.03463904e+00 -2.13468141e-25 -4.03463904e+00
 -4.03463904e+00 -9.32261509e-22]
```

*** 偏微分_バイアス1 ***

```
[-0.01533635  1.90873589 -0.67182243  0.28082029 -0.36923068  0.75740535
 -0.16662456  0.85366175  0.16461705 -1.51770366]
```

*** 偏微分_バイアス2 ***

-4.034639044771839

順伝播開始

*** 総入力1 ***

```
[ 60.76563445 192.9169105 -154.67931736 110.34892221 -181.06848046
 174.93506062 -168.83159257 107.87213057  92.61904919 -219.05164478]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 6.66232791e-68 1.00000000e+00
```

2. 30652459e-79 1. 00000000e+00 4. 75741434e-74 1. 00000000e+00
1. 00000000e+00 7. 36341742e-96]

*** 総入力2 ***

-2. 6168364845069876

*** 出力1 ***

-2. 6168364845069876

出力合計: -2. 6168364845069876

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 51082467 3. 59518288 -1. 43368212 0. 12117936 -0. 78794544 1. 13822114
-0. 35558004 1. 34363417 -0. 12680062 -3. 23880911]
[0. 46250068 -3. 25507879 1. 29805587 -0. 1097158 0. 71340585 -1. 03054549
0. 32194219 -1. 21652645 0. 11480529 2. 93241796]]

*** 偏微分_重み2 ***

[2. 14859884e+00 2. 14859884e+00 1. 43146700e-67 2. 14859884e+00
4. 95579605e-79 2. 14859884e+00 1. 02217749e-73 2. 14859884e+00
2. 14859884e+00 1. 58210301e-95]

*** 偏微分_バイアス1 ***

[0. 12747474 -0. 89716695 0. 35777101 -0. 03023994 0. 19662939 -0. 28403962
0. 08873392 -0. 33529982 0. 03164271 0. 80823496]

*** 偏微分_バイアス2 ***

2. 148598836747939

順伝播開始

*** 総入力1 ***

[-216. 93369187 -611. 16303357 416. 57907201 -369. 75771354 485. 96559912
-540. 21653478 479. 29389616 -356. 92280202 -317. 11408782 537. 7889178]

*** 中間層出力1 ***

[6. 12201915e-095 3. 76068518e-266 1. 00000000e+000 2. 60774649e-161
1. 00000000e+000 2. 43747355e-235 1. 00000000e+000 9. 78130083e-156
1. 90152275e-138 1. 00000000e+000]

*** 総入力2 ***

3. 219538238960925

*** 出力1 ***

3. 219538238960925

出力合計: 3. 219538238960925

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.62130149  9.3352527 -2.15021515  0.91122914 -1.18174887  3.37742812
 -0.53329367  3.87552899  0.30990873 -4.8575178 ]
 [-0.71062022 10.67729504 -2.45933155  1.04222806 -1.3516379   3.8629695
 -0.60996033  4.4326777   0.35446142 -5.5558379 ]]
```

*** 偏微分_重み2 ***

```
[-4.80329436e-094 -2.95060788e-265 -7.84593161e+000 -2.04602006e-160
 -7.84593161e+000 -1.91242508e-234 -7.84593161e+000 -7.67434174e-155
 -1.49192174e-137 -7.84593161e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.29688255  4.46075484 -1.02745827  0.4354215  -0.56468659  1.61386941
 -0.25482891  1.85188181  0.14808671 -2.3211151 ]
```

*** 偏微分_バイアス2 ***

-7.845931614302921

順伝播開始

*** 総入力1 ***

```
[-178.55153811 -506.7275688  344.33132597 -304.93280817  401.46823239
 -447.26435396  394.91905379 -295.86532751 -261.67778865  449.6091382 ]
```

*** 中間層出力1 ***

```
[2.85793446e-078 8.53125737e-221 1.00000000e+000 3.70991587e-133
 1.00000000e+000 5.69585759e-195 1.00000000e+000 3.21603582e-129
 2.26349923e-114 1.00000000e+000]
```

*** 総入力2 ***

5.965614303966948

*** 出力1 ***

5.965614303966948

出力合計: 5.965614303966948

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.29926405  4.4965376 -1.88971783  0.43891432 -1.42323393  1.62681536
 -1.11089068  1.86673702  0.14927462 -3.19375196]
 [-0.14255879  2.14199124 -0.90019464  0.20908323 -0.67797823  0.77495722
 -0.52918897  0.8892474  0.07110914 -1.52139031]]
```

*** 偏微分_重み2 ***

```
[-9.58633108e-078 -2.86162817e-220 -3.35428653e+000 -1.24441208e-132
 -3.35428653e+000 -1.91055384e-194 -3.35428653e+000 -1.07875057e-128
 -7.59242498e-114 -3.35428653e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.126923  1.90705841 -0.80146161  0.18615106 -0.60361782  0.68996019
 -0.47114771  0.79171506  0.06330992 -1.35452477]
```

*** 偏微分_バイアス2 ***

-3.3542865340746975

順伝播開始

*** 総入力1 ***

```
[ 384.64879245 1122.81394609 -792.85162417  667.02151947
 -923.10806855  988.98383039 -901.11615828  645.14646585
 567.04944747 -1026.95733203]
```

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-2.885634644127045

*** 出力1 ***

-2.885634644127045

出力合計: -2.885634644127045

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.55719012  38.42259552 -31.15171212  3.75049178 -24.70697224
 13.90102214 -20.39177283  15.95113571  1.27554103 -49.16768419]
 [-1.70533386  25.62318412 -20.77439185  2.5011205  -16.47653653
```

```
9. 27028601 -13. 59882493 10. 63746167 0. 85063027 -32. 78884749]]

*** 偏微分_重み2 ***
[17. 90888534 17. 90888534 0. 17. 90888534 0. 17. 90888534
 0. 17. 90888534 17. 90888534 0. ]

*** 偏微分_バイアス1 ***
[ 0. 53294032 -8. 00759791 6. 49228355 -0. 7816346 5. 14914457 -2. 89709204
 4. 24982007 -3. 32435327 -0. 26583367 10. 2469664 ]

*** 偏微分_バイアス2 ***
17. 908885342453626

##### 順伝播開始 #####
*** 総入力1 ***
[ 58. 33919878 181. 01918074 -135. 1857877 104. 19998905 -156. 06346888
 157. 02187262 -150. 93585167 100. 9037919 87. 01764182 -171. 58221609]

*** 中間層出力1 ***
[1. 00000000e+00 1. 00000000e+00 1. 94786283e-59 1. 00000000e+00
 1. 66915489e-68 1. 00000000e+00 2. 81444327e-66 1. 00000000e+00
 1. 00000000e+00 3. 03941750e-75]

*** 総入力2 ***
-11. 660988461929321

*** 出力1 ***
-11. 660988461929321

出力合計: -11. 660988461929321

##### 誤差逆伝播開始 #####
*** 偏微分_重み1 ***
[[-0. 59836054 -1. 91505021 1. 00091147 -0. 80102777 0. 79384054 -1. 12716658
 0. 65519222 -1. 19303719 -0. 72150705 1. 57976868]
 [-2. 05244157 -6. 56882995 3. 43323491 -2. 74761215 2. 72295915 -3. 86630363
 2. 24738037 -4. 09224696 -2. 47484745 5. 41877792]]

*** 偏微分_重み2 ***
[-8. 43252862e+00 -8. 43252862e+00 -1. 64254091e-58 -8. 43252862e+00
 -1. 40751964e-67 -8. 43252862e+00 -2. 37328734e-65 -8. 43252862e+00
 -8. 43252862e+00 -2. 56299751e-74]
```

*** 偏微分_バイアス1 ***

[1.82748588 5.84886028 -3.05693882 2.44646302 -2.42451209 3.4425415
-2.00105862 3.64372055 2.20359441 -4.82485848]

*** 偏微分_バイアス2 ***

-8.432528618126018

順伝播開始

*** 総入力1 ***

[222.95759329 667.92541288 -476.86404935 390.49970695 -551.95792125
582.65155913 -537.10374441 380.58469194 330.68025274 -618.49540204]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 7.95380155e-208 1.00000000e+000
1.93963744e-240 1.00000000e+000 5.48034112e-234 1.00000000e+000
1.00000000e+000 2.45957355e-269]

*** 総入力2 ***

-7.529049439047576

*** 出力1 ***

-7.529049439047576

出力合計: -7.529049439047576

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.26002939 7.22937921 -4.53773645 2.17884239 -3.5989588 3.65742666
-2.97038219 3.95605792 1.81832692 -7.16204592]
[0.96837341 5.55601216 -3.48739749 1.67451097 -2.76591645 2.8108509
-2.28283496 3.0403587 1.39744315 -5.50426435]]

*** 偏微分_重み2 ***

[4.65945334e+000 4.65945334e+000 3.70603672e-207 4.65945334e+000
9.03765013e-240 4.65945334e+000 2.55353937e-233 4.65945334e+000
4.65945334e+000 1.14602682e-268]

*** 偏微分_バイアス1 ***

[-0.46903505 -2.69107392 1.68913317 -0.81105525 1.3396813 -1.36144546
1.10569909 -1.47260837 -0.67685648 2.66600969]

*** 偏微分_バイアス2 ***

4. 6594533393643545

順伝播開始

*** 総入力1 ***

[77. 60581005 242. 05043682 -181. 00320338 138. 70577137 -209. 13506089
211. 17489378 -200. 72425891 135. 63362317 116. 37059214 -238. 00315015]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 2. 46211063e-079 1. 00000000e+000
1. 49209708e-091 1. 00000000e+000 6. 70751993e-088 1. 00000000e+000
1. 00000000e+000 4. 33057149e-104]

*** 総入力2 ***

-9. 812181575336108

*** 出力1 ***

-9. 812181575336108

出力合計: -9. 812181575336108

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1. 34525614 -5. 23830426 2. 95938869 -1. 94448107 2. 34714336 -2. 90877365
1. 93720273 -3. 10353286 -1. 70936265 4. 67089218]
[0. 0395968 0. 1541863 -0. 08710781 0. 05723462 -0. 06908674 0. 08561798
-0. 05702039 0. 0913506 0. 05031405 -0. 13748487]]

*** 偏微分_重み2 ***

[-5. 15100949e+000 -5. 15100949e+000 -1. 26823552e-078 -5. 15100949e+000
-7. 68580623e-091 -5. 15100949e+000 -3. 45504988e-087 -5. 15100949e+000
-5. 15100949e+000 -2. 23068149e-103]

*** 偏微分_バイアス1 ***

[0. 84883689 3. 30529315 -1. 86733086 1. 22693903 -1. 48101303 1. 8353935
-1. 22234651 1. 95828371 1. 07858276 -2. 94726445]

*** 偏微分_バイアス2 ***

-5. 151009490226862

順伝播開始

*** 総入力1 ***

[-188.00389126 -550.38652332 379.37630786 -324.53638285 439.59717871
-481.98499918 428.75792623 -319.12222357 -277.90481362 505.65436922]

*** 中間層出力1 ***

[2.24361043e-082 9.33619701e-240 1.00000000e+000 1.13668401e-141
1.00000000e+000 4.74869740e-210 1.00000000e+000 2.55257935e-139
2.02989208e-121 1.00000000e+000]

*** 総入力2 ***

6.510678550750535

*** 出力1 ***

6.510678550750535

出力合計: 6.510678550750535

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.73089731 10.52177234 -4.13317767 3.08400451 -3.2780961 5.26146939
-2.7055598 5.70125432 2.55308464 -6.52351863]
[-0.21440728 -1.30333823 0.51197919 -0.38201748 0.40605972 -0.65174136
0.33513931 -0.70621778 -0.31625212 0.80807215]]

*** 偏微分_重み2 ***

[-8.63972203e-082 -3.59519397e-239 -3.85081203e+000 -4.37715647e-141
-3.85081203e+000 -1.82863410e-209 -3.85081203e+000 -9.82950324e-139
-7.81673285e-121 -3.85081203e+000]

*** 偏微分_バイアス1 ***

[0.45976757 2.79483346 -1.09787048 0.81918509 -0.87074044 1.39757165
-0.71866116 1.514389 0.67816012 -1.732802]

*** 偏微分_バイアス2 ***

-3.850812025621128

順伝播開始

*** 総入力1 ***

[-62.8959593 -174.08525299 110.36247659 -105.452578 127.92230251
-151.60961885 128.06647442 -103.41627983 -91.43513582 142.87600511]

*** 中間層出力1 ***

[4.83762211e-28 2.48734052e-76 1.00000000e+00 1.59414298e-46

1.00000000e+00 1.43475956e-66 1.00000000e+00 1.22146304e-45
1.95085532e-40 1.00000000e+00]

*** 総入力2 ***

7.858462759717931

*** 出力1 ***

7.858462759717931

出力合計: 7.858462759717931

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.19211866 -1.16785021 0.54403592 -0.342305 0.44912727 -0.58398984
0.38557936 -0.63280318 -0.28337625 0.80934865]
[-0.5724665 -3.4799073 1.62109365 -1.01998499 1.33828915 -1.74014654
1.14893196 -1.88559835 -0.84439176 2.41166056]]

*** 偏微分_重み2 ***

[2.38989124e-27 1.22880068e-75 4.94021895e+00 7.87541537e-46
4.94021895e+00 7.08802638e-66 4.94021895e+00 6.03429485e-45
9.63765242e-40 4.94021895e+00]

*** 偏微分_バイアス1 ***

[-0.58983727 -3.5855007 1.67028369 -1.05093515 1.37889784 -1.79294909
1.18379485 -1.94281445 -0.87001376 2.48483935]

*** 偏微分_バイアス2 ***

4.940218947928357

順伝播開始

*** 総入力1 ***

[94.27133098 291.12140324 -214.69062952 167.59019625 -248.12680109
253.69766945 -239.09316738 163.817249 140.93737617 -280.95181082]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 5.76825278e-094 1.00000000e+000
1.73739862e-108 1.00000000e+000 1.45598449e-104 1.00000000e+000
1.00000000e+000 9.64226097e-123]

*** 総入力2 ***

-7.364445409686452

*** 出力1 ***

-7.364445409686452

出力合計: -7.364445409686452

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.28886706 -1.75596403 1.05659668 -0.51468525 0.82587174 -0.87807935
0.67138543 -0.95147445 -0.42608076 1.70157756]
[-0.04803446 -0.2919917 0.17569691 -0.08558479 0.13733066 -0.14601204
0.11164179 -0.15821659 -0.07085114 0.28294801]]

*** 偏微分_重み2 ***

[-1.86385609e+000 -1.86385609e+000 -1.07511931e-093 -1.86385609e+000
-3.23826100e-108 -1.86385609e+000 -2.71374555e-104 -1.86385609e+000
-1.86385609e+000 -1.79717868e-122]

*** 偏微分_バイアス1 ***

[0.17501217 1.06386337 -0.64014666 0.31182574 -0.5003603 0.53199066
-0.40676367 0.5764576 0.25814408 -1.03091294]

*** 偏微分_バイアス2 ***

-1.8638560895318026

順伝播開始

*** 総入力1 ***

[-151.93330825 -441.64377171 300.47743061 -261.15817664 348.0147283
-385.8263743 340.80074413 -256.81317746 -223.95233839 397.89191024]

*** 中間層出力1 ***

[1.03801256e-066 1.57234186e-192 1.00000000e+000 3.80579141e-114
1.00000000e+000 2.73989974e-168 1.00000000e+000 2.93395973e-112
5.47942805e-098 1.00000000e+000]

*** 総入力2 ***

6.25985605421023

*** 出力1 ***

6.25985605421023

出力合計: 6.25985605421023

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.40753378  3.25529369 -1.26850891  0.84586608 -0.99150952  1.55124491
    -0.80603926  1.69371104  0.67387724 -2.04284789]
  [ 0.04090469  0.32673798 -0.12732186  0.08490066 -0.09951908  0.15570043
    -0.08090319  0.16999994  0.06763792 -0.20504325]]
```

*** 偏微分_重み2 ***

```
[-1.92328624e-066 -2.91332069e-192 -1.85285449e+000 -7.05157771e-114
 -1.85285449e+000 -5.07663554e-168 -1.85285449e+000 -5.43620047e-112
 -1.01525829e-097 -1.85285449e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.16078605  1.28432501 -0.50047027  0.33372318 -0.39118451  0.61201932
 -0.31801013  0.66822709  0.26586768 -0.80597356]
```

*** 偏微分_バイアス2 ***

-1.852854493777313

順伝播開始

*** 総入力1 ***

```
[-325.45685087 -950.4664296  652.59974946 -561.51419351  755.39791521
 -828.23682354  740.98428585 -549.4418441  -479.56435531  849.05540359]
```

*** 中間層出力1 ***

```
[4.52778265e-142 0.00000000e+000 1.00000000e+000 1.37241119e-244
 1.00000000e+000 0.00000000e+000 1.00000000e+000 2.40125886e-239
 5.34375788e-209 1.00000000e+000]
```

*** 総入力2 ***

6.90835512703229

*** 出力1 ***

6.90835512703229

出力合計: 6.90835512703229

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 3.06445887  24.47824993 -10.43910506  6.36050789 -8.35620227
    11.664619   -6.96155469  12.73589605  5.06723421 -16.26176341]
```

```
[ 2.78715335 22.26319199 -9.49446144 5.78494005 -7.60004232
10.60907757 -6.33159761 11.58341383 4.60869582 -14.79022242]]
```

*** 偏微分_重み2 ***

```
[-4.54618332e-141 0.00000000e+000 -1.00406395e+001 -1.37798859e-243
-1.00406395e+001 0.00000000e+000 -1.00406395e+001 -2.41101745e-238
-5.36547462e-208 -1.00406395e+001]
```

*** 偏微分_バイアス1 ***

```
[ 0.87130143 6.95977175 -2.96809571 1.80844968 -2.37587494 3.31653962
-1.97934214 3.62113018 1.44073999 -4.62362146]
```

*** 偏微分_バイアス2 ***

-10.040639465498483

順伝播開始

*** 総入力1 ***

```
[ 147.70783024 458.65824755 -334.85320854 262.14023766 -386.51898065
399.0827038 -370.77244604 259.32827809 221.33655647 -448.7089049 ]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 3.75923334e-146 1.00000000e+000
1.37069097e-168 1.00000000e+000 9.45306499e-162 1.00000000e+000
1.00000000e+000 1.34337921e-195]
```

*** 総入力2 ***

-5.618611348666562

*** 出力1 ***

-5.618611348666562

出力合計: -5.618611348666562

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.8901936 7.1106784 -7.19487293 1.84766175 -6.21660021 3.38845116
-5.56157891 3.69964606 1.47197912 -9.92958905]
[-0.31830287 -2.5425361 2.57264119 -0.66066083 2.22284423 -1.21159458
1.98863095 -1.32286726 -0.52632953 3.55048241]]
```

*** 偏微分_重み2 ***

```
[3.33038461e+000 3.33038461e+000 1.25196928e-145 3.33038461e+000
```

4. 56492812e-168 3. 33038461e+000 3. 14823421e-161 3. 33038461e+000
3. 33038461e+000 4. 47396944e-195]

*** 偏微分_バイアス1 ***

[-0. 22728528 -1. 8155068 1. 83700345 -0. 47174718 1. 5872297 -0. 86514335
1. 41998889 -0. 944598 -0. 37582745 2. 53523439]

*** 偏微分_バイアス2 ***

3. 3303846076043655

順伝播開始

*** 総入力1 ***

[-343. 41665223 -1016. 49201441 698. 83082481 -594. 2616759
806. 51937727 -881. 0343482 788. 12842311 -586. 31468148
-507. 23698009 917. 50589376]

*** 中間層出力1 ***

[7. 17865271e-150 0. 00000000e+000 1. 00000000e+000 8. 23063514e-259
1. 00000000e+000 0. 00000000e+000 1. 00000000e+000 2. 32685423e-255
5. 12599914e-221 1. 00000000e+000]

*** 総入力2 ***

10. 189452017424454

*** 出力1 ***

10. 189452017424454

出力合計: 10. 189452017424454

誤差逆伝播開始

*** 偏微分_重み1 ***

[[5. 50771031 28. 53127613 -16. 47066794 9. 05153874 -14. 23118361
14. 75438467 -12. 73169386 15. 90619462 7. 66104364 -22. 73104273]
[2. 32707325 12. 05480423 -6. 95905352 3. 824383 -6. 0128447
6. 23390338 -5. 3792924 6. 72055681 3. 23688225 -9. 60413649]]

*** 偏微分_重み2 ***

[-5. 75593187e-149 0. 00000000e+000 -8. 01812276e+000 -6. 59942429e-258
-8. 01812276e+000 0. 00000000e+000 -8. 01812276e+000 -1. 86570028e-254
-4. 11008904e-220 -8. 01812276e+000]

*** 偏微分_バイアス1 ***

```
[ 1.16310259  6.02515372 -3.47822879  1.9114782 -3.00530087  3.11578898  
-2.68864289  3.35902492  1.6178374 -4.80027693]
```

*** 偏微分_バイアス2 ***

-8.018122757704237

順伝播開始

*** 総入力1 ***

```
[ -71.76991468 -217.67070046 148.53020275 -123.8501468 170.31003748  
-188.31154295 162.85943848 -127.21148019 -107.01578831 213.40493488]
```

*** 中間層出力1 ***

```
[6.77208014e-32 2.92965120e-95 1.00000000e+00 1.63141579e-54  
1.00000000e+00 1.64943809e-82 1.00000000e+00 5.65921404e-56  
3.33913256e-47 1.00000000e+00]
```

*** 総入力2 ***

12.995794982620938

*** 出力1 ***

12.995794982620938

出力合計: 12.995794982620938

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-4.2630643 -22.08370773 15.99166199 -7.00604961 14.25826188  
-11.4201523 13.09763053 -12.31167339 -5.92978203 20.83730179]  
[ 3.62804132 18.79413457 -13.60955557 5.96243352 -12.13436148  
9.71901466 -11.14661694 10.47773541 5.04648598 -17.73339236]]
```

*** 偏微分_重み2 ***

```
[5.76813159e-31 2.49533575e-94 8.51751821e+00 1.38956137e-53  
8.51751821e+00 1.40491189e-81 8.51751821e+00 4.82024586e-55  
2.84411224e-46 8.51751821e+00]
```

*** 偏微分_バイアス1 ***

```
[-1.23554451 -6.4004204 4.63479054 -2.03053144 4.13240708 -3.30985072  
3.79602659 -3.56823621 -1.71860171 6.03918025]
```

*** 偏微分_バイアス2 ***

8.51751820780653

順伝播開始

*** 総入力1 ***

[93.01023573 300.9519404 -229.11332341 168.63488621 -264.8066743
264.30102608 -249.07469922 168.3354337 141.74957881 -320.75030404]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.14302557e-100 1.00000000e+000
9.90655331e-116 1.00000000e+000 6.73337103e-109 1.00000000e+000
1.00000000e+000 5.01086711e-140]

*** 総入力2 ***

-7.285457487899863

*** 出力1 ***

-7.285457487899863

出力合計: -7.285457487899863

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.35285862 -1.8278933 1.67905543 -0.5798986 1.44708216 -0.94525884
1.29176001 -1.01905104 -0.49081472 2.32752597]
[0.2799177 1.45004163 -1.33197068 0.46002527 -1.1479496 0.74986032
-1.02473475 0.80839862 0.3893563 -1.84639308]]

*** 偏微分_重み2 ***

[-6.59830580e-001 -6.59830580e-001 -2.07386438e-100 -6.59830580e-001
-6.53664681e-116 -6.59830580e-001 -4.44288411e-109 -6.59830580e-001
-6.59830580e-001 -3.30632335e-140]

*** 偏微分_バイアス1 ***

[0.07527446 0.38993995 -0.35818874 0.12370833 -0.30870246 0.20164973
-0.27556796 0.21739164 0.10470429 -0.49652535]

*** 偏微分_バイアス2 ***

-0.6598305798412101

順伝播開始

*** 総入力1 ***

[69.26671805 215.08766538 -157.64186747 123.05384999 -181.16591615
184.52322354 -175.87484184 120.3247238 103.00215487 -198.97442578]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 3.44355354e-69 1.00000000e+00
2.09238841e-79 1.00000000e+00 4.15457575e-77 1.00000000e+00
1.00000000e+00 3.85926717e-87]

*** 総入力2 ***

-6.96214050377767

*** 出力1 ***

-6.96214050377767

出力合計: -6.96214050377767

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.04924534 -0.27290675 0.25459734 -0.0836717 0.21942293 -0.13907175
0.19587123 -0.15026095 -0.0701638 0.35292576]
[-0.5607019 -3.10728563 2.89881676 -0.95267662 2.49832492 -1.58345531
2.23016792 -1.71085436 -0.79887715 4.01837316]]

*** 偏微分_重み2 ***

[-3.30544361e+00 -3.30544361e+00 -1.13824721e-68 -3.30544361e+00
-6.91627192e-79 -3.30544361e+00 -1.37327159e-76 -3.30544361e+00
-3.30544361e+00 -1.27565900e-86]

*** 偏微分_バイアス1 ***

[0.34707274 1.92340019 -1.79435861 0.58970388 -1.5464554 0.98015394
-1.38046704 1.05901356 0.49450248 -2.48736056]

*** 偏微分_バイアス2 ***

-3.3054436135249565

順伝播開始

*** 総入力1 ***

[214.50248316 644.97584204 -452.60451011 374.28599201 -520.89684242
554.48849533 -509.72191763 367.30742284 316.74066314 -575.79720185]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.73123316e-197 1.00000000e+000
5.98929487e-227 1.00000000e+000 4.27153402e-222 1.00000000e+000
1.00000000e+000 8.59909097e-251]

*** 総入力2 ***
-5.34247313315044

*** 出力1 ***
-5.34247313315044

出力合計: -5.34247313315044

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.22774625  2.05286876 -2.07756598  0.50867237 -1.79053569
    0.96074798 -1.59834904  1.05205418  0.39844514 -2.87994588]
  [ 1.44614421 13.03531557 -13.19213809  3.22997019 -11.36955182
    6.10056197 -10.14920416  6.68033849  2.53004881 -18.28709368]]
```

*** 偏微分_重み2 ***

```
[5.52755871e+000 5.52755871e+000 1.50970516e-196 5.52755871e+000
 3.31061790e-226 5.52755871e+000 2.36111550e-221 5.52755871e+000
 5.52755871e+000 4.75319801e-250]
```

*** 偏微分_バイアス1 ***

```
[-0.32893438 -2.96496256  3.0006328  -0.73467655  2.58607437 -1.38761028
 2.3084988  -1.519484  -0.57547513  4.15951173]
```

*** 偏微分_バイアス2 ***

5.527558706918901

順伝播開始

*** 総入力1 ***

```
[ 123.0085308  388.26494745 -288.27423227  220.41312437 -333.59517299
 340.28942511 -316.88166205  218.62590375  185.83200847 -395.96654565]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 6.36929919e-126 1.00000000e+000
 1.32268729e-145 1.00000000e+000 2.39906909e-138 1.00000000e+000
 1.00000000e+000 1.08122034e-172]
```

*** 総入力2 ***

-8.050976899540702

*** 出力1 ***

-8.050976899540702

出力合計: -8.050976899540702

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.04658871  0.21045601 -0.18653275  0.07181146 -0.16076195  0.11240074
    -0.14350661  0.1205986   0.06191479 -0.25857385]
  [-0.03034046 -0.13705748  0.12147768 -0.04676653  0.10469469 -0.07319991
    0.09345732 -0.07853869 -0.04032142  0.16839376]]
```

*** 偏微分_重み2 ***

```
[7.18100439e-002 7.18100439e-002 4.57379655e-127 7.18100439e-002
 9.49822327e-147 7.18100439e-002 1.72277256e-139 7.18100439e-002
 7.18100439e-002 7.76424800e-174]
```

*** 偏微分_バイアス1 ***

```
[-0.00973622 -0.04398159  0.03898205 -0.01500733  0.03359641 -0.02348977
 0.02999035 -0.02520298 -0.0129391   0.05403737]
```

*** 偏微分_バイアス2 ***

0.07181004390689161

順伝播開始

*** 総入力1 ***

```
[ 170.66759557  516.77564082 -365.09417534  298.40691812 -418.96092228
 442.38344307 -409.79683026  293.49924489  252.12467262 -462.60222272]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 2.76448525e-159 1.00000000e+000
 1.11579220e-182 1.00000000e+000 1.06536375e-178 1.00000000e+000
 1.00000000e+000 1.24281749e-201]
```

*** 総入力2 ***

-8.086163821055079

*** 出力1 ***

-8.086163821055079

出力合計: -8.086163821055079

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.01723402  0.07741286 -0.06850254  0.02649685 -0.05903843  0.04140291
 -0.05270156  0.04441351  0.02286238 -0.094959   ]
 [ 0.25607889  1.15027163 -1.01787381  0.39371464 -0.87724742  0.61520263
 -0.78308831  0.6599368   0.33971038 -1.41098839]]
```

*** 偏微分_重み2 ***

```
[4.81870804e-001 4.81870804e-001 1.33212473e-159 4.81870804e-001
 5.37667686e-183 4.81870804e-001 5.13367688e-179 4.81870804e-001
 4.81870804e-001 5.98877461e-202]
```

*** 偏微分_バイアス1 ***

```
[-0.06580971 -0.29560826  0.26158335 -0.10118071  0.22544378 -0.1581009
 0.20124584 -0.16959713 -0.08730216  0.36260986]
```

*** 偏微分_バイアス2 ***

0.4818708042199429

順伝播開始

*** 総入力1 ***

```
[ -360.27052259 -1066.96922817   729.48270631  -622.18960119
   839.43065569  -919.12537675   822.54595785  -615.36692184
  -530.93516375   948.6603341   ]
```

*** 中間層出力1 ***

```
[3.43953747e-157 0.00000000e+000 1.00000000e+000 6.11631021e-271
 1.00000000e+000 0.00000000e+000 1.00000000e+000 5.61747953e-268
 2.61690608e-231 1.00000000e+000]
```

*** 総入力2 ***

9.866546034571082

*** 出力1 ***

9.866546034571082

出力合計: 9.866546034571082

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 5.4283564   23.50560773 -12.7272604   8.21083926 -10.96890023
 12.68850271  -9.7915564   13.59286123   7.11907399 -17.64267487]
 [ 6.24157338  27.02696075 -14.63391933   9.44089738 -12.61214087]
```

14. 58935539 -11. 25842027 15. 62919501 8. 18557578 -20. 28570742]]]

*** 偏微分_重み2 ***

[-2. 94754353e-156 0. 00000000e+000 -8. 56959275e+000 -5. 24142876e-270
-8. 56959275e+000 0. 00000000e+000 -8. 56959275e+000 -4. 81395119e-267
-2. 24258193e-230 -8. 56959275e+000]

*** 偏微分_バイアス1 ***

[1. 56042522 6. 75687822 -3. 65855457 2. 36027256 -3. 15309963 3. 64741336
-2. 81466257 3. 90737858 2. 04643575 -5. 07153046]

*** 偏微分_バイアス2 ***

-8. 569592750917776

順伝播開始

*** 総入力1 ***

[-445. 53203806 -1328. 45819392 909. 55784841 -769. 88698037
1044. 34640192 -1139. 94049359 1021. 15212791 -765. 33073226
-656. 6681426 1186. 58324302]

*** 中間層出力1 ***

[3. 22028538e-194 0. 00000000e+000 1. 00000000e+000 0. 00000000e+000
1. 00000000e+000 0. 00000000e+000 1. 00000000e+000 0. 00000000e+000
6. 49604803e-286 1. 00000000e+000]

*** 総入力2 ***

12. 865903497392303

*** 出力1 ***

12. 865903497392303

出力合計: 12. 865903497392303

誤差逆伝播開始

*** 偏微分_重み1 ***

[[8. 72499241 37. 78054235 -26. 1078405 13. 19727462 -23. 28162977
20. 39421909 -21. 38928608 21. 84779374 11. 44248128 -34. 00838179]
[7. 76820681 33. 63751537 -23. 24484594 11. 75005705 -20. 72855843
18. 15778217 -19. 04372978 19. 45195733 10. 18769494 -30. 27901121]]]

*** 偏微分_重み2 ***

[-3. 22432958e-193 0. 00000000e+000 -1. 00125585e+001 0. 00000000e+000

-1.00125585e+001 0.00000000e+000 -1.00125585e+001 0.00000000e+000
-6.50420610e-285 -1.00125585e+001]

*** 偏微分_バイアス1 ***

[1.82317285 7.89461537 -5.45548968 2.75770014 -4.86492519 4.26157237
-4.46950139 4.56531107 2.39101884 -7.10638537]

*** 偏微分_バイアス2 ***

-10.012558517447353

順伝播開始

*** 総入力1 ***

[144.54674652 446.02728611 -318.26318874 253.55259885 -363.64024032
379.44600519 -352.9418864 252.69069665 214.05584644 -410.16975978]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 6.02633591e-139 1.00000000e+000
1.18317840e-158 1.00000000e+000 5.23945729e-154 1.00000000e+000
1.00000000e+000 7.33730690e-179]

*** 総入力2 ***

-7.0215299263372914

*** 出力1 ***

-7.0215299263372914

出力合計: -7.0215299263372914

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.09091833 0.39369018 -0.55110856 0.13752152 -0.50349274 0.2125169
-0.47161066 0.2276638 0.11923578 -0.68421636]
[0.15106405 0.65413027 -0.9156865 0.2284969 -0.83657113 0.35310441
-0.78359791 0.37827152 0.1981145 -1.13684986]]

*** 偏微分_重み2 ***

[5.31502761e-001 5.31502761e-001 3.20301418e-139 5.31502761e-001
6.28862586e-159 5.31502761e-001 2.78478602e-154 5.31502761e-001
5.31502761e-001 3.89979888e-179]

*** 偏微分_バイアス1 ***

[-0.07611288 -0.32958034 0.46136417 -0.11512705 0.42150228 -0.17790993

0.39481198 -0.19059026 -0.09981902 0.57279625]

*** 偏微分_バイアス2 ***

0.531502761055016

順伝播開始

*** 総入力1 ***

[-228.26800649 -678.61811746 458.96740977 -391.89685864 524.68876147
-578.00547449 514.22856491 -392.68058189 -335.1632942 597.95663444]

*** 中間層出力1 ***

[7.31921303e-100 1.90500566e-295 1.00000000e+000 6.32931653e-171
1.00000000e+000 9.44956719e-252 1.00000000e+000 2.89061422e-171
2.75696209e-146 1.00000000e+000]

*** 総入力2 ***

16.333093785225024

*** 出力1 ***

16.333093785225024

出力合計: 16.333093785225024

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.05435839 -8.56320444 7.32766125 -3.05621162 6.69455086 -4.66842697
6.27063964 -4.99404784 -2.66311358 9.09749204]
[-2.34402061 -9.77060662 8.36085324 -3.48713402 7.638475 -5.32666991
7.15479277 -5.69820296 -3.0386096 10.38022818]]

*** 偏微分_重み2 ***

[3.66318260e-099 9.53433592e-295 5.00488589e+000 3.16775070e-170
5.00488589e+000 4.72940055e-251 5.00488589e+000 1.44671943e-170
1.37982807e-145 5.00488589e+000]

*** 偏微分_バイアス1 ***

[-0.95788465 -3.99276099 3.41666489 -1.42501824 3.12146483 -2.17674507
2.92380796 -2.32857215 -1.24172862 4.241883]

*** 偏微分_バイアス2 ***

5.004885888915981

順伝播開始

*** 総入力1 ***

[432.24593312 1314.2527831 -919.45449775 752.70624399
-1052.39697635 1121.79707543 -1024.08319422 750.69141929
638.75365027 -1195.07772932]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-7.632308291478369

*** 出力1 ***

-7.632308291478369

出力合計: -7.632308291478369

誤差逆伝播開始

*** 偏微分_重み1 ***

[[10.12542878 42.2059349 -52.50136064 15.06331766 -47.45617765
23.00953178 -44.07807846 24.61443722 13.12583381 -66.60493618]
[9.98778162 41.63217875 -51.78764636 14.85854382 -46.81104862
22.69673547 -43.478872 24.2798235 12.94739853 -65.69949499]]

*** 偏微分_重み2 ***

[14.86770131 14.86770131 0. 14.86770131 0. 14.86770131
0. 14.86770131 14.86770131 0.]

*** 偏微分_バイアス1 ***

[-2.23785903 -9.32809211 11.60352281 -3.32920038 10.48846798 -5.085423
9.74186159 -5.44012917 -2.90098981 14.72060698]

*** 偏微分_バイアス2 ***

14.867701314874266

順伝播開始

*** 総入力1 ***

[164.01431334 506.86185876 -365.76967154 286.5260039 -414.8131497
428.00013384 -402.70344038 287.73037133 242.1800596 -470.24617814]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.40685715e-159 1.00000000e+000

7.06216830e-181 1.00000000e+000 1.28267904e-175 1.00000000e+000
1.00000000e+000 5.95222991e-205]

*** 総入力2 ***

-14.91748193576676

*** 出力1 ***

-14.91748193576676

出力合計: -14.91748193576676

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.70935276 -6.3475211 5.95404535 -3.26934614 5.38188402
-4.17050601 4.99878241 -4.35251424 -3.04962104 7.55349587]
[-5.67441945 -13.29413349 12.47004499 -6.84725947 11.27172064
-8.73463241 10.46935955 -9.11582716 -6.38707119 15.81990525]]

*** 偏微分_重み2 ***

[-6.56996208e+000 -6.56996208e+000 -9.24299814e-159 -6.56996208e+000
-4.63981780e-180 -6.56996208e+000 -8.42715266e-175 -6.56996208e+000
-6.56996208e+000 -3.91059248e-204]

*** 偏微分_バイアス1 ***

[2.33325557 5.46639374 -5.12753809 2.8155138 -4.634801 3.5915797
-4.30487941 3.74832256 2.62628971 -6.50496184]

*** 偏微分_バイアス2 ***

-6.569962080664892

順伝播開始

*** 総入力1 ***

[7.3345417 27.97569795 -24.61584066 13.97031789 -25.59222905
18.00680377 -27.23273674 13.10240849 10.10394393 -13.69318861]

*** 中間層出力1 ***

[9.99347823e-01 1.00000000e+00 2.03927705e-11 9.99999143e-01
7.68132507e-12 9.99999985e-01 1.48926748e-12 9.99997960e-01
9.99959084e-01 1.13011661e-06]

*** 総入力2 ***

-11.697247086011831

*** 出力1 ***

-11.697247086011831

出力合計: -11.697247086011831

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 7.66745406 21.47383787 -22.5986212 9.79060691 -20.42697883
    13.21096178 -18.97291396 13.90178832 8.95680422 -28.66934693]
  [-10.89955182 -30.52580515 32.12472365 -13.91768722 29.03765872
    -18.77984026 26.97065509 -19.76187415 -12.73240779 40.75447079]]
```

*** 偏微分_重み2 ***

```
[-1.20657356e+01 -1.20736098e+01 -2.46214353e-10 -1.20735994e+01
 -9.27413214e-11 -1.20736096e+01 -1.79808343e-11 -1.20735851e+01
 -1.20731158e+01 -1.36445869e-05]
```

*** 偏微分_バイアス1 ***

```
[ 3.19707193 8.95387226 -9.4228693 4.08235567 -8.51736705
 5.50852926 -7.91107063 5.79658083 3.73468783 -11.95415891]
```

*** 偏微分_バイアス2 ***

-12.073609760661267

順伝播開始

*** 総入力1 ***

```
[ -339.00844141 -1021.29074593 710.61216271 -584.52919155
 808.76814902 -868.80846926 787.31938481 -589.04489819
 -499.19461244 935.61775122]
```

*** 中間層出力1 ***

```
[5.89528190e-148 0.00000000e+000 1.00000000e+000 1.38738693e-254
 1.00000000e+000 0.00000000e+000 1.00000000e+000 1.51722895e-256
 1.59416922e-217 1.00000000e+000]
```

*** 総入力2 ***

14.84569561610213

*** 出力1 ***

14.84569561610213

出力合計: 14.84569561610213

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.62979979  9.50591048 -7.97406169  2.84059252 -7.2077844
    4.79191502 -6.69470871  5.18603176  2.36492116 -10.11615683]
  [ 0.47028682  2.74297768 -2.3009551  0.81966708 -2.07984198
    1.38273088 -1.93179145  1.49645522  0.68240974 -2.91906729]]
```

*** 偏微分_重み2 ***

```
[-1.56543563e-147  0.00000000e+000 -2.65540421e+000 -3.68407308e-254
 -2.65540421e+000  0.00000000e+000 -2.65540421e+000 -4.02885615e-256
 -4.23316366e-217 -2.65540421e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.33312038  1.94294571 -1.62984587  0.58059847 -1.47322382  0.97943598
 -1.36835452  1.05999085  0.48337436 -2.06767606]
```

*** 偏微分_バイアス2 ***

-2.6554042059844214

順伝播開始

*** 総入力1 ***

```
[ 99.08887944 311.54880796 -227.52921268 175.35502899 -258.97901989
 263.75495445 -250.77488815 175.12695978 147.38268111 -291.81682592]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.53221060e-099 1.00000000e+000
 3.36388186e-113 1.00000000e+000 1.22984358e-109 1.00000000e+000
 1.00000000e+000 1.84315890e-127]
```

*** 総入力2 ***

-5.596841670017922

*** 出力1 ***

-5.596841670017922

出力合計: -5.596841670017922

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.02528084 -0.14745212  0.21189235 -0.04406221  0.19267456 -0.07433039
```

```
0.17980692 -0.08044378 -0.03668377 0.26561487]
[-0.0563033 -0.32839255 0.47190825 -0.09813152 0.42910805 -0.16554218
0.40045035 -0.1791574 -0.08169891 0.59155437]]
```

*** 偏微分_重み2 ***

```
[-3.65095996e-001 -3.65095996e-001 -5.59403957e-100 -3.65095996e-001
-1.22813980e-113 -3.65095996e-001 -4.49010966e-110 -3.65095996e-001
-3.65095996e-001 -6.72929935e-128]
```

*** 偏微分_バイアス1 ***

```
[ 0.03602031 0.21009076 -0.30190565 0.06278013 -0.27452401 0.10590644
-0.2561901 0.11461684 0.05226728 -0.37844984]
```

*** 偏微分_バイアス2 ***

```
-0.365095996412232
```

順伝播開始

*** 総入力1 ***

```
[ 13.7881058 53.09719706 -48.42210795 27.5393619 -55.09464715
45.17943913 -51.05293537 27.07935844 21.72778276 -62.31552146]
```

*** 中間層出力1 ***

```
[9.99998972e-01 1.00000000e+00 9.34427727e-22 1.00000000e+00
1.18222125e-24 1.00000000e+00 6.72964080e-23 1.00000000e+00
1.00000000e+00 8.64396285e-28]
```

*** 総入力2 ***

```
-5.417944142040502
```

*** 出力1 ***

```
-5.417944142040502
```

出力合計: -5.417944142040502

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.14561158 -0.88704991 1.28594163 -0.25959267 1.16931184 -0.44328555
1.09122013 -0.48038676 -0.2148141 1.61197518]
[ 0.00184004 0.01120931 -0.01624995 0.00328037 -0.01477614 0.00560163
-0.01378933 0.00607046 0.00271452 -0.02036991]]
```

*** 偏微分_重み2 ***

```
[-4.35594822e+00 -4.35595270e+00 -4.07032298e-21 -4.35595270e+00  
-5.14969984e-24 -4.35595270e+00 -2.93139970e-22 -4.35595270e+00  
-4.35595270e+00 -3.76526933e-27]
```

*** 偏微分_バイアス1 ***

```
[ 0.40787021  2.48470092 -3.60202997  0.72714077 -3.27534018  1.24167986  
-3.05659876  1.34560347  0.60171224 -4.51527717]
```

*** 偏微分_バイアス2 ***

-4.355952700077266

順伝播開始

*** 総入力1 ***

```
[-62.14216053 -180.41211228 120.55334649 -104.37956641 136.80339506  
-154.21032694 133.15074325 -106.95512154 -90.69462828 166.13024272]
```

*** 中間層出力1 ***

```
[1.02802243e-27 4.44646798e-79 1.00000000e+00 4.66154932e-46  
1.00000000e+00 1.06489296e-67 1.00000000e+00 3.54797789e-47  
4.09094274e-40 1.00000000e+00]
```

*** 総入力2 ***

16.105560496950943

*** 出力1 ***

16.105560496950943

出力合計: 16.105560496950943

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -0.96423291 -14.61209847 14.64032458 -3.06231474 13.31250541  
-6.44360172 12.42343857 -7.12653434 -2.23806278 18.35218585]  
[ 0.55039204 8.3407054 -8.3568171 1.74799432 -7.59888705  
3.6780606 -7.09140042 4.06788413 1.27750456 -10.47557789]]
```

*** 偏微分_重み2 ***

```
[1.32098493e-26 5.71360802e-78 1.28497676e+01 5.98998253e-45  
1.28497676e+01 1.36836270e-66 1.28497676e+01 4.55906912e-46  
5.25676634e-39 1.28497676e+01]
```

*** 偏微分_バイアス1 ***

[-0.55037735 -8.34048276 8.35659402 -1.74794766 7.5986842 -3.67796242
7.09121112 -4.06777554 -1.27747045 10.47529826]

*** 偏微分_バイアス2 ***

12.849767590517892

順伝播開始

*** 総入力1 ***

[125.64543258 392.85434553 -285.68836012 221.47203514 -325.15985733
333.17367131 -314.53604992 221.78849707 186.66836048 -369.78931583]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 8.45515661e-125 1.00000000e+000
6.09351981e-142 1.00000000e+000 2.50454685e-137 1.00000000e+000
1.00000000e+000 2.52662429e-161]

*** 総入力2 ***

-4.18301185357494

*** 出力1 ***

-4.18301185357494

出力合計: -4.18301185357494

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.11297036 1.71196607 -2.01912024 0.35878344 -1.76759488 0.75493794
-1.59918125 0.83495092 0.26221337 -2.72224852]
[0.11568973 1.75317571 -2.06772354 0.3674199 -1.81014359 0.77311045
-1.63767598 0.85504946 0.26852524 -2.7877772]]

*** 偏微分_重み2 ***

[2.52417990e+000 2.52417990e+000 2.13423363e-124 2.52417990e+000
1.53811402e-141 2.52417990e+000 6.32192680e-137 2.52417990e+000
2.52417990e+000 6.37765424e-161]

*** 偏微分_バイアス1 ***

[-0.08502672 -1.28850493 1.51968337 -0.27003703 1.33037375 -0.56820125
1.20361785 -0.62842272 -0.19735392 2.04889028]

*** 偏微分_バイアス2 ***

2.5241798964115185

順伝播開始

*** 総入力1 ***

[-43.07120506 -119.21686471 69.65627635 -71.00362624 79.13742174
-99.60027907 81.32841441 -71.46593277 -61.94464974 85.9714457]

*** 中間層出力1 ***

[1.96976001e-19 1.67792872e-52 1.00000000e+00 1.45719250e-31
1.00000000e+00 5.54815269e-44 1.00000000e+00 9.17782460e-32
1.25250779e-27 1.00000000e+00]

*** 総入力2 ***

11.431449247520876

*** 出力1 ***

11.431449247520876

出力合計: 11.431449247520876

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.4966283 3.95710625 -2.70265554 1.02860642 -2.365981
1.885947 -2.14055408 2.05910766 0.81961361 -3.64381473]
[-1.41528394 -11.27690261 7.70198763 -2.9313073 6.7425375
-5.37454376 6.10011924 -5.86801441 -2.3357227 10.38408911]]

*** 偏微分_重み2 ***

[1.94420558e-18 1.65616033e-51 9.87026632e+00 1.43828781e-30
9.87026632e+00 5.47617446e-43 9.87026632e+00 9.05875730e-31
1.23625854e-26 9.87026632e+00]

*** 偏微分_バイアス1 ***

[-0.85876099 -6.8425591 4.67338483 -1.77864828 4.09121307 -3.26114666
3.70140879 -3.56057304 -1.41726157 6.30082088]

*** 偏微分_バイアス2 ***

9.870266315201516

順伝播開始

*** 総入力1 ***

[20.07036852 72.6558368 -61.94762173 38.48349976 -70.36373067
61.43248143 -65.99232848 38.22691311 31.01414797 -79.63530773]

*** 中間層出力1 ***

[9.99999998e-01 1.00000000e+00 1.24879087e-27 1.00000000e+00
2.76324916e-31 1.00000000e+00 2.18723725e-29 1.00000000e+00
1.00000000e+00 2.59911375e-35]

*** 総入力2 ***

-6.1107786442120915

*** 出力1 ***

-6.1107786442120915

出力合計: -6.1107786442120915

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.12186927 -0.97104749 0.76465007 -0.25241316 0.63107257 -0.46279882
0.54163318 -0.50529129 -0.20112772 1.13806021]
[-0.03870914 -0.30843221 0.24287454 -0.08017357 0.20044654 -0.14699802
0.17203805 -0.16049484 -0.06388386 0.36148019]]

*** 偏微分_重み2 ***

[-4.74676695e+00 -4.74676696e+00 -5.92771924e-27 -4.74676696e+00
-1.31164998e-30 -4.74676696e+00 -1.03823055e-28 -4.74676696e+00
-4.74676696e+00 -1.23373873e-34]

*** 偏微分_バイアス1 ***

[0.3247964 2.58795942 -2.03788523 0.6727117 -1.68188498 1.23341503
-1.44351817 1.34666262 0.53602977 -3.0330686]

*** 偏微分_バイアス2 ***

-4.746766956950568

順伝播開始

*** 総入力1 ***

[9.92112889 37.70709684 -26.38942262 20.6541639 -30.03561946
27.33361639 -33.53289471 17.38951725 15.23332427 -11.19356202]

*** 中間層出力1 ***

[9.99950877e-01 1.00000000e+00 3.46114168e-12 9.99999999e-01
9.03017582e-14 1.00000000e+00 2.73431701e-15 9.99999972e-01
9.99999758e-01 1.37623248e-05]

*** 総入力2 ***

-3.7848267977572894

*** 出力1 ***

-3.7848267977572894

出力合計: -3.7848267977572894

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.03846972 5.96301956 -5.33481431 0.94924805 -4.40287014 2.41706777
-3.77886903 2.71352947 0.5914396 -7.94002404]
[-0.05601001 -8.68186195 7.76722612 -1.38205828 6.41036146 -3.51913129
5.50184665 -3.95076488 -0.86110685 11.56028282]]

*** 偏微分_重み2 ***

[-4.05461091e+00 -4.05481010e+00 -1.40342722e-11 -4.05481010e+00
-3.66156481e-13 -4.05481010e+00 -1.10871362e-14 -4.05480999e+00
-4.05480912e+00 -5.58036136e-05]

*** 偏微分_バイアス1 ***

[0.01255313 1.94580475 -1.74081384 0.30975102 -1.43670929 0.78871818
-1.23309025 0.88545719 0.19299383 -2.590925]

*** 偏微分_バイアス2 ***

-4.054810099984718

順伝播開始

*** 総入力1 ***

[134.27969914 423.7182684 -314.8851788 236.91962888 -357.71607017
361.28961216 -341.77142233 239.73259414 200.11737369 -422.0845825]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.76646247e-137 1.00000000e+000
4.42470821e-156 1.00000000e+000 3.72012222e-149 1.00000000e+000
1.00000000e+000 4.90902136e-184]

*** 総入力2 ***

-1.7980199076253323

*** 出力1 ***

-1.7980199076253323

出力合計: -1.7980199076253323

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.12448048  9.04731937 -9.15934016  0.43917743 -7.55928567
  2.95927641 -6.48793845  3.46827134 -0.17514356 -13.63224436]
 [ 0.43315648 -3.48508055  3.52823162 -0.16917372  2.91188124
 -1.13993065  2.49919199 -1.33599849  0.06746633  5.25122059]]
```

*** 偏微分_重み2 ***

```
[6.05622975e+000 6.05622975e+000 1.06981025e-136 6.05622975e+000
 2.67970495e-155 6.05622975e+000 2.25299149e-148 6.05622975e+000
 6.05622975e+000 2.97301612e-183]
```

*** 偏微分_バイアス1 ***

```
[ 0.31920662 -2.56826532  2.60006469 -0.12466943  2.14585674 -0.8400507
 1.84173307 -0.98453925  0.04971805  3.86978938]
```

*** 偏微分_バイアス2 ***

6.05622975233707

順伝播開始

*** 総入力1 ***

```
[-59.82318404 -179.3000108  124.37804431 -101.27477898  140.03517265
 -153.26769174  133.30435926 -106.02254115  -88.09456432  180.61766812]
```

*** 中間層出力1 ***

```
[1.04501201e-26 1.35205608e-78 1.00000000e+00 1.03973421e-44
 1.00000000e+00 2.73329950e-67 1.00000000e+00 9.01561632e-47
 5.50829040e-39 1.00000000e+00]
```

*** 総入力2 ***

8.169034254776182

*** 出力1 ***

8.169034254776182

出力合計: 8.169034254776182

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.53533211 -8.86441019 4.6387722 -1.81571798 3.82842034 -3.8792762
 3.28583369 -4.29606169 -1.3126873 6.90408643]
 [ 0.48296245 7.997236 -4.18497736 1.63809265 -3.45389939 3.4997802
 -2.96439209 3.87579302 1.1842717 -6.22868384]]
```

*** 偏微分_重み2 ***

```
[4.79746524e-26 6.20705023e-78 4.59082307e+00 4.77323578e-44
 4.59082307e+00 1.25480944e-66 4.59082307e+00 4.13890994e-46
 2.52875866e-38 4.59082307e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.17888029 -2.96202712 1.55003759 -0.60671898 1.27925994 -1.29625334
 1.09795557 -1.43552148 -0.43863216 2.30698837]
```

*** 偏微分_バイアス2 ***

4.590823068498647

順伝播開始

*** 総入力1 ***

```
[-107.71842244 -309.1966648 196.12324522 -182.19828361 224.48936375
 -260.75068783 226.36583259 -180.60628746 -156.44944985 239.96580147]
```

*** 中間層出力1 ***

```
[1.65380208e-047 5.21908844e-135 1.00000000e+000 7.45230833e-080
 1.00000000e+000 5.72025149e-114 1.00000000e+000 3.66172697e-079
 1.13466389e-068 1.00000000e+000]
```

*** 総入力2 ***

6.5622461808016554

*** 出力1 ***

6.5622461808016554

出力合計: 6.5622461808016554

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.12055509 1.99623703 -0.84915237 0.40889392 -0.66666371 0.87360068
 -0.54447492 0.96745945 0.29561301 -1.35929394]
 [-0.36820704 -6.09703438 2.5935353 -1.24886989 2.03616679 -2.66820689
 1.66297 -2.95487632 -0.9028801 4.15164221]]
```

*** 偏微分_重み2 ***

[3. 65426357e-047 1. 15321688e-134 2. 20961361e+000 1. 64667219e-079
2. 20961361e+000 1. 26395455e-113 2. 20961361e+000 8. 09100175e-079
2. 50716877e-068 2. 20961361e+000]

*** 偏微分_バイアス1 ***

[-0. 08609705 -1. 42565621 0. 60644069 -0. 29202051 0. 47611243 -0. 62390098
0. 38884864 -0. 69093227 -0. 21111848 0. 97076942]

*** 偏微分_バイアス2 ***

2. 209613607670402

順伝播開始

*** 総入力1 ***

[-203. 94958473 -611. 82590939 423. 80244068 -350. 51735474 481. 85813033
-520. 787698 468. 810644 -354. 17692262 -300. 0681029 562. 49066136]

*** 中間層出力1 ***

[2. 66575827e-089 1. 93813340e-266 1. 00000000e+000 5. 91898205e-153
1. 00000000e+000 6. 68000081e-227 1. 00000000e+000 1. 52376112e-154
4. 80926509e-131 1. 00000000e+000]

*** 総入力2 ***

5. 788881418117015

*** 出力1 ***

5. 788881418117015

出力合計: 5. 788881418117015

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 63657416 10. 54084809 -3. 98700676 2. 1591067 -3. 0234011 4. 6129252
-2. 37820042 5. 10853319 1. 56094281 -6. 68073738]
[0. 03281645 0. 54339822 -0. 20553682 0. 11130553 -0. 15586135 0. 23780395
-0. 12260018 0. 26335337 0. 08046919 -0. 3444031]]

*** 偏微分_重み2 ***

[-1. 27729908e-088 -9. 28657355e-266 -4. 79150379e+000 -2. 83608249e-152
-4. 79150379e+000 -3. 20072492e-226 -4. 79150379e+000 -7. 30110719e-154
-2. 30436119e-130 -4. 79150379e+000]

*** 偏微分_バイアス1 ***

[0.18669976 3.09150755 -1.16934248 0.63324076 -0.88672821 1.35291705
-0.69749839 1.49827308 0.45780628 -1.95938219]

*** 偏微分_バイアス2 ***

-4.791503786728708

順伝播開始

*** 総入力1 ***

[114.62402473 373.1852816 -284.53567134 204.27868925 -321.39950595
317.07926532 -303.15579897 210.07825772 172.27401723 -392.53139392]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.67749107e-124 1.00000000e+000
2.61799057e-140 1.00000000e+000 2.19335712e-132 1.00000000e+000
1.00000000e+000 3.35568856e-171]

*** 総入力2 ***

-4.906197788531321

*** 出力1 ***

-4.906197788531321

出力合計: -4.906197788531321

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.34057866 5.63954384 -4.38079557 1.15516102 -3.54725252 2.46799818
-2.98913776 2.73315739 0.83513256 -6.71094009]
[-0.24180395 -4.00396191 3.11027613 -0.82014093 2.51847745 -1.75222873
2.12222727 -1.94048639 -0.5929272 4.76463155]]

*** 偏微分_重み2 ***

[2.40266844e+000 2.40266844e+000 6.43312329e-124 2.40266844e+000
6.29016332e-140 2.40266844e+000 5.26990994e-132 2.40266844e+000
2.40266844e+000 8.06260699e-171]

*** 偏微分_バイアス1 ***

[-0.07362675 -1.21916415 0.94704626 -0.24972426 0.76684981 -0.53353516
0.64619581 -0.59085763 -0.18054008 1.45078003]

*** 偏微分_バイアス2 ***

2. 4026684402672576

順伝播開始

*** 総入力1 ***

[23.19010146 68.59446971 -46.99949858 42.12764213 -55.9875685
57.77848465 -59.46217888 36.30562582 33.88483138 -36.78466797]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 3.87594062e-21 1.00000000e+00
4.84069751e-25 1.00000000e+00 1.49935278e-26 1.00000000e+00
1.00000000e+00 1.05833140e-16]

*** 総入力2 ***

-6.08350532423478

*** 出力1 ***

-6.08350532423478

出力合計: -6.08350532423478

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.02709685 8.71327693 -6.35436967 2.20865336 -5.14531059
4.11293135 -4.33576185 4.49754634 1.74445019 -9.73425795]
[-1.6172682 -13.71993852 10.00559971 -3.47774879 8.10181353
-6.47622768 6.82709692 -7.081843 -2.7468138 15.32757672]]

*** 偏微分_重み2 ***

[-5.65841881e+00 -5.65841882e+00 -2.19316953e-20 -5.65841882e+00
-2.73906939e-24 -5.65841882e+00 -8.48396597e-26 -5.65841882e+00
-5.65841882e+00 -5.98848233e-16]

*** 偏微分_バイアス1 ***

[0.36050506 3.05830983 -2.23034702 0.77522456 -1.80597427 1.44361513
-1.52182734 1.57861276 0.61229193 -3.41666827]

*** 偏微分_バイアス2 ***

-5.658418815440617

順伝播開始

*** 総入力1 ***

```
[ -43.21842906 -128.28524885  84.89561178 -72.27938425  94.75706715  
-108.07432254  90.92900069 -76.58401107 -63.27692467 123.5550145 ]
```

*** 中間層出力1 ***

```
[1.70010107e-19 1.93385682e-56 1.00000000e+00 4.06876179e-32  
1.00000000e+00 1.15855882e-47 1.00000000e+00 5.49523909e-34  
3.30507094e-28 1.00000000e+00]
```

*** 総入力2 ***

7.693810269734198

*** 出力1 ***

7.693810269734198

出力合計: 7.693810269734198

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.18060365 -5.89846677  3.10841377 -0.75390024  2.51696945 -2.2600112  
    2.12095653 -2.56420673 -0.3867577  4.7617786 ]  
[-0.15664944  5.11612886 -2.69613207  0.65390735 -2.18313344  1.96025662  
-1.83964535  2.22410544  0.33546043 -4.13020432]]
```

*** 偏微分_重み2 ***

```
[9.01038844e-19 1.02492737e-55 5.29991339e+00 2.15640851e-31  
5.29991339e+00 6.14026139e-47 5.29991339e+00 2.91242912e-33  
1.75165897e-27 5.29991339e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0.0954561 -3.11757062  1.64291838 -0.3984658  1.3303169 -1.1945044  
1.12100857 -1.35528365 -0.20441658  2.51678642]
```

*** 偏微分_バイアス2 ***

5.299913388304959

順伝播開始

*** 総入力1 ***

```
[ 144.53453194 458.15743878 -337.36829456 255.2235614 -382.13687544  
387.78107847 -366.4303373 258.85600391 215.43232107 -448.13437893]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 3.03956408e-147 1.00000000e+000
```

1. 09663894e-166 1. 00000000e+000 7. 26652062e-160 1. 00000000e+000
1. 00000000e+000 2. 38622878e-195]

*** 総入力2 ***

-3. 681874041911332

*** 出力1 ***

-3. 681874041911332

出力合計: -3. 681874041911332

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 19091046 6. 23508452 -4. 06247847 0. 79692434 -3. 05165027 2. 38898707
-2. 37483083 2. 71054264 0. 40882945 -6. 88821829]
[0. 02725767 -0. 89022833 0. 58002958 -0. 11378268 0. 43570629 -0. 34109305
0. 33907186 -0. 38700387 -0. 05837155 0. 98348099]]

*** 偏微分_重み2 ***

[4. 48158645e+000 4. 48158645e+000 1. 36220692e-146 4. 48158645e+000
4. 91468222e-166 4. 48158645e+000 3. 25655403e-159 4. 48158645e+000
4. 48158645e+000 1. 06940906e-194]

*** 偏微分_バイアス1 ***

[0. 06347995 -2. 07323805 1. 35082129 -0. 2649866 1. 01470917 -0. 79436596
0. 78965884 -0. 90128692 -0. 13594054 2. 29041262]

*** 偏微分_バイアス2 ***

4. 481586445960721

順伝播開始

*** 総入力1 ***

[283. 40564326 868. 74214285 -614. 34649166 494. 84790106 -700. 32060314
736. 68368598 -682. 83724515 494. 43215618 419. 03556883 -788. 67093323]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 1. 55850678e-267 1. 00000000e+000
7. 15527769e-305 1. 00000000e+000 2. 80254369e-297 1. 00000000e+000
1. 00000000e+000 0. 00000000e+000]

*** 総入力2 ***

-5. 877851400432085

*** 出力1 ***

-5.877851400432085

出力合計: -5.877851400432085

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.70681236  7.79918228 -4.48375701  1.79708552 -3.36810605
   3.55424497 -2.62110051  3.90914581  1.36874523 -7.60252573]
 [ 1.84422972 20.34979078 -11.6991133  4.68899341 -8.78813329
   9.27381088 -6.83903069 10.19982563  3.5713589 -19.83667038]]
```

*** 偏微分_重み2 ***

```
[8.50187640e+000 8.50187640e+000 1.32502320e-266 8.50187640e+000
 6.08332865e-304 8.50187640e+000 2.38268801e-296 8.50187640e+000
 8.50187640e+000 0.00000000e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.40396429 -4.45746465  2.5626005 -1.02708783  1.92497279 -2.03135672
 1.4980369 -2.2341931 -0.78227861  4.34506959]
```

*** 偏微分_バイアス2 ***

8.501876402062564

順伝播開始

*** 総入力1 ***

```
[-400.23876683 -1213.75284797  839.99591162 -691.50305889
 953.81456442 -1026.5828765  930.00170762 -698.28265538
 -589.75098901 1099.16051355]
```

*** 中間層出力1 ***

```
[1.50838470e-174 0.00000000e+000 1.00000000e+000 4.83100296e-301
 1.00000000e+000 0.00000000e+000 1.00000000e+000 5.49156286e-304
 7.48858519e-257 1.00000000e+000]
```

*** 総入力2 ***

4.929998184465832

*** 出力1 ***

4.929998184465832

出力合計: 4.929998184465832

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 14.04704356  54.75407124 -15.91694855  20.30472329 -11.95648437
    30.39003176  -9.30467949  32.42700368  17.84624184 -26.98830703]
 [ 11.23853331  43.80675913 -12.7345769  16.24507735  -9.56595225
    24.31396919  -7.44433873  25.94367701  14.27813494 -21.59237183]]
```

*** 偏微分_重み2 ***

```
[-2.30512648e-173  0.00000000e+000 -1.52820860e+001 -7.38278026e-300
 -1.52820860e+001  0.00000000e+000 -1.52820860e+001 -8.39225359e-303
 -1.14441203e-255 -1.52820860e+001]
```

*** 偏微分_バイアス1 ***

```
[ 3.19700812  12.46164076 -3.62258532  4.62121193 -2.72121159  6.91655707
 -2.11767948  7.38015752  4.06167888 -6.14234849]
```

*** 偏微分_バイアス2 ***

-15.282085984266216

順伝播開始

*** 総入力1 ***

```
[ -59.23526519 -174.04458007  113.53422415  -99.25765033  127.7216904
 -146.51924313  124.16344705 -103.14361943  -86.28999228  157.36973612]
```

*** 中間層出力1 ***

```
[1.88127027e-26  2.59059348e-76  1.00000000e+00  7.81538138e-44
 1.00000000e+00  2.33077965e-64  1.00000000e+00  1.60433567e-45
 3.34759189e-38  1.00000000e+00]
```

*** 総入力2 ***

10.278728278959008

*** 出力1 ***

10.278728278959008

出力合計: 10.278728278959008

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.35043654  -9.16178336  5.02639798 -3.39750948  4.36370909 -5.08504447
```

```
3. 91999301 -5. 42588297 -2. 98614145 6. 87892485]
[ 1. 24479767 4. 85210573 -2. 66199423 1. 79933039 -2. 31103237 2. 69305357
-2. 07603911 2. 87356258 1. 58146874 -3. 64309757]]
```

*** 偏微分_重み2 ***

```
[1. 37067037e-25 1. 88747452e-75 7. 28587691e+00 5. 69419067e-43
7. 28587691e+00 1. 69817737e-63 7. 28587691e+00 1. 16889922e-44
2. 43901425e-37 7. 28587691e+00]
```

*** 偏微分_バイアス1 ***

```
[-1. 52420342 -5. 94120337 3. 25950216 -2. 20320586 2. 82976383 -3. 29753304
2. 54202427 -3. 51855888 -1. 93644326 4. 46082273]
```

*** 偏微分_バイアス2 ***

7. 285876911629192

順伝播開始

*** 総入力1 ***

```
[-37. 00336402 -89. 10618967 36. 92616021 -58. 35773777 44. 35432136
-74. 09241224 52. 62136672 -55. 02534632 -51. 22496743 27. 53358101]
```

*** 中間層出力1 ***

```
[8. 50439051e-17 2. 00296574e-39 1. 00000000e+00 4. 52435330e-26
1. 00000000e+00 6. 63856500e-33 1. 00000000e+00 1. 26705576e-24
5. 66603572e-23 1. 00000000e+00]
```

*** 総入力2 ***

7. 72867135988592

*** 出力1 ***

7. 72867135988592

出力合計: 7. 72867135988592

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 4. 31828334 16. 83226742 -7. 1647752 6. 24199305 -5. 94726588
9. 34237637 -5. 13205913 9. 96857375 5. 48621697 -10. 56828589]
[ -6. 82002396 -26. 58382 11. 31559341 -9. 85820957 9. 39273609
-14. 75475916 8. 10525003 -15. 74373575 -8. 66458457 16. 69088322]]
```

*** 偏微分_重み2 ***

[6. 19007548e-16 1. 45789509e-38 7. 27868208e+00 3. 29313293e-25
7. 27868208e+00 4. 83200041e-32 7. 27868208e+00 9. 22249605e-24
4. 12412727e-22 7. 27868208e+00]

*** 偏微分_バイアス1 ***

[-1. 52269826 -5. 93533641 2. 52641846 -2. 20103018 2. 0971045 -3. 29427672
1. 80964909 -3. 51508429 -1. 93453101 3. 72655273]

*** 偏微分_バイアス2 ***

7. 278682082758055

順伝播開始

*** 総入力1 ***

[-195. 21832009 -586. 51757605 393. 99989992 -334. 33422845 446. 70871328
-493. 26417542 437. 16290309 -339. 51395512 -286. 1430733 515. 25504297]

*** 中間層出力1 ***

[1. 65105226e-085 1. 89956073e-255 1. 00000000e+000 6. 31668867e-146
1. 00000000e+000 5. 99916071e-215 1. 00000000e+000 3. 55600828e-148
5. 36589577e-125 1. 00000000e+000]

*** 総入力2 ***

5. 181132630924032

*** 出力1 ***

5. 181132630924032

出力合計: 5. 181132630924032

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1. 53741897 5. 99271637 -1. 81464946 2. 22230868 -1. 3811851 3. 32612419
-1. 0909507 3. 54906642 1. 95323312 -3. 02638604]
[1. 90025089 7. 40700148 -2. 24290795 2. 74677503 -1. 70714571 4. 11109175
-1. 34841581 4. 3866485 2. 41419746 -3. 74061519]]

*** 偏微分_重み2 ***

[-7. 03285359e-085 -8. 09140502e-255 -4. 25961902e+000 -2. 69066872e-145
-4. 25961902e+000 -2. 55541391e-214 -4. 25961902e+000 -1. 51472405e-147
-2. 28566717e-124 -4. 25961902e+000]

*** 偏微分_バイアス1 ***

```
[ 0.89111111  3.47346835 -1.05179806  1.28808346 -0.80055561  1.9278715  
-0.6323314   2.05709217  1.13212323 -1.75413877]
```

```
*** 偏微分_バイアス2 ***  
-4.259619020892244
```

```
##### 順伝播開始 #####
```

```
*** 総入力1 ***  
[-225.30997501 -691.44185772  474.70400318 -387.2190811  534.75989118  
-579.22424694  516.45374204 -399.47496814 -331.40336592  640.05985129]
```

```
*** 中間層出力1 ***  
[1.40968194e-098 5.13590091e-301 1.00000000e+000 6.80596627e-169  
1.00000000e+000 2.79322404e-252 1.00000000e+000 3.23761855e-174  
1.18398690e-144 1.00000000e+000]
```

```
*** 総入力2 ***  
6.671999288236318
```

```
*** 出力1 ***  
6.671999288236318
```

```
出力合計: 6.671999288236318
```

```
##### 誤差逆伝播開始 #####
```

```
*** 偏微分_重み1 ***  
[[ 4.84112533 18.87025693 -7.07072454  6.99775079 -5.70580363  
10.47351721 -4.79189462 11.17553229  6.1504681 -10.88631988]  
[ -1.08689242 -4.23660572  1.58746498 -1.57108147  1.28102338  
-2.35143396  1.07583952 -2.50904501 -1.38085605  2.44411326]]
```

```
*** 偏微分_重み2 ***  
[-7.10513900e-098 -2.58861867e-300 -5.04024264e+000 -3.43037214e-168  
-5.04024264e+000 -1.40785269e-251 -5.04024264e+000 -1.63183831e-173  
-5.96758125e-144 -5.04024264e+000]
```

```
*** 偏微分_バイアス1 ***  
[ 1.05441735  4.11002092 -1.54003339  1.5241394 -1.24274791  2.28117587  
-1.0436947   2.43407769  1.33959769 -2.37108602]
```

```
*** 偏微分_バイアス2 ***  
-5.040242637700697
```

順伝播開始

*** 総入力1 ***

[314.52872678 977.92127005 -683.32039189 548.14600076 -773.60616424
819.20969554 -750.65949996 556.74640776 464.50048386 -888.82771949]

*** 中間層出力1 ***

[1.0000000e+000 1.0000000e+000 1.7287191e-297 1.0000000e+000
0.0000000e+000 1.0000000e+000 0.0000000e+000 1.0000000e+000
1.0000000e+000 0.0000000e+000]

*** 総入力2 ***

-9.34255363204971

*** 出力1 ***

-9.34255363204971

出力合計: -9.34255363204971

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.01612921 11.75659154 -8.73941792 4.35975504 -7.36451709
6.52523515 -6.44392583 6.96260622 3.831879 -12.58291182]
[4.0397042 15.7463918 -11.70528874 5.83931242 -9.86379182
8.73968521 -8.63078219 9.32548563 5.13229263 -16.85313798]]

*** 偏微分_重み2 ***

[6.55037948e+000 6.55037948e+000 1.13237661e-296 6.55037948e+000
0.00000000e+000 6.55037948e+000 0.00000000e+000 6.55037948e+000
6.55037948e+000 0.00000000e+000]

*** 偏微分_バイアス1 ***

[-1.07769887 -4.2007701 3.12269805 -1.55779237 2.63142962 -2.33154419
2.3024914 -2.48782208 -1.36917598 4.49602417]

*** 偏微分_バイアス2 ***

6.550379481428427

順伝播開始

*** 総入力1 ***

[-222.68116116 -669.1464971 447.56982964 -381.08014094 506.9208453
-560.8631201 497.06284253 -387.04654054 -325.91578251 580.65736917]

*** 中間層出力1 ***

[1.95344183e-097 2.47382359e-291 1.00000000e+000 3.15498738e-166
1.00000000e+000 2.63173308e-244 1.00000000e+000 8.08766591e-169
2.86137048e-142 1.00000000e+000]

*** 総入力2 ***

7.9775576477315715

*** 出力1 ***

7.9775576477315715

出力合計: 7.9775576477315715

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.02472435 2.94310026 -1.18637379 1.3196263 -0.99973135 1.79491064
-0.87476132 1.89090581 1.20376691 -1.70812713]
[2.74329708 7.87899533 -3.17605 3.53278127 -2.67638814 4.80516847
-2.34182995 5.06215784 3.22261323 -4.57283968]]

*** 偏微分_重み2 ***

[-4.91997729e-097 -6.23062110e-291 -2.51861981e+000 -7.94621372e-166
-2.51861981e+000 -6.62833508e-244 -2.51861981e+000 -2.03697556e-168
-7.20670439e-142 -2.51861981e+000]

*** 偏微分_バイアス1 ***

[0.81560808 2.34249959 -0.94426961 1.05032918 -0.79571543 1.42862189
-0.69624812 1.50502725 0.9581133 -1.35954835]

*** 偏微分_バイアス2 ***

-2.5186198131544204

順伝播開始

*** 総入力1 ***

[-198.11298304 -607.38208394 413.34888273 -339.3166113 464.62811226
-506.66002129 448.957862 -351.53879662 -290.70732477 557.33331256]

*** 中間層出力1 ***

[9.13323582e-087 1.64934891e-264 1.00000000e+000 4.33179697e-148
1.00000000e+000 9.12743086e-221 1.00000000e+000 2.13127972e-153
5.59001540e-127 1.00000000e+000]

*** 総入力2 ***
8. 85907458233562

*** 出力1 ***
8. 85907458233562

出力合計: 8. 85907458233562

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1. 56197953 4. 48614535 -1. 97557697 2. 01149634 -1. 69107931 2. 73596865
-1. 50058844 2. 88229335 1. 83489275 -2. 77088161]
[-0. 29837353 -0. 85695556 0. 37738003 -0. 38424145 0. 32303452 -0. 5226321
0. 28664644 -0. 55058343 -0. 35050615 0. 52930126]]

*** 偏微分_重み2 ***

[-1. 14094612e-086 -2. 06040694e-264 -1. 24922442e+000 -5. 41138656e-148
-1. 24922442e+000 -1. 14022095e-220 -1. 24922442e+000 -2. 66244668e-153
-6. 98318375e-127 -1. 24922442e+000]

*** 偏微分_バイアス1 ***

[0. 40453805 1. 16186956 -0. 5116559 0. 52095868 -0. 43797368 0. 70859021
-0. 38863833 0. 74648694 0. 47522001 -0. 71763234]

*** 偏微分_バイアス2 ***

-1. 2492244222787043

順伝播開始

*** 総入力1 ***

[262. 23184701 821. 98184685 -577. 94804919 457. 06930585 -651. 85853445
685. 71722905 -629. 92326993 467. 63728555 387. 23121519 -757. 72691848]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 1. 00080948e-251 1. 00000000e+000
7. 96958131e-284 1. 00000000e+000 2. 67793386e-274 1. 00000000e+000
1. 00000000e+000 0. 00000000e+000]

*** 総入力2 ***

-12. 288490481469319

*** 出力1 ***

-12.288490481469319

出力合計: -12.288490481469319

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.86806601  2.49316347 -1.84965082  1.1178838 -1.59401814  1.52050737
    -1.42285437  1.60182694  1.01973681 -2.5642643 ]
  [ 0.60274171  1.73112828 -1.28430522  0.77620272 -1.10680664  1.05576443
    -0.98795906  1.11222868  0.70805435 -1.78049715]]
```

*** 偏微分_重み2 ***

```
[1.11596534e+000 1.11596534e+000 1.11686869e-251 1.11596534e+000
 8.89377651e-284 1.11596534e+000 2.98848137e-274 1.11596534e+000
 1.11596534e+000 0.00000000e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.28421008 -0.81627685  0.6055869 -0.36600194  0.52189121 -0.49782334
 0.46585115 -0.52444786 -0.33386802  0.83955569]
```

*** 偏微分_バイアス2 ***

1.1159653397596703

順伝播開始

*** 総入力1 ***

```
[ 271.48171754  855.04165655 -603.62632828  473.20753927 -679.50848697
 712.35994581 -654.42511799  486.58993895  401.08837167 -798.47829541]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 7.05369209e-263 1.00000000e+000
 7.82012516e-296 1.00000000e+000 6.12043708e-285 1.00000000e+000
 1.00000000e+000 0.00000000e+000]
```

*** 総入力2 ***

-12.835313497951557

*** 出力1 ***

-12.835313497951557

出力合計: -12.835313497951557

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.42790768  3.94903651 -2.86949438  1.81546771 -2.47291328  2.44008619
 -2.20737479  2.566243    1.66320534 -3.9781249 ]
 [ 0.32541178  0.89996224 -0.65394093  0.41373443 -0.56356242  0.55608132
 -0.50304776  0.58483172  0.37903473 -0.90659131]]
```

*** 偏微分_重み2 ***

```
[1.29337615e+000 1.29337615e+000 9.12307713e-263 1.29337615e+000
 1.01143634e-295 1.29337615e+000 7.91602736e-285 1.29337615e+000
 1.29337615e+000 0.00000000e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.3492572 -0.96590939  0.7018602 -0.44405194  0.60485897 -0.59682967
 0.53990993 -0.62768683 -0.40680952  0.97302423]
```

*** 偏微分_バイアス2 ***

1.2933761521083706

順伝播開始

*** 総入力1 ***

```
[ 53.3784966  188.24943868 -147.74173704  96.62044558 -163.53154608
 154.52430743 -150.71786637  104.28038001  80.72072407 -209.34615643]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 6.86402500e-65 1.00000000e+00
 9.53129518e-72 1.00000000e+00 3.49995378e-66 1.00000000e+00
 1.00000000e+00 1.20814610e-91]
```

*** 総入力2 ***

-13.469067812484658

*** 出力1 ***

-13.469067812484658

出力合計: -13.469067812484658

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -8.31438596 -22.08650555  15.67512903 -10.43150231  13.5087335
 -13.8435931  12.05818175 -14.53274734 -9.59974173  21.73122259]
 [  7.33186135  19.476507  -13.82277335  9.19879459 -11.91238433
 12.20767302 -10.63324665  12.81538878  8.46532452 -19.16320841]]
```

*** 偏微分_重み2 ***

[-9.83954658e+00 -9.83954658e+00 -6.75388937e-64 -9.83954658e+00
-9.37836229e-71 -9.83954658e+00 -3.44379583e-65 -9.83954658e+00
-9.83954658e+00 -1.18876098e-90]

*** 偏微分_バイアス1 ***

[2.83217387 7.5234448 -5.33950324 3.55333856 -4.60155232 4.71561734
-4.1074431 4.95036764 3.27001149 -7.40242286]

*** 偏微分_バイアス2 ***

-9.839546578569704

順伝播開始

*** 総入力1 ***

[-92.42157929 -289.12776099 197.40004221 -158.50200478 220.92547499
-241.44583836 209.71403503 -168.31699768 -136.6895895 283.13084439]

*** 中間層出力1 ***

[7.27475053e-041 2.71274415e-126 1.00000000e+000 1.45698121e-069
1.00000000e+000 1.38485634e-105 1.00000000e+000 7.95896687e-074
4.32977716e-060 1.00000000e+000]

*** 総入力2 ***

9.816417486202281

*** 出力1 ***

9.816417486202281

出力合計: 9.816417486202281

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3.46640688 -14.30979781 7.63335015 -5.13330499 6.57837602
-7.81979302 5.87199782 -8.36239424 -4.47842359 10.58249862]
[2.88665514 11.91650399 -6.35668294 4.27476686 -5.47815176
6.51194349 -4.88991433 6.96379541 3.72941346 -8.81259041]]

*** 偏微分_重み2 ***

[3.22833952e-040 1.20384323e-125 4.43773227e+000 6.46569255e-069
4.43773227e+000 6.14562166e-105 4.43773227e+000 3.53197641e-073
1.92143918e-059 4.43773227e+000]

*** 偏微分_バイアス1 ***

[-0.86004482 -3.55038168 1.89389864 -1.27361632 1.63215064 -1.94015669
1.45689225 -2.07478063 -1.11113471 2.62560728]

*** 偏微分_バイアス2 ***

4.437732272726288

順伝播開始

*** 総入力1 ***

[-298.82087493 -912.21994887 620.27481588 -513.2731377 699.9634308
-762.87892121 680.11090537 -526.28298024 -438.60476433 820.62811881]

*** 中間層出力1 ***

[1.67395177e-130 0.00000000e+000 1.00000000e+000 1.22548666e-223
1.00000000e+000 0.00000000e+000 1.00000000e+000 2.74287341e-229
3.28375778e-191 1.00000000e+000]

*** 総入力2 ***

8.26321119074808

*** 出力1 ***

8.26321119074808

出力合計: 8.26321119074808

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.94059427 20.39544332 -9.32264923 7.31638786 -7.81901756
11.14538076 -6.81223209 11.91873847 6.38299965 -13.52600634]
[2.04128023 8.42668168 -3.85179161 3.0228748 -3.23054376
4.60488034 -2.81457532 4.92440461 2.63723153 -5.58847131]]

*** 偏微分_重み2 ***

[-1.10049036e-129 0.00000000e+000 -6.57420591e+000 -8.05660163e-223
-6.57420591e+000 0.00000000e+000 -6.57420591e+000 -1.80322145e-228
-2.15880998e-190 -6.57420591e+000]

*** 偏微分_バイアス1 ***

[1.27409933 5.25965488 -2.40416042 1.88677807 -2.01639814 2.87421339
-1.75676445 3.07364984 1.64607235 -3.48813822]

*** 偏微分_バイアス2 ***

-6.5742059064911444

順伝播開始

*** 総入力1 ***

[181.34909535 564.68209176 -394.47463165 315.5761827 -445.25550194
469.67485311 -433.2016931 320.71308234 266.82812767 -504.59517116]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 4.80666907e-172 1.00000000e+000
4.24612201e-194 1.00000000e+000 7.29281400e-189 1.00000000e+000
1.00000000e+000 7.19617256e-220]

*** 総入力2 ***

-8.498136834621961

*** 出力1 ***

-8.498136834621961

出力合計: -8.498136834621961

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.01333022 0.05502896 -0.05073057 0.01974035 -0.04417123 0.03007136
-0.03977793 0.03215796 0.01722198 -0.06906699]
[0.11924226 0.49224822 -0.453798 0.17658253 -0.39512305 0.26899606
-0.35583611 0.2876612 0.15405501 -0.61782206]]

*** 偏微分_重み2 ***

[2.09816928e-001 2.09816928e-001 1.00852054e-172 2.09816928e-001
8.90908276e-195 2.09816928e-001 1.53015583e-189 2.09816928e-001
2.09816928e-001 1.50987882e-220]

*** 偏微分_バイアス1 ***

[-0.0319794 -0.13201532 0.12170341 -0.04735741 0.10596747 -0.07214165
0.09543116 -0.07714743 -0.04131578 0.16569278]

*** 偏微分_バイアス2 ***

0.2098169278900972

順伝播開始

*** 総入力1 ***

```
[ -403.07792158 -1235.86065212 841.27083802 -692.8956488
 948.18237234 -1030.59753601 920.71990415 -711.92309875
-591.54379639 1110.98936064]
```

*** 中間層出力1 ***

```
[8.82029031e-176 0.00000000e+000 1.00000000e+000 1.20017117e-301
 1.00000000e+000 0.00000000e+000 1.00000000e+000 0.00000000e+000
 1.24679033e-257 1.00000000e+000]
```

*** 総入力2 ***

10.549496073067674

*** 出力1 ***

10.549496073067674

出力合計: 10.549496073067674

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 9.16590443 37.30497277 -21.17367555 13.49157712 -18.43597206
    20.4631297 -16.60289008 21.87120333 11.79213155 -28.82684334]
 [ 4.65600324 18.94980201 -10.75558913 6.85331462 -9.36491825
    10.39465325 -8.43376785 11.10991222 5.99004748 -14.64316774]]
```

*** 偏微分_重み2 ***

```
[-8.25728170e-175 0.00000000e+000 -9.36168926e+000 -1.12356296e-300
 -9.36168926e+000 0.00000000e+000 -9.36168926e+000 0.00000000e+000
 -1.16720636e-256 -9.36168926e+000]
```

*** 偏微分_バイアス1 ***

```
[ 1.84869555 7.52413881 -4.27057473 2.72115194 -3.71840006 4.12726285
 -3.3486809 4.41126095 2.37838626 -5.81416242]
```

*** 偏微分_バイアス2 ***

-9.361689258671644

順伝播開始

*** 総入力1 ***

```
[ 20.64835357 86.98712546 -76.91209354 41.35558719 -85.48683575
 71.93002674 -76.06419367 45.59795881 33.40360808 -113.83565485]
```

*** 中間層出力1 ***

```
[9.99999999e-01 1.00000000e+00 3.95824057e-34 1.00000000e+00
7.47375676e-38 1.00000000e+00 9.24145643e-34 1.00000000e+00
1.00000000e+00 3.64588741e-50]
```

*** 総入力2 ***

-7.945628880329746

*** 出力1 ***

-7.945628880329746

出力合計: -7.945628880329746

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -2.12409076 -8.64498954 10.17401018 -3.12651463 9.14825333
  -4.74209011 8.46143812 -5.06839464 -2.73268807 13.0414826 ]
 [ 2.24370607 9.1318205 -10.74694587 3.30258009 -9.66342491
  5.00913453 -8.93793263 5.35381447 2.88657572 -13.77589615]]
```

*** 偏微分_重み2 ***

```
[-5.88242833e+00 -5.88242834e+00 -2.32840665e-33 -5.88242834e+00
 -4.39638385e-37 -5.88242834e+00 -5.43622052e-33 -5.88242834e+00
 -5.88242834e+00 -2.14466714e-49]
```

*** 偏微分_バイアス1 ***

```
[ 0.91356128 3.71816867 -4.37579314 1.34469899 -3.93462002 2.03955028
 -3.63922408 2.1798923 1.17531607 -5.60907932]
```

*** 偏微分_バイアス2 ***

-5.88242833641254

順伝播開始

*** 総入力1 ***

```
[-167.95569407 -517.53702564 348.78948645 -287.71100922 391.99865752
 -430.69733883 378.0743192 -299.70094793 -246.70340519 474.21866532]
```

*** 中間層出力1 ***

```
[1.14227024e-073 1.72395364e-225 1.00000000e+000 1.11865537e-125
 1.00000000e+000 8.92323594e-188 1.00000000e+000 6.94275903e-131
 7.21227798e-108 1.00000000e+000]
```

*** 総入力2 ***

14. 237857297151628

*** 出力1 ***

14. 237857297151628

出力合計: 14. 237857297151628

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.9572877 -14.50952229 12.1128262 -3.88687746 10.89159542
  -6.99673748 10.07389688 -7.62484891 -3.12879126 15.52674013]
 [ 0.65503871 4.85585165 -4.05375766 1.30080784 -3.64505258
  2.34157394 -3.37139623 2.55178182 1.04710175 -5.19628043]]
```

*** 偏微分_重み2 ***

```
[6.35380890e-073 9.58938753e-225 5.56243932e+000 6.22245260e-125
 5.56243932e+000 4.96349585e-187 5.56243932e+000 3.86186758e-130
 4.01178586e-107 5.56243932e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.52582892 -3.89800972 3.25413293 -1.04421674 2.92604704 -1.87968633
 2.70637083 -2.04842961 -0.8405555 4.17128715]
```

*** 偏微分_バイアス2 ***

5.562439318953972

順伝播開始

*** 総入力1 ***

```
[-222.84039791 -674.95206367 450.97934574 -379.89442431 507.46095637
 -560.64316618 495.36953684 -390.91465951 -325.23859163 590.7204313 ]
```

*** 中間層出力1 ***

```
[1.66588433e-097 7.44806053e-294 1.00000000e+000 1.03263731e-165
 1.00000000e+000 3.27919022e-244 1.00000000e+000 1.69013143e-170
 5.63215184e-142 1.00000000e+000]
```

*** 総入力2 ***

12.291003535517737

*** 出力1 ***

12.291003535517737

出力合計: 12.291003535517737

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.32124854 -2.3814398  1.72791461 -0.63795103  1.52747468 -1.14837062
  1.39326628 -1.2514622  -0.51352676  2.2882384 ]
 [-0.42633889 -3.16048253  2.29316901 -0.84664457  2.02715897 -1.52403823
  1.84904684 -1.66085425 -0.68151728  3.03679207]]
```

*** 偏微分_重み2 ***

```
[3.06233425e-097 1.36914974e-293 1.83826344e+000 1.89825942e-165
 1.83826344e+000 6.02801549e-244 1.83826344e+000 3.10690682e-170
 1.03533788e-141 1.83826344e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.17377485 -1.28820619  0.93469098 -0.34509059  0.82626583 -0.62119485
 0.75366769 -0.67696078 -0.27778504  1.23779021]
```

*** 偏微分_バイアス2 ***

1.8382634389880383

順伝播開始

*** 総入力1 ***

```
[ 171.9027621  539.34570494 -378.49900727  299.26953406 -425.93513566
 446.81137357 -413.19367227  306.12240928  253.00203138 -487.0272416 ]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 4.16840334e-165 1.00000000e+000
 1.04404912e-185 1.00000000e+000 3.56671309e-180 1.00000000e+000
 1.00000000e+000 3.06730128e-212]
```

*** 総入力2 ***

-5.581288189838691

*** 出力1 ***

-5.581288189838691

出力合計: -5.581288189838691

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.15540371  1.15201948 -1.28421394  0.30860827 -1.1274433  0.55552331
```



```
-1.02247451 0.60539377 0.24841814 -1.72246154]
[ 0.61773175 4.57929233 -5.10476702 1.22672186 -4.48160171 2.20821235
-4.0643494 2.40644808 0.9874653 -6.8468069 ]]
```

*** 偏微分_重み2 ***

```
[2.74801358e+000 2.74801358e+000 1.14548290e-164 2.74801358e+000
2.86906117e-185 2.74801358e+000 9.80137600e-180 2.74801358e+000
2.74801358e+000 8.42898557e-212]
```

*** 偏微分_バイアス1 ***

```
[-0.20429979 -1.51448986 1.68827787 -0.4057085 1.48218106 -0.73031267
1.34418498 -0.79587433 -0.3265802 2.2644153 ]
```

*** 偏微分_バイアス2 ***

2.7480135796164014

順伝播開始

*** 総入力1 ***

```
[-302.67450321 -917.83610265 615.97614317 -516.5881062 692.82177949
-761.36797841 677.2758708 -530.52995518 -441.61517758 799.89831284]
```

*** 中間層出力1 ***

```
[3.54922428e-132 0.00000000e+000 1.00000000e+000 4.45282946e-225
1.00000000e+000 0.00000000e+000 1.00000000e+000 3.92435224e-231
1.61795059e-192 1.00000000e+000]
```

*** 総入力2 ***

11.455250381298777

*** 出力1 ***

11.455250381298777

出力合計: 11.455250381298777

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.59468196 3.12248284 -2.0146157 0.98326765 -1.76868114 1.60953916
-1.60401094 1.73602983 0.83060232 -2.70211836]
[ 1.61632078 8.48677818 -5.47564148 2.67248048 -4.80720161 4.37466032
-4.35963485 4.71845671 2.25754249 -7.34424504]]
```

*** 偏微分_重み2 ***

```
[-8.93479200e-132  0.00000000e+000 -2.51739290e+000 -1.12095213e-224  
-2.51739290e+000  0.00000000e+000 -2.51739290e+000 -9.87913645e-231  
-4.07301732e-192 -2.51739290e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.35903639  1.8851841 -1.2163146  0.59364314 -1.06783279  0.97175158  
-0.96841394  1.04811972  0.50147218 -1.63139105]
```

*** 偏微分_バイアス2 ***

-2.517392899190922

順伝播開始

*** 総入力1 ***

```
[-220.295047 -677.17132131 457.8088641 -377.89740405 515.5996543  
-565.06713287 497.82077993 -391.47166443 -323.5505984 618.46134512]
```

*** 中間層出力1 ***

```
[2.12361947e-096 8.09527956e-295 1.00000000e+000 7.60751290e-165  
1.00000000e+000 3.93063112e-246 1.00000000e+000 9.68314239e-171  
3.04621461e-141 1.00000000e+000]
```

*** 総入力2 ***

12.3363378960156

*** 出力1 ***

12.3363378960156

出力合計: 12.3363378960156

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.63623666 -3.34067312 2.30994887 -1.05197561 2.0468291 -1.7220092  
1.8706522 -1.85733869 -0.88864247 3.04549227]  
[ 0.13884267 0.72901801 -0.50408833 0.22956726 -0.44666905 0.37578526  
-0.40822286 0.40531752 0.1939239 -0.6646022 ]]
```

*** 偏微分_重み2 ***

```
[2.14410842e-096 8.17338384e-295 1.00964813e+000 7.68091114e-165  
1.00964813e+000 3.96855434e-246 1.00964813e+000 9.77656656e-171  
3.07560487e-141 1.00964813e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.14399835 -0.7560888  0.52280676 -0.23809183  0.46325531 -0.38973938  
 0.4233815  -0.42036827 -0.20112492  0.68928103]
```

*** 偏微分_バイアス2 ***

1.0096481256145946

順伝播開始

*** 総入力1 ***

```
[ 37.57812916 117.98065881 -85.84285983  65.78250722 -95.37491826  
 93.36795202 -96.66069773  64.86487363  54.1834542  -88.21896133]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 5.23503592e-38 1.00000000e+00  
 3.79489085e-42 1.00000000e+00 1.04904075e-42 1.00000000e+00  
 1.00000000e+00 4.86398129e-39]
```

*** 総入力2 ***

-6.822272709700387

*** 出力1 ***

-6.822272709700387

出力合計: -6.822272709700387

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.78402054  9.36731545 -10.19131295  2.94976104 -8.99843802  
  4.82854888 -8.19972569  5.20801551  2.49177158 -13.52595895]  
 [-2.97990694 -15.64652853 17.02287808 -4.92708082 15.03038068  
 -8.06528062 13.69626577 -8.69911595 -4.16208627 22.59284463]]
```

*** 偏微分_重み2 ***

```
[-5.90462266e+00 -5.90462266e+00 -3.09109117e-37 -5.90462266e+00  
 -2.24073985e-41 -5.90462266e+00 -6.19418978e-42 -5.90462266e+00  
 -5.90462266e+00 -2.87199741e-38]
```

*** 偏微分_バイアス1 ***

```
[ 0.66229196  3.4774811 -3.78337831  1.09505635 -3.34054066  1.7925293  
 -3.0440302  1.93340083  0.92503435 -5.02131767]
```

*** 偏微分_バイアス2 ***

-5.904622656416949

順伝播開始

*** 総入力1 ***

[-111.67166284 -336.15861474 221.63729555 -189.26578788 249.20204882
-279.98269702 242.37038889 -196.23017674 -162.94239407 298.08592171]

*** 中間層出力1 ***

[3.17404472e-049 1.01898684e-146 1.00000000e+000 6.35203248e-083
1.00000000e+000 2.54132175e-122 1.00000000e+000 6.00229115e-086
1.71797716e-071 1.00000000e+000]

*** 総入力2 ***

12.396284637999678

*** 出力1 ***

12.396284637999678

出力合計: 12.396284637999678

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.50343075 -8.27104481 6.45653576 -1.69750567 5.70080981 -3.62195922
5.19479898 -4.01064915 -1.22838434 8.56914493]
[0.01191464 0.19574989 -0.15280611 0.04017468 -0.13492043 0.0857205
-0.12294472 0.09491958 0.02907203 -0.20280499]]

*** 偏微分_重み2 ***

[2.21013111e-048 7.09534588e-146 6.96313789e+000 4.42300781e-082
6.96313789e+000 1.76955738e-121 6.96313789e+000 4.17947810e-085
1.19625119e-070 6.96313789e+000]

*** 偏微分_バイアス1 ***

[-0.27359154 -4.49493375 3.50883125 -0.92251653 3.09812883 -1.96836882
2.82313514 -2.17960398 -0.66757059 4.6569375]

*** 偏微分_バイアス2 ***

6.9631378942084625

順伝播開始

*** 総入力1 ***

[-183.47343817 -551.49306057 365.34029404 -311.70731837 411.32934348
-458.27369412 402.65564572 -320.24772714 -267.21072069 476.69628649]

*** 中間層出力1 ***

[2.08208391e-080 3.08750016e-240 1.00000000e+000 4.23869008e-136
1.00000000e+000 9.42461114e-200 1.00000000e+000 8.28283981e-140
8.95073087e-117 1.00000000e+000]

*** 総入力2 ***

9.959186375026714

*** 出力1 ***

9.959186375026714

出力合計: 9.959186375026714

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.07243741 -1.19010018 0.75233873 -0.24424989 0.64359919 -0.52115476
0.57079055 -0.57708239 -0.17674919 1.05631684]
[-0.14349246 -2.35748927 1.49032032 -0.48383868 1.27491636 -1.03236413
1.13068849 -1.14315211 -0.3501254 2.09247561]]

*** 偏微分_重み2 ***

[3.16694316e-080 4.69622645e-240 1.52104493e+000 6.44723804e-136
1.52104493e+000 1.43352570e-199 1.52104493e+000 1.25985715e-139
1.36144638e-116 1.52104493e+000]

*** 偏微分_バイアス1 ***

[-0.05976401 -0.98188436 0.62071214 -0.20151677 0.5309973 -0.42997532
0.470927 -0.47611804 -0.14582576 0.87150728]

*** 偏微分_バイアス2 ***

1.5210449264502017

順伝播開始

*** 総入力1 ***

[260.26757974 808.83629413 -560.40004456 450.89879963 -631.10554315
670.45881438 -613.89831291 460.98337654 382.10952568 -720.32293706]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 4.18170112e-244 1.00000000e+000
8.21003694e-275 1.00000000e+000 2.43977769e-267 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-4.522900405502187

*** 出力1 ***

-4.522900405502187

出力合計: -4.522900405502187

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.22713522  3.73168625 -3.61847049  0.76587163 -3.06719415
    1.63413641 -2.69807648  1.80950347  0.55421595 -5.15954693]
  [ 1.1640041  19.12384182 -18.54364291  3.92487658 -15.71850681
    8.37448918 -13.82688265  9.27319604  2.84020077 -26.44122592]]
```

*** 偏微分_重み2 ***

```
[7.86298370e+000 7.86298370e+000 3.28806477e-243 7.86298370e+000
 6.45553867e-274 7.86298370e+000 1.91839322e-266 7.86298370e+000
 7.86298370e+000 0.00000000e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.24297126 -3.99186219  3.87075294 -0.81926877  3.2810412  -1.74806961
 2.88618838 -1.9356634  -0.5928563  5.51927436]
```

*** 偏微分_バイアス2 ***

7.862983703689605

順伝播開始

*** 総入力1 ***

```
[ -56.28988388 -155.99631798  91.62816144 -91.68563268 102.47210287
 -127.26188898 105.63365362 -93.37322921 -79.7679268 108.33465401]
```

*** 中間層出力1 ***

```
[3.57778339e-25 1.78508913e-68 1.00000000e+00 1.51857294e-40
 1.00000000e+00 5.38101073e-56 1.00000000e+00 2.80880633e-41
 2.27630031e-35 1.00000000e+00]
```

*** 総入力2 ***

8.876411791510872

*** 出力1 ***

8. 876411791510872

出力合計: 8. 876411791510872

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1. 80213519  7. 9783265  -3. 94414722  2. 75156897  -3. 34325381
    4. 28174197  -2. 94091409  4. 59079741  2. 37856086  -5. 62392666]
 [ -3. 78298277 -16. 74783991  8. 27942378  -5. 77600286  7. 01804817
   -8. 98809156  6. 17346989  -9. 63685054  -4. 99299652  11. 80556139]]
```

*** 偏微分_重み2 ***

```
[2. 56701965e-24 1. 28078152e-67 7. 17488839e+00 1. 08955913e-39
7. 17488839e+00 3. 86081514e-55 7. 17488839e+00 2. 01528719e-40
1. 63322007e-34 7. 17488839e+00]
```

*** 偏微分_バイアス1 ***

```
[-1. 26919205 -5. 61890617  2. 77774958 -1. 93785099  2. 35455762 -3. 01550787
 2. 07120131 -3. 23316674 -1. 67515208  3. 96076999]
```

*** 偏微分_バイアス2 ***

7. 174888393002739

順伝播開始

*** 総入力1 ***

```
[-213. 27526109 -645. 62633236  431. 6941619  -363. 57222644  485. 50816181
 -536. 19454652  474. 20695227 -373. 97068107 -311. 28813826  564. 8855029 ]
```

*** 中間層出力1 ***

```
[2. 37536844e-093 4. 05551939e-281 1. 00000000e+000 1. 26645068e-158
1. 00000000e+000 1. 36040187e-233 1. 00000000e+000 3. 86008456e-163
6. 44583632e-136 1. 00000000e+000]
```

*** 総入力2 ***

6. 365200853959912

*** 出力1 ***

6. 365200853959912

出力合計: 6. 365200853959912

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.04938175  4.64577256 -1.71088021  1.60223621 -1.36098051  2.49325461
 -1.12669844  2.67321733  1.38503391 -2.68901432]
 [ 1.59689796  7.06971008 -2.60353406  2.43820492 -2.07107375  3.79411326
 -1.71455473  4.06797173  2.10767705 -4.09201082]]
```

*** 偏微分_重み2 ***

```
[-8.54729816e-093 -1.45929924e-280 -3.59830418e+000 -4.55707479e-158
 -3.59830418e+000 -4.89513971e-233 -3.59830418e+000 -1.38897584e-162
 -2.31940797e-135 -3.59830418e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.63651709  2.81795791 -1.03775817  0.97185864 -0.82552164  1.51231824
 -0.6834146   1.62147712  0.84011157 -1.631059   ]
```

*** 偏微分_バイアス2 ***

-3.598304176371096

順伝播開始

*** 総入力1 ***

```
[ 94.58233125  300.53042063 -213.77099454  166.00575263 -240.01558123
 246.94338483 -234.09989993  168.8675356   139.39328476 -266.39010937]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.44689388e-093 1.00000000e+000
 5.78838621e-105 1.00000000e+000 2.14637325e-102 1.00000000e+000
 1.00000000e+000 2.03350604e-116]
```

*** 総入力2 ***

-8.62612331547431

*** 出力1 ***

-8.62612331547431

出力合計: -8.62612331547431

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.4232484   1.87378504 -1.30726483  0.64623186 -1.07909109  1.00560738
 -0.92631297  1.07819196  0.55862739 -1.94511767]
 [-1.92883882 -8.53926273  5.95750186 -2.94502492  4.91766244 -4.58278056
  4.22141798 -4.91356492 -2.54579153  8.86434169]]
```


*** 偏微分_重み2 ***

[-4.31748915e+000 -4.31748915e+000 -6.24694862e-093 -4.31748915e+000
-2.49912947e-104 -4.31748915e+000 -9.26694322e-102 -4.31748915e+000
-4.31748915e+000 -8.77964026e-116]

*** 偏微分_バイアス1 ***

[0.6006387 2.65911885 -1.85516081 0.91707815 -1.53135573 1.42707381
-1.31454582 1.53007977 0.79275723 -2.76034815]

*** 偏微分_バイアス2 ***

-4.317489150067121

順伝播開始

*** 総入力1 ***

[75.58377043 245.6280777 -178.68546953 134.10704336 -200.86868345
202.86981679 -193.46611767 137.22776358 112.31348023 -229.5118287]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.49969250e-078 1.00000000e+000
5.80549412e-088 1.00000000e+000 9.52209827e-085 1.00000000e+000
1.00000000e+000 2.10998450e-100]

*** 総入力2 ***

-6.51055363194142

*** 出力1 ***

-6.51055363194142

出力合計: -6.51055363194142

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.0833186 -0.58176335 0.44921258 -0.15994192 0.37080573 -0.28343335
0.31830692 -0.30837543 -0.12983859 0.66839656]
[-0.28278419 -1.9745109 1.52463218 -0.54284454 1.25851852 -0.96197575
1.080337 -1.04662943 -0.44067352 2.26854492]]

*** 偏微分_重み2 ***

[-2.65196932e+000 -2.65196932e+000 -6.62910781e-078 -2.65196932e+000
-1.53959923e-087 -2.65196932e+000 -2.52523124e-084 -2.65196932e+000
-2.65196932e+000 -5.59561415e-100]

*** 偏微分_バイアス1 ***

[0.21135321 1.47575157 -1.13951173 0.40572259 -0.94061809 0.71898171
-0.80744504 0.78225196 0.32935986 -1.69551291]

*** 偏微分_バイアス2 ***

-2.651969315615111

順伝播開始

*** 総入力1 ***

[116.15595408 381.20498341 -277.33093385 205.73131122 -311.43219893
317.12004936 -294.66680607 214.64877976 173.46810737 -379.24521101]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.60334436e-121 1.00000000e+000
5.58103207e-136 1.00000000e+000 1.06618391e-128 1.00000000e+000
1.00000000e+000 1.97650343e-165]

*** 総入力2 ***

-5.211088667290015

*** 出力1 ***

-5.211088667290015

出力合計: -5.211088667290015

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.2483867 2.98983006 -2.47066665 0.66981454 -2.03942943 1.34901672
-1.75068626 1.48619802 0.50424638 -3.67617735]
[-0.13546091 -1.63054264 1.34741014 -0.36529205 1.11222932 -0.73570378
0.95475948 -0.81051739 -0.27499731 2.00485105]]

*** 偏微分_重み2 ***

[1.60955779e+000 1.60955779e+000 5.79979099e-121 1.60955779e+000
8.98299366e-136 1.60955779e+000 1.71608461e-128 1.60955779e+000
1.60955779e+000 3.18129649e-165]

*** 偏微分_バイアス1 ***

[-0.06952981 -0.83693018 0.69160302 -0.18749828 0.57088865 -0.37762441
0.49006202 -0.41602498 -0.1411515 1.02905641]

*** 偏微分_バイアス2 ***

1. 609557791509257

順伝播開始

*** 総入力1 ***

[-263.18017091 -799.61943285 536.33737587 -449.48652702 603.26871621
-663.72664006 588.81128977 -462.31937565 -384.4227788 700.95981605]

*** 中間層出力1 ***

[5.03853207e-115 0.00000000e+000 1.00000000e+000 6.17279177e-196
1.00000000e+000 5.58705221e-289 1.00000000e+000 1.64909728e-201
1.11508622e-167 1.00000000e+000]

*** 総入力2 ***

7.9998003628819045

*** 出力1 ***

7.9998003628819045

出力合計: 7.9998003628819045

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.71524256 5.93345913 -2.9086851 1.51741186 -2.40099488 2.81024327
-2.06106114 3.07136183 1.20226017 -4.32791783]
[1.15068248 9.54575111 -4.6794936 2.44121273 -3.86272139 4.52112035
-3.31583588 4.94120798 1.93419658 -6.96275572]]

*** 偏微分_重み2 ***

[-2.18561124e-114 0.00000000e+000 -4.33779364e+000 -2.67762969e-195
-4.33779364e+000 -2.42354796e-288 -4.33779364e+000 -7.15344371e-201
-4.83701394e-167 -4.33779364e+000]

*** 偏微分_バイアス1 ***

[0.36045056 2.99020049 -1.4658484 0.76470834 -1.20999503 1.41623808
-1.03868349 1.54783027 0.60588585 -2.18107882]

*** 偏微分_バイアス2 ***

-4.337793643317196

順伝播開始

*** 総入力1 ***

```
[-267.07147776 -816.45482147 548.93175349 -456.8156507 616.82533822  
-677.03256746 600.13555463 -471.69919985 -390.66218889 723.3914034 ]
```

*** 中間層出力1 ***

```
[1.02879995e-116 0.00000000e+000 1.00000000e+000 4.05026701e-199  
1.00000000e+000 9.30019137e-295 1.00000000e+000 1.39200370e-205  
2.17554001e-170 1.00000000e+000]
```

*** 総入力2 ***

9.518028138042922

*** 出力1 ***

9.518028138042922

出力合計: 9.518028138042922

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.75463666 6.26026196 -3.61106254 1.60098781 -3.07540978 2.96502574  
-2.71675319 3.24052618 1.26847821 -5.10846373]  
[ 0.59978191 4.97562877 -2.87005668 1.2724581 -2.44432222 2.35658946  
-2.15926353 2.57555601 1.00818092 -4.06018458]]
```

*** 偏微分_重み2 ***

```
[-3.35544886e-116 0.00000000e+000 -3.26151731e+000 -1.32100159e-198  
-3.26151731e+000 -3.03327351e-294 -3.26151731e+000 -4.54004415e-205  
-7.09556141e-170 -3.26151731e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.27101698 2.24828368 -1.29686154 0.57497191 -1.1044895 1.06484665  
-0.97568311 1.1637887 0.45555583 -1.83463179]
```

*** 偏微分_バイアス2 ***

-3.2615173070798473

順伝播開始

*** 総入力1 ***

```
[-73.00758582 -207.68664931 127.3892034 -120.90599164 143.37375224  
-171.24457702 145.15532574 -122.90946515 -104.60921261 156.13116975]
```

*** 中間層出力1 ***

```
[1.96430236e-32 6.35088488e-91 1.00000000e+00 3.09881038e-53
```

1. 00000000e+00 4. 26015249e-75 1. 00000000e+00 4. 17924193e-54
3. 70506821e-46 1. 00000000e+00]

*** 総入力2 ***

10. 65955919552087

*** 出力1 ***

10. 65955919552087

出力合計: 10. 65955919552087

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 72170338 5. 98705635 -3. 84333205 1. 53111872 -3. 33105584
2. 83562833 -2. 98805146 3. 09910559 1. 21312024 -5. 27538478]
[-1. 95850147 -16. 24719928 10. 42973008 -4. 15502869 9. 03955548
-7. 69510355 8. 10873737 -8. 41010727 -3. 29206963 14. 31592136]]

*** 偏微分_重み2 ***

[1. 57851353e-31 5. 10357157e-90 8. 03600075e+00 2. 49020425e-52
8. 03600075e+00 3. 42345886e-74 8. 03600075e+00 3. 35843913e-53
2. 97739309e-45 8. 03600075e+00]

*** 偏微分_バイアス1 ***

[-0. 66775444 -5. 53951048 3. 55603437 -1. 41666416 3. 08205196 -2. 62365876
2. 76468793 -2. 86744051 -1. 12243679 4. 88103796]

*** 偏微分_バイアス2 ***

8. 036000749440902

順伝播開始

*** 総入力1 ***

[86. 59874595 273. 53168503 -194. 83358906 152. 19901532 -219. 68519961
226. 01938086 -214. 70587929 153. 51996896 127. 6649556 -240. 95299413]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 2. 42575749e-085 1. 00000000e+000
3. 90777952e-096 1. 00000000e+000 5. 68095558e-094 1. 00000000e+000
1. 00000000e+000 2. 26696206e-105]

*** 総入力2 ***

-6. 030340271062622

*** 出力1 ***

-6.030340271062622

出力合計: -6.030340271062622

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.10989088 0.91162506 -0.70969495 0.23313731 -0.58357977 0.43176975
-0.49913692 0.47188838 0.18471695 -1.06224614]
[-0.43358677 -3.59691873 2.80018086 -0.91986934 2.30257929 -1.7035959
1.96940061 -1.86188843 -0.72882142 4.19121106]]

*** 偏微分_重み2 ***

[-2.08440957e+000 -2.08440957e+000 -5.05627212e-085 -2.08440957e+000
-8.14541304e-096 -2.08440957e+000 -1.18414382e-093 -2.08440957e+000
-2.08440957e+000 -4.72527741e-105]

*** 偏微分_バイアス1 ***

[0.13621651 1.13001535 -0.87971055 0.28898804 -0.72338303 0.53520518
-0.61871093 0.58493468 0.22896803 -1.31671945]

*** 偏微分_バイアス2 ***

-2.0844095713466304

順伝播開始

*** 総入力1 ***

[-12.22531328 -14.03259055 -6.02645862 -15.53856114 -5.47096733
-12.61518761 1.91857857 -12.26268804 -14.98440788 -22.13048992]

*** 中間層出力1 ***

[4.90469236e-06 8.04864937e-07 2.40821435e-03 1.78520692e-07
4.18953443e-03 3.32117827e-06 8.71979842e-01 4.72476485e-06
3.10709267e-07 2.44821945e-10]

*** 総入力2 ***

2.2475894746230063

*** 出力1 ***

2.2475894746230063

出力合計: 2.2475894746230063

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.26045862  3.64756465 -2.35797578  0.78114082 -1.93894985  1.62030818
    -1.37919021  1.78979832  0.57657817 -3.52933936]
  [-0.36257998 -5.07771235  3.28249775 -1.08741277  2.69917892 -2.2556033
    1.9199471  -2.49154763 -0.80264461  4.91313295]]
```

*** 偏微分_重み2 ***

```
[1.32183130e-05 2.16913842e-06 6.49021971e-03 4.81119346e-07
 1.12909380e-02 8.95068857e-06 2.35001538e+00 1.27334022e-05
 8.37372058e-07 6.59803482e-10]
```

*** 偏微分_バイアス1 ***

```
[-0.12563764 -1.75947876  1.13741872 -0.37679954  0.93529284 -0.78158939
 0.66528112 -0.86334649 -0.27812449  1.70245033]
```

*** 偏微分_バイアス2 ***

2.6950340613091726

順伝播開始

*** 総入力1 ***

```
[ -60.52842663 -178.26988067  112.46772338 -100.89043087  126.01529541
 -148.05247462  122.98605772 -105.68866308  -87.70815923  154.26091392]
```

*** 中間層出力1 ***

```
[5.16224148e-27 3.78769096e-78 1.00000000e+00 1.52701252e-44
 1.00000000e+00 5.03068635e-65 1.00000000e+00 1.25891621e-46
 8.10644477e-39 1.00000000e+00]
```

*** 総入力2 ***

7.638469461514712

*** 出力1 ***

7.638469461514712

出力合計: 7.638469461514712

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.26473845 -3.70748289  1.88438256 -0.79397256  1.54905609 -1.64692565
 1.1419956  -1.81920035 -0.58604962  2.821236  ]
```

```
[ 0.07869233  1.10203283 -0.56012435  0.23600482 -0.46045004  0.48954134  
-0.33945312  0.54074923  0.17420065 -0.83859987]]
```

*** 偏微分_重み2 ***

```
[2.46835473e-26 1.81110568e-77 4.78155611e+00 7.30149603e-44  
4.78155611e+00 2.40545090e-64 4.78155611e+00 6.01957848e-46  
3.87614205e-38 4.78155611e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.22290865 -3.12168481  1.58664209 -0.66852151  1.30429863 -1.38670438  
0.96155544 -1.53175895 -0.49345129  2.3754687 ]
```

*** 偏微分_バイアス2 ***

4.7815561071608625

順伝播開始

*** 総入力1 ***

```
[ 76.18741796 264.62104607 -198.49242726 137.56684636 -221.10800614  
217.68313726 -205.46971063 147.21917648 115.32861552 -279.90173219]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 6.24933984e-087 1.00000000e+000  
9.41917855e-097 1.00000000e+000 5.82959625e-090 1.00000000e+000  
1.00000000e+000 2.75563844e-122]
```

*** 総入力2 ***

-5.5323435801980265

*** 出力1 ***

-5.5323435801980265

出力合計: -5.5323435801980265

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.07236064 -1.01336183  0.6675988 -0.21701556  0.51941065 -0.4501522  
0.33952165 -0.49723984 -0.16018424  1.08161498]  
[ 0.05882621  0.82382128 -0.54273023  0.17642468 -0.42225939  0.36595513  
-0.27601707  0.40423544  0.13022316 -0.87930828]]
```

*** 偏微分_重み2 ***

```
[-5.43624039e-001 -5.43624039e-001 -3.39729136e-087 -5.43624039e-001
```


-5.12049188e-097 -5.43624039e-001 -3.16910866e-090 -5.43624039e-001
-5.43624039e-001 -1.49803130e-122]

*** 偏微分_バイアス1 ***

[0.01993087 0.2791183 -0.18388204 0.05977432 -0.1430654 0.123989
-0.09351715 0.13695872 0.04412082 -0.29791781]

*** 偏微分_バイアス2 ***

-0.5436240386808828

順伝播開始

*** 総入力1 ***

[-167.51840692 -499.08296376 328.07565999 -283.89899029 369.73151401
-414.74331176 364.12929097 -290.22142283 -243.45803623 422.10640661]

*** 中間層出力1 ***

[1.76880623e-073 1.78247245e-217 1.00000000e+000 5.06098556e-124
1.00000000e+000 7.57300596e-181 1.00000000e+000 9.08735586e-127
1.85147686e-106 1.00000000e+000]

*** 総入力2 ***

6.002978506716072

*** 出力1 ***

6.002978506716072

出力合計: 6.002978506716072

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.01422251 0.24659738 -0.10196574 0.04994422 -0.07933221 0.10751598
-0.05185686 0.119144 0.03591005 -0.16520052]
[0.17148003 2.97321095 -1.22939525 0.60217467 -0.95650408 1.29631421
-0.62523524 1.43651264 0.43296545 -1.99181351]]

*** 偏微分_重み2 ***

[-2.48209363e-073 -2.50127088e-217 -1.40325921e+000 -7.10187460e-124
-1.40325921e+000 -1.06268903e-180 -1.40325921e+000 -1.27519158e-126
-2.59810196e-106 -1.40325921e+000]

*** 偏微分_バイアス1 ***

[0.05206795 0.90278145 -0.37329179 0.18284344 -0.29043151 0.39361096

-0.18984552 0.43618061 0.131465 -0.60479136]

*** 偏微分_バイアス2 ***

-1.4032592089041147

順伝播開始

*** 総入力1 ***

[-33.63898858 -95.55746293 56.43526706 -54.61844348 63.00209426
-79.72015133 61.38203784 -58.26286856 -48.34429352 82.45547556]

*** 中間層出力1 ***

[2.45908128e-15 3.16170354e-42 1.00000000e+00 1.90331813e-24
1.00000000e+00 2.38769132e-35 1.00000000e+00 4.97459451e-26
1.01004353e-21 1.00000000e+00]

*** 総入力2 ***

6.494119229832512

*** 出力1 ***

6.494119229832512

出力合計: 6.494119229832512

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.20892554 -3.62246081 1.60659793 -0.73366948 1.27411646 -1.57938589
0.87050958 -1.75019897 -0.52751062 2.53550286]
[0.1664299 2.88564907 -1.27981449 0.58444046 -1.01496004 1.2581374
-0.69344716 1.39420695 0.42021449 -2.01977932]]

*** 偏微分_重み2 ***

[1.19668097e-14 1.53860325e-41 4.86637421e+00 9.26225827e-24
4.86637421e+00 1.16193994e-34 4.86637421e+00 2.42082384e-25
4.91524979e-21 4.86637421e+00]

*** 偏微分_バイアス1 ***

[-0.18056687 -3.13076326 1.3885251 -0.63408428 1.10117326 -1.36500671
0.75235028 -1.51263434 -0.45590855 2.19134439]

*** 偏微分_バイアス2 ***

4.866374206560043

順伝播開始

*** 総入力1 ***

[58.12227002 187.09818818 -135.7412977 103.37163517 -153.17610312
154.21117179 -149.48590274 103.8359076 86.09382179 -165.66396513]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.11764387e-59 1.00000000e+00
2.99546091e-67 1.00000000e+00 1.19976812e-65 1.00000000e+00
1.00000000e+00 1.12993664e-72]

*** 総入力2 ***

-5.50838585108031

*** 出力1 ***

-5.50838585108031

出力合計: -5.50838585108031

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.0659369 1.14324861 -0.62736487 0.23154608 -0.45771063 0.49845418
-0.25176347 0.55236278 0.16648235 -1.10135415]
[-0.20945352 -3.63161531 1.99287176 -0.73552357 1.4539523 -1.58337723
0.79974563 -1.75462198 -0.52884372 3.49853441]]

*** 偏微分_重み2 ***

[-2.84850640e+00 -2.84850640e+00 -3.18361572e-59 -2.84850640e+00
-8.53258958e-67 -2.84850640e+00 -3.41754718e-65 -2.84850640e+00
-2.84850640e+00 -3.21863176e-72]

*** 偏微分_バイアス1 ***

[0.0831227 1.44122502 -0.7908813 0.29189627 -0.57700837 0.62837131
-0.31738312 0.69633066 0.20987432 -1.38841118]

*** 偏微分_バイアス2 ***

-2.8485064022634186

順伝播開始

*** 総入力1 ***

[97.98422257 305.58533233 -214.95202174 171.4115062 -242.94065774
252.85250159 -238.80104715 172.05874478 144.00269218 -262.6137197]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 4.44143269e-094 1.00000000e+000
3.10608199e-106 1.00000000e+000 1.94994765e-104 1.00000000e+000
1.00000000e+000 8.87790849e-115]

*** 総入力2 ***

-4.112617713971234

*** 出力1 ***

-4.112617713971234

出力合計: -4.112617713971234

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.00244693 -0.11395651 0.06778672 -0.01544713 0.04945559 -0.04428653
0.02720302 -0.05011135 -0.008417 0.11900122]
[-0.00774468 0.36067951 -0.21454922 0.04889114 -0.15653006 0.14016964
-0.08609927 0.15860556 0.02664033 -0.37664633]]

*** 偏微分_重み2 ***

[1.89007297e-001 1.89007297e-001 8.39463188e-095 1.89007297e-001
5.87072161e-107 1.89007297e-001 3.68554335e-105 1.89007297e-001
1.89007297e-001 1.67798949e-115]

*** 偏微分_バイアス1 ***

[0.0018943 -0.08822003 0.05247744 -0.01195848 0.03828631 -0.03428465
0.02105936 -0.03879396 -0.00651606 0.09212542]

*** 偏微分_バイアス2 ***

0.18900729705497898

順伝播開始

*** 総入力1 ***

[149.71595569 492.21396543 -355.22295717 264.3516335 -397.37924076
406.89920855 -376.1826783 277.80787211 223.297823 -486.70660402]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 5.35340201e-155 1.00000000e+000
2.63262206e-173 1.00000000e+000 4.22608889e-164 1.00000000e+000
1.00000000e+000 4.22675981e-212]

*** 総入力2 ***
-4.205231289528174

*** 出力1 ***
-4.205231289528174

出力合計: -4.205231289528174

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.14946226 9.45291485 -5.59187653 1.32665819 -4.07970143 3.70568381
-2.24403744 4.18618613 0.74672713 -9.81667404]
[0.08194526 -5.18272336 3.06584261 -0.7273632 2.23676656 -2.03170496
1.23033217 -2.29514864 -0.40940601 5.38216059]]

*** 偏微分_重み2 ***

[4.43627892e+000 4.43627892e+000 2.37491845e-154 4.43627892e+000
1.16790457e-172 4.43627892e+000 1.87481090e-163 4.43627892e+000
4.43627892e+000 1.87510854e-211]

*** 偏微分_バイアス1 ***

[0.03292205 -2.08219367 1.23172271 -0.29222302 0.89863588 -0.81625102
0.49429415 -0.92209127 -0.16448159 2.16231891]

*** 偏微分_バイアス2 ***

4.436278916075749

順伝播開始

*** 総入力1 ***

[292.5640173 912.3351185 -632.64555369 507.49552648 -712.09336778
755.89231248 -692.11489386 519.82177107 430.13491549 -816.53358805]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.76005821e-275 1.00000000e+000
0.00000000e+000 1.00000000e+000 2.62011740e-301 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-6.379007958405292

*** 出力1 ***

-6.379007958405292

出力合計: -6.379007958405292

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.60271385  5.9604432 -3.12003587  1.42632802 -2.27630469
    2.75372594 -1.2520801  3.02182637  1.10275047 -5.47729817]
  [ 2.00102216 19.78879188 -10.35858214  4.73543785 -7.55737758
    9.14242576 -4.15693123 10.0325246  3.66115385 -18.18474062]]
```

*** 偏微分_重み2 ***

```
[7.69635089e+000 7.69635089e+000 1.35460256e-274 7.69635089e+000
 0.00000000e+000 7.69635089e+000 2.01653429e-300 7.69635089e+000
 7.69635089e+000 0.00000000e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.41279131 -4.08223435  2.13687425 -0.97687454  1.55901313 -1.88599308
 0.85753428 -2.06961177 -0.75526026  3.75133425]
```

*** 偏微分_バイアス2 ***

7.6963508870771795

順伝播開始

*** 総入力1 ***

```
[ -391.31803162 -1210.64973996  819.91701968 -672.2835665
   919.62351093 -1001.2916898  890.88605942 -696.99128919
  -573.94644349 1086.71351287]
```

*** 中間層出力1 ***

```
[1.12911505e-170 0.00000000e+000 1.00000000e+000 1.07388257e-292
 1.00000000e+000 0.00000000e+000 1.00000000e+000 1.99769495e-303
 5.47301559e-250 1.00000000e+000]
```

*** 総入力2 ***

4.127769108680383

*** 出力1 ***

4.127769108680383

出力合計: 4.127769108680383

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 14.73114478 58.74935873 -15.85444203 21.49782194 -11.56702753
 32.40350263 -6.36243689 34.60617118 18.83936257 -27.83285513]
 [ 6.93768977 27.66823834 -7.46671096 10.12448261 -5.44753647
 15.26055523 -2.99641433 16.29791053 8.87247087 -13.10799107]]
```

*** 偏微分_重み2 ***

```
[-1.69135246e-169 0.00000000e+000 -1.49794519e+001 -1.60861723e-291
 -1.49794519e+001 0.00000000e+000 -1.49794519e+001 -2.99243754e-302
 -8.19827737e-249 -1.49794519e+001]
```

*** 偏微分_バイアス1 ***

```
[ 3.03910307 12.12026349 -3.27084447 4.43509975 -2.38633109 6.68499194
 -1.31260006 7.13941262 3.88664733 -5.7420463 ]
```

*** 偏微分_バイアス2 ***

-14.979451873876982

順伝播開始

*** 総入力1 ***

```
[ 292.20122748 933.02283635 -644.17635458 508.11350424 -720.16525808
 765.07366244 -691.54464548 530.75901415 430.72515034 -854.06408225]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.72887595e-280 1.00000000e+000
 0.00000000e+000 1.00000000e+000 4.63421820e-301 1.00000000e+000
 1.00000000e+000 0.00000000e+000]
```

*** 総入力2 ***

-9.101658261901722

*** 出力1 ***

-9.101658261901722

出力合計: -9.101658261901722

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3.43636793 13.70459765 -11.62528506 5.01484623 -10.00825199
 7.55883937 -8.04529852 8.07266092 4.39470131 -16.14304049]
 [ 1.34841253 5.37761137 -4.56170015 1.96779904 -3.92718496
 2.96604845 -3.15693244 3.16766929 1.72445747 -6.3344434 ]]
```

*** 偏微分_重み2 ***

[5.55966694e+000 5.55966694e+000 9.61197448e-280 5.55966694e+000
0.00000000e+000 5.55966694e+000 2.57647097e-300 5.55966694e+000
5.55966694e+000 0.00000000e+000]

*** 偏微分_バイアス1 ***

[-0.88709095 -3.53781223 3.00104219 -1.2945717 2.5836086 -1.95129803
2.07687641 -2.08393995 -1.13448264 4.16729098]

*** 偏微分_バイアス2 ***

5.559666939839424

順伝播開始

*** 総入力1 ***

[108.24395456 345.09005028 -242.3014191 189.56750294 -271.81257677
283.02016226 -263.6161776 194.40550243 159.49583161 -306.99069644]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 5.88614191e-106 1.00000000e+000
8.98044378e-119 1.00000000e+000 3.25798236e-115 1.00000000e+000
1.00000000e+000 4.73843079e-134]

*** 総入力2 ***

-11.82589506242304

*** 出力1 ***

-11.82589506242304

出力合計: -11.82589506242304

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.38894642 1.17446225 -0.88933007 0.50969943 -0.76562763
0.70431398 -0.6154624 0.74362114 0.46225857 -1.23493671]
[-4.62253019 -13.95818788 10.56946377 -6.05764933 9.09929144
-8.3705942 7.31461558 -8.8377499 -5.49382667 14.67691163]]

*** 偏微分_重み2 ***

[-6.77554988e+000 -6.77554988e+000 -3.98818481e-105 -6.77554988e+000
-6.08474448e-118 -6.77554988e+000 -2.20746220e-114 -6.77554988e+000
-6.77554988e+000 -3.21054742e-133]

*** 偏微分_バイアス1 ***

[1.59953841 4.82996471 -3.65736136 2.09613402 -3.14863627 2.89648448
-2.53108322 3.0581348 1.90103394 -5.07866536]

*** 偏微分_バイアス2 ***

-6.775549883057659

順伝播開始

*** 総入力1 ***

[111.53176083 371.12558237 -265.50008724 197.00689032 -295.33305289
302.56286815 -279.26263307 208.6480056 165.94211832 -359.35075701]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 4.95196047e-116 1.00000000e+000
5.47626943e-129 1.00000000e+000 5.22130973e-122 1.00000000e+000
1.00000000e+000 8.62877534e-157]

*** 総入力2 ***

-8.505875619724787

*** 出力1 ***

-8.505875619724787

出力合計: -8.505875619724787

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.89021476 -3.86193554 3.36446516 -1.347041 2.89648082 -2.08329618
2.3283839 -2.23200089 -1.16756532 4.67194542]
[0.29193066 1.26645551 -1.10331863 0.44173899 -0.94985119 0.68318124
-0.76355356 0.7319464 0.38288302 -1.53208435]]

*** 偏微分_重み2 ***

[-2.38836294e+000 -2.38836294e+000 -1.18270788e-115 -2.38836294e+000
-1.30793189e-128 -2.38836294e+000 -1.24703826e-121 -2.38836294e+000
-2.38836294e+000 -2.06086472e-156]

*** 偏微分_バイアス1 ***

[0.34111625 1.47983275 -1.28920995 0.51616485 -1.10988574 0.79828622
-0.89219996 0.85526751 0.4473926 -1.79021575]

*** 偏微分_バイアス2 ***

-2.3883629373535546

順伝播開始

*** 総入力1 ***

[345.7574099 1099.59232189 -756.69753813 600.1699102 -845.92215281
901.47597121 -813.7177517 626.25087346 509.0630602 -999.76966758]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-7.335577780421544

*** 出力1 ***

-7.335577780421544

出力合計: -7.335577780421544

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.35374732 23.23230764 -21.37356209 7.25584423 -18.40058065
11.93307968 -14.79161041 12.87776161 6.11568244 -29.67964022]
[2.65916998 14.18976585 -13.05448628 4.43170486 -11.23865674
7.28845404 -9.03437969 7.86544431 3.73531994 -18.12765016]]

*** 偏微分_重み2 ***

[9.77134138 9.77134138 0. 9.77134138 0. 9.77134138
0. 9.77134138 9.77134138 0.]

*** 偏微分_バイアス1 ***

[-1.07439462 -5.73314538 5.27445404 -1.79055867 4.54079748 -2.94478197
3.65019499 -3.17790556 -1.5091956 7.32418385]

*** 偏微分_バイアス2 ***

9.771341380101916

順伝播開始

*** 総入力1 ***

[150.10160285 486.31450827 -341.74211903 262.80579265 -381.09971539
397.06139506 -365.09402561 274.8012919 221.84948078 -449.826537]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.83074700e-149 1.00000000e+000
3.09383075e-166 1.00000000e+000 2.76489918e-159 1.00000000e+000
1.00000000e+000 4.39356612e-196]

*** 総入力2 ***

-12.123535056671486

*** 出力1 ***

-12.123535056671486

出力合計: -12.123535056671486

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.87518712 -5.53278953 4.14099332 -2.43745016 3.56499685 -3.34363513
2.86578155 -3.52666132 -2.21655098 5.75024376]
[-1.41323946 -4.16980065 3.12086995 -1.8369904 2.68676878 -2.51993897
2.15980342 -2.65787711 -1.67050918 4.33368556]]

*** 偏微分_重み2 ***

[-4.58963898e+000 -4.58963898e+000 -1.75817457e-148 -4.58963898e+000
-1.41995662e-165 -4.58963898e+000 -1.26898891e-158 -4.58963898e+000
-4.58963898e+000 -2.01648823e-195]

*** 偏微分_バイアス1 ***

[1.12186845 3.31010272 -2.47743262 1.45825363 -2.13283113 2.00039703
-1.7145115 2.10989613 1.32609625 -3.44019908]

*** 偏微分_バイアス2 ***

-4.58963897881718

順伝播開始

*** 総入力1 ***

[151.53571287 504.15587 -358.66494144 266.6276275 -397.72146424
409.86874139 -375.02220357 284.5152206 225.22526469 -490.64982719]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.71314877e-156 1.00000000e+000
1.86966047e-173 1.00000000e+000 1.34873428e-163 1.00000000e+000
1.00000000e+000 8.19384051e-214]

*** 総入力2 ***
-9.874611957051066

*** 出力1 ***
-9.874611957051066

出力合計: -9.874611957051066

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.12197951 -4.07303737 3.34107142 -1.57562935 2.87634105 -2.30676521
2.31219422 -2.45443596 -1.3974016 4.63946053]
[0.5316166 1.92988754 -1.58306726 0.74656508 -1.36286861 1.09299205
-1.09556442 1.16296143 0.66211716 -2.1982703]]

*** 偏微分_重み2 ***

[-1.52062481e+000 -1.52062481e+000 -2.60505652e-156 -1.52062481e+000
-2.84305209e-173 -1.52062481e+000 -2.05091880e-163 -1.52062481e+000
-1.52062481e+000 -1.24597571e-213]

*** 偏微分_バイアス1 ***

[0.27564147 1.0006404 -0.82081521 0.38709156 -0.70664293 0.56671281
-0.56804658 0.60299171 0.34330559 -1.13979598]

*** 偏微分_バイアス2 ***

-1.5206248059648217

順伝播開始

*** 総入力1 ***

[64.99693282 230.84851911 -172.54093097 117.4734432 -190.40207234
186.5753027 -175.60751334 127.97273089 98.24979072 -243.5011973]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.16526788e-075 1.00000000e+000
2.03906298e-083 1.00000000e+000 5.42782674e-077 1.00000000e+000
1.00000000e+000 1.77326514e-106]

*** 総入力2 ***

-9.129505802128302

*** 出力1 ***

-9.129505802128302

出力合計: -9.129505802128302

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.39420922 -9.51345978 8.06013495 -3.48861233 6.93900074 -5.25243386
 5.57803026 -5.60868069 -3.05864853 11.19242102]
 [ 1.93410242 7.68521207 -6.51117972 2.81818878 -5.60549931 4.24304816
 -4.50607313 4.53083332 2.47085321 -9.04151918]]
```

*** 偏微分_重み2 ***

```
[-4.97195237e+000 -4.97195237e+000 -5.79365642e-075 -4.97195237e+000
 -1.01381240e-082 -4.97195237e+000 -2.69868960e-076 -4.97195237e+000
 -4.97195237e+000 -8.81658983e-106]
```

*** 偏微分_バイアス1 ***

```
[ 0.79720511 3.16771761 -2.68380085 1.16161091 -2.31049432 1.74891444
 -1.85732899 1.86753473 1.01844492 -3.72676502]
```

*** 偏微分_バイアス2 ***

-4.9719523710730975

順伝播開始

*** 総入力1 ***

```
[ 336.50216511 1067.26524406 -734.16287149 583.8391505 -820.40763297
 873.80208887 -791.5884247 607.62770921 494.98822091 -960.28993267]
```

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-6.693249140302486

*** 出力1 ***

-6.693249140302486

出力合計: -6.693249140302486

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 2.30979377 14.29139591 -13.56509781 4.15165936 -11.67824414
 7.12014707 -9.38774927 7.71970566 3.42803612 -18.83669277]]
```

```
[ 3.63270451 22.47664665 -21.33436874 6.52947976 -18.36683895
 11.19813843 -14.76448658 12.14108806 5.39140872 -29.62521577]]
```

*** 偏微分_重み2 ***

```
[9.52343086 9.52343086 0.          9.52343086 0.          9.52343086
 0.          9.52343086 9.52343086 0.          ]
```

*** 偏微分_バイアス1 ***

```
[-0.87532037 -5.4158731 5.14063488 -1.57331449 4.42559206 -2.69825378
 3.55758521 -2.92546274 -1.29908994 7.13836062]
```

*** 偏微分_バイアス2 ***

9.523430860996127

順伝播開始

*** 総入力1 ***

```
[ 2.31447951 25.79576553 -30.27169617 8.78802931 -33.27943712
 20.21130381 -27.69700324 10.7793137 5.6578492 -45.11310574]
```

*** 中間層出力1 ***

```
[9.10069147e-01 1.00000000e+00 7.13131134e-14 9.99847475e-01
 3.52309292e-15 9.99999998e-01 9.36147602e-13 9.99979175e-01
 9.96522123e-01 2.55639003e-20]
```

*** 総入力2 ***

-11.252730084761723

*** 出力1 ***

-11.252730084761723

出力合計: -11.252730084761723

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.46359096 -7.4284647 5.73025679 -3.14539295 4.9331998 -4.39913915
 3.96563407 -4.65245336 -2.84405414 7.9571182 ]
 [ 2.78948017 8.41111831 -6.48826773 3.56147243 -5.58577429 4.98106693
 -4.49021684 5.26789009 3.22027186 -9.00970325]]
```

*** 偏微分_重み2 ***

```
[-9.56472342e+00 -1.05098865e+01 -7.49492727e-13 -1.05082835e+01
 -3.70273066e-14 -1.05098865e+01 -9.83880503e-12 -1.05096676e+01
```

-1.04733344e+01 -2.68673690e-19]

*** 偏微分_バイアス1 ***

[2.43902284 7.35438447 -5.67311191 3.11402558 -4.88400356 4.35526882
-3.92608686 4.60605685 2.81569186 -7.87776599]

*** 偏微分_バイアス2 ***

-10.509886478224702

順伝播開始

*** 総入力1 ***

[116.42286376 384.87708211 -274.28363237 205.6295629 -305.48429794
313.78493388 -290.69874574 216.30843478 173.12123307 -365.52284616]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 7.58808145e-120 1.00000000e+000
2.13724887e-133 1.00000000e+000 5.63817859e-127 1.00000000e+000
1.00000000e+000 1.80071468e-159]

*** 総入力2 ***

-6.278733482396983

*** 出力1 ***

-6.278733482396983

出力合計: -6.278733482396983

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.02208094 -0.13418959 0.13048509 -0.036659 0.11233511 -0.06520808
0.09030243 -0.07097607 -0.02981461 0.18119349]
[-0.0016379 -0.00995382 0.00967903 -0.00271927 0.00833271 -0.00483696
0.00669839 -0.00526481 -0.00221157 0.01344044]]

*** 偏微分_重み2 ***

[-1.23648001e-001 -1.23648001e-001 -9.38251103e-121 -1.23648001e-001
-2.64266551e-134 -1.23648001e-001 -6.97149512e-128 -1.23648001e-001
-1.23648001e-001 -2.22654770e-160]

*** 偏微分_バイアス1 ***

[0.0112945 0.0686386 -0.06674372 0.01875125 -0.05745992 0.03335423
-0.04619011 0.03630458 0.01525031 -0.09268131]

*** 偏微分_バイアス2 ***

-0.12364800093912098

順伝播開始

*** 総入力1 ***

[-103.09698511 -324.26729411 213.13360227 -175.72387263 237.11445209
-266.33103884 224.88847782 -188.79432164 -151.4858772 304.31602973]

*** 中間層出力1 ***

[1.68092473e-045 1.48765938e-141 1.00000000e+000 4.83160895e-077
1.00000000e+000 2.15724500e-116 1.00000000e+000 1.01781277e-082
1.62375105e-066 1.00000000e+000]

*** 総入力2 ***

9.792342963752558

*** 出力1 ***

9.792342963752558

出力合計: 9.792342963752558

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.8145477 -11.20220586 6.75800842 -3.03527285 5.81799508
-5.42589095 4.67689135 -5.90888583 -2.46214347 9.38426911]
[1.38473292 8.54872167 -5.15722829 2.31630297 -4.43987739
4.14065159 -3.56906871 4.50923871 1.87893166 -7.16140247]]

*** 偏微分_重み2 ***

[7.02796909e-045 6.21992405e-141 4.18101356e+000 2.02010225e-076
4.18101356e+000 9.01947058e-116 4.18101356e+000 4.25548900e-082
6.78892514e-066 4.18101356e+000]

*** 偏微分_バイアス1 ***

[-0.47656751 -2.94211462 1.77490359 -0.79717519 1.52802123 -1.42504015
1.22832508 -1.55189251 -0.64665017 2.46465702]

*** 偏微分_バイアス2 ***

4.181013561873745

順伝播開始

*** 総入力1 ***

[-125.32029401 -393.08457777 260.78954511 -214.32395254 291.00548159
-324.42642081 276.67268625 -228.36460686 -184.39944789 369.18619744]

*** 中間層出力1 ***

[3.75048852e-055 1.92990953e-171 1.00000000e+000 8.32319508e-094
1.00000000e+000 1.26880727e-141 1.00000000e+000 6.64525086e-100
8.24778469e-081 1.00000000e+000]

*** 総入力2 ***

8.328988217096747

*** 出力1 ***

8.328988217096747

出力合計: 8.328988217096747

誤差逆伝播開始

*** 偏微分_重み1 ***

[-0.74475376 -4.5977766 2.3977474 -1.245782 2.01193309 -2.22697518
1.54358426 -2.42521315 -1.01054969 3.47565653]
[0.53109377 3.27873539 -1.70986543 0.88838365 -1.43473613 1.5880855
-1.10075038 1.72945162 0.72063637 -2.47853671]]

*** 偏微分_重み2 ***

[5.65345422e-055 2.90912907e-171 1.50739142e+000 1.25463128e-093
1.50739142e+000 1.91258920e-141 1.50739142e+000 1.00169941e-099
1.24326399e-080 1.50739142e+000]

*** 偏微分_バイアス1 ***

[-0.17181809 -1.06072804 0.55317127 -0.28740759 0.46416214 -0.51377334
0.35611193 -0.55950774 -0.23313842 0.80184982]

*** 偏微分_バイアス2 ***

1.5073914192855495

順伝播開始

*** 総入力1 ***

[-172.65108871 -520.83860548 339.41454954 -291.31983828 377.72992687
-423.82039893 371.27666018 -302.44103267 -249.67576452 431.11617787]

*** 中間層出力1 ***

```
[1. 04372210e-075 6. 34844963e-227 1. 00000000e+000 3. 02971491e-127
1. 00000000e+000 8. 65245653e-185 1. 00000000e+000 4. 48258371e-132
3. 69141780e-109 1. 00000000e+000]
```

*** 総入力2 ***

7. 801401220346804

*** 出力1 ***

7. 801401220346804

出力合計: 7. 801401220346804

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0. 08061173  0. 49766074 -0. 24485882  0. 13484274 -0. 2030985   0. 24104653
  -0. 15240469  0. 2625037   0. 10938133 -0. 3615311 ]
[-0. 44347063 -2. 73778928  1. 3470459  -0. 7418126   1. 11730914 -1. 3260733
  0. 83842643 -1. 44411596 -0. 60174131  1. 98889702]]
```

*** 偏微分_重み2 ***

```
[8. 44840552e-076 5. 13875071e-227 8. 09449709e-001 2. 45240185e-127
8. 09449709e-001 7. 00372842e-185 8. 09449709e-001 3. 62842608e-132
2. 98801706e-109 8. 09449709e-001]
```

*** 偏微分_バイアス1 ***

```
[-0. 09226409 -0. 56959725  0. 28025299 -0. 15433416  0. 23245624 -0. 27588964
 0. 17443468 -0. 30044843 -0. 12519232  0. 41379016]
```

*** 偏微分_バイアス2 ***

0. 8094497090477333

順伝播開始

*** 総入力1 ***

```
[-277. 16758132 -867. 20355057  582. 34461125 -475. 34032494  649. 39629015
-711. 44615023  624. 29013794 -500. 05710494 -406. 49668424  785. 95130579]
```

*** 中間層出力1 ***

```
[4. 24276394e-121 0. 00000000e+000 1. 00000000e+000 3. 65022684e-207
1. 00000000e+000 0. 00000000e+000 1. 00000000e+000 6. 72912646e-218
2. 88890407e-177 1. 00000000e+000]
```

*** 総入力2 ***

7. 518093822180097

*** 出力1 ***

7. 518093822180097

出力合計: 7. 518093822180097

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 3.42987835 21.1745347 -10.08306257 5.73730665 -8.30623884
    10.2560797 -6.14931183 11.16904202 4.65397109 -15.04724988]
  [ -0.28693974 -1.77143761 0.8435376 -0.47997658 0.69489054
    -0.85801202 0.51444447 -0.93438942 -0.38934595 1.2588359 ] ]
```

*** 偏微分_重み2 ***

```
[ -2.63447191e-120 0.00000000e+000 -6.20932945e+000 -2.26654610e-206
  -6.20932945e+000 0.00000000e+000 -6.20932945e+000 -4.17833631e-217
  -1.79381571e-176 -6.20932945e+000 ]
```

*** 偏微分_バイアス1 ***

```
[ 0.70776251 4.36940915 -2.08066087 1.18390513 -1.71400961 2.11636332
  -1.26892325 2.30475499 0.96035659 -3.10503122 ]
```

*** 偏微分_バイアス2 ***

-6.209329447095419

順伝播開始

*** 総入力1 ***

```
[ 128.88047701 422.83788958 -299.27152783 226.78166153 -333.23340935
  344.31584194 -318.1847566 238.09012698 191.09986462 -395.6422686 ]
```

*** 中間層出力1 ***

```
[ 1.00000000e+000 1.00000000e+000 1.06666212e-130 1.00000000e+000
  1.89919314e-145 1.00000000e+000 6.51802445e-139 1.00000000e+000
  1.00000000e+000 1.49536062e-172 ]
```

*** 総入力2 ***

-6.238342728954626

*** 出力1 ***

-6.238342728954626

出力合計: -6.238342728954626

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.05454273  0.33672243 -0.32536136  0.091236   -0.2796775   0.16309459
    -0.22422082  0.17761273  0.07400854 -0.45299542]
  [ 0.02538607  0.15672224 -0.1514344   0.04246438 -0.13017156  0.07590985
    -0.10436011  0.08266709  0.03444613 -0.2108397  ]]
```

*** 偏微分_重み2 ***

```
[3.62346012e-001 3.62346012e-001 3.86500766e-131 3.62346012e-001
 6.88165060e-146 3.62346012e-001 2.36178016e-139 3.62346012e-001
 3.62346012e-001 5.41837957e-173]
```

*** 偏微分_バイアス1 ***

```
[-0.03248151 -0.20052631  0.19376052 -0.05433323  0.16655468 -0.09712675
 0.13352889 -0.10577266 -0.04407387  0.26976968]
```

*** 偏微分_バイアス2 ***

0.36234601175881487

順伝播開始

*** 総入力1 ***

```
[ -39.27437413 -118.22216306  71.16983651 -64.89143254  79.15154217
 -97.85826217  74.6836931   -71.08722625 -57.14899529 109.73283166]
```

*** 中間層出力1 ***

```
[8.77720083e-18 4.53698083e-52 1.00000000e+00 6.57671353e-29
 1.00000000e+00 3.16735492e-43 1.00000000e+00 1.34032435e-31
 1.51532818e-25 1.00000000e+00]
```

*** 総入力2 ***

9.665994907840375

*** 出力1 ***

9.665994907840375

出力合計: 9.665994907840375

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ -1.95759589 -11.55159536  6.84194583 -3.20515265  5.88127093
```

```
-5.64831669  4.71508568 -6.14192782 -2.61942585  9.5259319 ]  
[ 1.94518538 11.47836206 -6.79857015  3.18483304 -5.84398562  
 5.61250822 -4.68519359  6.10299003  2.60281955 -9.46554063]]
```

*** 偏微分_重み2 ***

```
[6.54464438e-17 3.38296077e-51 7.45641408e+00 4.90386994e-28  
 7.45641408e+00 2.36171098e-42 7.45641408e+00 9.99401336e-31  
 1.12989144e-24 7.45641408e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.8971914 -5.29424486 3.13575185 -1.46896272 2.69546218 -2.58869625  
 2.16098446 -2.81492459 -1.20051659 4.36585722]
```

*** 偏微分_バイアス2 ***

```
7.456414076978289
```

順伝播開始

*** 総入力1 ***

```
[ 199.92964076 644.53809331 -449.1798617 348.71008627 -500.04807378  
 524.59740853 -480.29651701 365.1080956 294.82334907 -588.34191322]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 8.38812091e-196 1.00000000e+000  
 6.79017351e-218 1.00000000e+000 2.56964416e-209 1.00000000e+000  
 1.00000000e+000 3.06445760e-256]
```

*** 総入力2 ***

```
-6.937841260104924
```

*** 出力1 ***

```
-6.937841260104924
```

出力合計: -6.937841260104924

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.44793759 2.64323897 -1.91357019 0.73340384 -1.55815894 1.29244925  
 -1.12671708 1.40539748 0.59937768 -2.90653759]  
 [ 0.61771698 3.64509175 -2.63886051 1.01138199 -2.14873962 1.78231941  
 -1.55377066 1.93807779 0.82655661 -4.00818705]]
```

*** 偏微分_重み2 ***

[2.79923504e+000 2.79923504e+000 2.34803220e-195 2.79923504e+000
1.90072916e-217 2.79923504e+000 7.19303798e-209 2.79923504e+000
2.79923504e+000 8.57813711e-256]

*** 偏微分_バイアス1 ***

[-0.26488924 -1.56308731 1.13159549 -0.43370056 0.92142197 -0.76429375
0.66628753 -0.83108602 -0.3544438 1.71878974]

*** 偏微分_バイアス2 ***

2.7992350431408655

順伝播開始

*** 総入力1 ***

[-3.98600168 -1.85430523 -8.70673396 -3.43783247 -9.33661457 -3.48923986
-8.67272362 -4.77772069 -4.85968362 -1.93394152]

*** 中間層出力1 ***

[1.82351336e-02 1.35368206e-01 1.65440422e-04 3.11338003e-02
8.81295468e-05 2.96199447e-02 1.71162905e-04 8.34493391e-03
7.69329076e-03 1.26314955e-01]

*** 総入力2 ***

0.3076173486223852

*** 出力1 ***

0.3076173486223852

出力合計: 0.3076173486223852

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.00897818 -0.04006814 0.0214383 -0.01304236 0.01745652 -0.02100477
0.01262295 -0.02261798 -0.0111361 0.03243326]
[0.01234516 0.05509439 -0.02947803 0.01793348 -0.02400302 0.02888192
-0.01735677 0.03110012 0.01531233 -0.0445963]]

*** 偏微分_重み2 ***

[9.45010489e-04 7.01526936e-03 8.57372025e-06 1.61346599e-03
4.56719144e-06 1.53501252e-03 8.87027997e-06 4.32464617e-04
3.98694115e-04 6.54609724e-03]

*** 偏微分_バイアス1 ***

[-0.0087736 -0.03915511 0.02094978 -0.01274517 0.01705874 -0.02052613
0.01233531 -0.02210258 -0.01088234 0.03169421]

*** 偏微分_バイアス2 ***
0.05182361197697061

順伝播開始

*** 総入力1 ***
[-73.34903165 -221.27923584 140.61437566 -123.07886803 156.89891997
-182.47207967 151.36611132 -130.35090251 -106.66505245 195.66925973]

*** 中間層出力1 ***
[1.39611214e-32 7.93686354e-97 1.00000000e+00 3.52798536e-54
1.00000000e+00 5.66738478e-80 1.00000000e+00 2.45088158e-57
4.74194280e-47 1.00000000e+00]

*** 総入力2 ***
6.856216107449817

*** 出力1 ***
6.856216107449817

出力合計: 6.856216107449817

誤差逆伝播開始

*** 偏微分_重み1 ***
[[-0.98322664 -4.40802484 1.84606324 -1.42855836 1.50319038 -2.30053676
1.08696844 -2.4765988 -1.21938396 2.80347862]
[0.48207899 2.1612679 -0.90513039 0.70042648 -0.73701879 1.12796012
-0.53294391 1.21428388 0.59786764 -1.37455404]]

*** 偏微分_重み2 ***
[4.56078738e-32 2.59279653e-96 3.26677726e+00 1.15251423e-53
3.26677726e+00 1.85140837e-79 3.26677726e+00 8.00648421e-57
1.54908709e-46 3.26677726e+00]

*** 偏微分_バイアス1 ***
[-0.55315664 -2.47992488 1.03858266 -0.80369725 0.84568472 -1.29426638
0.61152107 -1.39331769 -0.68601715 1.57721806]

*** 偏微分_バイアス2 ***
3.266777256492727

順伝播開始

*** 総入力1 ***

[-126.99990079 -378.05296296 242.27846527 -212.51904994 269.00795535
-306.3124801 266.16089637 -220.61410044 -182.60528991 303.20089594]

*** 中間層出力1 ***

[6.99268372e-056 6.51154911e-165 1.00000000e+000 5.05998594e-093
1.00000000e+000 9.33641517e-134 1.00000000e+000 1.54352457e-096
4.96055452e-080 1.00000000e+000]

*** 総入力2 ***

5.712844067677362

*** 出力1 ***

5.712844067677362

出力合計: 5.712844067677362

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.20592866 0.92322422 -0.33196425 0.29919969 -0.26015237 0.48182833
-0.17297814 0.51870306 0.25538985 -0.53248695]
[-0.68350544 -3.06430768 1.10183482 -0.99308477 0.86348137 -1.59925425
0.57413815 -1.72164654 -0.84767391 1.76739715]]

*** 偏微分_重み2 ***

[6.46088814e-056 6.01634395e-165 9.23949717e-001 4.67517258e-093
9.23949717e-001 8.62637815e-134 9.23949717e-001 1.42613909e-096
4.58330295e-080 9.23949717e-001]

*** 偏微分_バイアス1 ***

[-0.1564505 -0.70140255 0.2522037 -0.22731144 0.19764596 -0.36606017
0.13141695 -0.39407507 -0.19402772 0.40454713]

*** 偏微分_バイアス2 ***

0.923949716970049

順伝播開始

*** 総入力1 ***

[-174.48895792 -540.049832 357.42985122 -297.3696003 398.31507982
-442.47947627 384.33850044 -312.82571344 -254.96068763 480.62715572]

*** 中間層出力1 ***

[1.66114837e-076 2.87963877e-235 1.00000000e+000 7.14534996e-130
1.00000000e+000 6.81718532e-193 1.00000000e+000 1.38522032e-136
1.87059711e-111 1.00000000e+000]

*** 総入力2 ***

5.389461666737844

*** 出力1 ***

5.389461666737844

出力合計: 5.389461666737844

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.32056683 5.92039634 -2.02962845 1.91868966 -1.56911761 3.08983953
-1.01009198 3.32630759 1.63774856 -3.3155283]
[0.12525157 0.56153079 -0.19250381 0.18198162 -0.14882582 0.29306146
-0.09580402 0.31548971 0.15533525 -0.31446733]]

*** 偏微分_重み2 ***

[-4.94070603e-076 -8.56482713e-235 -2.97427137e+000 -2.12522098e-129
-2.97427137e+000 -2.02761591e-192 -2.97427137e+000 -4.12002114e-136
-5.56366342e-111 -2.97427137e+000]

*** 偏微分_バイアス1 ***

[0.50362722 2.25787343 -0.77404347 0.73173452 -0.59841753 1.1783783
-0.3852208 1.2685606 0.62459145 -1.26444968]

*** 偏微分_バイアス2 ***

-2.9742713660766533

順伝播開始

*** 総入力1 ***

[5.07871497 31.82594044 -33.37125824 13.32999372 -37.13476095
25.35140911 -32.81753269 14.28754304 9.4713571 -44.74955502]

*** 中間層出力1 ***

[9.93810640e-01 1.00000000e+00 3.21400606e-15 9.99998375e-01
7.45724196e-17 1.00000000e+00 5.59147831e-15 9.99999376e-01
9.99922979e-01 3.67718251e-20]

*** 総入力2 ***
-8.39482228428962

*** 出力1 ***
-8.39482228428962

出力合計: -8.39482228428962

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.46656933 -2.0857761 1.33793888 -0.67596151 1.07562756 -1.08856115
0.75720129 -1.17187 -0.57700502 2.07039958]
[0.34398552 1.53777095 -0.9864163 0.49836316 -0.79302319 0.80255868
-0.55825846 0.86397943 0.42540595 -1.52643437]]

*** 偏微分_重み2 ***

[-7.65527516e+00 -7.70295150e+00 -2.47573328e-14 -7.70293899e+00
-5.74427732e-16 -7.70295150e+00 -4.30708862e-14 -7.70294670e+00
-7.70235822e+00 -2.83251586e-19]

*** 偏微分_バイアス1 ***

[1.02871372 4.59881597 -2.94994976 1.49039131 -2.37159358 2.40011016
-1.66951255 2.58379338 1.27220745 -4.5649131]

*** 偏微分_バイアス2 ***

-7.70295150433733

順伝播開始

*** 総入力1 ***

[303.06836037 972.50764322 -672.64696859 526.86818161 -748.73092192
792.11080485 -718.94944151 552.70710638 446.42806568 -886.67903028]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 7.46677854e-293 1.00000000e+000
0.00000000e+000 1.00000000e+000 0.00000000e+000 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-4.628015620272368

*** 出力1 ***

-4. 628015620272368

出力合計: -4. 628015620272368

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0. 89064525 15. 72539026 -12. 26513985 2. 80135298 -9. 86048217
    6. 58373139 -6. 94140801 7. 3474385 1. 89427241 -18. 97974616]
  [ 0. 7607404 13. 43176722 -10. 4762108 2. 39276231 -8. 42228389
    5. 62346282 -5. 9289706 6. 27577961 1. 61798376 -16. 21145981]]
```

*** 偏微分_重み2 ***

```
[1. 01818567e+001 1. 01818567e+001 7. 60256694e-292 1. 01818567e+001
 0. 00000000e+000 1. 01818567e+001 0. 00000000e+000 1. 01818567e+001
 1. 01818567e+001 0. 00000000e+000]
```

*** 偏微分_バイアス1 ***

```
[-0. 28315008 -4. 99934796 3. 89928014 -0. 89059401 3. 13480178 -2. 09307137
 2. 20678237 -2. 33586582 -0. 60221888 6. 03395869]
```

*** 偏微分_バイアス2 ***

10. 181856741292982

順伝播開始

*** 総入力1 ***

```
[-23. 48460242 -53. 21283676 22. 56878531 -34. 61102871 24. 53228109
 -42. 1312097 29. 40453292 -34. 586851 -31. 24448666 17. 76691105]
```

*** 中間層出力1 ***

```
[6. 32072302e-11 7. 76173171e-24 1. 00000000e+00 9. 30296142e-16
 1. 00000000e+00 5. 04252562e-19 1. 00000000e+00 9. 53062679e-16
 2. 69582597e-14 9. 99999981e-01]
```

*** 総入力2 ***

6. 2569332323754585

*** 出力1 ***

6. 2569332323754585

出力合計: 6. 2569332323754585

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 2.27044209  8.53254264 -3.20222752  3.07699751 -2.57441071
  4.67362987 -1.81228816  4.99600889  2.69409711 -4.95530151]
 [-3.46220243 -13.01129416  4.8830842  -4.69212067  3.92572489
 -7.12682908  2.76356244 -7.61842561 -4.10823496  7.55635082]]
```

*** 偏微分_重み2 ***

```
[3.90059699e-10 4.78986142e-23 6.17112469e+00 5.74097349e-15
 6.17112469e+00 3.11180543e-18 6.17112469e+00 5.88146863e-15
 1.66362782e-13 6.17112457e+00]
```

*** 偏微分_バイアス1 ***

```
[-1.31780116 -4.95242519  1.85862443 -1.78593892  1.49422944 -2.71265006
 1.05188124 -2.89976404 -1.56369736  2.87613681]
```

*** 偏微分_バイアス2 ***

6.171124687389247

順伝播開始

*** 総入力1 ***

```
[-31.72918523 -82.36491021  44.18323207 -49.82507774  49.10676357
 -67.43956509  51.45890832 -51.09685629 -44.21343412  53.134353 ]
```

*** 中間層出力1 ***

```
[1.66031289e-14 1.69579752e-36 1.00000000e+00 2.29743734e-22
 1.00000000e+00 5.14480618e-30 1.00000000e+00 6.44046568e-23
 6.28564045e-20 1.00000000e+00]
```

*** 総入力2 ***

4.097039646075391

*** 出力1 ***

4.097039646075391

出力合計: 4.097039646075391

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.47370176  1.78021739 -0.47970346  0.64198032 -0.34871666  0.97509939
 -0.18970851  1.04236009  0.56209254 -0.84546228]
 [-1.00785985 -3.78763554  1.02062921 -1.36589357  0.74193839 -2.07464613
 0.40362863 -2.21775169 -1.19592229  1.79882693]]
```

*** 偏微分_重み2 ***

[5.37403559e-14 5.48889084e-36 3.23676075e+00 7.43625502e-22
3.23676075e+00 1.66525067e-29 3.23676075e+00 2.08462465e-22
2.03451143e-19 3.23676075e+00]

*** 偏微分_バイアス1 ***

[-0.69118796 -2.59755171 0.69994515 -0.93672666 0.50881964 -1.42278753
0.27680759 -1.52092899 -0.82016075 1.23363136]

*** 偏微分_バイアス2 ***

3.2367607543228187

順伝播開始

*** 総入力1 ***

[-308.98469302 -971.63826098 651.00794207 -529.80038087 723.63197914
-791.91545292 695.84820811 -559.22065405 -452.60646802 872.6489967]

*** 中間層出力1 ***

[6.45138303e-135 0.00000000e+000 1.00000000e+000 8.13988138e-231
1.00000000e+000 0.00000000e+000 1.00000000e+000 1.36005283e-243
2.72589086e-197 1.00000000e+000]

*** 総入力2 ***

2.964173382062418

*** 出力1 ***

2.964173382062418

出力合計: 2.964173382062418

誤差逆伝播開始

*** 偏微分_重み1 ***

[[11.17493201 41.99648357 -8.98532497 15.14473243 -5.8952615
23.00322754 -2.14415608 24.589951 13.2601277 -17.61381298]
[2.21170064 8.31178654 -1.77834182 2.99738865 -1.16676805
4.55271253 -0.42436333 4.86675089 2.62439475 -3.48605981]]

*** 偏微分_重み2 ***

[-7.69697955e-134 0.00000000e+000 -1.19307434e+001 -9.71148360e-230
-1.19307434e+001 0.00000000e+000 -1.19307434e+001 -1.62264413e-242
-3.25219044e-196 -1.19307434e+001]

*** 偏微分_バイアス1 ***

[2.54772805 9.57461032 -2.0485283 3.45278697 -1.34403709 5.24441384
-0.48883757 5.60616458 3.02312348 -4.01570277]

*** 偏微分_バイアス2 ***

-11.930743391132228

順伝播開始

*** 総入力1 ***

[-174.86640873 -547.44872785 357.77057175 -297.42902273 396.88362247
-444.49692406 380.50285636 -316.8490576 -255.05762945 486.91394288]

*** 中間層出力1 ***

[1.13889483e-076 1.76213172e-238 1.00000000e+000 6.73312488e-130
1.00000000e+000 9.06647895e-194 1.00000000e+000 2.47857857e-138
1.69777042e-111 1.00000000e+000]

*** 総入力2 ***

7.139933568958698

*** 出力1 ***

7.139933568958698

出力合計: 7.139933568958698

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.83462078 3.13658624 -1.31285533 1.13111278 -1.08206814 1.71803924
-0.80190979 1.83654667 0.99035754 -1.95729016]
[-0.11996373 -0.45083537 0.18870249 -0.16257983 0.15553043 -0.24694136
0.11526203 -0.26397495 -0.14234846 0.28132995]]

*** 偏微分_重み2 ***

[-1.43711198e-076 -2.22354211e-238 -1.26184785e+000 -8.49617913e-130
-1.26184785e+000 -1.14405169e-193 -1.26184785e+000 -3.12758902e-138
-2.14232794e-111 -1.26184785e+000]

*** 偏微分_バイアス1 ***

[0.26945891 1.01265286 -0.42385785 0.36518192 -0.34934777 0.55467225
-0.25889811 0.5929326 0.31973882 -0.63191487]

*** 偏微分_バイアス2 ***

-1.2618478454502924

順伝播開始

*** 総入力1 ***

[1.91591928 31.5035064 -31.30271848 8.57613353 -34.27069219
24.30109697 -25.03916357 13.92303255 5.62700595 -59.41610571]

*** 中間層出力1 ***

[8.71682688e-01 1.00000000e+00 2.54332637e-14 9.99811483e-01
1.30745722e-15 1.00000000e+00 1.33545553e-11 9.99999102e-01
9.96413573e-01 1.57004881e-26]

*** 総入力2 ***

-9.23873593946951

*** 出力1 ***

-9.23873593946951

出力合計: -9.23873593946951

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3.67880559 -13.07240777 9.30396176 -4.71457007 7.74881876
-7.16030355 5.86099174 -7.65421227 -4.13436718 13.64643978]
[4.65405204 16.53788561 -11.7704296 5.9643963 -9.80302027
9.05849046 -7.41473282 9.68333372 5.23038239 -17.26409274]]

*** 偏微分_重み2 ***

[-6.99646297e+00 -8.02638743e+00 -2.04137228e-13 -8.02487432e+00
-1.04941582e-14 -8.02638743e+00 -1.07188835e-10 -8.02638022e+00
-7.99760138e+00 -1.26018200e-25]

*** 偏微分_バイアス1 ***

[1.42559065 5.06574806 -3.60542044 1.82696444 -3.00277992 2.77472172
-2.27121951 2.96611853 1.60212739 -5.28819381]

*** 偏微分_バイアス2 ***

-8.02638743085998

順伝播開始

*** 総入力1 ***

```
[ -51.59820486 -138.91773161 84.18010759 -82.69329754 92.52224801  
-111.9746876 96.25969486 -83.63163598 -72.0709245 93.14444816]
```

*** 中間層出力1 ***

```
[3.90107548e-23 4.66439930e-61 1.00000000e+00 1.22111675e-36  
1.00000000e+00 2.34428854e-49 1.00000000e+00 4.77795419e-37  
5.01181674e-32 1.00000000e+00]
```

*** 総入力2 ***

8.143427435034017

*** 出力1 ***

8.143427435034017

出力合計: 8.143427435034017

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.39626166 10.14654067 -5.41414924 2.28304891 -4.50918246  
4.5841094 -3.41062064 5.04880471 1.73843166 -7.94111836]  
[ -2.46945711 -17.94538066 9.57557578 -4.03784729 7.97503291  
-8.10755024 6.03209385 -8.92941992 -3.07462601 14.04482537]]
```

*** 偏微分_重み2 ***

```
[2.71534961e-22 3.24666233e-60 6.96051543e+00 8.49960194e-36  
6.96051543e+00 1.63174565e-48 6.96051543e+00 3.32570238e-36  
3.48848278e-31 6.96051543e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.63413782 -4.60823736 2.45893508 -1.03688849 2.04792784 -2.08195728  
1.54899585 -2.29300717 -0.78954059 3.60660441]
```

*** 偏微分_バイアス2 ***

6.96051542671937

順伝播開始

*** 総入力1 ***

```
[ 173.00978321 576.82403835 -399.05605858 303.79661884 -442.71377752  
465.83903199 -418.38459059 325.33075187 256.60089787 -543.91945497]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 4.92216069e-174 1.00000000e+000
```


5.39323521e-193 1.00000000e+000 1.98555075e-182 1.00000000e+000
1.00000000e+000 6.00872192e-237]

*** 総入力2 ***

-5.980718414647089

*** 出力1 ***

-5.980718414647089

出力合計: -5.980718414647089

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.93728542 6.81119085 -4.28273334 1.5325698 -3.30053781 3.07723046
-2.10822606 3.38917209 1.166978 -7.02535091]
[-0.32252073 -2.34373668 1.47369226 -0.5273586 1.13571792 -1.05887767
0.72544242 -1.16621705 -0.40155814 2.41742934]]

*** 偏微分_重み2 ***

[3.26936845e+000 3.26936845e+000 1.60923568e-173 3.26936845e+000
1.76324730e-192 3.26936845e+000 6.49149699e-182 3.26936845e+000
3.26936845e+000 1.96447258e-236]

*** 偏微分_バイアス1 ***

[-0.23424805 -1.70226501 1.07034838 -0.38302259 0.82487632 -0.76906694
0.52689163 -0.84702795 -0.29165323 1.75578828]

*** 偏微分_バイアス2 ***

3.269368446244367

順伝播開始

*** 総入力1 ***

[-373.21201802 -1173.65875943 781.53464156 -638.52431027
867.01593097 -951.68716294 834.75323156 -675.02282491
-545.13267834 1038.83340978]

*** 中間層出力1 ***

[8.24289928e-163 0.00000000e+000 1.00000000e+000 4.92510496e-278
1.00000000e+000 0.00000000e+000 1.00000000e+000 6.93924119e-294
1.78601825e-237 1.00000000e+000]

*** 総入力2 ***

5. 478391244445133

*** 出力1 ***

5. 478391244445133

出力合計: 5. 478391244445133

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 6.84197136 33.17991915 -11.87724588 9.51116126 -9.15333642
    16.43725025 -5.84671454 17.83596229 7.87188772 -19.48330972]
  [ 5.08796884 24.67394057 -8.83240425 7.07288727 -6.80679413
    12.2234094 -4.34785529 13.2635487 5.85385663 -14.4885834 ] ]
```

*** 偏微分_重み2 ***

```
[ -9.81456650e-162 0.00000000e+000 -1.19066923e+001 -5.86417091e-277
  -1.19066923e+001 0.00000000e+000 -1.19066923e+001 -8.26234094e-293
  -2.12655697e-236 -1.19066923e+001 ]
```

*** 偏微分_バイアス1 ***

```
[ 1.76598817 8.56410258 -3.06564798 2.45493548 -2.36257695 4.24263533
  -1.50910142 4.60365832 2.03182092 -5.02885683 ]
```

*** 偏微分_バイアス2 ***

-11.906692261940927

順伝播開始

*** 総入力1 ***

```
[ 364.67003947 1173.29697559 -801.34853026 630.79837836
  -887.45271568 945.93740021 -851.7568695 666.91236503
  534.63435724 -1051.7692344 ]
```

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-6.749240494970964

*** 出力1 ***

-6.749240494970964

出力合計: -6.749240494970964

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 3.01177007 14.6054817 -13.83313827 4.18672183 -11.89451465
    7.23551967 -9.54117091 7.85121928 3.46512936 -19.24642209]
  [ 5.72313841 27.75417488 -26.28652355 7.95584919 -22.60263965
    13.74934989 -18.13068076 14.91933764 6.58463776 -36.57315626]]
```

*** 偏微分_重み2 ***

```
[10.29933202 10.29933202 0. 10.29933202 0. 10.29933202
 0. 10.29933202 10.29933202 0.]
```

*** 偏微分_バイアス1 ***

```
[-1.20136668 -5.82598894 5.51790842 -1.67004386 4.74460974 -2.88618057
 3.80588311 -3.13177734 -1.38220743 7.6772163 ]
```

*** 偏微分_バイアス2 ***

10.299332022783682

順伝播開始

*** 総入力1 ***

```
[ 380.95125797 1236.64149817 -845.3885571 658.94840642
 -933.53481636 993.00842186 -891.54474331 702.30428731
 558.52005155 -1121.70737653]
```

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-11.795913186134968

*** 出力1 ***

-11.795913186134968

出力合計: -11.795913186134968

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 6.58903828 18.0391123 -13.66175581 7.74943324 -11.74715032
    10.76045871 -9.42296279 11.36853024 7.03678077 -19.007973 ]
  [ 5.04839087 13.82121124 -10.46736723 5.93746255 -9.00043435
    8.24445074 -7.21968781 8.71034314 5.39144232 -14.56353316]]
```

*** 偏微分_重み2 ***

[6.3642343 6.3642343 0. 6.3642343 0. 6.3642343 0.
6.3642343 6.3642343 0.]

*** 偏微分_バイアス1 ***

[-1.64447434 -4.50215283 3.40966404 -1.93408258 2.93182199 -2.68556616
2.35175755 -2.83732701 -1.7562207 4.74395846]

*** 偏微分_バイアス2 ***

6.36423430024524

順伝播開始

*** 総入力1 ***

[-374.96838112 -1184.52019226 787.79807676 -638.27654533
868.66831015 -951.6144847 833.78742437 -680.94225009
-544.94037659 1047.27044634]

*** 中間層出力1 ***

[1.42331554e-163 0.00000000e+000 1.00000000e+000 6.30984128e-278
1.00000000e+000 0.00000000e+000 1.00000000e+000 1.86439655e-296
2.16471876e-237 1.00000000e+000]

*** 総入力2 ***

8.479283893512433

*** 出力1 ***

8.479283893512433

出力合計: 8.479283893512433

誤差逆伝播開始

*** 偏微分_重み1 ***

[[13.17411099 30.27165502 -12.61745268 14.90684249 -10.84919943
19.40298291 -8.70267254 20.31097092 13.84269157 -17.55500561]
[12.15539239 27.93082928 -11.64177897 13.75413642 -10.01025999
17.90260237 -8.02971825 18.74037811 12.77227343 -16.1975242]]

*** 偏微分_重み2 ***

[-1.21413669e-162 0.00000000e+000 -8.53034100e+000 -5.38250978e-277
-8.53034100e+000 0.00000000e+000 -8.53034100e+000 -1.59039383e-295
-1.84657892e-236 -8.53034100e+000]

*** 偏微分_バイアス1 ***

[3.75276458 8.62315451 -3.59419543 4.2463488 -3.09049251 5.52711503
-2.47903492 5.78576362 3.9432158 -5.000702]

*** 偏微分_バイアス2 ***

-8.530341001052433

順伝播開始

*** 総入力1 ***

[217.34832069 718.77403093 -492.05609069 376.63837219 -542.16650683
574.55863795 -511.92179103 406.95227147 318.82687389 -667.99959479]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.00795986e-214 1.00000000e+000
3.46798980e-236 1.00000000e+000 4.73359380e-223 1.00000000e+000
1.00000000e+000 7.78864785e-291]

*** 総入力2 ***

-14.317264123181465

*** 出力1 ***

-14.317264123181465

出力合計: -14.317264123181465

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-4.92166352 -11.30906673 9.7447314 -5.56898777 8.67667217
-7.24868291 7.38012833 -7.58789453 -5.17143587 12.72710905]
[1.02073987 2.34547023 -2.02103126 1.15499319 -1.79951863
1.50335747 -1.5306189 1.57370906 1.07254199 -2.63956842]]

*** 偏微分_重み2 ***

[-3.35454791e+000 -3.35454791e+000 -6.73579755e-214 -3.35454791e+000
-1.16335379e-235 -3.35454791e+000 -1.58790672e-222 -3.35454791e+000
-3.35454791e+000 -2.61273924e-290]

*** 偏微分_バイアス1 ***

[1.16061664 2.66688101 -2.29798265 1.31326732 -2.04611511 1.7093696
-1.74036679 1.78936179 1.21951744 -3.00128086]

*** 偏微分_バイアス2 ***

-3.3545479138996264

順伝播開始

*** 総入力1 ***

[-482.01062015 -1519.76068063 1009.21546775 -817.57154909
1111.35057288 -1218.10102158 1065.68039337 -874.16998627
-698.08219626 1340.04828373]

*** 中間層出力1 ***

[4.62857656e-210 0.00000000e+000 1.00000000e+000 0.00000000e+000
1.00000000e+000 0.00000000e+000 1.00000000e+000 0.00000000e+000
6.71049027e-304 1.00000000e+000]

*** 総入力2 ***

11.699721597853758

*** 出力1 ***

11.699721597853758

出力合計: 11.699721597853758

誤差逆伝播開始

*** 偏微分_重み1 ***

[[16.05585893 40.10211599 -22.6899091 18.49279999 -20.20300968
24.81624317 -17.18410022 26.0932519 16.99616126 -29.63416185]
[16.50325959 41.21957181 -23.32216928 19.00810664 -20.76597177
25.50775419 -17.66293961 26.82034711 17.46976368 -30.45992542]]

*** 偏微分_重み2 ***

[-4.56892737e-209 0.00000000e+000 -9.87112843e+000 0.00000000e+000
-9.87112843e+000 0.00000000e+000 -9.87112843e+000 0.00000000e+000
-6.62401113e-303 -9.87112843e+000]

*** 偏微分_バイアス1 ***

[3.76313849 9.39904971 -5.31801323 4.33430362 -4.73513897 5.81637894
-4.02757331 6.11568157 3.98352457 -6.9455926]

*** 偏微分_バイアス2 ***

-9.87112842755666

順伝播開始

*** 総入力1 ***

[55.34092897 210.42730369 -148.28277507 102.58429026 -164.81683342
168.35062006 -149.14968026 115.02545371 85.27107613 -220.48303075]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 3.99584862e-65 1.00000000e+00
2.63608081e-72 1.00000000e+00 1.67925592e-65 1.00000000e+00
1.00000000e+00 1.75969091e-96]

*** 総入力2 ***

-11.982556655441682

*** 出力1 ***

-11.982556655441682

出力合計: -11.982556655441682

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-9.13133364 -22.80698917 26.12502555 -10.51727767 23.83827307
-14.11356422 21.06232699 -14.83982825 -9.66610505 32.51040128]
[8.8650165 22.14181886 -25.36308405 10.21053921 -23.14302516
13.70193934 -20.44804009 14.40702174 9.3841912 -31.56222904]]

*** 偏微分_重み2 ***

[-7.90499346e+00 -7.90499346e+00 -3.15871572e-64 -7.90499346e+00
-2.08382016e-71 -7.90499346e+00 -1.32745070e-64 -7.90499346e+00
-7.90499346e+00 -1.39103452e-95]

*** 偏微分_バイアス1 ***

[2.3700351 5.91954769 -6.78074311 2.72975649 -6.18721714 3.66317166
-5.46672111 3.85167329 2.50883487 -8.4380656]

*** 偏微分_バイアス2 ***

-7.904993457546533

順伝播開始

*** 総入力1 ***

[-26.65988777 -87.43411106 38.58187889 -46.16677076 45.74192626
-73.31850563 41.66132731 -52.15447981 -40.82458147 74.63376414]

*** 中間層出力1 ***

```
[2. 64093585e-12 1. 06622298e-38 1. 00000000e+00 8. 91304727e-21
1. 00000000e+00 1. 43938702e-32 1. 00000000e+00 2. 23664580e-23
1. 86255686e-18 1. 00000000e+00]
```

*** 総入力2 ***

15. 70796608952428

*** 出力1 ***

15. 70796608952428

出力合計: 15. 70796608952428

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -9. 47519625 -31. 74810848 26. 31632893 -11. 73241966 24. 01283146
-17. 58952642 21. 2165582 -18. 7723593 -10. 34615389 32. 74846228]
[ 10. 81700553 36. 24404769 -30. 04305851 13. 39388071 -27. 41335626
20. 08042888 -24. 22109487 21. 43076607 11. 81130193 -37. 38606441]]
```

*** 偏微分_重み2 ***

```
[3. 60782788e-11 1. 45658554e-37 1. 36611719e+01 1. 21762671e-19
1. 36611719e+01 1. 96637136e-31 1. 36611719e+01 3. 05552028e-22
2. 54447095e-17 1. 36611719e+01]
```

*** 偏微分_バイアス1 ***

```
[-3. 31815376 -11. 11798665 9. 21581183 -4. 10861911 8. 40914159
-6. 15974082 7. 4299044 -6. 57396141 -3. 62315761 11. 46830421]
```

*** 偏微分_バイアス2 ***

13. 661171936629259

順伝播開始

*** 総入力1 ***

```
[ 35. 83170186 127. 81944692 -98. 30244355 64. 59370538 -107. 57580035
100. 51517799 -100. 83923957 69. 46197175 53. 16502539 -126. 73392411]
```

*** 中間層出力1 ***

```
[1. 00000000e+00 1. 00000000e+00 2. 03138018e-43 1. 00000000e+00
1. 90731982e-47 1. 00000000e+00 1. 60721766e-44 1. 00000000e+00
1. 00000000e+00 9. 12338682e-56]
```

*** 総入力2 ***

-9.065391896810455

*** 出力1 ***

-9.065391896810455

出力合計: -9.065391896810455

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.24700962 -0.82764389 0.80005905 -0.30585335 0.70296924 -0.45854272
0.58510948 -0.48937808 -0.26971468 1.0711662]
[-0.88913891 -2.97919725 2.87990252 -1.10095354 2.53041681 -1.65057609
2.10616737 -1.76157144 -0.97086833 3.85578318]]

*** 偏微分_重み2 ***

[-7.24500368e+00 -7.24500368e+00 -1.47173569e-42 -7.24500368e+00
-1.38185391e-46 -7.24500368e+00 -1.16442979e-43 -7.24500368e+00
-7.24500368e+00 -6.60989711e-55]

*** 偏微分_バイアス1 ***

[1.38393924 4.63710218 -4.48255054 1.71362741 -3.9385782 2.56911153
-3.27823655 2.74187511 1.51115059 -6.00150279]

*** 偏微分_バイアス2 ***

-7.245003682634011

順伝播開始

*** 総入力1 ***

[435.7450535 1392.05944482 -947.562729 740.49627851
-1039.2399206 1108.02757967 -992.06352809 795.40628724
629.45563377 -1247.63880275]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-5.515340092319789

*** 出力1 ***

-5.515340092319789

出力合計: -5.515340092319789

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 3.93252529 23.27133791 -26.64705294 5.89239565 -23.41334486
    10.97792237 -19.48786568 12.00493595 4.6887482 -35.67664457]
  [ 6.28571079 37.19668384 -42.59239442 9.41834882 -37.42366638
    17.54700607 -31.14921802 19.18857475 7.49445025 -57.02520728]]
```

*** 偏微分_重み2 ***

```
[13.81014678 13.81014678 0. 13.81014678 0. 13.81014678
 0. 13.81014678 13.81014678 0. ]
```

*** 偏微分_バイアス1 ***

```
[-1.26097715 -7.46203096 8.54446508 -1.88941603 7.50756596 -3.52010688
 6.24884816 -3.84942216 -1.50346252 11.4398333 ]
```

*** 偏微分_バイアス2 ***

13.810146777563105

順伝播開始

*** 総入力1 ***

```
[ 172.3509017 568.85839712 -393.56649062 297.95265896 -432.09117644
 452.33046536 -409.2144032 321.46837911 251.80116495 -524.9872246 ]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.19191383e-171 1.00000000e+000
 2.21404474e-188 1.00000000e+000 1.90740437e-178 1.00000000e+000
 1.00000000e+000 1.00217897e-228]
```

*** 総入力2 ***

-12.282312013325711

*** 出力1 ***

-12.282312013325711

出力合計: -12.282312013325711

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.47006584 -6.41182915 5.43137666 -2.86953944 4.77226113 -3.90610477
 3.97214428 -4.1154374 -2.62420414 7.2718471 ]
 [-0.96339393 -2.50079054 2.11838698 -1.11919967 1.8613137 -1.52348879
```

1. 54924602 -1. 6051343 -1. 02351213 2. 8362213]]

*** 偏微分_重み2 ***

[-4. 01269390e+000 -4. 01269390e+000 -4. 78278536e-171 -4. 01269390e+000
-8. 88428385e-188 -4. 01269390e+000 -7. 65382989e-178 -4. 01269390e+000
-4. 01269390e+000 -4. 02143745e-228]

*** 偏微分_バイアス1 ***

[1. 12907093 2. 93085705 -2. 4826907 1. 31167093 -2. 18140796 1. 78548655
-1. 81567331 1. 88117282 1. 19952778 -3. 32397259]

*** 偏微分_バイアス2 ***

-4. 012693901612979

順伝播開始

*** 総入力1 ***

[-227. 80211497 -713. 70431237 467. 5833436 -382. 83079589 513. 00622654
-569. 50626842 491. 05197186 -412. 67491677 -328. 03090965 626. 19117589]

*** 中間層出力1 ***

[1. 16626838e-099 0. 00000000e+000 1. 00000000e+000 5. 47895640e-167
1. 00000000e+000 4. 64055813e-248 1. 00000000e+000 5. 99184854e-180
3. 45132650e-143 1. 00000000e+000]

*** 総入力2 ***

10. 747884468174476

*** 出力1 ***

10. 747884468174476

出力合計: 10. 747884468174476

誤差逆伝播開始

*** 偏微分_重み1 ***

[-0. 50230632 -1. 49964268 0. 84996445 -0. 60338026 0. 74681845 -0. 86564976
0. 62160694 -0. 91861464 -0. 54130606 1. 13798249]
[-0. 27087354 -0. 80869681 0. 45835155 -0. 32537864 0. 40272907 -0. 46681
0. 33520755 -0. 49537182 -0. 29190452 0. 61366806]]

*** 偏微分_重み2 ***

[8. 27735252e-100 0. 00000000e+000 7. 09729650e-001 3. 88857781e-167
7. 09729650e-001 3. 29354170e-248 7. 09729650e-001 4. 25259257e-180

2. 44950875e-143 7. 09729650e-001]

*** 偏微分_バイアス1 ***

[-0. 20408791 -0. 60930737 0. 345342 -0. 24515442 0. 3034336 -0. 35171497
0. 25255995 -0. 37323469 -0. 21993357 0. 46236422]

*** 偏微分_バイアス2 ***

0. 7097296500637302

順伝播開始

*** 総入力1 ***

[-233. 82759376 -723. 6909079 481. 85854574 -388. 51509276 524. 61251434
-572. 91622712 503. 83933453 -419. 62928798 -333. 21432489 631. 83464986]

*** 中間層出力1 ***

[2. 81816433e-102 0. 00000000e+000 1. 00000000e+000 1. 86225469e-169
1. 00000000e+000 1. 53335943e-249 1. 00000000e+000 5. 71894320e-183
1. 93578629e-145 1. 00000000e+000]

*** 総入力2 ***

10. 499479090652171

*** 出力1 ***

10. 499479090652171

出力合計: 10. 499479090652171

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 26900144 -0. 80310763 0. 44604614 -0. 32312983 0. 39080809 -0. 46358372
0. 32375324 -0. 49194814 -0. 28988707 0. 60028921]
[-1. 00198049 -2. 99142705 1. 6614392 -1. 20359873 1. 4556877 -1. 7267634
1. 2059208 -1. 83241563 -1. 0797756 2. 23596602]]

*** 偏微分_重み2 ***

[2. 90997786e-102 0. 00000000e+000 1. 03257920e+000 1. 92292545e-169
1. 03257920e+000 1. 58331505e-249 1. 03257920e+000 5. 90526178e-183
1. 99885265e-145 1. 03257920e+000]

*** 偏微分_バイアス1 ***

[-0. 29692564 -0. 88647573 0. 4923488 -0. 35667293 0. 43137666 -0. 5117069
0. 35736105 -0. 54301574 -0. 31997934 0. 66260336]

*** 偏微分_バイアス2 ***

1. 0325791965296194

順伝播開始

*** 総入力1 ***

[-261.81433013 -822.40640763 540.99014316 -440.68030282 593.53034229
-656.14389964 567.90106538 -474.90422212 -377.29630115 723.72502336]

*** 中間層出力1 ***

[1.97460913e-114 0.00000000e+000 1.00000000e+000 4.12074939e-192
1.00000000e+000 1.09729918e-285 1.00000000e+000 5.64568834e-207
1.38770888e-164 1.00000000e+000]

*** 総入力2 ***

10.138076371866806

*** 出力1 ***

10.138076371866806

出力合計: 10.138076371866806

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.15142541 3.437597 -1.85233808 1.38311492 -1.61589884 1.98430936
-1.32887933 2.10571957 1.24082363 -2.51255532]
[0.66193899 1.97622829 -1.06488426 0.79513417 -0.92895852 1.14075277
-0.76395486 1.21054987 0.71333282 -1.44443427]]

*** 偏微分_重み2 ***

[-2.83492918e-114 0.00000000e+000 -1.43569132e+000 -5.91612412e-192
-1.43569132e+000 -1.57538290e-285 -1.43569132e+000 -8.10546572e-207
-1.99232159e-164 -1.43569132e+000]

*** 偏微分_バイアス1 ***

[0.41284345 1.23255002 -0.66415561 0.4959157 -0.57938035 0.7114739
-0.47646953 0.75500552 0.44489717 -0.90087643]

*** 偏微分_バイアス2 ***

-1.435691315615939

順伝播開始

*** 総入力1 ***

[229.83009633 748.09323508 -517.96414144 393.42856946 -566.56191581
592.79310586 -538.43096023 424.67004661 333.27385414 -683.57591032]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.12468668e-225 1.00000000e+000
8.81629890e-247 1.00000000e+000 1.45346669e-234 1.00000000e+000
1.00000000e+000 1.33891864e-297]

*** 総入力2 ***

-10.33755522870377

*** 出力1 ***

-10.33755522870377

出力合計: -10.33755522870377

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.04450068 0.13285742 -0.12069136 0.0534551 -0.10591693 0.07669026
-0.08798188 0.08138257 0.04795577 -0.16194649]
[0.0536029 0.16003223 -0.14537771 0.06438886 -0.1275813 0.09237658
-0.1059778 0.09802865 0.0577647 -0.19507122]]

*** 偏微分_重み2 ***

[1.01956722e-001 1.01956722e-001 1.14669367e-226 1.01956722e-001
8.98880937e-248 1.01956722e-001 1.48190700e-235 1.01956722e-001
1.01956722e-001 1.36511756e-298]

*** 偏微分_バイアス1 ***

[-0.02305739 -0.06883815 0.06253448 -0.02769699 0.05487933 -0.03973595
0.04558654 -0.0421672 -0.02484759 0.08391023]

*** 偏微分_バイアス2 ***

0.10195672212237561

順伝播開始

*** 総入力1 ***

[-350.41712072 -1105.04280908 731.67537219 -590.64870239
802.14285228 -880.49491214 766.82724263 -636.88627889
-505.08648744 976.70807858]

*** 中間層出力1 ***

[6.54301790e-153 0.00000000e+000 1.00000000e+000 3.05160142e-257
1.00000000e+000 0.00000000e+000 1.00000000e+000 2.53398173e-277
4.40276616e-220 1.00000000e+000]

*** 総入力2 ***

10.633431361783819

*** 出力1 ***

10.633431361783819

出力合計: 10.633431361783819

誤差逆伝播開始

*** 偏微分_重み1 ***

[[5.03764277 14.97827451 -8.39827733 6.04506499 -7.37020251
8.65915249 -6.12219676 9.18706307 5.4263602 -11.26900515]
[3.34057768 9.93244098 -5.56909234 4.0086227 -4.8873521
5.74208471 -4.05977056 6.09215445 3.59834521 -7.4727385]]

*** 偏微分_重み2 ***

[-3.18070944e-152 0.00000000e+000 -4.86122687e+000 -1.48345268e-256
-4.86122687e+000 0.00000000e+000 -4.86122687e+000 -1.23182601e-276
-2.14028452e-219 -4.86122687e+000]

*** 偏微分_バイアス1 ***

[1.40655466 4.18206743 -2.34487371 1.6878359 -2.05782608 2.41771237
-1.70937177 2.5651097 1.51508802 -3.14640644]

*** 偏微分_バイアス2 ***

-4.861226866935452

順伝播開始

*** 総入力1 ***

[47.10017045 186.51238969 -121.09886225 94.12703139 -141.33848562
156.84377525 -128.7305168 100.08157782 77.50252068 -188.1237241]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.55524391e-53 1.00000000e+00
4.14453312e-62 1.00000000e+00 1.23893038e-56 1.00000000e+00
1.00000000e+00 1.99023660e-82]

*** 総入力2 ***

-10.047228141858254

*** 出力1 ***

-10.047228141858254

出力合計: -10.047228141858254

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-5.32154136 -15.82238181 16.33316453 -6.38573731 14.57728359
  -9.14714286 12.44577576 -9.70480408 -5.73216513 21.23616984]
 [ 5.17748438 15.39406142 -15.89101698 6.21287196 -14.18266868
  8.89952479 -12.10886191 9.44208981 5.57699234 -20.6612953 ]]
```

*** 偏微分_重み2 ***

```
[-5.78814239e+00 -5.78814239e+00 -1.47901156e-52 -5.78814239e+00
 -2.39891478e-61 -5.78814239e+00 -7.17110546e-56 -5.78814239e+00
 -5.78814239e+00 -1.15197728e-81]
```

*** 偏微分_バイアス1 ***

```
[ 1.31710317 3.91610396 -4.04252476 1.580496 -3.60793708 2.26395512
 -3.08038021 2.40197855 1.41873422 -5.25603855]
```

*** 偏微分_バイアス2 ***

-5.788142388258892

順伝播開始

*** 総入力1 ***

```
[ 42.72325271 177.0393909 -107.86937399 90.27396633 -130.67031722
 153.40366173 -118.82891026 93.73463603 73.88987909 -176.22875171]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.42208682e-47 1.00000000e+00
 1.78074726e-57 1.00000000e+00 2.47320426e-52 1.00000000e+00
 1.00000000e+00 2.91625556e-77]
```

*** 総入力2 ***

-7.211038371611396

*** 出力1 ***

-7.211038371611396

出力合計: -7.211038371611396

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.83618394 -7.41115333  8.67139089 -2.40117299  7.73918146
 -3.86722244  6.6075491  -4.16328867 -2.05418696 11.27443059]
 [ 1.86026601  7.5083527 -8.78511864  2.43266505 -7.84068302
  3.91794216 -6.69420897  4.21789138  2.08112821 -11.42229793]]
```

*** 偏微分_重み2 ***

```
[-2.65177598e+00 -2.65177598e+00 -3.77105566e-47 -2.65177598e+00
 -4.72214279e-57 -2.65177598e+00 -6.55838364e-52 -2.65177598e+00
 -2.65177598e+00 -7.73325643e-77]
```

*** 偏微分_バイアス1 ***

```
[ 0.39217304  1.58287766 -1.8520398  0.51284367 -1.65293806  0.82596321
 -1.41124348  0.88919718  0.43873423 -2.40799825]
```

*** 偏微分_バイアス2 ***

-2.6517759765231883

順伝播開始

*** 総入力1 ***

```
[-13.82190373 -23.12432032  9.21061775 -15.833587  7.00232524
 -16.05186392  9.48994081 -18.13918277 -15.69306211  6.6743764 ]
```

*** 中間層出力1 ***

```
[9.93626235e-07 9.06223432e-11 9.99900038e-01 1.32910863e-07
 9.99091063e-01 1.06847418e-07 9.99924397e-01 1.32511329e-08
 1.52964149e-07 9.98738733e-01]
```

*** 総入力2 ***

12.918366355866425

*** 出力1 ***

12.918366355866425

出力合計: 12.918366355866425

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1. 57036931  7. 90037721 -6. 08990223  2. 21187689 -5. 43724464
   3. 87647879 -4. 64041762  4. 21264235  1. 81789728 -7. 92226028]
 [-2. 13654644 -10. 74876001  8. 28554078 -3. 0093416  7. 3975756
  -5. 27409503  6. 3134625 -5. 73145819 -2. 47331754 10. 77853274]]
```

*** 偏微分_重み2 ***

```
[1. 30696299e-05 1. 19199800e-09 1. 31521522e+01 1. 74823866e-06
 1. 31415114e+01 1. 40541399e-06 1. 31524726e+01 1. 74298340e-07
 2. 01200889e-06 1. 31368770e+01]
```

*** 偏微分_バイアス1 ***

```
[-1. 86309555 -9. 37305482  7. 22509646 -2. 62418398  6. 45077959 -4. 59907764
 5. 50541924 -4. 9979041 -2. 15676421  9. 39901702]
```

*** 偏微分_バイアス2 ***

```
13. 153467042838454
```

順伝播開始

*** 総入力1 ***

```
[ 131. 46199039  449. 26403475 -301. 47500354  234. 210099 -336. 64423171
 362. 54591576 -316. 93334747  251. 32897344  197. 00847088 -416. 69728548]
```

*** 中間層出力1 ***

```
[1. 00000000e+000 1. 00000000e+000 1. 17779452e-131 1. 00000000e+000
 6. 27000377e-147 1. 00000000e+000 2. 27822210e-138 1. 00000000e+000
 1. 00000000e+000 1. 07316943e-181]
```

*** 総入力2 ***

```
-6. 832412124868453
```

*** 出力1 ***

```
-6. 832412124868453
```

出力合計: -6. 832412124868453

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0. 21597631  1. 08655431 -0. 90786338  0. 3042038 -0. 76265208  0. 53313974
  -0. 58556626  0. 57937294  0. 25001902 -1. 3148682 ]
 [-0. 09557301 -0. 48081784  0. 40174421 -0. 13461509  0. 33748587 -0. 23592295
  0. 25912253 -0. 25638188 -0. 11063745  0. 58185042]]
```

*** 偏微分_重み2 ***

[5.55070234e-001 5.55070234e-001 6.53758680e-132 5.55070234e-001
3.48029246e-147 5.55070234e-001 1.26457327e-138 5.55070234e-001
5.55070234e-001 5.95684405e-182]

*** 偏微分_バイアス1 ***

[-0.06183201 -0.31107042 0.25991287 -0.08709073 0.21834022 -0.15263296
0.16764219 -0.1658691 -0.07157813 0.37643457]

*** 偏微分_バイアス2 ***

0.5550702337178617

順伝播開始

*** 総入力1 ***

[91.53783756 294.73068428 -223.56559654 152.6199009 -238.20971433
226.09678695 -226.75106414 166.71205329 128.64987723 -276.81873137]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 8.06668464e-098 1.00000000e+000
3.52237452e-104 1.00000000e+000 3.33629219e-099 1.00000000e+000
1.00000000e+000 6.01384846e-121]

*** 総入力2 ***

-7.104396539390205

*** 出力1 ***

-7.104396539390205

出力合計: -7.104396539390205

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.59057704 2.81835321 -2.32318803 0.81634785 -1.9515978 1.40218626
-1.49844189 1.52049526 0.67769105 -3.36469796]
[-1.62939698 -7.77581223 6.40965578 -2.25229668 5.38444154 -3.86861982
4.13418828 -4.19503334 -1.86974377 9.28317271]]

*** 偏微分_重み2 ***

[-3.90629536e+000 -3.90629536e+000 -3.15108528e-097 -3.90629536e+000
-1.37594353e-103 -3.90629536e+000 -1.30325427e-098 -3.90629536e+000
-3.90629536e+000 -2.34918684e-120]

*** 偏微分_バイアス1 ***

[0.46498305 2.21899323 -1.82913146 0.64274071 -1.53656479 1.10399286
-1.17977846 1.19714189 0.53357111 -2.64915056]

*** 偏微分_バイアス2 ***

-3.90629536360433

順伝播開始

*** 総入力1 ***

[140.79731656 457.49740906 -327.14841344 239.25412879 -354.83595844
358.86021541 -337.31860488 259.15855225 202.2203378 -422.37440986]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 8.34159847e-143 1.00000000e+000
7.88317686e-155 1.00000000e+000 3.19441443e-147 1.00000000e+000
1.00000000e+000 3.67387605e-184]

*** 総入力2 ***

-5.190311811224084

*** 出力1 ***

-5.190311811224084

出力合計: -5.190311811224084

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.00843679 0.06647496 -0.06052385 0.01431859 -0.05084315 0.02958089
-0.03903751 0.03266308 0.01070629 -0.08765733]
[0.13267353 1.04535779 -0.95177297 0.22516822 -0.7995384 0.46517684
-0.61388767 0.51364615 0.16836275 -1.37846293]]

*** 偏微分_重み2 ***

[7.49663012e-001 7.49663012e-001 6.25338783e-143 7.49663012e-001
5.90972611e-155 7.49663012e-001 2.39473434e-147 7.49663012e-001
7.49663012e-001 2.75416898e-184]

*** 偏微分_バイアス1 ***

[-0.04893244 -0.38554717 0.35103137 -0.08304618 0.29488446 -0.17156577
0.22641306 -0.18944214 -0.06209528 0.50840246]

*** 偏微分_バイアス2 ***

0.7496630119502354

順伝播開始

*** 総入力1 ***

[79.68435839 262.16261705 -196.02474276 135.54005441 -211.04947615
203.43897525 -200.25329793 147.26360811 113.85948855 -247.66119825]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 7.37116111e-086 1.00000000e+000
2.19976912e-092 1.00000000e+000 1.07423112e-087 1.00000000e+000
1.00000000e+000 2.76763121e-108]

*** 総入力2 ***

-5.557646687079699

*** 出力1 ***

-5.557646687079699

出力合計: -5.557646687079699

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.08398797 0.58289471 -0.52027408 0.13454896 -0.43705706 0.26574649
-0.33557356 0.2922416 0.103497 -0.75351848]
[-0.41161468 -2.85669517 2.54979913 -0.65940788 2.14196282 -1.30239082
1.64460465 -1.43224006 -0.50722606 3.69290123]]

*** 偏微分_重み2 ***

[-2.37330544e+000 -2.37330544e+000 -1.74940168e-085 -2.37330544e+000
-5.22072403e-092 -2.37330544e+000 -2.54947855e-087 -2.37330544e+000
-2.37330544e+000 -6.56843421e-108]

*** 偏微分_バイアス1 ***

[0.17939832 1.24506323 -1.11130553 0.28739661 -0.93355398 0.56763457
-0.71678518 0.62422811 0.22106962 -1.60951563]

*** 偏微分_バイアス2 ***

-2.3733054429500857

順伝播開始

*** 総入力1 ***

[12.78937311 58.19883233 -49.95575473 26.88120313 -55.3433481

45. 72745255 -50. 39895007 29. 01505318 20. 87350303 -66. 0560262]

*** 中間層出力1 ***

[9. 99997210e-01 1. 00000000e+00 2. 01600395e-22 1. 00000000e+00
9. 21911662e-25 1. 00000000e+00 1. 29423783e-22 1. 00000000e+00
9. 99999999e-01 2. 05225973e-29]

*** 総入力2 ***

-4. 3947264105655375

*** 出力1 ***

-4. 3947264105655375

出力合計: -4. 3947264105655375

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 05602979 -0. 64211177 0. 61118295 -0. 11542537 0. 51342521 -0. 26954739
0. 39420922 -0. 30067206 -0. 07894762 0. 88518277]
[0. 01046951 0. 1199825 -0. 11420326 0. 02156793 -0. 09593663 0. 05036658
-0. 0736604 0. 05618241 0. 01475184 -0. 1654018]]

*** 偏微分_重み2 ***

[-3. 38076459e+00 -3. 38077403e+00 -6. 81565380e-22 -3. 38077403e+00
-3. 11677500e-24 -3. 38077403e+00 -4. 37552564e-22 -3. 38077403e+00
-3. 38077402e+00 -6. 93822639e-29]

*** 偏微分_バイアス1 ***

[0. 1451255 1. 66316518 -1. 58305493 0. 29896891 -1. 32984781 0. 69816793
-1. 02106062 0. 77878544 0. 2044861 -2. 29275531]

*** 偏微分_バイアス2 ***

-3. 380774026061691

順伝播開始

*** 総入力1 ***

[-313. 92780107 -991. 40075233 650. 63420157 -529. 8578735 714. 70611141
-791. 1135784 682. 8176663 -571. 47737466 -453. 22961597 873. 63588455]

*** 中間層出力1 ***

[4. 60138191e-137 0. 00000000e+000 1. 00000000e+000 7. 68509684e-231
1. 00000000e+000 0. 00000000e+000 1. 00000000e+000 6. 46442130e-249]

1.46176901e-197 1.00000000e+000]

*** 総入力2 ***

8.908996346834675

*** 出力1 ***

8.908996346834675

出力合計: 8.908996346834675

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.08956706  11.07497982 -7.20101584  1.04188515 -6.04922481
  3.97782747 -4.64461061  4.57073569  0.34700351 -10.4293079 ]
 [-0.0335332  4.14638456 -2.69600318  0.39007353 -2.26478177
  1.48926704 -1.73890535  1.71124717  0.12991536 -3.90465012]]
```

*** 偏微分_重み2 ***

```
[-2.39124970e-136  0.00000000e+000 -5.19680770e+000 -3.99379704e-230
 -5.19680770e+000  0.00000000e+000 -5.19680770e+000 -3.35943544e-248
 -7.59653243e-197 -5.19680770e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.0238035  2.94330677 -1.91375506  0.27689329 -1.60765298  1.05715466
 -1.23436016  1.21472703  0.09222028 -2.77171183]
```

*** 偏微分_バイアス2 ***

-5.196807698516791

順伝播開始

*** 総入力1 ***

```
[ 532.37378191 1717.38503277 -1170.2116693  905.76663437
 -1279.68545102 1360.32600988 -1217.9317998  979.61816516
 769.69174144 -1549.99804803]
```

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-2.3743718688985727

*** 出力1 ***

-2.3743718688985727

出力合計: -2.3743718688985727

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ -0.36650941  45.31894159 -56.89516205  4.26340571 -49.27488475
    16.27731459 -39.98192319  18.7035017   1.41994223 -78.25362049]
  [ -0.37244448  46.05281312 -57.8164929  4.3324451  -50.07281678
    16.54090101 -40.6293698  19.00637654  1.44293605 -79.52081919]]
```

*** 偏微分_重み2 ***

```
[21.4717458 21.4717458 0.          21.4717458 0.          21.4717458
 0.          21.4717458 21.4717458 0.          ]
```

*** 偏微分_バイアス1 ***

```
[ 0.07734665 -9.56392375 12.00692188 -0.89973167 10.39876978 -3.43509778
 8.43762125 -3.94711036 -0.29965879 16.51432344]
```

*** 偏微分_バイアス2 ***

21.471745796418922

順伝播開始

*** 総入力1 ***

```
[ 280.0787426  921.05318123 -650.4317068  476.84429593 -703.03509094
 718.23055643 -666.59311214  521.80406914  403.75182673 -851.71238515]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 3.31970032e-283 1.00000000e+000
 4.73957521e-306 1.00000000e+000 3.17899410e-290 1.00000000e+000
 1.00000000e+000 0.00000000e+000]
```

*** 総入力2 ***

-12.895527309143848

*** 出力1 ***

-12.895527309143848

出力合計: -12.895527309143848

誤差逆伝播開始

*** 偏微分_重み1 ***


```
[[-0.32300334 -0.81985319 0.61876051 -0.37335575 0.53588656 -0.50401242
 0.43482142 -0.53039829 -0.3424318 0.85104336]
[-0.9744015 -2.47324435 1.86660972 -1.1262992 1.61660456 -1.5204501
 1.31172219 -1.60004816 -1.03301119 2.56733548]]
```

*** 偏微分_重み2 ***

```
[-8.28327751e-001 -8.28327751e-001 -2.74979990e-283 -8.28327751e-001
-3.92592167e-306 -8.28327751e-001 -2.63324904e-290 -8.28327751e-001
-8.28327751e-001 0.00000000e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.24179703 0.6137338 -0.46319786 0.27949034 -0.40115926 0.3772986
-0.32550291 0.3970508 0.25634098 -0.63708245]
```

*** 偏微分_バイアス2 ***

-0.8283277509571239

順伝播開始

*** 総入力1 ***

```
[-12.47995791 0.95471243 12.3659138 -4.28435615 1.82555197
 11.48009203 7.5888377 -7.09520658 -6.63832607 -15.29222002]
```

*** 中間層出力1 ***

```
[3.80208211e-06 7.22061898e-01 9.99995739e-01 1.35951179e-02
 8.61230987e-01 9.99989666e-01 9.99494187e-01 8.28382703e-04
 1.30750514e-03 2.28387921e-07]
```

*** 総入力2 ***

0.9723042983135415

*** 出力1 ***

0.9723042983135415

出力合計: 0.9723042983135415

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 4.11363475 9.4167877 -5.07204083 4.78074261 -4.6655568
 5.12182648 -3.56510003 6.86227295 4.37112153 -8.87035747]
 [-5.16073546 -11.81377373 6.36309797 -5.99765157 5.85314591
 -6.42555626 4.47257456 -8.60902279 -5.48376393 11.12825301]]
```

*** 偏微分_重み2 ***

[1.10821320e-05 2.10463241e+00 2.91474104e+00 3.96264169e-02
2.51027600e+00 2.91472334e+00 2.91327914e+00 2.41453135e-03
3.81105513e-03 6.65694483e-07]

*** 偏微分_バイアス1 ***

[-1.03963253 -2.37989016 1.28184902 -1.20822967 1.17911894 -1.29443127
0.9010022 -1.7342916 -1.10470677 2.24179169]

*** 偏微分_バイアス2 ***

2.9147534564912307

順伝播開始

*** 総入力1 ***

[68.39267516 241.70471923 -175.21525302 121.95817529 -191.44859545
189.51699639 -179.21850563 133.30088723 101.61097512 -234.15817934]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 8.03493683e-077 1.00000000e+000
7.16030342e-084 1.00000000e+000 1.46687109e-078 1.00000000e+000
1.00000000e+000 2.02485916e-102]

*** 総入力2 ***

-13.048244771475186

*** 出力1 ***

-13.048244771475186

出力合計: -13.048244771475186

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.80986147 -7.59784549 5.09051246 -3.2711486 4.41118037 -4.85031199
3.42562186 -4.68767882 -2.98626557 7.70424695]
[-0.52253333 -1.41292641 0.94665251 -0.60831617 0.82032114 -0.90198385
0.63704265 -0.87173992 -0.55533816 1.43271326]]

*** 偏微分_重み2 ***

[-9.48851751e+000 -9.48851751e+000 -7.62396388e-076 -9.48851751e+000
-6.79406644e-083 -9.48851751e+000 -1.39184321e-077 -9.48851751e+000
-9.48851751e+000 -1.92129116e-101]

*** 偏微分_バイアス1 ***

[2.66162275 7.19700905 -4.82195436 3.09857395 -4.17846153 4.59442606
-3.24489772 4.44037285 2.82872038 -7.29779713]

*** 偏微分_バイアス2 ***

-9.488517512819959

順伝播開始

*** 総入力1 ***

[-92.64264759 -277.25479497 186.31818037 -149.11023727 198.61876832
-215.48109165 192.27608087 -163.0319395 -129.06044189 237.53091517]

*** 中間層出力1 ***

[5.83189055e-041 3.88841368e-121 1.00000000e+000 1.74681437e-065
1.00000000e+000 2.61668198e-094 1.00000000e+000 1.57082680e-071
8.90763180e-057 1.00000000e+000]

*** 総入力2 ***

9.159322483723283

*** 出力1 ***

9.159322483723283

出力合計: 9.159322483723283

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.67913849 2.84440776 -1.42383759 0.8877463 -1.23382557
1.60189111 -0.95816074 1.52834354 0.75891369 -2.15491004]
[-2.80188887 -11.73503574 5.87425798 -3.66253204 5.09033457
-6.60884481 3.95303748 -6.30541313 -3.13101356 8.89040829]]

*** 偏微分_重み2 ***

[3.54851375e-040 2.36597194e-120 6.08467138e+000 1.06287914e-064
6.08467138e+000 1.59216499e-093 6.08467138e+000 9.55796485e-071
5.42000122e-056 6.08467138e+000]

*** 偏微分_バイアス1 ***

[-1.15992422 -4.85806281 2.43182167 -1.51621274 2.10729354 -2.73592547
1.636476 -2.61031101 -1.29617505 3.6804457]

*** 偏微分_バイアス2 ***

6. 084671375803242

順伝播開始

*** 総入力1 ***

[-153. 7213568 -478. 1209269 321. 32286795 -254. 42354712 346. 82680485
-374. 95660185 332. 81290713 -277. 29391273 -218. 50028209 420. 40157477]

*** 中間層出力1 ***

[1. 73645283e-067 2. 26318349e-208 1. 00000000e+000 3. 20079174e-111
1. 00000000e+000 1. 44018029e-163 1. 00000000e+000 3. 73924424e-121
1. 27800689e-095 1. 00000000e+000]

*** 総入力2 ***

7. 029687502192148

*** 出力1 ***

7. 029687502192148

出力合計: 7. 029687502192148

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 07591881 -0. 31796762 0. 12581597 -0. 09923843 0. 10457511 -0. 17907049
0. 07375938 -0. 17084883 -0. 08483663 0. 20754031]
[-0. 45835429 -1. 91970641 0. 75960477 -0. 59914485 0. 63136462 -1. 0811251
0. 44531691 -1. 03148744 -0. 51219502 1. 25300958]]

*** 偏微分_重み2 ***

[1. 72744745e-067 2. 25144645e-208 9. 94813926e-001 3. 18419220e-111
9. 94813926e-001 1. 43271141e-163 9. 94813926e-001 3. 71985225e-121
1. 27137905e-095 9. 94813926e-001]

*** 偏微分_バイアス1 ***

[-0. 18964192 -0. 79426944 0. 31428288 -0. 24789335 0. 26122412 -0. 4473104
0. 18424776 -0. 42677305 -0. 21191826 0. 51842678]

*** 偏微分_バイアス2 ***

0. 9948139263940048

順伝播開始

*** 総入力1 ***

[-314. 10156497 -1007. 06379232 675. 58574798 -530. 4747382

735.15907912 -793.63743521 700.56120652 -577.96847347
-452.94551244 901.09185454]

*** 中間層出力1 ***

[3.86743994e-137 0.00000000e+000 1.00000000e+000 4.14713725e-231
1.00000000e+000 0.00000000e+000 1.00000000e+000 9.80575994e-252
1.94206313e-197 1.00000000e+000]

*** 総入力2 ***

6.681502627954247

*** 出力1 ***

6.681502627954247

出力合計: 6.681502627954247

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.05789107 16.99549798 -6.43346874 5.30433458 -5.29813613
9.57139041 -3.65102309 9.13193947 4.53455242 -10.80166817]
[3.19708022 13.39019939 -5.06872051 4.17911247 -4.17422892
7.54098681 -2.8765222 7.19475772 3.57262618 -8.51028259]]

*** 偏微分_重み2 ***

[-2.73760480e-136 0.00000000e+000 -7.07859681e+000 -2.93559125e-230
-7.07859681e+000 0.00000000e+000 -7.07859681e+000 -6.94110211e-251
-1.37470819e-196 -7.07859681e+000]

*** 偏微分_バイアス1 ***

[1.34939676 5.65162287 -2.13936297 1.76388469 -1.76182348 3.18283636
-1.21409832 3.0367029 1.50790405 -3.59194858]

*** 偏微分_バイアス2 ***

-7.078596812105108

順伝播開始

*** 総入力1 ***

[-366.99612528 -1184.01969045 790.87099056 -621.22607343
861.21799756 -932.41972124 819.16662124 -678.22633178
-529.99933069 1059.87859402]

*** 中間層出力1 ***

```
[4.12674763e-160 0.00000000e+000 1.00000000e+000 1.60303976e-270
1.00000000e+000 0.00000000e+000 1.00000000e+000 2.81868552e-295
6.67137368e-231 1.00000000e+000]
```

*** 総入力2 ***

9.159011512191036

*** 出力1 ***

9.159011512191036

出力合計: 9.159011512191036

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 5.45171112 22.83317711 -11.42935327 7.12628785 -9.90405223
12.85900847 -7.69118247 12.26861322 6.09209795 -17.29795867]
[ 2.93015271 12.2722379 -6.14297965 3.83019408 -5.32317008
6.91138208 -4.13381023 6.59406002 3.27434395 -9.29720218]]
```

*** 偏微分_重み2 ***

```
[-2.94934348e-159 0.00000000e+000 -7.14689567e+000 -1.14567579e-269
-7.14689567e+000 0.00000000e+000 -7.14689567e+000 -2.01448513e-294
-4.76796117e-230 -7.14689567e+000]
```

*** 偏微分_バイアス1 ***

```
[ 1.36241661 5.70615337 -2.85626666 1.78090378 -2.47508442 3.21354642
-1.92207447 3.06600296 1.52245327 -4.32286776]
```

*** 偏微分_バイアス2 ***

-7.146895667445733

順伝播開始

*** 総入力1 ***

```
[-9.33492441 -5.2987409 0.71379083 -7.53519476 -2.93390509 -2.23381033
0.96019361 -8.15673463 -8.70276069 -9.2938373 ]
```

*** 中間層出力1 ***

```
[8.82786126e-05 4.97302819e-03 6.71238253e-01 5.33672304e-04
5.05027384e-02 9.67551303e-02 7.23160567e-01 2.86715137e-04
1.66098959e-04 9.19809296e-05]
```

*** 総入力2 ***

4. 395521403541949

*** 出力1 ***

4. 395521403541949

出力合計: 4. 395521403541949

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1. 28610787 5. 38651933 -3. 82497269 1. 68115553 -3. 81226754 3. 02646756
-2. 77237406 2. 89427657 1. 4371809 -6. 03263302]
[-1. 63670983 -6. 85492201 4. 86768688 -2. 13945023 4. 85151821 -3. 85150369
3. 52814253 -3. 68327651 -1. 82896642 7. 67717078]]

*** 偏微分_重み2 ***

[4. 42114473e-04 2. 49057804e-02 3. 36167660e+00 2. 67272267e-03
2. 52926398e-01 4. 84566331e-01 3. 62171248e+00 1. 43591871e-03
8. 31852151e-04 4. 60656313e-04]

*** 偏微分_バイアス1 ***

[-0. 95471055 -3. 99855013 2. 83937439 -1. 24796445 2. 82994304 -2. 24662375
2. 05800369 -2. 14849502 -1. 06685589 4. 47817674]

*** 偏微分_バイアス2 ***

5. 00817196528976

順伝播開始

*** 総入力1 ***

[-281. 55154357 -918. 0689754 595. 60066987 -479. 74522613 652. 8618523
-725. 75773739 618. 37486313 -525. 25213151 -409. 37562255 817. 42889037]

*** 中間層出力1 ***

[5. 29319942e-123 0. 00000000e+000 1. 00000000e+000 4. 45959655e-209
1. 00000000e+000 0. 00000000e+000 1. 00000000e+000 7. 68949253e-229
1. 62340210e-178 1. 00000000e+000]

*** 総入力2 ***

10. 803278628852654

*** 出力1 ***

10. 803278628852654

出力合計: 10.803278628852654

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.39337798 10.02915147 -5.67147711 3.12900099 -5.53902483 5.75151821
   -3.98550347 5.38619091 2.67459103 -8.82854477]
  [-0.40245053 -1.68641869 0.95366842 -0.52614678 0.93139634 -0.96712746
   0.67016911 -0.90569706 -0.44973698 1.48453465]]
```

*** 偏微分_重み2 ***

```
[-1.32943546e-122 0.00000000e+000 -2.51159150e+000 -1.12006848e-208
 -2.51159150e+000 0.00000000e+000 -2.51159150e+000 -1.93128641e-228
 -4.07732290e-178 -2.51159150e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.47880549 2.00637459 -1.13460322 0.62597001 -1.10810557 1.15061578
 -0.79731699 1.0775305 0.53506336 -1.76618809]
```

*** 偏微分_バイアス2 ***

-2.5115914971593867

順伝播開始

*** 総入力1 ***

```
[ 298.56486795 991.10525978 -689.09477226 511.24542835 -747.55760195
 774.65275006 -707.34550237 560.22277788 432.65489621 -912.89928756]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 5.36961192e-300 1.00000000e+000
 0.00000000e+000 1.00000000e+000 6.36431288e-308 1.00000000e+000
 1.00000000e+000 0.00000000e+000]
```

*** 総入力2 ***

-8.10945115092349

*** 出力1 ***

-8.10945115092349

出力合計: -8.10945115092349

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.03408129 8.5235636 -8.3894723 2.65927172 -8.20747006
```



```
4. 88809361 -6. 07278154 4. 57760967 2. 27307832 -12. 72758844]
[ 2. 27478157 9. 53218806 -9. 38222925 2. 97395307 -9. 17869002
5. 46651961 -6. 79139599 5. 11929497 2. 54205999 -14. 23369054]]
```

*** 偏微分_重み2 ***

```
[5. 29874445e+000 5. 29874445e+000 2. 84522014e-299 5. 29874445e+000
0. 00000000e+000 5. 29874445e+000 3. 37228675e-307 5. 29874445e+000
5. 29874445e+000 0. 00000000e+000]
```

*** 偏微分_バイアス1 ***

```
[-0. 79442509 -3. 32893912 3. 2765688 -1. 03859772 3. 20548652 -1. 90908015
2. 37176855 -1. 78781841 -0. 8877671 4. 97085129]
```

*** 偏微分_バイアス2 ***

```
5. 298744446660184
```

順伝播開始

*** 総入力1 ***

```
[ 61. 47045793 203. 78241266 -167. 65657032 103. 56617075 -176. 31169249
153. 85500998 -168. 04018167 113. 37623014 86. 47221882 -200. 38512836]
```

*** 中間層出力1 ***

```
[1. 00000000e+00 1. 00000000e+00 1. 54055304e-73 1. 00000000e+00
2. 68413810e-77 1. 00000000e+00 1. 04972698e-73 1. 00000000e+00
1. 00000000e+00 9. 41552405e-88]
```

*** 総入力2 ***

```
-10. 705835929786979
```

*** 出力1 ***

```
-10. 705835929786979
```

出力合計: -10. 705835929786979

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3. 1680026 9. 96769358 -8. 79050385 3. 82307823 -8. 59980158
6. 15844173 -6. 36307118 5. 83311611 3. 4184241 -13. 33598957]
[ -6. 6618684 -20. 96067186 18. 48520575 -8. 03940126 18. 08418543
-12. 95034556 13. 38065281 -12. 26623106 -7. 18846996 28. 04372938]]
```

*** 偏微分_重み2 ***

```
[-8.74608557e+00 -8.74608557e+00 -1.34738087e-72 -8.74608557e+00  
-2.34757015e-76 -8.74608557e+00 -9.18100203e-73 -8.74608557e+00  
-8.74608557e+00 -8.23489790e-87]
```

*** 偏微分_バイアス1 ***

```
[ 1.94908958  6.13254791 -5.40829086  2.3521199 -5.29096273  3.78893459  
-3.91483131  3.58878047  2.10315952 -8.20486649]
```

*** 偏微分_バイアス2 ***

-8.746085569663194

順伝播開始

*** 総入力1 ***

```
[ 127.58495091  435.81784714 -307.99331887  221.95658228 -334.92847415  
 340.34877542 -315.01369841  243.66520371  186.6170251 -410.24739492]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.73860592e-134 1.00000000e+000  
 3.48667802e-146 1.00000000e+000 1.55342059e-137 1.00000000e+000  
 1.00000000e+000 6.78922453e-179]
```

*** 総入力2 ***

-6.420254000652014

*** 出力1 ***

-6.420254000652014

出力合計: -6.420254000652014

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.05133087 -0.29091242  0.30972622 -0.07441193  0.30300698 -0.15669655  
  0.22419761 -0.14523397 -0.06015427  0.46988269]  
[-0.02958958 -0.16769591  0.17854108 -0.04289461  0.17466779 -0.09032742  
  0.12923828 -0.08371984 -0.03467581  0.27086297]]
```

*** 偏微分_重み2 ***

```
[-3.42231865e-001 -3.42231865e-001 -5.95006346e-135 -3.42231865e-001  
-1.19325232e-146 -3.42231865e-001 -5.31630025e-138 -3.42231865e-001  
-3.42231865e-001 -2.32348898e-179]
```

*** 偏微分_バイアス1 ***

```
[ 0.03507256  0.1987701 -0.2116249  0.05084302 -0.20703388  0.10706517  
-0.15318625  0.0992332  0.04110127 -0.32105412]
```

```
*** 偏微分_バイアス2 ***  
-0.3422318654256351
```

```
##### 順伝播開始 #####
```

```
*** 総入力1 ***
```

```
[ 22.58682764  96.08568838 -72.52607482  44.84667717 -80.72812101  
75.27195164 -72.91892019  49.8930459  35.96695795 -102.38214523]
```

```
*** 中間層出力1 ***
```

```
[1.00000000e+00 1.00000000e+00 3.17925901e-32 1.00000000e+00  
8.71409939e-36 1.00000000e+00 2.14642310e-32 1.00000000e+00  
1.00000000e+00 3.43557378e-45]
```

```
*** 総入力2 ***
```

```
-6.252560386516315
```

```
*** 出力1 ***
```

```
-6.252560386516315
```

```
出力合計: -6.252560386516315
```

```
##### 誤差逆伝播開始 #####
```

```
*** 偏微分_重み1 ***
```

```
[[-0.48071628 -2.83249826  3.04033647 -0.70728468  2.97437904 -1.51500753  
2.20077003 -1.40248845 -0.56732857  4.61246547]  
[ 0.34168954  2.01331859 -2.16104844  0.50273266 -2.11416639  1.07685603  
-1.56429089  0.99687831  0.40325291 -3.27850598]]
```

```
*** 偏微分_重み2 ***
```

```
[-4.54508465e+00 -4.54508465e+00 -1.44500013e-31 -4.54508465e+00  
-3.96063194e-35 -4.54508465e+00 -9.75567468e-32 -4.54508465e+00  
-4.54508465e+00 -1.56149736e-44]
```

```
*** 偏微分_バイアス1 ***
```

```
[ 0.44438099  2.61840183 -2.81053044  0.65382405 -2.74955845  1.40049459  
-2.03442323  1.29648035  0.52444663 -4.26382893]
```

```
*** 偏微分_バイアス2 ***
```

```
-4.545084648008087
```

順伝播開始

*** 総入力1 ***

```
[ -355.97343006 -1156.80811912  765.05279017 -603.02732164
   833.9164162  -909.44241234  789.96740067 -661.67635262
  -514.41566821  1036.23918981]
```

*** 中間層出力1 ***

```
[2.52757251e-155 0.00000000e+000 1.00000000e+000 1.28399040e-262
 1.00000000e+000 0.00000000e+000 1.00000000e+000 4.34121455e-288
 3.90943405e-224 1.00000000e+000]
```

*** 総入力2 ***

12.265761687409013

*** 出力1 ***

12.265761687409013

出力合計: 12.265761687409013

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.81950331 11.94966033 -8.89950012  1.89177184 -8.70643327
   5.71444003 -6.44196894  5.18192682  1.2294088 -13.50134677]
 [ 0.14503387  2.11482424 -1.57501369  0.33480156 -1.54084515
   1.01132886 -1.1400853  0.91708586  0.21757803 -2.38943825]]
```

*** 偏微分_重み2 ***

```
[-9.64637887e-155 0.00000000e+000 -3.81645981e+000 -4.90029775e-262
 -3.81645981e+000 0.00000000e+000 -3.81645981e+000 -1.65680708e-287
 -1.49201979e-223 -3.81645981e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.17090784  2.49210779 -1.85599531  0.39452999 -1.81573112  1.1917494
 -1.34347593  1.0806935  0.25639384 -2.81571279]
```

*** 偏微分_バイアス2 ***

-3.816459805736441

順伝播開始

*** 総入力1 ***

```
[ 87.04183667  329.11381231 -209.12513394  161.21104971 -236.41782151
```

262.09240107 -214.37405349 180.00685017 134.29542077 -316.06863732]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.50698282e-091 1.00000000e+000
2.11370655e-103 1.00000000e+000 7.91646887e-094 1.00000000e+000
1.00000000e+000 5.40922329e-138]

*** 総入力2 ***

-3.758316722717291

*** 出力1 ***

-3.758316722717291

出力合計: -3.758316722717291

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.39094086 5.70053884 -7.60551779 0.90246237 -7.45660626
2.72605132 -5.71003583 2.47201797 0.58648467 -11.15489994]
[-0.34731667 -5.06442897 6.75683575 -0.8017587 6.62454091
-2.42185759 5.07286621 -2.19617124 -0.52104021 9.9101506]]

*** 偏微分_重み2 ***

[2.25714578e+000 2.25714578e+000 3.40147993e-091 2.25714578e+000
4.77094383e-103 2.25714578e+000 1.78686243e-093 2.25714578e+000
2.25714578e+000 1.22094055e-137]

*** 偏微分_バイアス1 ***

[-0.07949334 -1.15913923 1.54649487 -0.18350538 1.51621541 -0.55431129
1.16107034 -0.50265652 -0.11925494 2.26822104]

*** 偏微分_バイアス2 ***

2.2571457825735077

順伝播開始

*** 総入力1 ***

[-124.06495426 -393.82834432 252.47891117 -207.15705533 275.01692947
-309.78738492 261.46294757 -227.75146548 -177.97700468 344.20464943]

*** 中間層出力1 ***

[1.31605782e-054 9.17325031e-172 1.00000000e+000 1.07853435e-090
1.00000000e+000 2.89100048e-135 1.00000000e+000 1.22686081e-099]

5. 07655346e-078 1. 00000000e+000]

*** 総入力2 ***

13. 44352241463662

*** 出力1 ***

13. 44352241463662

出力合計: 13. 44352241463662

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1. 12005694 -9. 20278632 7. 16085558 -1. 89873925 7. 02065027 -4. 6747641
5. 37619437 -4. 28805256 -1. 41773065 10. 50272048]
[-0. 14825586 -1. 21812292 0. 94784362 -0. 25132582 0. 92928541 -0. 61877317
0. 7116177 -0. 56758626 -0. 18765732 1. 39018816]]

*** 偏微分_重み2 ***

[1. 06097938e-053 7. 39529019e-171 8. 06179918e+000 8. 69492733e-090
8. 06179918e+000 2. 33066653e-134 8. 06179918e+000 9. 89070551e-099
4. 09261545e-077 8. 06179918e+000]

*** 偏微分_バイアス1 ***

[-0. 67946314 -5. 58271088 4. 34400897 -1. 15183727 4. 25895585 -2. 83586465
3. 26137517 -2. 60127279 -0. 86004174 6. 37129341]

*** 偏微分_バイアス2 ***

8. 0617991843426

順伝播開始

*** 総入力1 ***

[-384. 55759997 -1235. 51470532 835. 20990005 -646. 53451714
904. 27789471 -966. 9963765 861. 10910173 -708. 01784203
-551. 75237657 1105. 7482621]

*** 中間層出力1 ***

[9. 74442815e-168 0. 00000000e+000 1. 00000000e+000 1. 63541074e-281
1. 00000000e+000 0. 00000000e+000 1. 00000000e+000 3. 24906289e-308
2. 38225079e-240 1. 00000000e+000]

*** 総入力2 ***

10. 62189270011671

*** 出力1 ***

10.62189270011671

出力合計: 10.62189270011671

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.22201138 10.04048023 -6.20395767 2.07157411 -6.05099002
    5.10028973 -4.25684568 4.67837734 1.54678117 -9.85001956]
  [ 2.00211918 16.45012346 -10.16444107 3.3940259 -9.91382191
    8.35621343 -6.97433145 7.66496055 2.53421556 -16.13807649]]
```

*** 偏微分_重み2 ***

```
[-5.46423780e-167 0.00000000e+000 -5.60755102e+000 -9.17064918e-281
 -5.60755102e+000 0.00000000e+000 -5.60755102e+000 -1.82192859e-307
 -1.33585928e-239 -5.60755102e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.47261463 3.88316992 -2.3993894 0.80118422 -2.34022894 1.97254426
 -1.64634108 1.80936905 0.5982198 -3.80950898]
```

*** 偏微分_バイアス2 ***

-5.607551019246273

順伝播開始

*** 総入力1 ***

```
[ 240.87792488 821.08497912 -559.30827342 418.3040791 -611.43389126
 643.40594029 -573.13875011 461.12925144 353.09957221 -762.99175351]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.24595733e-243 1.00000000e+000
 2.86836873e-266 1.00000000e+000 1.22744902e-249 1.00000000e+000
 1.00000000e+000 0.00000000e+000]
```

*** 総入力2 ***

-5.036115527735054

*** 出力1 ***

-5.036115527735054

出力合計: -5.036115527735054

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.9417465 15.95408009 -18.81321042 3.29168113 -18.42022435
    8.10423694 -13.81092482 7.43382837 2.45779785 -28.18023348]
  [ -0.22229307 -1.82643893 2.15375501 -0.37683492 2.10876558
    -0.92778109 1.58108839 -0.85103205 -0.28137114 3.22610111]]
```

*** 偏微分_重み2 ***

```
[6.83700951e+000 6.83700951e+000 8.51862212e-243 6.83700951e+000
 1.96110643e-265 6.83700951e+000 8.39208063e-249 6.83700951e+000
 6.83700951e+000 0.00000000e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.45317921 -3.72348158 4.39076663 -0.76823696 4.29904863 -1.89142695
 3.2232961 -1.73496202 -0.5736191 6.57691197]
```

*** 偏微分_バイアス2 ***

6.837009513167969

順伝播開始

*** 総入力1 ***

```
[-155.80618183 -496.0750882 325.26893256 -260.13538951 352.82126683
 -388.59238247 335.63968676 -286.04439429 -223.04132112 437.30939406]
```

*** 中間層出力1 ***

```
[2.15891223e-068 3.60849898e-216 1.00000000e+000 1.05836578e-113
 1.00000000e+000 1.72374327e-169 1.00000000e+000 5.92240331e-125
 1.36265214e-097 1.00000000e+000]
```

*** 総入力2 ***

12.10594489093115

*** 出力1 ***

12.10594489093115

出力合計: 12.10594489093115

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.6913513 -6.73570636 4.18887907 -2.17731957 4.10137826 -3.90981046
 3.07508887 -3.66846744 -1.87712665 6.27450539]
```



```
[-1.17131427 -4.66468971  2.90093126 -1.50786267  2.84033418 -2.70766742  
 2.12959631 -2.54052974 -1.29996958  4.34529346]]
```

*** 偏微分_重み2 ***

```
[1.19468252e-067 1.99684387e-215 5.53372435e+000 5.85670449e-113  
5.53372435e+000 9.53872013e-169 5.53372435e+000 3.27729474e-124  
7.54054131e-097 5.53372435e+000]
```

*** 偏微分_バイアス1 ***

```
[-1.12848959 -4.49414293  2.79486965 -1.45273336  2.73648808 -2.60867177  
 2.05173566 -2.44764486 -1.2524411  4.18642419]
```

*** 偏微分_バイアス2 ***

5.533724349223858

順伝播開始

*** 総入力1 ***

```
[-179.1252925 -558.4637929  378.79030216 -295.76622483  406.85930834  
-435.28803181  391.15095428 -323.16459654 -253.69292202  489.251606  ]
```

*** 中間層出力1 ***

```
[1.61017804e-078 2.89905463e-243 1.00000000e+000 3.55108136e-129  
1.00000000e+000 9.05335912e-190 1.00000000e+000 4.48124798e-141  
6.64605403e-111 1.00000000e+000]
```

*** 総入力2 ***

10.169141368702798

*** 出力1 ***

10.169141368702798

出力合計: 10.169141368702798

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.14709837  0.58581055 -0.30937513  0.18936348 -0.3017651  
 0.3400398 -0.21250777  0.31904997  0.16325542 -0.49076396]  
[-2.57414254 -10.25137018  5.41389863 -3.3137592  5.28072727  
-5.95051391  3.71877194 -5.58320327 -2.85688228  8.58810581]]
```

*** 偏微分_重み2 ***

```
[5.50651606e-078 9.91423958e-243 3.41981813e+000 1.21440524e-128
```

3. 41981813e+000 3. 09608417e-189 3. 41981813e+000 1. 53250531e-140
2. 27282961e-110 3. 41981813e+000]

*** 偏微分_バイアス1 ***

[-0. 69740177 -2. 77736123 1. 46676512 -0. 89778305 1. 43068555 -1. 61214807
1. 00751147 -1. 51263412 -0. 77400328 2. 32673991]

*** 偏微分_バイアス2 ***

3. 419818133129323

順伝播開始

*** 総入力1 ***

[-6. 11148498 -22. 10780061 -12. 52140848 -10. 94661277 -8. 28895652
-21. 20510107 -11. 6541577 -14. 57567375 -10. 82751733 11. 77181576]

*** 中間層出力1 ***

[2. 21235043e-03 2. 50440285e-10 3. 64770584e-06 1. 76172788e-05
2. 51213404e-04 6. 17648821e-10 8. 68280106e-06 4. 67589894e-07
1. 98454225e-05 9. 99992281e-01]

*** 総入力2 ***

3. 8812955240253038

*** 出力1 ***

3. 8812955240253038

出力合計: 3. 8812955240253038

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1. 48476182 -5. 91298325 3. 53495001 -1. 91137402 3. 43727894 -3. 43225232
2. 29170413 -3. 22038779 -1. 64784773 4. 61095038]
[1. 9199807 7. 64621878 -4. 57112764 2. 47164305 -4. 44482687 4. 43832682
-2. 96345692 4. 16435978 2. 13087095 -5. 96252922]]

*** 偏微分_重み2 ***

[6. 21403471e-03 7. 03434952e-10 1. 02456511e-05 4. 94832918e-05
7. 05606484e-04 1. 73484777e-09 2. 43881920e-05 1. 31336328e-06
5. 57416866e-05 2. 80877145e+00]

*** 偏微分_バイアス1 ***

[-0. 57279505 -2. 28112515 1. 36372167 -0. 73737455 1. 32604189 -1. 3241027

0.88409923 -1.24236909 -0.63571073 1.77882373]

*** 偏微分_バイアス2 ***

2.8087931323921804

順伝播開始

*** 総入力1 ***

[138.25104505 458.47144861 -336.14967722 235.80883924 -360.72408071
354.57491377 -343.18587817 257.83152363 198.68819328 -427.41740097]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.02813487e-146 1.00000000e+000
2.18535631e-157 1.00000000e+000 9.04204875e-150 1.00000000e+000
1.00000000e+000 2.37127154e-186]

*** 総入力2 ***

-9.210056122503692

*** 出力1 ***

-9.210056122503692

出力合計: -9.210056122503692

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.29060545 1.15670216 -0.87928193 0.37390563 -0.85496524 0.67141974
-0.57003693 0.62997468 0.32235458 -1.36933995]
[-2.05592656 -8.18324203 6.22059604 -2.64524474 6.04856439 -4.75004752
4.03280145 -4.45683896 -2.28054002 9.68757611]]

*** 偏微分_重み2 ***

[-3.59766191e+000 -3.59766191e+000 -3.69888165e-146 -3.59766191e+000
-7.86217316e-157 -3.59766191e+000 -3.25302343e-149 -3.59766191e+000
-3.59766191e+000 -8.53103331e-186]

*** 偏微分_バイアス1 ***

[0.57730029 2.29783887 -1.74673159 0.74277971 -1.69842543 1.33380435
-1.13240301 1.25147194 0.64037132 -2.72025303]

*** 偏微分_バイアス2 ***

-3.597661908400271

順伝播開始

*** 総入力1 ***

[98.96676834 369.61887225 -244.45408062 180.65189936 -272.82866442
291.37508632 -247.83310235 202.64328604 150.74006147 -361.32514796]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 6.83819857e-107 1.00000000e+000
3.25099676e-119 1.00000000e+000 2.33051131e-108 1.00000000e+000
1.00000000e+000 1.19806965e-157]

*** 総入力2 ***

-7.447201787387561

*** 出力1 ***

-7.447201787387561

出力合計: -7.447201787387561

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.57410398 -3.0486864 2.51225478 -0.81210648 2.44277794 -1.66215378
1.62869035 -1.54373834 -0.66481655 3.91243206]
[0.46808545 2.48569213 -2.04832217 0.66213655 -1.99167546 1.35520747
-1.32792365 1.25865955 0.54204633 -3.18993176]]

*** 偏微分_重み2 ***

[-1.11980592e+000 -1.11980592e+000 -7.65745524e-107 -1.11980592e+000
-3.64048542e-119 -1.11980592e+000 -2.60972036e-108 -1.11980592e+000
-1.11980592e+000 -1.34160549e-157]

*** 偏微分_バイアス1 ***

[0.12424401 0.65977774 -0.54368655 0.17575103 -0.5286508 0.35971298
-0.35247103 0.33408625 0.14387546 -0.8467042]

*** 偏微分_バイアス2 ***

-1.1198059191559846

順伝播開始

*** 総入力1 ***

[-52.18732096 -175.39867978 90.52771798 -90.13676781 104.31282458
-141.80230227 94.51464766 -101.50412604 -78.05228325 152.80069423]

*** 中間層出力1 ***

[2.16438483e-23 6.68838460e-77 1.00000000e+00 7.14659421e-40
1.00000000e+00 2.60640922e-62 1.00000000e+00 8.26643339e-45
1.26568048e-34 1.00000000e+00]

*** 総入力2 ***

8.909146432357257

*** 出力1 ***

8.909146432357257

出力合計: 8.909146432357257

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.29722357 -13.79631619 7.22046322 -3.40319312 7.02078007
-7.35326265 4.68101359 -6.80300007 -2.71875417 11.24470816]
[2.32489956 13.96252843 -7.30745234 3.44419336 -7.10536349
7.44185168 -4.73740848 6.88495976 2.75150858 -11.38017969]]

*** 偏微分_重み2 ***

[1.21922223e-22 3.76764201e-76 5.63311208e+00 4.02575662e-39
5.63311208e+00 1.46821953e-61 5.63311208e+00 4.65657458e-44
7.12972002e-34 5.63311208e+00]

*** 偏微分_バイアス1 ***

[-0.68432481 -4.10981396 2.15091914 -1.01378443 2.0914351 -2.19047904
1.39443709 -2.02656015 -0.80989546 3.34971002]

*** 偏微分_バイアス2 ***

5.633112081728312

順伝播開始

*** 総入力1 ***

[10.29124447 35.58212594 -50.23926699 16.7663726 -48.92010094
22.10930511 -48.85599326 17.6181845 12.62347902 -39.77753737]

*** 中間層出力1 ***

[9.99966072e-01 1.00000000e+00 1.51832090e-22 9.99999948e-01
5.67897697e-22 1.00000000e+00 6.05496615e-22 9.99999978e-01
9.9996706e-01 5.30682804e-18]

*** 総入力2 ***

-7.2927962818549705

*** 出力1 ***

-7.2927962818549705

出力合計: -7.2927962818549705

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.73744206 10.43430188 -7.03659193 2.57387151 -6.7924165
    5.5613514 -3.93131646 5.14518196 2.05622606 -11.9574964 ]
  [ -2.46996947 -14.8335347 10.00330752 -3.65904809 9.65618467
    -7.90608704 5.58880888 -7.31445534 -2.92315681 16.99892717 ] ]
```

*** 偏微分_重み2 ***

```
[ -7.66449755e+00 -7.66475759e+00 -1.16375616e-21 -7.66475719e+00
  -4.35279818e-21 -7.66475759e+00 -4.64098478e-21 -7.66475742e+00
  -7.66473235e+00 -4.06755505e-17 ]
```

*** 偏微分_バイアス1 ***

```
[ 0.73229993 4.39786668 -2.96579431 1.08483959 -2.86287885 2.34400751
  -1.65697771 2.16859974 0.86666154 -5.03986521 ]
```

*** 偏微分_バイアス2 ***

-7.664757593289935

順伝播開始

*** 総入力1 ***

```
[ -54.04532017 -141.48065501 98.07071584 -81.61935266 100.86048092
  -108.79683899 103.87321148 -86.84836238 -71.87916592 105.53289669 ]
```

*** 中間層出力1 ***

```
[ 3.37610292e-24 3.59527598e-62 1.00000000e+00 3.57409032e-36
  1.00000000e+00 5.62513797e-48 1.00000000e+00 1.91529403e-38
  6.07120472e-32 1.00000000e+00 ]
```

*** 総入力2 ***

7.474090235282644

*** 出力1 ***

7.474090235282644

出力合計: 7.474090235282644

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.18111338  8.52777794 -4.3581722  0.656439 -4.2069401
  3.64806483 -2.4348938  3.23131783  0.13807832 -7.40597564]
 [ 0.30845848 -14.52386038  7.42250619 -1.11799679  7.16493923
 -6.21310553  4.14692525 -5.50333385 -0.23516446 12.61329234]]
```

*** 偏微分_重み2 ***

```
[2.22532730e-23 2.36979321e-61 6.59140836e+00 2.35582888e-35
 6.59140836e+00 3.70775815e-47 6.59140836e+00 1.26244851e-37
 4.00177895e-31 6.59140836e+00]
```

*** 偏微分_バイアス1 ***

```
[ 0.08335599 -3.92484205  2.00581413 -0.30212083  1.93621076 -1.67899286
 1.12064053 -1.48718836 -0.06354945  3.40854146]
```

*** 偏微分_バイアス2 ***

6.5914083621353035

順伝播開始

*** 総入力1 ***

```
[-135.81794296 -431.37829974  280.18928492 -226.93128861  304.58830395
 -338.94763831  289.82744428 -249.17647276 -194.77848968  379.26672946]
```

*** 中間層出力1 ***

```
[1.03518228e-059 4.51632111e-188 1.00000000e+000 2.78608002e-099
 1.00000000e+000 6.26485506e-148 1.00000000e+000 6.08181019e-109
 2.56316603e-085 1.00000000e+000]
```

*** 総入力2 ***

5.167097308535286

*** 出力1 ***

5.167097308535286

出力合計: 5.167097308535286

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.01283278  0.60423509 -0.21674282  0.04651194 -0.20602728  0.25848337  
-0.08046907  0.22895479  0.00978353 -0.43269471]  
[-0.00491641  0.23149084 -0.08303718  0.01781937 -0.07893191  0.09902856  
-0.03082882  0.08771575  0.00374821 -0.16577134]]
```

*** 偏微分_重み2 ***

```
[-6.79375685e-060 -2.96399853e-188 -6.56286047e-001 -1.82846545e-099  
-6.56286047e-001 -4.11153697e-148 -6.56286047e-001 -3.99140717e-109  
-1.68217010e-085 -6.56286047e-001]
```

*** 偏微分_バイアス1 ***

```
[-0.0082995  0.39078433 -0.14017673  0.03008123 -0.13324654  0.1671721  
-0.05204274  0.14807472  0.00632742 -0.27984193]
```

*** 偏微分_バイアス2 ***

```
-0.6562860474354304
```

順伝播開始

*** 総入力1 ***

```
[ -83.24160476 -257.33853649  162.25869194 -137.15001363  176.30287652  
-202.72485106  168.72661474 -150.40928794 -118.53238364  220.29440387]
```

*** 中間層出力1 ***

```
[7.05716693e-037  1.73497660e-112  1.00000000e+000  2.73215849e-060  
1.00000000e+000  9.07226733e-089  1.00000000e+000  4.76514610e-066  
3.32690084e-052  1.00000000e+000]
```

*** 総入力2 ***

```
5.396797425137687
```

*** 出力1 ***

```
5.396797425137687
```

出力合計: 5.396797425137687

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.02220802 -1.04567118  0.39095044 -0.08049217  0.37240645 -0.44732359  
  0.15511916 -0.39622232 -0.01693108  0.76467033]  
 [ 0.0094202  -0.44355307  0.16583346 -0.03414319  0.15796746 -0.18974584  
  0.06579849 -0.16806968 -0.00718183  0.32435806]]
```


*** 偏微分_重み2 ***

[1.39383243e-036 3.42668194e-112 1.97505945e+000 5.39617545e-060
1.97505945e+000 1.79182674e-088 1.97505945e+000 9.41144686e-066
6.57082695e-052 1.97505945e+000]

*** 偏微分_バイアス1 ***

[0.02497691 -1.17604554 0.43969417 -0.09052794 0.41883811 -0.50309593
0.17445943 -0.44562334 -0.01904205 0.86000948]

*** 偏微分_バイアス2 ***

1.9750594532388517

順伝播開始

*** 総入力1 ***

[-59.18675607 -177.59731093 108.2324752 -96.07267974 117.55897511
-140.37923908 113.28326027 -105.18026838 -83.65420582 147.51838596]

*** 中間層出力1 ***

[1.97477871e-26 7.42109282e-78 1.00000000e+00 1.88871021e-42
1.00000000e+00 1.08161100e-61 1.00000000e+00 2.09309932e-46
4.67132434e-37 1.00000000e+00]

*** 総入力2 ***

4.705526616504089

*** 出力1 ***

4.705526616504089

出力合計: 4.705526616504089

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.01796382 -0.84583196 0.277623 -0.06510923 0.26262297 -0.36183515
0.08686166 -0.32049989 -0.01369537 0.57992092]
[0.00805133 -0.37909911 0.12442972 -0.02918175 0.11770675 -0.16217333
0.03893111 -0.143647 -0.00613822 0.25991866]]

*** 偏微分_重み2 ***

[4.69777626e-26 1.76539445e-77 2.37888744e+00 4.49302901e-42
2.37888744e+00 2.57303081e-61 2.37888744e+00 4.97924768e-46
1.11125548e-36 2.37888744e+00]

*** 偏微分_バイアス1 ***

[0.03008379 -1.41650417 0.46493176 -0.10903762 0.43981139 -0.60596079
0.14546614 -0.53673715 -0.02293546 0.9711863]

*** 偏微分_バイアス2 ***

2.378887440226622

順伝播開始

*** 総入力1 ***

[431.17137379 1432.787342 -990.88846985 738.00891155
-1075.27512309 1119.27533389 -1016.54798715 810.33739233
625.07403581 -1318.81769682]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-4.257338367290984

*** 出力1 ***

-4.257338367290984

出力合計: -4.257338367290984

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.62061899 29.22203253 -12.90969221 2.2494115 -12.07181809
12.50077922 -2.25411549 11.07271735 0.47315131 -29.79549692]
[-0.53606404 25.24073694 -11.1508378 1.94294507 -10.42711812
10.79763632 -1.94700817 9.5641378 0.40868778 -25.73607086]]

*** 偏微分_重み2 ***

[15.17844683 15.17844683 0. 15.17844683 0. 15.17844683
0. 15.17844683 15.17844683 0.]

*** 偏微分_バイアス1 ***

[0.15095789 -7.10789762 3.1401228 -0.5471415 2.93632029 -3.04065978
0.54828569 -2.69330141 -0.1150882 7.24738574]

*** 偏微分_バイアス2 ***

15.178446834381518

順伝播開始

*** 総入力1 ***

[285.8720441 967.23233894 -670.30741039 492.16754485 -726.78850792
751.47220659 -683.05849406 543.63138029 415.65334406 -896.21354097]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 7.74801566e-292 1.00000000e+000
0.00000000e+000 1.00000000e+000 2.24628684e-297 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-11.694777316137928

*** 出力1 ***

-11.694777316137928

出力合計: -11.694777316137928

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.73384278 2.49782222 -0.76308339 0.90348838 -0.7135572 1.50943997
-0.13323928 1.42502817 0.79849482 -1.76119216]
[0.62027296 2.1112582 -0.64498828 0.76366414 -0.60312679 1.2758384
-0.11261911 1.20449021 0.67491942 -1.48862933]]

*** 偏微分_重み2 ***

[1.32846687e+000 1.32846687e+000 1.02929821e-291 1.32846687e+000
0.00000000e+000 1.32846687e+000 2.98411765e-297 1.32846687e+000
1.32846687e+000 0.00000000e+000]

*** 偏微分_バイアス1 ***

[-0.26430237 -0.89962093 0.27483373 -0.32540229 0.25699627 -0.54364309
0.04798774 -0.51324116 -0.28758758 0.63431469]

*** 偏微分_バイアス2 ***

1.3284668706742995

順伝播開始

*** 総入力1 ***

[251.59260496 864.20273093 -593.22300084 436.38277358 -645.55148672
671.87865995 -603.12334124 483.90642778 367.99147631 -806.0114216]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 2. 32554205e-258 1. 00000000e+000
4. 37070540e-281 1. 00000000e+000 1. 16643621e-262 1. 00000000e+000
1. 00000000e+000 0. 00000000e+000]

*** 総入力2 ***

-12. 345726082768337

*** 出力1 ***

-12. 345726082768337

出力合計: -12. 345726082768337

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 25011765 -0. 80073839 0. 23819413 -0. 303072 0. 22273468 -0. 49221792
0. 04159023 -0. 46586904 -0. 27029858 0. 54975071]
[-0. 03721584 -0. 11914455 0. 0354417 -0. 0450951 0. 03314144 -0. 07323876
0. 00618835 -0. 06931822 -0. 04021863 0. 08179925]]

*** 偏微分_重み2 ***

[-3. 15600599e-001 -3. 15600599e-001 -7. 33942465e-259 -3. 15600599e-001
-1. 37939724e-281 -3. 15600599e-001 -3. 68127966e-263 -3. 15600599e-001
-3. 15600599e-001 0. 00000000e+000]

*** 偏微分_バイアス1 ***

[0. 06855994 0. 219491 -0. 06529157 0. 08307529 -0. 06105397 0. 13492222
-0. 01140033 0. 12769971 0. 07409175 -0. 15069258]

*** 偏微分_バイアス2 ***

-0. 31560059905716464

順伝播開始

*** 総入力1 ***

[412. 99020643 1382. 43146111 -956. 57295091 706. 97603415
-1035. 62492062 1074. 10504862 -976. 04972869 779. 74757451
598. 19087468 -1272. 06188083]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-12.191081789230326

*** 出力1 ***

-12.191081789230326

出力合計: -12.191081789230326

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 4.21223177 13.67442985 -4.09327116 5.12223124 -3.82760673
    8.37262847 -0.71471154 7.91983344 4.5590331 -9.44724678]
  [ 5.6161817 18.23215978 -5.45757115 6.82948682 -5.10335994
    11.16325154 -0.95292711 10.55953852 6.07857299 -12.59604347]]
```

*** 偏微分_重み2 ***

```
[6.12220591 6.12220591 0. 6.12220591 0. 6.12220591
 0. 6.12220591 6.12220591 0.]
```

*** 偏微分_バイアス1 ***

```
[-1.30337376 -4.23122327 1.26656426 -1.5849512 1.1843608 -2.59070841
 0.22115029 -2.45060189 -1.41068309 2.92322319]
```

*** 偏微分_バイアス2 ***

6.122205908274443

順伝播開始

*** 総入力1 ***

```
[ 65.00170916 229.40153848 -170.49512004 114.12222924 -183.72658831
 176.23237888 -171.86695462 126.16919552 94.95938052 -221.38809496]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 9.01384689e-75 1.00000000e+00
 1.61642857e-80 1.00000000e+00 2.28628300e-75 1.00000000e+00
 1.00000000e+00 7.11822975e-97]
```

*** 総入力2 ***

-15.190962684284806

*** 出力1 ***

-15.190962684284806

出力合計: -15.190962684284806

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.47986457 -1.252156 0.33408709 -0.55413746 0.31240393
 -0.81943035 0.05833376 -0.78247386 -0.50817001 0.77107113]
 [-4.64758958 -12.12739502 3.23570397 -5.36693818 3.02569799
 -7.93635585 0.56497478 -7.57842435 -4.92173375 7.46798654]]
```

*** 偏微分_重み2 ***

```
[-1.22393782e+01 -1.22393782e+01 -1.10323881e-73 -1.22393782e+01
 -1.97840806e-79 -1.22393782e+01 -2.79826823e-74 -1.22393782e+01
 -1.22393782e+01 -8.71227060e-96]
```

*** 偏微分_バイアス1 ***

```
[ 3.63695259 9.49024436 -2.53208717 4.19987596 -2.36774783 6.21056346
 -0.44211875 5.9304656 3.85148302 -5.84404294]
```

*** 偏微分_バイアス2 ***

-12.239378196047129

順伝播開始

*** 総入力1 ***

```
[ 207.18352166 717.0158757 -492.3161539 360.41680526 -536.03823189
 556.8593781 -499.37169532 400.48444005 303.5324708 -671.4279883 ]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.54814277e-214 1.00000000e+000
 1.59057371e-233 1.00000000e+000 1.33545206e-217 1.00000000e+000
 1.00000000e+000 2.52656042e-292]
```

*** 総入力2 ***

-9.19366736822171

*** 出力1 ***

-9.19366736822171

出力合計: -9.19366736822171

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.34702539 1.63649981 -0.55781631 0.47103686 -0.52161252 0.91398933
 -0.09739832 0.85228405 0.39428623 -1.28743691]
```

```
[ 0.02062283  0.097253  -0.0331496  0.02799252 -0.0309981  0.05431605  
-0.00578813  0.05064906  0.02343142 -0.07650908]]
```

*** 偏微分_重み2 ***

```
[8.38267053e-001 8.38267053e-001 1.29775708e-214 8.38267053e-001  
1.33332554e-233 8.38267053e-001 1.11946546e-217 8.38267053e-001  
8.38267053e-001 2.11793236e-292]
```

*** 偏微分_バイアス1 ***

```
[-0.10788765 -0.5087758  0.173421  -0.14644191  0.16216551 -0.28415259  
0.03028043 -0.26496887 -0.1225807  0.4002547 ]
```

*** 偏微分_バイアス2 ***

0.8382670532226761

順伝播開始

*** 総入力1 ***

```
[ -318.82983708 -1038.59086478  693.37245073 -537.57003746  
 751.15854044 -809.34571958  710.02002241 -593.1039324  
-458.44158056  930.80923546]
```

*** 中間層出力1 ***

```
[3.41948805e-139 0.00000000e+000 1.00000000e+000 3.43794635e-234  
1.00000000e+000 0.00000000e+000 1.00000000e+000 2.61959988e-258  
7.96803599e-200 1.00000000e+000]
```

*** 総入力2 ***

3.109047461423366

*** 出力1 ***

3.109047461423366

出力合計: 3.109047461423366

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 5.27060507  23.24395324 -4.80891607  6.99913972 -4.49680434  
 13.17323592 -0.83966775  12.31315641  5.92935064 -11.09895121]  
[ 4.9739759  21.93578568 -4.53827071  6.60522878 -4.24372461  
 12.43184741 -0.79241133  11.62017309  5.59564733 -10.47430325]]
```

*** 偏微分_重み2 ***

```
[-3.61256198e-138 0.00000000e+000 -1.05646282e+001 -3.63206248e-233  
-1.05646282e+001 0.00000000e+000 -1.05646282e+001 -2.76750987e-257  
-8.41793375e-199 -1.05646282e+001]
```

*** 偏微分_バイアス1 ***

```
[ 1.88389484 8.30818532 -1.71887138 2.50173236 -1.60731195 4.70856588  
-0.30012602 4.401144 2.11935308 -3.96714546]
```

*** 偏微分_バイアス2 ***

-10.56462816498015

順伝播開始

*** 総入力1 ***

```
[-118.56841565 -404.63274268 241.88441971 -203.99914243 268.59646799  
-317.91595086 245.86387213 -230.06074283 -174.41935336 363.14421541]
```

*** 中間層出力1 ***

```
[3.20915990e-052 1.86308494e-176 1.00000000e+000 2.53686952e-089  
1.00000000e+000 8.52818927e-139 1.00000000e+000 1.21867776e-100  
1.78089082e-076 1.00000000e+000]
```

*** 総入力2 ***

6.8066673191664195

*** 出力1 ***

6.8066673191664195

出力合計: 6.8066673191664195

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.36625026 -1.61520427 0.63280073 -0.48636479 0.61111232 -0.91539794  
0.35698074 -0.85563168 -0.41202597 1.06989039]  
[ 0.28473447 1.25571062 -0.4919592 0.37811529 -0.47509795 0.71165916  
-0.27752806 0.66519499 0.32032196 -0.83176645]]
```

*** 偏微分_重み2 ***

```
[1.50278596e-052 8.72445744e-177 4.68280177e-001 1.18796571e-089  
4.68280177e-001 3.99358198e-139 4.68280177e-001 5.70682638e-101  
8.33955870e-077 4.68280177e-001]
```

*** 偏微分_バイアス1 ***


```
[-0.08350418 -0.3682627  0.14427705 -0.11089    0.13933214 -0.20870853  
 0.08139075 -0.19508197 -0.09394093  0.24393244]
```

*** 偏微分_バイアス2 ***

0.46828017659394394

順伝播開始

*** 総入力1 ***

```
[ 336.83569714 1147.04686618 -781.83313884  579.78726085  
 -848.96777659  889.305293  -793.55283194  644.13625928  
 489.81063657 -1058.46299823]
```

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-8.897673865113788

*** 出力1 ***

-8.897673865113788

出力合計: -8.897673865113788

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3.83824811 16.92710008 -10.49787434  5.0970305 -10.13038654  
  9.59323401 -5.82438659  8.96689253  4.31797081 -17.9039119 ]  
 [ 1.48102354  6.53147817 -4.05070193  1.96673637 -3.90890337  
  3.7016381  -2.24739345  3.45995844  1.66612899 -6.90839005]]
```

*** 偏微分_重み2 ***

```
[6.64263473 6.64263473 0.          6.64263473 0.          6.64263473  
 0.          6.64263473 6.64263473 0.          ]
```

*** 偏微分_バイアス1 ***

```
[-0.93156396 -4.10830044  2.54789193 -1.23707738  2.45870062 -2.32833074  
 1.41361071 -2.17631421 -1.0479953  4.34537805]
```

*** 偏微分_バイアス2 ***

6.642634729170567

順伝播開始

*** 総入力1 ***

```
[ 451.03206098 1519.08248364 -1038.67921892 770.88738445
-1124.52572258 1175.74214339 -1054.00433928 855.74438824
652.29782736 -1393.2954939 ]
```

*** 中間層出力1 ***

```
[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]
```

*** 総入力2 ***

```
-12.152564882407365
```

*** 出力1 ***

```
-12.152564882407365
```

出力合計: -12.152564882407365

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 7.3634543 22.56432021 -12.19180876 8.8253535 -11.76502322
14.04706331 -6.76420818 13.31965553 7.92058494 -20.79288274]
[ 7.09076339 21.72869543 -11.74030934 8.49852407 -11.32932896
13.52685822 -6.51370916 12.82638854 7.62726181 -20.02285962]]
```

*** 偏微分_重み2 ***

```
[7.83392706 7.83392706 0. 7.83392706 0. 7.83392706
0. 7.83392706 7.83392706 0.]
```

*** 偏微分_バイアス1 ***

```
[-1.81482022 -5.56127367 3.00483172 -2.17512452 2.89964481 -3.46208362
1.66712813 -3.2828044 -1.9521324 5.1246796 ]
```

*** 偏微分_バイアス2 ***

```
7.833927058272426
```

順伝播開始

*** 総入力1 ***

```
[-218.09068524 -706.30160039 463.72458836 -364.53165069 501.62779315
-548.23818725 472.408808 -404.57418907 -311.64378807 626.07659626]
```

*** 中間層出力1 ***

```
[1.92494731e-095 1.80764186e-307 1.00000000e+000 4.85194228e-159
1.00000000e+000 8.00166765e-239 1.00000000e+000 1.97543236e-176
```

4. 51671325e-136 1. 00000000e+000]

*** 総入力2 ***

5. 629409932237529

*** 出力1 ***

5. 629409932237529

出力合計: 5. 629409932237529

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2. 77333854 6. 68022885 -1. 93807581 3. 14907239 -1. 87023168 4. 49114379
-1. 07527509 4. 30418718 2. 91653093 -3. 30534902]
[2. 60365561 6. 27150818 -1. 81949729 2. 9564007 -1. 75580411 4. 2163593
-1. 00948585 4. 04084137 2. 73808697 -3. 10311575]]

*** 偏微分_重み2 ***

[-6. 64320318e-095 -6. 23836927e-307 -3. 45110910e+000 -1. 67445821e-158
-3. 45110910e+000 -2. 76146280e-238 -3. 45110910e+000 -6. 81743260e-176
-1. 55876702e-135 -3. 45110910e+000]

*** 偏微分_バイアス1 ***

[1. 48970855 3. 58830842 -1. 04104424 1. 69153531 -1. 00460152 2. 41243368
-0. 5775878 2. 31200928 1. 56662485 -1. 77547985]

*** 偏微分_バイアス2 ***

-3. 4511090974435525

順伝播開始

*** 総入力1 ***

[81. 91223131 276. 70429833 -207. 71116383 139. 8739729 -221. 57618815
211. 24369186 -209. 57593123 154. 06388296 117. 12787369 -260. 29239845]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 6. 19708877e-091 1. 00000000e+000
5. 89772021e-097 1. 00000000e+000 9. 60128869e-092 1. 00000000e+000
1. 00000000e+000 9. 04581439e-114]

*** 総入力2 ***

-15. 749611504139803

*** 出力1 ***

-15.749611504139803

出力合計: -15.749611504139803

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3.55367679  8.55985445 -4.64740091  4.03513142 -4.50684548
  5.75482338 -2.8599019  5.51526251  3.73715943 -7.48003587]
 [-12.06051123 -29.05053742 15.77240534 -13.69447774 15.29538663
 -19.5307891  9.70596961 -18.71776454 -12.68321682 25.38583611]]
```

*** 偏微分_重み2 ***

```
[-1.26038182e+001 -1.26038182e+001 -7.81069801e-090 -1.26038182e+001
 -7.43337931e-096 -1.26038182e+001 -1.21012897e-090 -1.26038182e+001
 -1.26038182e+001 -1.14011800e-112]
```

*** 偏微分_バイアス1 ***

```
[ 4.27872738 10.30630688 -5.59560215  4.85841236 -5.42636944  6.92897013
 -3.44340278  6.64053207  4.49964567 -9.00617478]
```

*** 偏微分_バイアス2 ***

-12.603818168283464

順伝播開始

*** 総入力1 ***

```
[-122.22161273 -412.73166611 245.81672572 -207.11895113 271.82711465
 -322.31106238 246.43755216 -235.48915663 -177.50175497 370.39640487]
```

*** 中間層出力1 ***

```
[8.31434460e-054 5.66128346e-180 1.00000000e+000 1.12042406e-090
 1.00000000e+000 1.05216573e-140 1.00000000e+000 5.35006093e-103
 8.16520865e-078 1.00000000e+000]
```

*** 総入力2 ***

7.719565388122615

*** 出力1 ***

7.719565388122615

出力合計: 7.719565388122615

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.35431343 -5.2556576  2.24005084 -1.7295139  2.17230302 -3.06968012
  1.37847493 -2.88298891 -1.49730255  3.60538309]
 [ 1.0550627  4.09436114 -1.7450865  1.34735841 -1.69230831  2.39139989
 -1.07388544  2.24596019  1.16645677 -2.80873328]]
```

*** 偏微分_重み2 ***

```
[1.23338456e-053 8.39818402e-180 1.48344171e+000 1.66208378e-090
 1.48344171e+000 1.56082652e-140 1.48344171e+000 7.93650354e-103
 1.21126111e-077 1.48344171e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.31314563 -1.21521812  0.51794668 -0.39989984  0.50228196 -0.70977434
 0.31873228 -0.66660742 -0.34620771  0.83364009]
```

*** 偏微分_バイアス2 ***

1.4834417094404344

順伝播開始

*** 総入力1 ***

```
[ -37.69247984 -128.24368208  57.00770866 -63.49781839  66.92470787
 -102.40965266  55.86954492 -74.74077224 -55.59926204 111.62064357]
```

*** 中間層出力1 ***

```
[4.26937201e-17 2.01593503e-56 1.00000000e+00 2.65001211e-28
 1.00000000e+00 3.34235794e-45 1.00000000e+00 3.47132315e-33
 7.13751932e-25 1.00000000e+00]
```

*** 総入力2 ***

7.200360789818462

*** 出力1 ***

7.200360789818462

出力合計: 7.200360789818462

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-3.19774675 -12.40943317  4.97983565 -4.08365399  4.81987239
 -7.24799697  2.94551959 -6.80718968 -3.53536652  8.20359956]
 [ 3.56833954 13.84758531 -5.556958  4.5569162 -5.37845631
```

8. 08798073 -3. 2868813 7. 59608748 3. 94508668 -9. 15432987]]

*** 偏微分_重み2 ***

[2. 02830945e-16 9. 57738063e-56 4. 75083793e+00 1. 25897780e-27
4. 75083793e+00 1. 58790009e-44 4. 75083793e+00 1. 64916937e-32
3. 39091975e-24 4. 75083793e+00]

*** 偏微分_バイアス1 ***

[-1. 00287335 -3. 89183095 1. 56176984 -1. 28071047 1. 51160237 -2. 27310777
0. 92377018 -2. 13486234 -1. 10875724 2. 57280266]

*** 偏微分_バイアス2 ***

4. 750837929815616

順伝播開始

*** 総入力1 ***

[-227. 91147886 -752. 90580391 484. 75002454 -384. 7805771 528. 18855862
-586. 20003473 491. 94514987 -429. 43160273 -328. 52309727 675. 63265325]

*** 中間層出力1 ***

[1. 04544784e-099 0. 00000000e+000 1. 00000000e+000 7. 79683998e-168
1. 00000000e+000 2. 60951396e-255 1. 00000000e+000 3. 16391334e-187
2. 10975331e-143 1. 00000000e+000]

*** 総入力2 ***

5. 537567514382997

*** 出力1 ***

5. 537567514382997

出力合計: 5. 537567514382997

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3. 95358077 15. 34258341 -4. 93229623 5. 04888508 -4. 73452332 8. 9611666
-2. 41713994 8. 4161681 4. 37100188 -8. 91804369]
[-0. 69646513 -2. 70275857 0. 86887622 -0. 88941458 0. 83403643 -1. 57860441
0. 4258048 -1. 48259715 -0. 76999828 1. 57100785]]

*** 偏微分_重み2 ***

[-5. 01594410e-099 0. 00000000e+000 -4. 79789037e+000 -3. 74083834e-167
-4. 79789037e+000 -1. 25201619e-254 -4. 79789037e+000 -1. 51801094e-186

-1.01223651e-142 -4.79789037e+000]

*** 偏微分_バイアス1 ***

[1.01280584 3.93037576 -1.2635276 1.29339466 -1.21286326 2.29562069
-0.61920916 2.15600608 1.1197384 -2.28457371]

*** 偏微分_バイアス2 ***

-4.79789036561611

順伝播開始

*** 総入力1 ***

[360.3863152 1222.37212968 -832.27355181 616.55737261
-901.62777808 944.32102079 -841.1181934 687.24108968
521.31749697 -1124.49485359]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-9.674287850835702

*** 出力1 ***

-9.674287850835702

出力合計: -9.674287850835702

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.09519589 15.89214643 -10.33143307 5.22973341 -10.00021721
9.28215073 -6.1192299 8.71763067 4.5275688 -17.00647677]
[2.53124346 9.8229469 -6.38586606 3.2325019 -6.1811413
5.7373039 -3.78230031 5.38837366 2.79849346 -10.51171527]]

*** 偏微分_重み2 ***

[6.47193981 6.47193981 0. 6.47193981 0. 6.47193981
0. 6.47193981 6.47193981 0.]

*** 偏微分_バイアス1 ***

[-1.07443515 -4.16953944 2.71060413 -1.37209784 2.62370475 -2.4353094
1.60547038 -2.28719922 -1.18787458 4.46190048]

*** 偏微分_バイアス2 ***

6. 471939805685297

順伝播開始

*** 総入力1 ***

[157.17644384 531.3224253 -378.66008056 268.53428346 -406.79366718
407.88030757 -383.05279632 297.53561347 226.13953934 -491.33811721]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.54826866e-165 1.00000000e+000
2.14661951e-177 1.00000000e+000 4.38817847e-167 1.00000000e+000
1.00000000e+000 4.11686804e-214]

*** 総入力2 ***

-12.845538355621496

*** 出力1 ***

-12.845538355621496

出力合計: -12.845538355621496

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.08793426 0.25279272 -0.14437834 0.10378905 -0.13974971
0.16042023 -0.0855142 0.15253125 0.09397653 -0.23765985]
[-5.39261321 -15.50264187 8.85407496 -6.36491591 8.57022178
-9.83785199 5.24420183 -9.3540563 -5.76315834 14.5746112]]

*** 偏微分_重み2 ***

[-6.34866003e+000 -6.34866003e+000 -2.25267514e-164 -6.34866003e+000
-1.36281575e-176 -6.34866003e+000 -2.78590532e-166 -6.34866003e+000
-6.34866003e+000 -2.61365955e-213]

*** 偏微分_バイアス1 ***

[1.61945832 4.65560598 -2.65897159 1.91145102 -2.5737275 2.95441015
-1.57488882 2.80912123 1.73073691 -4.37690863]

*** 偏微分_バイアス2 ***

-6.348660028451663

順伝播開始

*** 総入力1 ***

[135.64119828 465.75476012 -330.51705572 233.8521723 -356.32587033

358.08798027 -333.96439636 259.6748465 196.50821577 -434.61160237]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.87254291e-144 1.00000000e+000
1.77680905e-155 1.00000000e+000 9.14335348e-146 1.00000000e+000
1.00000000e+000 1.78065310e-189]

*** 総入力2 ***

-9.734694941680184

*** 出力1 ***

-9.734694941680184

出力合計: -9.734694941680184

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.33957339 -1.30787966 0.84801503 -0.43269744 0.82082848 -0.76532417
0.50227291 -0.71898776 -0.37506302 1.39590972]
[-1.38374554 -5.32954781 3.45562118 -1.76322163 3.34483727 -3.11865984
2.04673836 -2.92984117 -1.5283641 5.68826617]]

*** 偏微分_重み2 ***

[-3.81128239e+000 -3.81128239e+000 -1.09480722e-143 -3.81128239e+000
-6.77192104e-155 -3.81128239e+000 -3.48479021e-145 -3.81128239e+000
-3.81128239e+000 -6.78657182e-189]

*** 偏微分_バイアス1 ***

[0.63919425 2.46188063 -1.59625678 0.81448583 -1.54508231 1.44060406
-0.94545085 1.35338296 0.70599798 -2.62758357]

*** 偏微分_バイアス2 ***

-3.811282392529745

順伝播開始

*** 総入力1 ***

[-49.74927627 -151.87690653 85.18449474 -80.16935506 93.33436106
-119.29657583 87.04182239 -89.97957901 -70.11168664 125.45247744]

*** 中間層出力1 ***

[2.47835684e-22 1.09824078e-66 1.00000000e+00 1.52367198e-35
1.00000000e+00 1.54937094e-52 1.00000000e+00 8.36306267e-40]

3.55534192e-31 1.00000000e+00]

*** 総入力2 ***

7.474989325419363

*** 出力1 ***

7.474989325419363

出力合計: 7.474989325419363

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.88448197 -4.55445113 1.98789277 -1.23743061 1.92416282 -2.49811629
1.17741389 -2.32249708 -1.0189909 3.27225196]
[0.5054084 2.60249269 -1.13591654 0.7070894 -1.09950015 1.42746715
-0.6727948 1.32711527 0.58226915 -1.86982175]]

*** 偏微分_重み2 ***

[1.33805803e-21 5.92937167e-66 5.39897243e+00 8.22626300e-35
5.39897243e+00 8.36501098e-52 5.39897243e+00 4.51519448e-39
1.91951930e-30 5.39897243e+00]

*** 偏微分_バイアス1 ***

[-0.79124072 -4.07432524 1.77833101 -1.10698186 1.72131942 -2.23476726
1.05329204 -2.07766165 -0.91156985 2.92729428]

*** 偏微分_バイアス2 ***

5.398972433621326

順伝播開始

*** 総入力1 ***

[79.17274424 263.91462791 -205.52914793 135.48625599 -217.71051617
201.09997355 -210.70453636 146.85005304 113.20787937 -243.77090976]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 5.49319711e-090 1.00000000e+000
2.81529674e-095 1.00000000e+000 3.10586479e-092 1.00000000e+000
1.00000000e+000 1.35406353e-106]

*** 総入力2 ***

-8.2450946396941

*** 出力1 ***

-8.2450946396941

出力合計: -8.2450946396941

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.216634    6.26479717 -3.4237009    1.70212646 -3.28196667
   3.43624103 -1.6212106    3.19467103    1.40165546 -6.28009244]
 [-2.69332278 -13.86869091  7.57921578  -3.76808141  7.26545172
  -7.60697649  3.58895398 -7.07220105  -3.10291393 13.90255082]]
```

*** 偏微分_重み2 ***

```
[-5.51069564e+000 -5.51069564e+000 -3.02713374e-089 -5.51069564e+000
 -1.55142435e-094 -5.51069564e+000 -1.71154756e-091 -5.51069564e+000
 -5.51069564e+000 -7.46183199e-106]
```

*** 偏微分_バイアス1 ***

```
[ 0.63514636  3.27055062 -1.7873503   0.88859872 -1.71335764  1.7938969
 -0.84635643  1.66778477  0.7317372  -3.27853555]
```

*** 偏微分_バイアス2 ***

-5.510695644148757

順伝播開始

*** 総入力1 ***

```
[ 61.99838124 238.82854549 -163.49575676 112.49284254 -179.85577379
 183.37314931 -160.08198914 129.20377683  93.15915589 -238.424298 ]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 9.87859141e-072 1.00000000e+000
 7.75585900e-079 1.00000000e+000 3.00106544e-070 1.00000000e+000
 1.00000000e+000 2.84212403e-104]
```

*** 総入力2 ***

-5.544853774061209

*** 出力1 ***

-5.544853774061209

出力合計: -5.544853774061209

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.17091571 -2.24472992 1.40647585 -0.37035878 1.34825062 -1.08274293
 0.66600256 -0.9835046 -0.24692358 2.57989777]
 [ 0.1211563 1.59121223 -0.9970026 0.26253467 -0.95572873 0.76751942
 -0.47210642 0.69717276 0.17503568 -1.82880126]]
```

*** 偏微分_重み2 ***

```
[-1.86412798e+000 -1.86412798e+000 -1.84149587e-071 -1.86412798e+000
 -1.44579138e-078 -1.86412798e+000 -5.59437006e-070 -1.86412798e+000
 -1.86412798e+000 -5.29808294e-104]
```

*** 偏微分_バイアス1 ***

```
[ 0.07347316 0.9649633 -0.60461508 0.15920964 -0.57958525 0.46544895
 -0.28630082 0.42278843 0.10614738 -1.10904507]
```

*** 偏微分_バイアス2 ***

-1.8641279832727404

順伝播開始

*** 総入力1 ***

```
[ 58.10611118 244.23323191 -152.45185223 109.17099856 -172.17184382
 188.24787516 -143.90138934 130.30618511 90.05877999 -253.21647613]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 6.18018989e-067 1.00000000e+000
 1.68545937e-075 1.00000000e+000 3.19463077e-063 1.00000000e+000
 1.00000000e+000 1.07024126e-110]
```

*** 総入力2 ***

-4.631431062257567

*** 出力1 ***

-4.631431062257567

出力合計: -4.631431062257567

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.01147967 -0.41050272 0.27062033 -0.04985456 0.2594172 -0.18692455
 0.1281457 -0.16783008 -0.02610436 0.4963987 ]
 [ 0.01188861 0.4251261 -0.28026066 0.05163053 -0.26865844 0.19358338
```

-0.13271065 0.1738087 0.02703428 -0.51408196]]

*** 偏微分_重み2 ***

[-1.73843265e-001 -1.73843265e-001 -1.07438439e-067 -1.73843265e-001
-2.93005760e-076 -1.73843265e-001 -5.55365042e-064 -1.73843265e-001
-1.73843265e-001 -1.86054234e-111]

*** 偏微分_バイアス1 ***

[0.00239183 0.08552966 -0.05638468 0.01038737 -0.05405047 0.03894637
-0.0266996 0.03496798 0.00543893 -0.10342638]

*** 偏微分_バイアス2 ***

-0.1738432645769592

順伝播開始

*** 総入力1 ***

[218.93973409 740.85136458 -517.15534621 374.95571131 -558.10313562
571.38048271 -524.43713492 415.70763746 316.33887213 -682.70596505]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.52514811e-225 1.00000000e+000
4.15803240e-243 1.00000000e+000 1.73718552e-228 1.00000000e+000
1.00000000e+000 3.19570452e-297]

*** 総入力2 ***

-4.546247862614857

*** 出力1 ***

-4.546247862614857

出力合計: -4.546247862614857

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.05983812 2.57758835 -1.70755648 0.30197545 -1.63686713 1.16685783
-0.808572 1.0463758 0.1521168 -3.1321698]
[0.1754067 7.55582306 -5.00545195 0.88519685 -4.79823645 3.42047297
-2.37021048 3.06729755 0.44590814 -9.18149741]]

*** 偏微分_重み2 ***

[4.92593115e+000 4.92593115e+000 1.24387057e-224 4.92593115e+000
2.04821813e-242 4.92593115e+000 8.55725626e-228 4.92593115e+000

4. 92593115e+000 1. 57418204e-296]

*** 偏微分_バイアス1 ***

[-0. 05598794 -2. 41173769 1. 59768659 -0. 28254534 1. 53154562 -1. 09177829
0. 75654577 -0. 97904848 -0. 1423291 2. 93063551]

*** 偏微分_バイアス2 ***

4. 925931146697112

順伝播開始

*** 総入力1 ***

[-45. 43011834 -158. 84921941 71. 72099952 -76. 71958267 84. 12436839
-125. 94638007 67. 55250605 -91. 7464179 -66. 90263214 143. 75329418]

*** 中間層出力1 ***

[1. 86187403e-20 1. 02958108e-69 1. 00000000e+00 4. 79853419e-34
1. 00000000e+00 2. 00531277e-55 1. 00000000e+00 1. 42901560e-40
8. 80148673e-30 1. 00000000e+00]

*** 総入力2 ***

5. 768940475822993

*** 出力1 ***

5. 768940475822993

出力合計: 5. 768940475822993

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1. 14260564 -8. 04543822 2. 89553956 -1. 80646555 2. 77567013 -4. 17768498
1. 3711126 -3. 84736339 -1. 39560304 5. 31128643]
[1. 29661727 9. 12988154 -3. 28582888 2. 04995875 -3. 14980227 4. 74079446
-1. 55592465 4. 36594889 1. 58371615 -6. 02719387]]

*** 偏微分_重み2 ***

[5. 05486554e-20 2. 79524494e-69 2. 71493424e+00 1. 30277048e-33
2. 71493424e+00 5. 44429229e-55 2. 71493424e+00 3. 87968339e-40
2. 38954577e-29 2. 71493424e+00]

*** 偏微分_バイアス1 ***

[-0. 27327462 -1. 92421073 0. 69252018 -0. 43204861 0. 66385125 -0. 99916823
0. 32792615 -0. 9201659 -0. 33378348 1. 27028933]

*** 偏微分_バイアス2 ***

2. 7149342380601356

順伝播開始

*** 総入力1 ***

[-156.08510567 -486.51490978 327.44261404 -256.43529503 349.98532998
-376.0286669 337.50794295 -281.33713241 -220.0002626 416.64433018]

*** 中間層出力1 ***

[1.63342764e-068 5.11987455e-212 1.00000000e+000 4.28120872e-112
1.00000000e+000 4.92975038e-164 1.00000000e+000 6.55897294e-123
2.85167439e-096 1.00000000e+000]

*** 総入力2 ***

4.818713492501946

*** 出力1 ***

4.818713492501946

出力合計: 4.818713492501946

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.06824813 -0.48055614 0.14761651 -0.10790066 0.14045667 -0.24953422
0.05656208 -0.22980403 -0.08335974 0.2919097]
[0.29150892 2.05260407 -0.63051581 0.46087714 -0.59993395 1.06583793
-0.24159417 0.98156416 0.35605525 -1.24683672]]

*** 偏微分_重み2 ***

[-1.11573891e-068 -3.49721233e-212 -6.83066019e-001 -2.92434820e-112
-6.83066019e-001 -3.36734497e-164 -6.83066019e-001 -4.48021154e-123
-1.94788188e-096 -6.83066019e-001]

*** 偏微分_バイアス1 ***

[0.06875474 0.48412331 -0.14871227 0.10870161 -0.14149929 0.25138652
-0.05698194 0.23150987 0.08397852 -0.29407655]

*** 偏微分_バイアス2 ***

-0.6830660191229132

順伝播開始

*** 総入力1 ***

[-102.7794539 -313.98450036 206.79670979 -167.09264941 220.87554824
-243.13553504 213.91828307 -183.17822742 -144.09127101 263.34342896]

*** 中間層出力1 ***

[2.30914029e-045 4.34774528e-137 1.00000000e+000 2.70759931e-073
1.00000000e+000 2.55610552e-106 1.00000000e+000 2.79709119e-080
2.64214173e-063 1.00000000e+000]

*** 総入力2 ***

5.057786599194966

*** 出力1 ***

5.057786599194966

出力合計: 5.057786599194966

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.10525825 0.74115574 -0.23749785 0.16641385 -0.22645533 0.38485352
-0.09706575 0.35442388 0.12856468 -0.46003944]
[-0.43228082 -3.04382236 0.97537026 -0.68343825 0.93002018 -1.58053926
0.39863537 -1.45556903 -0.52799706 1.88931728]]

*** 偏微分_重み2 ***

[3.59696485e-045 6.77251487e-137 1.55770737e+000 4.21764740e-073
1.55770737e+000 3.98166441e-106 1.55770737e+000 4.35704956e-080
4.11568365e-063 1.55770737e+000]

*** 偏微分_バイアス1 ***

[-0.1567927 -1.10402572 0.35377684 -0.24789009 0.3373279 -0.57327787
0.14458916 -0.52794988 -0.19150997 0.68527484]

*** 偏微分_バイアス2 ***

1.5577073724975552

順伝播開始

*** 総入力1 ***

[51.4570974 174.73694686 -144.47072715 89.05266903 -151.76086184
131.53885281 -148.48242844 95.84817725 73.6448966 -162.71477021]

*** 中間層出力1 ***


```
[1.00000000e+00 1.00000000e+00 1.80784170e-63 1.00000000e+00
1.23337498e-66 1.00000000e+00 3.27265836e-65 1.00000000e+00
1.00000000e+00 2.15711438e-71]
```

*** 総入力2 ***

-7.2112244158968775

*** 出力1 ***

-7.2112244158968775

出力合計: -7.2112244158968775

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.92293405  6.4986629 -3.0491105  1.45916361 -2.89256412
  3.37450436 -1.05824831  3.10768874  1.12729145 -6.20401342]
 [ -1.73744538 -12.23388801  5.74002328 -2.74691032  5.445321
  -6.352585  1.9921777 -5.85029822 -2.12215306 11.67920333]]
```

*** 偏微分_重み2 ***

```
[-5.62570073e+00 -5.62570073e+00 -1.01703764e-62 -5.62570073e+00
 -6.93859851e-66 -5.62570073e+00 -1.84109965e-64 -5.62570073e+00
 -5.62570073e+00 -1.21352799e-70]
```

*** 偏微分_バイアス1 ***

```
[ 0.44533463  3.13573828 -1.47125842  0.7040764 -1.39572158  1.62826764
 -0.51062654  1.49952362  0.54394127 -2.99356385]
```

*** 偏微分_バイアス2 ***

-5.62570072672066

順伝播開始

*** 総入力1 ***

```
[-190.3996713 -606.96228654 402.71884689 -316.15419752 433.65771993
 -470.61953531 412.62871917 -349.01919418 -270.65376875 530.72155126]
```

*** 中間層出力1 ***

```
[2.04396474e-083 2.50973712e-264 1.00000000e+000 4.96565551e-138
1.00000000e+000 4.09762998e-205 1.00000000e+000 2.64782872e-152
2.86128899e-118 1.00000000e+000]
```

*** 総入力2 ***

4. 906388069691268

*** 出力1 ***

4. 906388069691268

出力合計: 4. 906388069691268

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2. 73546972e-03  7. 56675044e-01 -2. 55004467e-01  7. 52434225e-02
  -2. 41912116e-01  3. 34232199e-01 -8. 85038591e-02  2. 98153892e-01
    3. 03682929e-02 -5. 18856609e-01]
 [ 1. 68104948e-02  4. 65005400e+00 -1. 56709878e+00  4. 62399256e-01
  -1. 48664134e+00  2. 05398313e+00 -5. 43889648e-01  1. 83226830e+00
    1. 86624632e-01 -3. 18856987e+00]]
```

*** 偏微分_重み2 ***

```
[-5. 20072579e-083 -6. 38585114e-264 -2. 54443029e+000 -1. 26347643e-137
 -2. 54443029e+000 -1. 04261338e-204 -2. 54443029e+000 -6. 73721558e-152
 -7. 28035036e-118 -2. 54443029e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0. 0056138  1. 55286743 -0. 52332654  0. 15441643 -0. 49645809  0. 68591967
 -0. 18162983  0. 61187886  0. 06232257 -1. 06481049]
```

*** 偏微分_バイアス2 ***

-2. 544430285999317

順伝播開始

*** 総入力1 ***

```
[ 191. 06173828  655. 57224265 -454. 90969167  328. 94136114 -492. 01631984
 505. 1147987 -459. 2839054  366. 50511152  277. 1046737 -608. 79170095]
```

*** 中間層出力1 ***

```
[1. 00000000e+000 1. 00000000e+000 2. 72415079e-198 1. 00000000e+000
 2. 08942741e-214 1. 00000000e+000 3. 43189710e-200 1. 00000000e+000
 1. 00000000e+000 4. 02831708e-265]
```

*** 総入力2 ***

-4. 2765209397838015

*** 出力1 ***

-4. 2765209397838015

出力合計: -4. 2765209397838015

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0. 01211492  3. 35118175 -2. 13687697  0. 33323999 -2. 04312801  1. 48025609
    -0. 9446343  1. 32047157  0. 13449587 -4. 02621413]
  [ 0. 01377072  3. 80920217 -2. 42893314  0. 37878533 -2. 3223711  1. 68256906
    -1. 07374153  1. 5009461  0. 152878  -4. 57649414]]
```

*** 偏微分_重み2 ***

```
[4. 29532756e+000 4. 29532756e+000 1. 17011200e-197 4. 29532756e+000
 8. 97477514e-214 4. 29532756e+000 1. 47411222e-199 4. 29532756e+000
 4. 29532756e+000 1. 73029414e-264]
```

*** 偏微分_バイアス1 ***

```
[-0. 00745302 -2. 06162645  1. 3145936  -0. 2050072  1. 25691982 -0. 91064447
 0. 58113322 -0. 81234601 -0. 08274103  2. 47690223]
```

*** 偏微分_バイアス2 ***

4. 295327559919365

順伝播開始

*** 総入力1 ***

```
[ -56. 12089732 -169. 54321003  100. 05315373  -90. 28492282  108. 52366496
 -132. 73274277  102. 87612697 -100. 35398845  -78. 75422317  139. 79465759]
```

*** 中間層出力1 ***

```
[4. 23646843e-25 2. 33517503e-74 1. 00000000e+00 6. 16248991e-40
 1. 00000000e+00 2. 26413463e-58 1. 00000000e+00 2. 61105836e-44
 6. 27300233e-35 1. 00000000e+00]
```

*** 総入力2 ***

5. 496265740596673

*** 出力1 ***

5. 496265740596673

出力合計: 5. 496265740596673

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.1733768 -1.5359626 0.53933424 -0.30441954 0.5156726 -0.7724868
 0.23841973 -0.70728292 -0.22331727 1.016191 ]
 [-0.01866373 -0.1653439 0.05805846 -0.03277027 0.05551133 -0.08315696
 0.0256655 -0.07613787 -0.02403974 0.10939133]]
```

*** 偏微分_重み2 ***

```
[1.41399777e-24 7.79406797e-74 3.33768041e+00 2.05684218e-39
 3.33768041e+00 7.55695781e-58 3.33768041e+00 8.71487832e-44
 2.09372770e-34 3.33768041e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.25825149 -2.28787602 0.80335933 -0.45344475 0.76811439 -1.15064913
 0.35513545 -1.0535254 -0.33263975 1.51365601]
```

*** 偏微分_バイアス2 ***

3.3376804097292796

順伝播開始

*** 総入力1 ***

```
[-167.97458468 -531.41357322 353.55840032 -277.85674974 379.7603139
 -411.50639237 363.07071063 -306.21772899 -238.09806 460.67900111]
```

*** 中間層出力1 ***

```
[1.12089459e-073 1.62187561e-231 1.00000000e+000 2.12983927e-121
 1.00000000e+000 1.92772255e-179 1.00000000e+000 1.02643166e-133
 3.93845956e-104 1.00000000e+000]
```

*** 総入力2 ***

4.328077597191425

*** 出力1 ***

4.328077597191425

出力合計: 4.328077597191425

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.01139985 -0.10099241 0.02869434 -0.02001615 0.02713854 -0.05079245
 0.00890865 -0.04650517 -0.01468353 0.06004856]
 [ 0.51248853 4.54018762 -1.28997495 0.89984081 -1.22003294 2.28341172
 -0.40049472 2.09067404 0.66010871 -2.69952694]]
```

*** 偏微分_重み2 ***

[-2.26177368e-073 -3.27266775e-231 -2.01782907e+000 -4.29765159e-121
-2.01782907e+000 -3.88981461e-179 -2.01782907e+000 -2.07116365e-133
-7.94713819e-104 -2.01782907e+000]

*** 偏微分_バイアス1 ***

[0.1561286 1.38315901 -0.39298827 0.27413469 -0.37168058 0.69563678
-0.12200991 0.63691963 0.20110079 -0.82240545]

*** 偏微分_バイアス2 ***

-2.0178290715477845

順伝播開始

*** 総入力1 ***

[94.28500022 339.44301468 -236.87280719 166.04261048 -257.6892332
261.04775635 -236.31567337 186.91283261 138.7293583 -326.3454706]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.34105603e-103 1.00000000e+000
1.22176583e-112 1.00000000e+000 2.34103048e-103 1.00000000e+000
1.00000000e+000 1.86192817e-142]

*** 総入力2 ***

-6.473621037816996

*** 出力1 ***

-6.473621037816996

出力合計: -6.473621037816996

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.17925591 -1.58804619 0.83353203 -0.31474223 0.79397828 -0.79868137
0.33051128 -0.73126646 -0.23088983 1.63066487]
[0.01835069 0.16257059 -0.08532988 0.03222062 -0.08128071 0.08176217
-0.03383492 0.07486081 0.02363653 -0.16693353]]

*** 偏微分_重み2 ***

[-1.73926889e+000 -1.73926889e+000 -2.33245704e-103 -1.73926889e+000
-2.12497931e-112 -1.73926889e+000 -4.07168149e-103 -1.73926889e+000
-1.73926889e+000 -3.23839375e-142]

*** 偏微分_バイアス1 ***

[0.10583631 0.93761453 -0.49213414 0.18583017 -0.46878081 0.47155761
-0.19514054 0.43175448 0.13632201 -0.96277747]

*** 偏微分_バイアス2 ***

-1.7392688935997613

順伝播開始

*** 総入力1 ***

[-29.35448624 -79.75915672 39.92327839 -44.8302734 43.40266334
-63.37380708 42.10297208 -49.60935765 -40.18065627 58.17117881]

*** 中間層出力1 ***

[1.78446736e-13 2.29635145e-35 1.00000000e+00 3.39202967e-20
1.00000000e+00 2.99988970e-28 1.00000000e+00 2.85055694e-22
3.54619574e-18 1.00000000e+00]

*** 総入力2 ***

5.156066594785099

*** 出力1 ***

5.156066594785099

出力合計: 5.156066594785099

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.07521745 -1.04969337 0.35660447 -0.16893484 0.33968245 -0.50368094
0.14140045 -0.45704929 -0.1109332 0.69763652]
[0.01658118 0.2313979 -0.07861108 0.03724056 -0.07488073 0.1110331
-0.03117078 0.10075347 0.02445448 -0.15378931]]

*** 偏微分_重み2 ***

[7.44733053e-13 9.58363748e-35 4.17341931e+00 1.41563621e-19
4.17341931e+00 1.25197976e-27 4.17341931e+00 1.18965694e-21
1.47997617e-17 4.17341931e+00]

*** 偏微分_バイアス1 ***

[-0.19588918 -2.7337218 0.92870686 -0.43995788 0.88463675 -1.31173883
0.36824991 -1.19029581 -0.2889039 1.81685837]

*** 偏微分_バイアス2 ***

4.173419306809792

順伝播開始

*** 総入力1 ***

[546.90690071 1845.00851064 -1255.4338557 932.49480238
-1357.81061133 1423.59645786 -1269.60103409 1039.14369293
789.32401859 -1687.56320634]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-5.9135186314298505

*** 出力1 ***

-5.9135186314298505

出力合計: -5.9135186314298505

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.1763255 44.32705337 -18.0630065 7.13387745 -16.90764235
21.26972738 -3.36978338 19.30053958 4.68455086 -41.34723626]
[3.21314744 44.84092005 -18.27240407 7.21657778 -17.10364622
21.51629924 -3.40884799 19.5242834 4.73885708 -41.82655906]]

*** 偏微分_重み2 ***

[18.04260761 18.04260761 0. 18.04260761 0. 18.04260761
0. 18.04260761 18.04260761 0.]

*** 偏微分_バイアス1 ***

[-0.66602051 -9.29461625 3.78749998 -1.49585069 3.5452401 -4.45989387
0.70658528 -4.04698926 -0.98226928 8.66980015]

*** 偏微分_バイアス2 ***

18.0426076099044

順伝播開始

*** 総入力1 ***

[-333.14653499 -1108.11061783 726.42656057 -560.98863639
785.50278258 -853.34561572 731.41518467 -629.08429406

-477.76331166 992.49680571]

*** 中間層出力1 ***

[2.07156321e-145 0.00000000e+000 1.00000000e+000 2.32129751e-244
1.00000000e+000 0.00000000e+000 1.00000000e+000 6.19672806e-274
3.23616077e-208 1.00000000e+000]

*** 総入力2 ***

2.4323873047083975

*** 出力1 ***

2.4323873047083975

出力合計: 2.4323873047083975

誤差逆伝播開始

*** 偏微分_重み1 ***

[[14.24804794 38.1371133 -6.4856186 16.54550954 -6.07077895
24.75173724 -1.20993865 23.60857262 15.1236119 -14.84594519]
[8.82116253 23.61121161 -4.01533572 10.24355262 -3.75850278
15.32414111 -0.74908967 14.61639216 9.36323623 -9.19132895]]

*** 偏微分_重み2 ***

[-2.43293839e-144 0.00000000e+000 -1.17444564e+001 -2.72623774e-243
-1.17444564e+001 0.00000000e+000 -1.17444564e+001 -7.27772027e-273
-3.80069491e-207 -1.17444564e+001]

*** 偏微分_バイアス1 ***

[4.25951432 11.40125167 -1.93890317 4.94635021 -1.8148851 7.39963676
-0.36171629 7.05788285 4.52126788 -4.43825824]

*** 偏微分_バイアス2 ***

-11.744456420138436

順伝播開始

*** 総入力1 ***

[-404.88912702 -1343.92479476 879.00832109 -679.15238139
949.07280886 -1032.11542399 883.31255525 -763.05812943
-578.39668367 1196.34698285]

*** 中間層出力1 ***

[1.44173802e-176 0.00000000e+000 1.00000000e+000 1.11652485e-295

1. 0.00000000e+000 0. 0.00000000e+000 1. 0.00000000e+000 0. 0.00000000e+000
6. 39016293e-252 1. 0.00000000e+000]

*** 総入力2 ***

6. 54294705175685

*** 出力1 ***

6. 54294705175685

出力合計: 6. 54294705175685

誤差逆伝播開始

*** 偏微分_重み1 ***

[[12. 83496374 34. 35477397 -11. 56255374 14. 9045691 -11. 18885681
22. 29692456 -6. 81010196 21. 26713602 13. 62369155 -19. 09372497]
[12. 16313092 32. 55650908 -10. 9573239 14. 12440494 -10. 60318774
21. 12981525 -6. 45363426 20. 15392992 12. 9105736 -18. 09428381]]

*** 偏微分_重み2 ***

[-1. 48370178e-175 0. 00000000e+000 -1. 02910637e+001 -1. 14902284e-294
-1. 02910637e+001 0. 00000000e+000 -1. 02910637e+001 0. 00000000e+000
-6. 57615738e-251 -1. 02910637e+001]

*** 偏微分_バイアス1 ***

[3. 73239354 9. 99033103 -3. 36237809 4. 33423254 -3. 25370743 6. 48392149
-1. 98037027 6. 1844601 3. 96175473 -5. 55243452]

*** 偏微分_バイアス2 ***

-10. 29106371721403

順伝播開始

*** 総入力1 ***

[-185. 70587325 -597. 90331655 386. 59040704 -305. 92937312 415. 256611
-458. 28372197 390. 0769264 -342. 98362399 -261. 997207 516. 75014675]

*** 中間層出力1 ***

[2. 23338702e-081 2. 15719255e-260 1. 00000000e+000 1. 36949799e-133
1. 00000000e+000 9. 33057489e-200 1. 00000000e+000 1. 10689064e-149
1. 64459409e-114 1. 00000000e+000]

*** 総入力2 ***

10. 144819352781763

*** 出力1 ***

10.144819352781763

出力合計: 10.144819352781763

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.58761665 -1.57284723 0.7588374 -0.68236834 0.74172863 -1.02080881
0.54125831 -0.97366252 -0.62372657 1.1036332]
[-3.09440344 -8.28265143 3.99605607 -3.59336815 3.90596083 -5.37560382
2.85027931 -5.12733033 -3.28455918 5.81175907]]

*** 偏微分_重み2 ***

[6.97223169e-081 6.73436629e-260 3.12181974e+000 4.27532587e-133
3.12181974e+000 2.91283729e-199 3.12181974e+000 3.45551306e-149
5.13412628e-114 3.12181974e+000]

*** 偏微分_バイアス1 ***

[-1.13223085 -3.03059173 1.46214223 -1.3148002 1.42917672 -1.96691369
1.04290673 -1.87607133 -1.20180814 2.12650129]

*** 偏微分_バイアス2 ***

3.1218197382410375

順伝播開始

*** 総入力1 ***

[42.91730965 173.75300293 -118.81122871 79.42809508 -131.35784182
132.82926756 -114.18354527 92.64895075 65.20590587 -178.72469188]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.51732323e-52 1.00000000e+00
8.95393926e-58 1.00000000e+00 2.57463913e-50 1.00000000e+00
1.00000000e+00 2.40354654e-78]

*** 総入力2 ***

-13.430437332345209

*** 出力1 ***

-13.430437332345209

出力合計: -13.430437332345209

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-6.44019433 -17.23818042 12.21311857 -7.47865934 11.90995003
 -11.18791841 8.35760429 -10.67120186 -6.83595395 18.32292032]
 [ 5.42078259 14.50956656 -10.27991659 6.29487004 -10.02473628
 9.41699431 -7.0346877 8.98206828 5.75389783 -15.4226041 ]]
```

*** 偏微分_重み2 ***

```
[-1.06353382e+01 -1.06353382e+01 -2.67725839e-51 -1.06353382e+01
 -9.52281722e-57 -1.06353382e+01 -2.73821579e-49 -1.06353382e+01
 -1.06353382e+01 -2.55625304e-77]
```

*** 偏微分_バイアス1 ***

```
[ 3.03353026 8.11971491 -5.75275572 3.52267932 -5.60995398 5.26985481
 -3.93668952 5.02646536 3.21994525 -8.63066087]
```

*** 偏微分_バイアス2 ***

-10.635338195097066

順伝播開始

*** 総入力1 ***

```
[-292.0118489 -952.11935603 623.54040684 -484.036212 669.91367269
 -728.71751494 627.32413924 -543.34639113 -413.2671227 833.65872915]
```

*** 中間層出力1 ***

```
[1.51658016e-127 0.00000000e+000 1.00000000e+000 6.10582126e-211
 1.00000000e+000 0.00000000e+000 1.00000000e+000 1.06576283e-236
 3.31412632e-180 1.00000000e+000]
```

*** 総入力2 ***

9.796656118054193

*** 出力1 ***

9.796656118054193

出力合計: 9.796656118054193

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.23898027 1.06203647 -0.5757753 0.31813532 -0.56148272 0.60086662
 -0.39401092 0.56148087 0.26914631 -0.86381581]
```

```
[ 1.10187998  4.89679221 -2.65476006  1.46684467 -2.58886045  2.77045003  
-1.81668866  2.58885191  1.24096824 -3.9828449 ]]
```

*** 偏微分_重み2 ***

```
[-2.22697271e-127  0.00000000e+000 -1.46841741e+000 -8.96589422e-211  
-1.46841741e+000  0.00000000e+000 -1.46841741e+000 -1.56498470e-236  
-4.86652078e-180 -1.46841741e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.25927046  1.15220676 -0.62466046  0.34514602 -0.6091544  0.65188211  
-0.42746371  0.60915239  0.29199769 -0.93715653]
```

*** 偏微分_バイアス2 ***

-1.4684174070891984

順伝播開始

*** 総入力1 ***

```
[ -439.33635818 -1459.8805725   947.49993026  -735.27296408  
 1023.5544022  -1119.72671681   949.18471636  -828.92914427  
-626.37627931  1297.33294499]
```

*** 中間層出力1 ***

```
[1.57995219e-191  0.00000000e+000  1.00000000e+000  0.00000000e+000  
 1.00000000e+000  0.00000000e+000  1.00000000e+000  0.00000000e+000  
 9.29476254e-273  1.00000000e+000]
```

*** 総入力2 ***

10.31060221053541

*** 出力1 ***

10.31060221053541

出力合計: 10.31060221053541

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 5.98813164  26.61146109 -15.11261071  7.97152056 -14.75448139  
 15.05592235 -10.55813844  14.06903315  6.74400232 -22.33004542]  
[ 3.8899426  17.28703748 -9.81728387  5.17836936 -9.58463994  
 9.78045862 -6.85865892  9.13936678  4.38096279 -14.50579248]]
```

*** 偏微分_重み2 ***

```
[-1.25988517e-190  0.00000000e+000 -7.97419807e+000  0.00000000e+000  
-7.97419807e+000  0.00000000e+000 -7.97419807e+000  0.00000000e+000  
-7.41182774e-272 -7.97419807e+000]
```

*** 偏微分_バイアス1 ***

```
[ 1.4079607  6.25702532 -3.55335573  1.87430543 -3.4691505  3.54002687  
-2.48248449  3.30798434  1.58568495 -5.25035657]
```

*** 偏微分_バイアス2 ***

-7.97419806593626

順伝播開始

*** 総入力1 ***

```
[ 30.4259222 128.30058278 -92.94330254  58.02856068 -102.1467984  
 97.46676684 -90.13888548  67.14136096  46.96901995 -133.90644727]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 4.31754205e-41 1.00000000e+00  
4.34719491e-45 1.00000000e+00 7.13147609e-40 1.00000000e+00  
1.00000000e+00 7.00114156e-59]
```

*** 総入力2 ***

-7.55813853363582

*** 出力1 ***

-7.55813853363582

出力合計: -7.55813853363582

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.92628203 -4.11642892  4.71053334 -1.23308516  4.62096551 -2.32894518  
 3.57146381 -2.17628693 -1.04320488  6.51560744]  
[ 0.61682991  2.74121312 -3.13683925  0.8211363 -3.07719422  1.55089162  
-2.37830986  1.4492334  0.69469119 -4.33887454]]
```

*** 偏微分_重み2 ***

```
[-5.55491041e+00 -5.55491041e+00 -2.39835593e-40 -5.55491041e+00  
-2.41482783e-44 -5.55491041e+00 -3.96147108e-39 -5.55491041e+00  
-5.55491041e+00 -3.88907141e-58]
```

*** 偏微分_バイアス1 ***

```
[ 0.77134814  3.42789743 -3.9226294   1.02683407 -3.84804307  1.93939586
-2.97408551  1.81227188  0.86871398 -5.42577909]
```

*** 偏微分_バイアス2 ***

-5.554910414456264

順伝播開始

*** 総入力1 ***

```
[-118.36060625 -395.01328014  230.99531913 -198.29506231  254.91953341
-307.38956328  229.88024219 -226.22223104 -170.30802659  349.36748364]
```

*** 中間層出力1 ***

```
[3.95040689e-052 2.80486624e-172 1.00000000e+000 7.61287412e-087
1.00000000e+000 3.17986641e-134 1.00000000e+000 5.66152432e-099
1.08683553e-074 1.00000000e+000]
```

*** 総入力2 ***

13.490415262625042

*** 出力1 ***

13.490415262625042

出力合計: 13.490415262625042

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -2.38653798 -20.67480566  16.70212391  -4.1453591   16.38454352
 -10.42763455  12.66332851  -9.55248518  -3.05682574  23.10236972]
 [  1.81093246  15.68828025 -12.67376366   3.14554615 -12.43278001
   7.91260899  -9.60907928   7.24853559   2.31955452 -17.53034377]]
```

*** 偏微分_重み2 ***

```
[3.04266501e-051 2.16035173e-171 7.70215600e+000 5.86355441e-086
7.70215600e+000 2.44918271e-133 7.70215600e+000 4.36059435e-098
8.37097677e-074 7.70215600e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.61119395 -5.29483133  4.27742492 -1.06162919  4.19609237 -2.67052407
 3.24308676 -2.44639774 -0.78285508  5.91653208]
```

*** 偏微分_バイアス2 ***

7.702155997463038

順伝播開始

*** 総入力1 ***

[164.23148602 573.96972316 -390.86363579 281.84615728 -421.94099419
436.99606045 -388.56955026 319.18580672 237.05195473 -530.27887019]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.77860619e-170 1.00000000e+000
5.66701724e-184 1.00000000e+000 1.76355288e-169 1.00000000e+000
1.00000000e+000 5.04443821e-231]

*** 総入力2 ***

-5.375383350374729

*** 出力1 ***

-5.375383350374729

出力合計: -5.375383350374729

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.17734447 1.53635201 -1.62366576 0.30804308 -1.58550972 0.77488116
-1.13842037 0.7098485 0.22715379 -2.39263013]
[0.15820935 1.37058264 -1.44847541 0.27480584 -1.41443634 0.691273
-1.01558704 0.63325724 0.20264434 -2.13447004]]

*** 偏微分_重み2 ***

[1.87509773e+000 1.87509773e+000 3.33506042e-170 1.87509773e+000
1.06262112e-183 1.87509773e+000 3.30683401e-169 1.87509773e+000
1.87509773e+000 9.45881464e-231]

*** 偏微分_バイアス1 ***

[-0.11702011 -1.01375636 1.07137002 -0.20326112 1.0461929 -0.51130255
0.75118259 -0.46839099 -0.14988661 1.57876841]

*** 偏微分_バイアス2 ***

1.8750977307233585

順伝播開始

*** 総入力1 ***

[93.60079962 333.62816855 -236.68817816 161.96466807 -254.06040435
251.83181501 -234.69446798 183.62943344 135.28358952 -312.95005967]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.61298487e-103 1.00000000e+000
4.60223001e-111 1.00000000e+000 1.18437062e-102 1.00000000e+000
1.00000000e+000 1.22325211e-136]

*** 総入力2 ***

-6.294181238429174

*** 出力1 ***

-6.294181238429174

出力合計: -6.294181238429174

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.04580292 -0.29411385 0.29666793 -0.06968351 0.28969625 -0.15498178
0.20800636 -0.14309934 -0.05490383 0.43716918]
[-0.33540007 -2.15370113 2.17240382 -0.5102699 2.12135247 -1.13488172
1.5231637 -1.04787047 -0.40204307 3.20124928]]

*** 偏微分_重み2 ***

[-2.28553316e+000 -2.28553316e+000 -3.68653042e-103 -2.28553316e+000
-1.05185493e-110 -2.28553316e+000 -2.70691832e-102 -2.28553316e+000
-2.28553316e+000 -2.79578326e-136]

*** 偏微分_バイアス1 ***

[0.20161633 1.29463692 -1.30587952 0.30673442 -1.27519144 0.68220226
-0.91560706 0.62989789 0.24167689 -1.92434106]

*** 偏微分_バイアス2 ***

-2.285533162003512

順伝播開始

*** 総入力1 ***

[192.44225164 671.80240941 -451.27434187 330.39302825 -488.63887808
513.16594801 -448.65976844 374.23969198 278.24779366 -620.09822569]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.03286486e-196 1.00000000e+000
6.12113004e-213 1.00000000e+000 1.41103672e-195 1.00000000e+000
1.00000000e+000 4.95179143e-270]

*** 総入力2 ***
-5.174269989047454

*** 出力1 ***
-5.174269989047454

出力合計: -5.174269989047454

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.49309044 4.64774407 -4.96374643 0.89265221 -4.84709873 2.31983377
-3.48029143 2.12102093 0.64536366 -7.31456535]
[0.13889731 1.3092104 -1.39822425 0.25144878 -1.36536608 0.65346767
-0.98035384 0.59746462 0.18179074 -2.06042005]]

*** 偏微分_重み2 ***

[3.54882672e+000 3.54882672e+000 3.66545840e-196 3.54882672e+000
2.17228298e-212 3.54882672e+000 5.00752479e-195 3.54882672e+000
3.54882672e+000 1.75730497e-269]

*** 偏微分_バイアス1 ***

[-0.20142685 -1.89859789 2.02768448 -0.36464736 1.98003403 -0.94764932
1.42169489 -0.86643451 -0.26363028 2.9879912]

*** 偏微分_バイアス2 ***

3.548826717081832

順伝播開始

*** 総入力1 ***

[-30.57879294 -72.33555219 48.38527767 -42.2391199 46.86269172
-52.23946797 51.06582902 -46.28603654 -38.15222827 42.32463414]

*** 中間層出力1 ***

[5.24564582e-14 3.84652745e-32 1.00000000e+00 4.52671661e-19
1.00000000e+00 2.05441096e-23 1.00000000e+00 7.91097004e-21
2.69586284e-17 1.00000000e+00]

*** 総入力2 ***

10.574973273506835

*** 出力1 ***

10.574973273506835

出力合計: 10.574973273506835

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 3.08720881 17.06827499 -10.33129555 4.43179732 -10.08851081
    9.23448888 -7.24370592 8.56545223 3.59963228 -15.22417343]
  [ -4.56002497 -25.21104495 15.26005157 -6.54607695 14.9014414
    -13.63999082 10.69946411 -12.65177655 -5.31691054 22.48717699]]
```

*** 偏微分_重み2 ***

```
[5.59907390e-13 4.10568922e-31 1.06737551e+01 4.83170647e-18
 1.06737551e+01 2.19282795e-22 1.06737551e+01 8.44397572e-20
 2.87749798e-16 1.06737551e+01]
```

*** 偏微分_バイアス1 ***

```
[-1.43322344 -7.92387342 4.79625962 -2.05744289 4.68354785 -4.28707183
 3.36285939 -3.97647444 -1.67111384 7.06775718]
```

*** 偏微分_バイアス2 ***

10.673755148050372

順伝播開始

*** 総入力1 ***

```
[ 62.43006209 238.14498906 -162.64564593 112.26253364 -178.01139381
 181.64980994 -159.22960649 128.96350182 92.99400635 -232.93912018]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 2.31149771e-071 1.00000000e+000
 4.90494287e-078 1.00000000e+000 7.03818285e-070 1.00000000e+000
 1.00000000e+000 6.85212828e-102]
```

*** 総入力2 ***

-7.660357940781118

*** 出力1 ***

-7.660357940781118

出力合計: -7.660357940781118

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.80494424 -4.45030141 2.93144942 -1.1555259 2.82910093 -2.40775701
 1.62984313 -2.23331556 -0.93855112 4.99409419]
 [ 0.43975183 2.43125933 -1.60149013 0.63127929 -1.54557577 1.31538994
 -0.89040516 1.22009024 0.51274306 -2.72834062]]
```

*** 偏微分_重み2 ***

```
[-4.19247367e+000 -4.19247367e+000 -9.69089329e-071 -4.19247367e+000
 -2.05638439e-077 -4.19247367e+000 -2.95073963e-069 -4.19247367e+000
 -4.19247367e+000 -2.87273674e-101]
```

*** 偏微分_バイアス1 ***

```
[ 0.44272788 2.44771304 -1.61232832 0.63555152 -1.55603556 1.32429193
 -0.89643103 1.22834728 0.51621308 -2.74680485]
```

*** 偏微分_バイアス2 ***

-4.192473672476964

順伝播開始

*** 総入力1 ***

```
[ 330.04079265 1142.67251388 -754.88743442 563.5592758
 -818.3893543 874.03619419 -750.36768349 639.3252362
 476.08918851 -1046.71673797]
```

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-5.606045841267404

*** 出力1 ***

-5.606045841267404

出力合計: -5.606045841267404

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.14938552 23.60874755 -17.2567547 4.21317745 -16.65425314
 11.58476811 -9.59450397 10.55787221 2.93589783 -29.39906036]
 [ 0.11341269 1.24571954 -0.91055557 0.22230902 -0.87876447
 0.61127224 -0.50625562 0.55708791 0.15491314 -1.55124638]]
```

*** 偏微分_重み2 ***

[9.32992705 9.32992705 0. 9.32992705 0. 9.32992705
0. 9.32992705 9.32992705 0.]

*** 偏微分_バイアス1 ***

[-0.4469064 -4.90879853 3.58807395 -0.87601594 3.4628001 -2.40873822
1.99491679 -2.19522308 -0.6104403 6.11273698]

*** 偏微分_バイアス2 ***

9.329927048676794

順伝播開始

*** 総入力1 ***

[143.22573462 503.6472931 -346.69691494 246.19296478 -373.48184029
382.14472359 -343.8570895 279.2879861 206.72248093 -467.56039597]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.70049234e-151 1.00000000e+000
6.29357877e-163 1.00000000e+000 4.62129261e-150 1.00000000e+000
1.00000000e+000 8.73172553e-204]

*** 総入力2 ***

-10.177710095119036

*** 出力1 ***

-10.177710095119036

出力合計: -10.177710095119036

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.72797516 -2.70261959 1.58792953 -0.91788086 1.53248863 -1.59619881
0.88286566 -1.50170605 -0.80034833 2.70523843]
[-1.07194396 -3.97960936 2.33822741 -1.35158025 2.25659065 -2.35040394
1.30002035 -2.21126329 -1.17851352 3.98346561]]

*** 偏微分_重み2 ***

[-3.92723832e+000 -3.92723832e+000 -1.06054770e-150 -3.92723832e+000
-2.47163837e-162 -3.92723832e+000 -1.81489174e-149 -3.92723832e+000
-3.92723832e+000 -3.42915670e-203]

*** 偏微分_バイアス1 ***

```
[ 0.69239788  2.57053836 -1.51032494  0.8730226  -1.45759352  1.51819009  
-0.83971864  1.42831534  0.76123406 -2.57302922]
```

*** 偏微分_バイアス2 ***

-3.9272383150130867

順伝播開始

*** 総入力1 ***

```
[ 66.05515237  235.12032217 -176.84528093  114.59943426 -188.06944899  
176.22029155 -176.44997865  128.60568828   95.15098759 -221.81949968]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 1.57423782e-77 1.00000000e+00  
2.10124208e-82 1.00000000e+00 2.33748021e-77 1.00000000e+00  
1.00000000e+00 4.62397324e-97]
```

*** 総入力2 ***

-8.25336332076262

*** 出力1 ***

-8.25336332076262

出力合計: -8.25336332076262

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.5764615   2.83142088 -1.81334752  0.79332569 -1.75003638  1.56793573  
-1.00819478  1.46002905  0.65910857 -3.08926644]  
[-1.75405766 -8.61545038  5.51765569 -2.41393221  5.32501251 -4.77091647  
3.06773611 -4.44257791 -2.00553624  9.4000231  ]]
```

*** 偏微分_重み2 ***

```
[-5.70159272e+00 -5.70159272e+00 -8.97566287e-77 -5.70159272e+00  
-1.19804265e-81 -5.70159272e+00 -1.33273601e-76 -5.70159272e+00  
-5.70159272e+00 -2.63640122e-96]
```

*** 偏微分_バイアス1 ***

```
[ 0.69705749  3.4237553  -2.19270056  0.95928975 -2.11614472  1.89594854  
-1.21910954  1.76546773  0.79699436 -3.73554225]
```

*** 偏微分_バイアス2 ***

-5.701592719044609

順伝播開始

*** 総入力1 ***

[106.24869988 365.41854056 -267.13940041 181.38077003 -284.27944588
275.57548413 -268.2653659 202.67489699 151.90950686 -335.94494315]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 9.61241479e-117 1.00000000e+000
3.45943628e-124 1.00000000e+000 3.11768262e-117 1.00000000e+000
1.00000000e+000 1.26172575e-146]

*** 総入力2 ***

-5.459582888430761

*** 出力1 ***

-5.459582888430761

出力合計: -5.459582888430761

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.07797277 0.9295874 -0.68483419 0.15987434 -0.66092392 0.45241586
-0.38075782 0.4116635 0.10918551 -1.1667015]
[-0.24650561 -2.93882727 2.16505665 -0.50543184 2.08946596 -1.43028194
1.20373993 -1.30144614 -0.34518254 3.68844736]]

*** 偏微分_重み2 ***

[-1.49100957e+000 -1.49100957e+000 -1.43322025e-116 -1.49100957e+000
-5.15805261e-124 -1.49100957e+000 -4.64849463e-117 -1.49100957e+000
-1.49100957e+000 -1.88124517e-146]

*** 偏微分_バイアス1 ***

[0.06528616 0.77833823 -0.57340776 0.13386187 -0.55338783 0.37880522
-0.31880636 0.34468351 0.0914204 -0.97687252]

*** 偏微分_バイアス2 ***

-1.491009571877104

順伝播開始

*** 総入力1 ***

[-386.39141 -1285.58505016 833.07191871 -645.42312474
898.93826512 -983.52867883 832.23966646 -729.82196692

-549.98359834 1141.35399979]

*** 中間層出力1 ***

[1.55719421e-168 0.00000000e+000 1.00000000e+000 4.96933680e-281
1.00000000e+000 0.00000000e+000 1.00000000e+000 0.00000000e+000
1.39687680e-239 1.00000000e+000]

*** 総入力2 ***

7.257926077770678

*** 出力1 ***

7.257926077770678

出力合計: 7.257926077770678

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.92253043 19.88519331 -9.43151312 2.74620956 -9.10222169
9.26014918 -5.24378376 8.35272794 1.61753561 -16.06777336]
[0.65256521 14.06607838 -6.67151688 1.94257095 -6.43858783
6.55030012 -3.7092661 5.90842262 1.14418715 -11.3657713]]

*** 偏微分_重み2 ***

[-1.34738035e-167 0.00000000e+000 -8.65261599e+000 -4.29977630e-280
-8.65261599e+000 0.00000000e+000 -8.65261599e+000 0.00000000e+000
-1.20866385e-238 -8.65261599e+000]

*** 偏微分_バイアス1 ***

[0.2559763 5.51758302 -2.61698017 0.76199607 -2.52561104 2.56943149
-1.45500281 2.31764756 0.44882073 -4.45835612]

*** 偏微分_バイアス2 ***

-8.652615991352214

順伝播開始

*** 総入力1 ***

[-232.39908779 -751.21686965 495.39147633 -382.72160724 529.76342944
-572.53887414 499.18706171 -429.61791441 -327.15213 650.65891977]

*** 中間層出力1 ***

[1.17586800e-101 0.00000000e+000 1.00000000e+000 6.11107860e-167
1.00000000e+000 2.23628055e-249 1.00000000e+000 2.62609509e-187

8. 31065389e-143 1. 00000000e+000]

*** 総入力2 ***

10. 286341674743953

*** 出力1 ***

10. 286341674743953

出力合計: 10. 286341674743953

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 0195367 0. 42111462 -0. 27837588 0. 05815729 -0. 27140238 0. 19610492
-0. 1896911 0. 17688819 0. 03425503 -0. 41891393]
[-0. 25990562 -5. 60227978 3. 70336128 -0. 77369297 3. 6105896 -2. 60887313
2. 52354718 -2. 35322424 -0. 45571028 5. 57300298]]

*** 偏微分_重み2 ***

[2. 17222892e-101 0. 00000000e+000 1. 84734078e+000 1. 12892447e-166
1. 84734078e+000 4. 13117225e-249 1. 84734078e+000 4. 85129255e-187
1. 53526099e-142 1. 84734078e+000]

*** 偏微分_バイアス1 ***

[-0. 05465116 -1. 17800861 0. 77871717 -0. 1626868 0. 75920979 -0. 54857578
0. 53063403 -0. 4948197 -0. 0958236 1. 17185248]

*** 偏微分_バイアス2 ***

1. 8473407815215186

順伝播開始

*** 総入力1 ***

[188. 92113731 663. 78814288 -448. 53710516 324. 21884458 -484. 26316473
504. 20794706 -444. 38186487 368. 8613784 272. 77582721 -612. 79752851]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 1. 59518222e-195 1. 00000000e+000
4. 86608586e-211 1. 00000000e+000 1. 01720440e-193 1. 00000000e+000
1. 00000000e+000 7. 33524872e-267]

*** 総入力2 ***

-4. 252618933522832

*** 出力1 ***

-4.252618933522832

出力合計: -4.252618933522832

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.19060311  4.10846037 -4.12622737  0.56739168 -4.01622806  1.91323038
  -2.72732257  1.72574896  0.33419745 -6.3430603 ]
 [ 0.11671049  2.51570092 -2.52658005  0.34742644 -2.45922504  1.17151317
  -1.66999978  1.05671416  0.20463647 -3.88399576]]
```

*** 偏微分_重み2 ***

```
[4.12916005e+000 4.12916005e+000 6.58676268e-195 4.12916005e+000
 2.00928473e-210 4.12916005e+000 4.20019977e-193 4.12916005e+000
 4.12916005e+000 3.02884160e-266]
```

*** 偏微分_バイアス1 ***

```
[-0.09606914 -2.07077555  2.0797306  -0.28598081  2.02428796 -0.96432004
  1.3746446  -0.86982432 -0.16844459  3.19707457]
```

*** 偏微分_バイアス2 ***

4.129160051331475

順伝播開始

*** 総入力1 ***

```
[ 490.18954375 1679.64055275 -1124.08310299  830.43797302
 -1210.67697069 1277.24107783 -1118.3682141  941.63174199
 702.28140519 -1522.8444712 ]
```

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-6.275907358675255

*** 出力1 ***

-6.275907358675255

出力合計: -6.275907358675255

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 4.14132764 28.86853887 -26.04232084  6.51939549 -25.34806985
 15.01353801 -17.21325631 13.83026556  5.04761069 -40.03366674]
 [ 5.58973039 38.96512499 -35.15045535  8.79951221 -34.21339453
 20.26442653 -23.23348218 18.66731213  6.81298012 -54.03518464]]
```

*** 偏微分_重み2 ***

```
[14.31311917 14.31311917 0.          14.31311917 0.          14.31311917
 0.          14.31311917 14.31311917 0.          ]
```

*** 偏微分_バイアス1 ***

```
[-1.14640892 -7.99143497  7.20907679 -1.80470946  7.01689312 -4.15607154
 4.76500106 -3.82851617 -1.39728764 11.08218347]
```

*** 偏微分_バイアス2 ***

14.31311916760183

順伝播開始

*** 総入力1 ***

```
[-228.80961274 -766.96530313 487.10747304 -381.47905416 526.30034334
 -584.90300044 482.55710341 -435.39014972 -325.58164986 681.29929111]
```

*** 中間層出力1 ***

```
[4.25841300e-100 0.00000000e+000 1.00000000e+000 2.11715092e-166
 1.00000000e+000 9.54672606e-255 1.00000000e+000 8.17448693e-190
 3.99655740e-142 1.00000000e+000]
```

*** 総入力2 ***

8.348812855886091

*** 出力1 ***

8.348812855886091

出力合計: 8.348812855886091

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.31293967 3.5790133 -1.47610854 1.53087273 -1.4367576 2.30930068
 -0.97566706 2.20086215 1.39599408 -2.26915404]
 [ 0.1101933 0.30038188 -0.12388785 0.12848414 -0.12058518 0.19381657
 -0.08188645 0.18471547 0.11716395 -0.19044712]]
```

*** 偏微分_重み2 ***

[-5.24696019e-100 0.00000000e+000 -1.23213981e+000 -2.60862593e-166
-1.23213981e+000 -1.17629012e-254 -1.23213981e+000 -1.00721108e-189
-4.92431748e-142 -1.23213981e+000]

*** 偏微分_バイアス1 ***

[0.4341119 1.18336913 -0.48806225 0.50616955 -0.47505121 0.76354987
-0.3225957 0.72769563 0.46157311 -0.75027574]

*** 偏微分_バイアス2 ***

-1.2321398105062613

順伝播開始

*** 総入力1 ***

[114.71080974 401.07889428 -290.28410861 196.09248393 -309.13853208
300.98478828 -288.23751562 221.77446734 164.19835358 -373.14190548]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 8.53519498e-127 1.00000000e+000
5.53148033e-135 1.00000000e+000 6.60750479e-126 1.00000000e+000
1.00000000e+000 8.84157191e-163]

*** 総入力2 ***

-13.203085964064714

*** 出力1 ***

-13.203085964064714

出力合計: -13.203085964064714

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.86424298 5.08184084 -3.53379868 2.17368613 -3.44346012
3.27897594 -2.38492755 3.12500407 1.98217194 -5.35440531]
[-8.17438806 -22.28300686 15.49510554 -9.53124357 15.09898636
-14.37775123 10.45750123 -13.7026108 -8.69148649 23.47815563]]

*** 偏微分_重み2 ***

[-8.78366513e+000 -8.78366513e+000 -7.49702945e-126 -8.78366513e+000
-4.85866709e-134 -8.78366513e+000 -5.80381095e-125 -8.78366513e+000
-8.78366513e+000 -7.76614069e-162]

*** 偏微分_バイアス1 ***

[2.43381375 6.63446463 -4.6134586 2.83779917 -4.49551946 4.28078143
-3.11357989 4.07976748 2.58777283 -6.99030405]

*** 偏微分_バイアス2 ***

-8.783665131004302

順伝播開始

*** 総入力1 ***

[-88.23573987 -278.0049772 172.10478119 -142.81955209 184.72303915
-212.78167989 172.86516286 -161.3680266 -123.35894559 234.64136709]

*** 中間層出力1 ***

[4.78305161e-039 1.83642189e-121 1.00000000e+000 9.42446316e-063
1.00000000e+000 3.89126292e-093 1.00000000e+000 8.29385604e-071
2.66618719e-054 1.00000000e+000]

*** 総入力2 ***

9.394918348733583

*** 出力1 ***

9.394918348733583

出力合計: 9.394918348733583

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.55861643 -2.2689656 1.1618085 -0.7231043 1.13210786 -1.31063314
0.78409365 -1.22878772 -0.62130286 1.76037012]
[-1.13336387 -4.60345149 2.35716623 -1.46708949 2.29690728 -2.65911307
1.59082935 -2.49305879 -1.2605469 3.57157396]]

*** 偏微分_重み2 ***

[2.95870959e-038 1.13597751e-120 6.18581991e+000 5.82980319e-062
6.18581991e+000 2.40706517e-092 6.18581991e+000 5.13042998e-070
1.64925538e-053 6.18581991e+000]

*** 偏微分_バイアス1 ***

[-1.2285622 -4.99012421 2.55515938 -1.59031952 2.4898389 -2.88246862
1.72445307 -2.70246641 -1.36642813 3.87157282]

*** 偏微分_バイアス2 ***

6. 185819910803795

順伝播開始

*** 総入力1 ***

[-180.82486395 -582.85821338 385.49977406 -297.24103978 411.42718479
-443.54332978 388.32512865 -333.7385907 -254.33329768 504.24286851]

*** 中間層出力1 ***

[2.94279085e-079 7.37724481e-254 1.00000000e+000 8.12562225e-130
1.00000000e+000 2.35276956e-193 1.00000000e+000 1.14596581e-145
3.50309775e-111 1.00000000e+000]

*** 総入力2 ***

7.229881379952255

*** 出力1 ***

7.229881379952255

出力合計: 7.229881379952255

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.08759231 0.35577891 -0.14462753 0.11338438 -0.1399704 0.20551022
-0.08540099 0.19267668 0.09742169 -0.23848334]
[-0.64112221 -2.60408425 1.05858513 -0.8299044 1.0244978 -1.50420928
0.62508306 -1.41027556 -0.71306721 1.74555231]]

*** 偏微分_重み2 ***

[2.34854826e-079 5.88754566e-254 7.98068359e-001 6.48480202e-130
7.98068359e-001 1.87767094e-193 7.98068359e-001 9.14559053e-146
2.79571147e-111 7.98068359e-001]

*** 偏微分_バイアス1 ***

[-0.15850391 -0.64380475 0.26171278 -0.20517631 0.25328541 -0.37188393
0.15453856 -0.3486608 -0.17629079 0.43155089]

*** 偏微分_バイアス2 ***

0.7980683588475896

順伝播開始

*** 総入力1 ***

[-183.50461592 -612.85529116 383.80636855 -304.9904079 415.34441888

-467.8966408 379.51162695 -348.77150158 -260.78231189 542.68055051]

*** 中間層出力1 ***

[2.01817072e-080 6.92355017e-267 1.00000000e+000 3.50226349e-133
1.00000000e+000 6.23836524e-204 1.00000000e+000 3.39204355e-152
5.54218435e-114 1.00000000e+000]

*** 総入力2 ***

6.9505574543555975

*** 出力1 ***

6.9505574543555975

出力合計: 6.9505574543555975

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.44396916 1.80329596 -0.70850425 0.57469848 -0.6848992 1.04164622
-0.40830945 0.97659829 0.49379018 -1.18422047]
[-0.05834149 -0.23696912 0.09310376 -0.07552049 0.09000184 -0.13688157
0.05365549 -0.1283337 -0.06488842 0.1556171]]

*** 偏微分_重み2 ***

[-1.59521221e-080 -5.47254585e-267 -7.90424812e-001 -2.76827596e-133
-7.90424812e-001 -4.93095867e-204 -7.90424812e-001 -2.68115539e-152
-4.38068003e-114 -7.90424812e-001]

*** 偏微分_バイアス1 ***

[0.15698583 0.63763867 -0.25052444 0.20321122 -0.24217778 0.36832219
-0.14437669 0.34532148 0.17460235 -0.41873591]

*** 偏微分_バイアス2 ***

-0.7904248120811284

順伝播開始

*** 総入力1 ***

[-187.72973449 -628.61942567 392.80633288 -312.26193091 425.3601147
-479.87400391 387.92229525 -357.51277697 -266.94128802 557.49660829]

*** 中間層出力1 ***

[2.95129229e-082 9.86398075e-274 1.00000000e+000 2.43425740e-136
1.00000000e+000 3.92074044e-209 1.00000000e+000 5.42217778e-156]

1. 17184892e-116 1. 00000000e+000]

*** 総入力2 ***

7. 227206138583993

*** 出力1 ***

7. 227206138583993

出力合計: 7. 227206138583993

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 46115461 1. 87309914 -0. 76118844 0. 59694428 -0. 73666967 1. 08196695
-0. 44937351 1. 0144011 0. 51290414 -1. 25531901]
[-0. 09130622 -0. 37086391 0. 15071136 -0. 11819187 0. 14585677 -0. 21422384
0. 08897362 -0. 20084615 -0. 10155236 0. 24854665]]

*** 偏微分_重み2 ***

[-2. 23488851e-082 -7. 46957435e-274 -7. 57257596e-001 -1. 84335991e-136
-7. 57257596e-001 -2. 96901048e-209 -7. 57257596e-001 -4. 10598531e-156
-8. 87391493e-117 -7. 57257596e-001]

*** 偏微分_バイアス1 ***

[0. 1503985 0. 61088255 -0. 24824994 0. 19468422 -0. 24025351 0. 35286693
-0. 14655628 0. 33083136 0. 16727582 -0. 40940304]

*** 偏微分_バイアス2 ***

-0. 7572575961995884

順伝播開始

*** 総入力1 ***

[215. 62222984 756. 59521465 -515. 58778439 368. 90356821 -554. 80188144
572. 47397105 -509. 72361051 420. 4899695 310. 47856649 -698. 93321323]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 1. 21079412e-224 1. 00000000e+000
1. 12876710e-241 1. 00000000e+000 4. 26430894e-222 1. 00000000e+000
1. 00000000e+000 2. 86524839e-304]

*** 総入力2 ***

-9. 279624460168552

*** 出力1 ***

-9.279624460168552

出力合計: -9.279624460168552

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.0018936 -0.00769133 0.00521417 -0.00245118 0.00505139 -0.00444278
 0.00314404 -0.00416534 -0.00210609 0.00849469]
 [-0.00245454 -0.00996974 0.00675876 -0.00317729 0.00654776 -0.00575887
 0.0040754 -0.00539924 -0.00272998 0.01101107]]
```

*** 偏微分_重み2 ***

```
[-7.31193851e-003 -7.31193851e-003 -8.85325214e-227 -7.31193851e-003
 -8.25347562e-244 -7.31193851e-003 -3.11803648e-224 -7.31193851e-003
 -7.31193851e-003 -2.09505200e-306]
```

*** 偏微分_バイアス1 ***

```
[ 0.0011421 0.00463892 -0.00314485 0.00147839 -0.00304667 0.0026796
 -0.00189628 0.00251226 0.00127026 -0.00512345]
```

*** 偏微分_バイアス2 ***

-0.007311938514645178

順伝播開始

*** 総入力1 ***

```
[-50.68150799 -144.96252386 89.06948394 -78.90675119 94.10939619
 -111.62477482 92.33394234 -87.00794443 -69.19873708 112.05993965]
```

*** 中間層出力1 ***

```
[9.75665048e-23 1.10554342e-63 1.00000000e+00 5.38559107e-35
 1.00000000e+00 3.32641364e-49 1.00000000e+00 1.63278819e-38
 8.85870688e-31 1.00000000e+00]
```

*** 総入力2 ***

7.4927581329498745

*** 出力1 ***

7.4927581329498745

出力合計: 7.4927581329498745

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.73778028  2.99814238 -1.25731576  0.95516406 -1.21806401  1.73163002
 -0.75813562  1.6234648  0.82062537 -2.04836242]
 [-1.94885778 -7.91963844  3.32121861 -2.5230803  3.21753449 -4.57412687
  2.00262672 -4.28840681 -2.16769432  5.41078032]]
```

*** 偏微分_重み2 ***

```
[5.95352869e-22 6.74604927e-63 6.10202109e+00 3.28629903e-34
 6.10202109e+00 2.02978462e-48 6.10202109e+00 9.96330798e-38
 5.40560162e-30 6.10202109e+00]
```

*** 偏微分_バイアス1 ***

```
[-1.21113816 -4.92174257  2.06400622 -1.56799478  1.99957064 -2.84263923
 1.24455343 -2.6650755 -1.34713642  3.36258631]
```

*** 偏微分_バイアス2 ***

6.102021085495762

順伝播開始

*** 総入力1 ***

```
[ 132.94877216  488.66796213 -323.1901704  231.3909105 -351.34724515
 369.52991466 -313.77277109  268.59260824  193.83172662 -463.57418483]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 4.36809816e-141 1.00000000e+000
 2.58125079e-153 1.00000000e+000 5.37300130e-137 1.00000000e+000
 1.00000000e+000 4.70207528e-202]
```

*** 総入力2 ***

-9.70318308628108

*** 出力1 ***

-9.70318308628108

出力合計: -9.70318308628108

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -1.54324863 -6.27135099  3.19645605 -1.99796017  3.06370797 -3.62212938
  1.50824622 -3.39587527 -1.71653946  5.87174826]
 [ 0.714644  2.90412268 -1.48020746  0.92521076 -1.41873479  1.67732728]
```

-0.69843517 1.57255405 0.79489112 -2.71907558]]

*** 偏微分_重み2 ***

[-3.10954931e+000 -3.10954931e+000 -1.35828166e-140 -3.10954931e+000
-8.02652659e-153 -3.10954931e+000 -1.67076125e-136 -3.10954931e+000
-3.10954931e+000 -1.46213349e-201]

*** 偏微分_バイアス1 ***

[0.48538606 1.97247952 -1.0053566 0.62840296 -0.96360437 1.13924034
-0.47437702 1.06807838 0.53988988 -1.84679557]

*** 偏微分_バイアス2 ***

-3.109549308292527

順伝播開始

*** 総入力1 ***

[-194.73310799 -629.98091449 417.38172835 -320.94360359 445.86296783
-479.79747313 420.21362301 -360.27817244 -274.41770001 547.74531877]

*** 中間層出力1 ***

[2.68216663e-085 2.52793051e-274 1.00000000e+000 4.13013226e-140
1.00000000e+000 4.23257816e-209 1.00000000e+000 3.41332591e-157
6.63601179e-120 1.00000000e+000]

*** 総入力2 ***

5.574719204606834

*** 出力1 ***

5.574719204606834

出力合計: 5.574719204606834

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.08886787 -0.46397834 0.15684865 -0.12494304 0.15033476 -0.25379872
0.07400896 -0.23584854 -0.10261614 0.28812402]
[0.87662019 4.57682577 -1.54720354 1.23247673 -1.48294854 2.50354904
-0.73004723 2.32648292 1.01223732 -2.84214441]]

*** 偏微分_重み2 ***

[-3.93128677e-085 -3.70522088e-274 -1.46571310e+000 -6.05358897e-140
-1.46571310e+000 -6.20374527e-209 -1.46571310e+000 -5.00295651e-157

-9.72648943e-120 -1.46571310e+000]

*** 偏微分_バイアス1 ***

[0.21115703 1.10244885 -0.37268466 0.29687443 -0.35720716 0.60304563
-0.17585108 0.5603946 0.24382398 -0.68460523]

*** 偏微分_バイアス2 ***

-1.465713103456328

順伝播開始

*** 総入力1 ***

[37.7317029 139.51937747 -117.47606503 67.58828742 -123.5105943
103.24611511 -118.40982537 74.43545458 55.08100112 -136.14784615]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 9.56738391e-52 1.00000000e+00
2.29102822e-54 1.00000000e+00 3.76067879e-52 1.00000000e+00
1.00000000e+00 7.44289158e-60]

*** 総入力2 ***

-8.0769040079758

*** 出力1 ***

-8.0769040079758

出力合計: -8.0769040079758

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.09894762 5.73759524 -3.38477241 1.54505611 -3.2545359
3.13849637 -1.72850318 2.91652294 1.26895983 -6.00944863]
[-2.14979384 -11.22405346 6.62139187 -3.02248445 6.36661936
-6.1396194 3.38134903 -5.70538841 -2.48237674 11.7558611]]

*** 偏微分_重み2 ***

[-6.76950902e+00 -6.76950902e+00 -6.47664916e-51 -6.76950902e+00
-1.55091362e-53 -6.76950902e+00 -2.54579490e-51 -6.76950902e+00
-6.76950902e+00 -5.03847217e-59]

*** 偏微分_バイアス1 ***

[0.76697923 4.00439135 -2.3623056 1.07832795 -2.27141074 2.19042425
-1.20635962 2.03550421 0.88563441 -4.19412369]

*** 偏微分_バイアス2 ***

-6.769509018653408

順伝播開始

*** 総入力1 ***

[233.23786938 817.53801377 -554.81215307 398.89004771 -597.4454667
619.11440458 -548.63706845 454.69880318 335.89428998 -754.37507353]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.11723216e-241 1.00000000e+000
3.40981309e-260 1.00000000e+000 5.36968246e-239 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-4.759844588835628

*** 出力1 ***

-4.759844588835628

出力合計: -4.759844588835628

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.2137374 5.2911937 -3.70496649 0.70204704 -3.56240982 2.44622421
-1.89201683 2.20325245 0.39983249 -6.5779329]
[0.21993646 5.44465503 -3.81242223 0.72240862 -3.66573095 2.51717244
-1.94689129 2.26715373 0.4114289 -6.76871374]]

*** 偏微分_重み2 ***

[5.32496727e+000 5.32496727e+000 5.94922468e-241 5.32496727e+000
1.81571431e-259 5.32496727e+000 2.85933833e-238 5.32496727e+000
5.32496727e+000 0.00000000e+000]

*** 偏微分_バイアス1 ***

[-0.10719934 -2.6537819 1.85821453 -0.35210953 1.78671567 -1.22689622
0.94893521 -1.10503448 -0.20053475 3.29914198]

*** 偏微分_バイアス2 ***

5.32496727027103

順伝播開始

*** 総入力1 ***

[144.75735574 534.90149347 -349.15389775 252.07767267 -380.44216313
404.51960485 -337.36208005 293.96577544 211.29286337 -508.5791642]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.31413597e-152 1.00000000e+000
5.97128595e-166 1.00000000e+000 3.05851229e-147 1.00000000e+000
1.00000000e+000 1.33929231e-221]

*** 総入力2 ***

-7.3690785512684345

*** 出力1 ***

-7.3690785512684345

出力合計: -7.3690785512684345

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.00775597 -0.04746102 0.02897236 -0.01157449 0.02785758 -0.02521373
0.01479533 -0.02331372 -0.00921121 0.05143859]
[0.00456754 0.02795008 -0.017062 0.00681628 -0.0164055 0.01484851
-0.00871306 0.01372959 0.00542453 -0.03029249]]

*** 偏微分_重み2 ***

[-2.05873273e-002 -2.05873273e-002 -4.76418748e-154 -2.05873273e-002
-1.22932818e-167 -2.05873273e-002 -6.29665937e-149 -2.05873273e-002
-2.05873273e-002 -2.75724492e-223]

*** 偏微分_バイアス1 ***

[0.00192323 0.0117688 -0.00718421 0.0028701 -0.00690778 0.00625219
-0.00366876 0.00578105 0.00228408 -0.0127551]

*** 偏微分_バイアス2 ***

-0.02058732734468638

順伝播開始

*** 総入力1 ***

[10.06465443 46.74595454 -54.03827549 21.41665321 -55.91916669
33.31309024 -55.32618732 22.15861249 15.92811171 -53.17991904]

*** 中間層出力1 ***

```
[9.99957444e-01 1.00000000e+00 3.39997046e-24 1.00000000e+00
5.18339704e-25 1.00000000e+00 9.37868914e-25 1.00000000e+00
9.9999879e-01 8.02148198e-24]
```

*** 総入力2 ***

-7.358970533551777

*** 出力1 ***

-7.358970533551777

出力合計: -7.358970533551777

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.87085577 5.34247731 -3.26290774 1.30088553 -3.13736024 2.83695589
-1.66627049 2.62297434 1.03472982 -5.79308564]
[-1.40285591 -8.606162 5.25619688 -2.09558805 5.05395323 -4.57003381
2.68418432 -4.22533233 -1.66683955 9.33204402]]
```

*** 偏微分_重み2 ***

```
[-7.06516084e+00 -7.06546151e+00 -2.40223604e-23 -7.06546151e+00
-3.66230923e-24 -7.06546151e+00 -6.62647671e-24 -7.06546151e+00
-7.06546066e+00 -5.66754722e-23]
```

*** 偏微分_バイアス1 ***

```
[ 0.65805302 4.03698687 -2.46558196 0.98300049 -2.37071331 2.14371592
-1.2590998 1.98202301 0.78188272 -4.37748431]
```

*** 偏微分_バイアス2 ***

-7.065461512071255

順伝播開始

*** 総入力1 ***

```
[ 279.11780879 971.97168905 -660.48036298 476.01893418 -710.36133681
736.07809236 -654.4154885 541.62746252 401.24257208 -892.72881186]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.43556530e-287 1.00000000e+000
0.00000000e+000 1.00000000e+000 6.17965847e-285 1.00000000e+000
1.00000000e+000 0.00000000e+000]
```

*** 総入力2 ***

-3.896935727417261

*** 出力1 ***

-3.896935727417261

出力合計: -3.896935727417261

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.06160674  7.12099932 -5.24111751  0.6291034 -5.03945406
  3.09645027 -2.67648373  2.7527377  0.20158501 -9.30527155]
 [-0.10028708 11.59198176 -8.53179951  1.02409153 -8.20351989
  5.04058398 -4.35693772  4.48106842  0.32815193 -15.14766863]]
```

*** 偏微分_重み2 ***

```
[7.93849376e+000 7.93849376e+000 1.13962262e-286 7.93849376e+000
 0.00000000e+000 7.93849376e+000 4.90571801e-284 7.93849376e+000
 7.93849376e+000 0.00000000e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.03256277 -3.76386523  2.77023758 -0.33251799  2.66364664 -1.63665533
 1.41467841 -1.45498311 -0.10654948  4.91838103]
```

*** 偏微分_バイアス2 ***

7.9384937567087945

順伝播開始

*** 総入力1 ***

```
[ 441.46495464 1543.69349943 -1027.70495749  751.67135431
 -1107.98489781 1168.47554588 -1011.95837081  860.9651763
 634.60005746 -1417.59935801]
```

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-7.7867976682045725

*** 出力1 ***

-7.7867976682045725

出力合計: -7.7867976682045725

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 5.99053729 33.23484658 -19.88005817 8.61046668 -19.11512952
    17.96934852 -10.15215784 16.66561397 6.98884867 -35.29578176]
  [ 2.50956202 13.92277599 -8.32817435 3.60710553 -8.00772965
    7.5277379 -4.25295237 6.98157609 2.92777565 -14.78614507]]
```

*** 偏微分_重み2 ***

```
[11.39701161 11.39701161 0. 11.39701161 0. 11.39701161
 0. 11.39701161 11.39701161 0. ]
```

*** 偏微分_バイアス1 ***

```
[-1.19844477 -6.64884069 3.97713103 -1.72257817 3.82410223 -3.59488151
 2.03100321 -3.33406119 -1.39816326 7.06114377]
```

*** 偏微分_バイアス2 ***

11.397011611661915

順伝播開始

*** 総入力1 ***

```
[ 404.65737755 1418.51610197 -947.8846253 688.56581983
 -1020.31971473 1070.81271112 -930.90594041 790.26922492
 581.02652399 -1304.31588836]
```

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-13.371333357918912

*** 出力1 ***

-13.371333357918912

出力合計: -13.371333357918912

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 4.28197177 12.09759892 -5.70303033 5.03355593 -5.48359379
    7.71835627 -2.91236895 7.34435145 4.56835927 -10.12536846]
  [ 2.65841763 7.51066843 -3.54066705 3.12503083 -3.40443216
    4.7918612 -1.80811396 4.55966419 2.83621833 -6.28622967]]
```


*** 偏微分_重み2 ***

[3.9923061 3.9923061 0. 3.9923061 0. 3.9923061 0.
3.9923061 3.9923061 0.]

*** 偏微分_バイアス1 ***

[-1.0460221 -2.95526371 1.3931656 -1.22962294 1.33956051 -1.88547979
0.71144847 -1.79411596 -1.11598231 2.47347711]

*** 偏微分_バイアス2 ***

3.9923060971642794

順伝播開始

*** 総入力1 ***

[11.17058603 72.45399294 -49.55160938 25.55218547 -55.92163727
52.44291336 -41.81784281 34.55977908 19.31657907 -87.37002315]

*** 中間層出力1 ***

[9.99985918e-01 1.00000000e+00 3.02001762e-22 1.00000000e+00
5.17060683e-25 1.00000000e+00 6.89829275e-19 1.00000000e+00
9.99999996e-01 1.13679214e-38]

*** 総入力2 ***

-15.327540636906651

*** 出力1 ***

-15.327540636906651

出力合計: -15.327540636906651

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-8.13813348 -20.41703844 8.95990407 -9.31887767 8.6151522
-13.53690776 4.57555806 -12.9493171 -8.58801756 15.90774111]
[9.15732018 22.97398521 -10.08200598 10.48593597 -9.69407878
15.23221497 -5.14858232 14.57103685 9.66354592 -17.89996184]]

*** 偏微分_重み2 ***

[-1.39475710e+01 -1.39477675e+01 -4.21225035e-21 -1.39477675e+01
-7.21184217e-24 -1.39477675e+01 -9.62157831e-18 -1.39477675e+01
-1.39477674e+01 -1.58557124e-37]

*** 偏微分_バイアス1 ***

[4.42084263 11.09105844 -4.86724948 5.06225313 -4.67997142 7.35359516
-2.48556038 7.03440086 4.6652312 -8.64149259]

*** 偏微分_バイアス2 ***

-13.947767463028919

順伝播開始

*** 総入力1 ***

[72.81334066 259.40555086 -194.94613373 126.05041787 -206.91745639
193.74779541 -193.79958492 141.93449381 104.74717345 -244.73279234]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.16755364e-085 1.00000000e+000
1.37053610e-090 1.00000000e+000 6.82196794e-085 1.00000000e+000
1.00000000e+000 5.17486168e-107]

*** 総入力2 ***

-8.493171041690792

*** 出力1 ***

-8.493171041690792

出力合計: -8.493171041690792

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.71344918 3.44304711 -1.99178741 0.97592505 -1.91514904 1.91359349
-1.01714693 1.78297204 0.81345479 -3.53629216]
[-2.0581892 -9.93265192 5.74599489 -2.81539101 5.52490519 -5.52041766
2.93430968 -5.14359522 -2.34668974 10.2016493]]

*** 偏微分_重み2 ***

[-5.73817517e+000 -5.73817517e+000 -1.24378025e-084 -5.73817517e+000
-7.86437625e-090 -5.73817517e+000 -3.91456471e-084 -5.73817517e+000
-5.73817517e+000 -2.96942628e-106]

*** 偏微分_バイアス1 ***

[0.71725366 3.4614072 -2.00240864 0.98112919 -1.9253616 1.92379775
-1.02257088 1.79247976 0.81779255 -3.55514948]

*** 偏微分_バイアス2 ***

-5.73817517382242

順伝播開始

*** 総入力1 ***

[247.48763693 868.60771755 -590.85826474 422.01260358 -634.59568594
654.87120075 -581.64802679 482.81947359 355.37090841 -801.24559988]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.47466284e-257 1.00000000e+000
2.50377535e-276 1.00000000e+000 2.47440940e-253 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-5.681465206517806

*** 出力1 ***

-5.681465206517806

出力合計: -5.681465206517806

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.35846574 4.08328212 -2.71799825 0.71664099 -2.61341733 1.99618576
-1.38800133 1.81793939 0.49493366 -4.82563342]
[0.60100882 6.84608964 -4.55703503 1.20153062 -4.38169315 3.34683382
-2.32714303 3.04798338 0.8298129 -8.09072652]]

*** 偏微分_重み2 ***

[4.74568668e+000 4.74568668e+000 1.17439745e-256 4.74568668e+000
1.18821333e-275 4.74568668e+000 1.17427717e-252 4.74568668e+000
4.74568668e+000 0.00000000e+000]

*** 偏微分_バイアス1 ***

[-0.21841198 -2.48793016 1.65606726 -0.43664696 1.59234645 -1.21626932
0.84570458 -1.1076644 -0.30156142 2.94024232]

*** 偏微分_バイアス2 ***

4.745686675606993

順伝播開始

*** 総入力1 ***

[42.10716953 156.68997508 -125.19875354 74.96122804 -132.55269736

116. 30193809 -124. 61962478 83. 98058214 61. 38773211 -152. 92698172]

*** 中間層出力1 ***

[1. 00000000e+00 1. 00000000e+00 4. 23518317e-55 1. 00000000e+00
2. 71078440e-58 1. 00000000e+00 7. 55761248e-55 1. 00000000e+00
1. 00000000e+00 3. 84287012e-67]

*** 総入力2 ***

-8. 006851677565232

*** 出力1 ***

-8. 006851677565232

出力合計: -8. 006851677565232

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 65085739 3. 4464862 -2. 03997014 0. 91968274 -1. 96147783 1. 88003403
-1. 04175243 1. 74625275 0. 75328221 -3. 62183754]
[-1. 55410218 -8. 22943978 4. 87099337 -2. 19599711 4. 68357126 -4. 48910164
2. 48747228 -4. 16966181 -1. 79866979 8. 64813963]]

*** 偏微分_重み2 ***

[-6. 37994947e+00 -6. 37994947e+00 -2. 70202546e-54 -6. 37994947e+00
-1. 72946675e-57 -6. 37994947e+00 -4. 82171857e-54 -6. 37994947e+00
-6. 37994947e+00 -2. 45173171e-66]

*** 偏微分_バイアス1 ***

[0. 71032676 3. 76139446 -2. 22636388 1. 00371491 -2. 14069967 2. 05181428
-1. 1369382 1. 9058093 0. 82211022 -3. 95276779]

*** 偏微分_バイアス2 ***

-6. 379949466650855

順伝播開始

*** 総入力1 ***

[278. 11896509 994. 23963882 -660. 00272646 476. 65365131 -712. 40894153
749. 26298433 -643. 4435459 551. 00880012 401. 28249398 -924. 65087119]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 2. 31450359e-287 1. 00000000e+000
0. 00000000e+000 1. 00000000e+000 3. 59764742e-280 1. 00000000e+000

1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-4.880676438906313

*** 出力1 ***

-4.880676438906313

出力合計: -4.880676438906313

誤差逆伝播開始

*** 偏微分_重み1 ***

[[7.49049468e-01 1.59720953e+01 -1.11082555e+01 2.21288494e+00
-1.06808411e+01 7.44228868e+00 -5.67265760e+00 6.71380910e+00
1.30678364e+00 -1.97220027e+01]
[2.49071082e-03 5.31098044e-02 -3.69367489e-02 7.35820090e-03
-3.55155269e-02 2.47468155e-02 -1.88625054e-02 2.23245028e-02
4.34526729e-03 -6.55788539e-02]]

*** 偏微分_重み2 ***

[7.64249920e+000 7.64249920e+000 1.76885918e-286 7.64249920e+000
0.00000000e+000 7.64249920e+000 2.74950175e-279 7.64249920e+000
7.64249920e+000 0.00000000e+000]

*** 偏微分_バイアス1 ***

[-0.17983696 -3.83469074 2.66694654 -0.53128467 2.56432995 -1.78679596
1.36193074 -1.61189756 -0.31374162 4.73499435]

*** 偏微分_バイアス2 ***

7.64249919503213

順伝播開始

*** 総入力1 ***

[398.4994485 1404.31416537 -937.20668489 678.56007752
-1008.53416935 1057.91751934 -917.30077989 781.2446992
572.3196721 -1294.32397852]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-8.625501044472058

*** 出力1 ***

-8.625501044472058

出力合計: -8.625501044472058

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 4.6395733 21.87762223 -12.57860307 6.2971698 -12.09461385
 12.21876514 -6.42352063 11.39386014 5.27113212 -22.33251156]
 [ 2.44077712 11.50933424 -6.61732548 3.31280206 -6.36270943
 6.42802269 -3.37927244 5.99405837 2.77302628 -11.74864148]]
```

*** 偏微分_重み2 ***

```
[8.51934304 8.51934304 0. 8.51934304 0. 8.51934304
0. 8.51934304 8.51934304 0.]
```

*** 偏微分_バイアス1 ***

```
[-1.09655556 -5.17074024 2.97293227 -1.48832578 2.85854221 -2.88788516
1.5181886 -2.69292021 -1.24582346 5.27825259]
```

*** 偏微分_バイアス2 ***

8.519343036716966

順伝播開始

*** 総入力1 ***

```
[109.25464691 419.57199513 -278.3065626 192.42139331 -301.94427405
313.10902637 -264.77029611 227.75030525 160.28166651 -406.1099371 ]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.35829964e-121 1.00000000e+000
7.36661441e-132 1.00000000e+000 1.02735710e-115 1.00000000e+000
1.00000000e+000 4.25299890e-177]
```

*** 総入力2 ***

-12.79997913246337

*** 出力1 ***

-12.79997913246337

出力合計: -12.79997913246337

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -5.27813085 -15.54039782  7.48837547 -6.26494194  7.20024387
   -9.79022444  3.82409192 -9.29913665 -5.65411454 13.29513546]
 [  2.95999814  8.71512093 -4.19951269  3.51340598 -4.03792727
   5.49039934 -2.14456695  5.21499523  3.17085139 -7.45596829]]
```

*** 偏微分_重み2 ***

```
[-7.20716659e+000 -7.20716659e+000 -9.78949176e-121 -7.20716659e+000
 -5.30924173e-131 -7.20716659e+000 -7.40433380e-115 -7.20716659e+000
 -7.20716659e+000 -3.06520716e-176]
```

*** 偏微分_バイアス1 ***

```
[ 1.77270313  5.21936886 -2.51503174  2.10413165 -2.4182604  3.28812641
 -1.28435234  3.12319059  1.8989803  -4.46527925]
```

*** 偏微分_バイアス2 ***

-7.20716659339657

順伝播開始

*** 総入力1 ***

```
[ -44.89422381 -163.71028706  75.9857772  -75.00952284  86.43029779
 -124.53135804  67.61279458 -93.08993713 -65.11862397 147.12611623]
```

*** 中間層出力1 ***

```
[3.18189857e-20 7.97123658e-72 1.00000000e+00 2.65324980e-33
 1.00000000e+00 8.25502476e-55 1.00000000e+00 3.72867029e-41
 5.24011646e-29 1.00000000e+00]
```

*** 総入力2 ***

5.917500414642969

*** 出力1 ***

5.917500414642969

出力合計: 5.917500414642969

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -2.12040228 -9.02927193  3.11810713 -2.78475346  2.99813115 -5.15808066
   1.59232511 -4.82746545 -2.37352591  5.53600135]
 [  2.37015744 10.09279996 -3.48537864  3.11276034 -3.35127109  5.76563389]
```

-1.77987981 5.39607661 2.65309567 -6.1880686]]

*** 偏微分_重み2 ***

[1.02504893e-19 2.56793463e-71 3.22150096e+00 8.54744679e-33
3.22150096e+00 2.65935702e-54 3.22150096e+00 1.20119149e-40
1.68810402e-28 3.22150096e+00]

*** 偏微分_バイアス1 ***

[-0.60122118 -2.56016962 0.8841115 -0.78959203 0.85009338 -1.46252782
0.4514896 -1.36878482 -0.67299213 1.56968386]

*** 偏微分_バイアス2 ***

3.2215009625267896

順伝播開始

*** 総入力1 ***

[-222.35692461 -766.51408074 481.10195321 -372.79570431 520.32743919
-580.08700249 468.37680425 -432.05579815 -317.55378762 691.5744153]

*** 中間層出力1 ***

[2.70156007e-097 0.00000000e+000 1.00000000e+000 1.24992151e-162
1.00000000e+000 1.17873395e-252 1.00000000e+000 2.29377593e-188
1.22501760e-138 1.00000000e+000]

*** 総入力2 ***

4.7899750777585925

*** 出力1 ***

4.7899750777585925

出力合計: 4.7899750777585925

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.73976266 15.9249659 -4.61096651 4.9114817 -4.39936435 9.09732913
-1.91993816 8.51422166 4.1861979 -8.87541698]
[-1.18245852 -5.03524241 1.45792049 -1.55293902 1.39101497 -2.87644305
0.6070565 -2.69207295 -1.32361484 2.80627766]]

*** 偏微分_重み2 ***

[-1.32308230e-096 0.00000000e+000 -4.89747502e+000 -6.12145938e-162
-4.89747502e+000 -5.77282009e-252 -4.89747502e+000 -1.12337103e-187

-5.99949312e-138 -4.89747502e+000]

*** 偏微分_バイアス1 ***

[0.91400429 3.89208847 -1.12692798 1.2003744 -1.07521205 2.22340255
-0.46923612 2.08089011 1.02311381 -2.16916685]

*** 偏微分_バイアス2 ***

-4.897475023166306

順伝播開始

*** 総入力1 ***

[-14.40556361 -48.65951823 5.42864356 -22.01800219 9.12420949
-38.0505283 1.03728986 -29.78632809 -20.46547851 37.87752328]

*** 中間層出力1 ***

[5.54297572e-07 7.36952914e-22 9.95630134e-01 2.73970087e-10
9.99891017e-01 2.98445837e-17 7.38326745e-01 1.15867617e-13
1.29406357e-09 1.00000000e+00]

*** 総入力2 ***

6.280094673550545

*** 出力1 ***

6.280094673550545

出力合計: 6.280094673550545

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.22335371 -9.46766821 3.55144544 -2.91996099 3.41866525 -5.40851982
2.16388311 -5.06185233 -2.4887672 6.07958394]
[2.81902838 12.00421922 -4.5029387 3.70226871 -4.33458442 6.85755523
-2.74362458 6.41800955 3.1555507 -7.70840896]]

*** 偏微分_重み2 ***

[2.89395869e-06 3.84759271e-21 5.19813297e+00 1.43038353e-09
5.22037882e+00 1.55817014e-16 3.85476540e+00 6.04938781e-13
6.75623838e-09 5.22094781e+00]

*** 偏微分_バイアス1 ***

[-0.97437326 -4.1491566 1.55640258 -1.27965779 1.49821235 -2.37025582
0.94831058 -2.21833059 -1.09068935 2.6643462]

*** 偏微分_バイアス2 ***

5. 220947812301669

順伝播開始

*** 総入力1 ***

[180.92811862 672.24943091 -443.73365015 314.98600916 -480.79334943
504.55167221 -427.16095005 368.64218948 263.87101472 -638.49645086]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.94502104e-193 1.00000000e+000
1.56351268e-209 1.00000000e+000 3.06447800e-186 1.00000000e+000
1.00000000e+000 5.06424463e-278]

*** 総入力2 ***

-9.51661586746562

*** 出力1 ***

-9.51661586746562

出力合計: -9.51661586746562

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.41513813 -1.76777495 0.81268044 -0.54520646 0.77360161 -1.00986279
0.39619638 -0.94513406 -0.46469524 1.57692182]
[0.17489177 0.74473836 -0.34237067 0.2296877 -0.32590732 0.42544079
-0.16691188 0.3981715 0.19576947 -0.66433466]]

*** 偏微分_重み2 ***

[-6.91448957e-001 -6.91448957e-001 -1.34488277e-193 -6.91448957e-001
-1.08108921e-209 -6.91448957e-001 -2.11893012e-186 -6.91448957e-001
-6.91448957e-001 -3.50166667e-278]

*** 偏微分_バイアス1 ***

[0.10148599 0.43215592 -0.19867046 0.13328292 -0.18911712 0.24687429
-0.09685543 0.2310505 0.11360088 -0.38549935]

*** 偏微分_バイアス2 ***

-0.6914489574560232

順伝播開始

*** 総入力1 ***

[-172.32103383 -585.17696969 365.53492354 -286.85013865 394.74295426
-443.25132687 357.05033246 -331.4602523 -244.97161874 521.80198443]

*** 中間層出力1 ***

[1.45186386e-075 7.25890523e-255 1.00000000e+000 2.64586482e-125
1.00000000e+000 3.15060999e-193 1.00000000e+000 1.11851408e-144
4.07547052e-107 1.00000000e+000]

*** 総入力2 ***

4.822430665791925

*** 出力1 ***

4.822430665791925

出力合計: 4.822430665791925

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.17642341 5.27530022 -1.52315184 1.5705677 -1.44990903 2.97860941
-0.742564 2.78246283 1.32659564 -2.95551762]
[-0.22021687 -0.98749319 0.28512161 -0.29399747 0.27141115 -0.5575714
0.13900193 -0.52085436 -0.24832789 0.5532488]]

*** 偏微分_重み2 ***

[-3.53924957e-075 -1.76952385e-254 -2.43772827e+000 -6.44989948e-125
-2.43772827e+000 -7.68033105e-193 -2.43772827e+000 -2.72663340e-144
-9.93488972e-107 -2.43772827e+000]

*** 偏微分_バイアス1 ***

[0.42545026 1.90779767 -0.55084363 0.56799144 -0.52435557 1.07720581
-0.26854621 1.00626995 0.47975963 -1.06885473]

*** 偏微分_バイアス2 ***

-2.437728272661049

順伝播開始

*** 総入力1 ***

[344.06945842 1223.36213208 -814.37153637 587.31991059
-876.74485553 919.75600255 -793.93813451 678.88179806
494.84832612 -1131.77654686]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-9.007164899225893

*** 出力1 ***

-9.007164899225893

出力合計: -9.007164899225893

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.4003619 15.24785186 -8.17496853 4.53960582 -7.83268443
8.6094427 -4.5270634 8.04249602 3.83442323 -14.86881413]
[1.06968506 4.79666571 -2.57167971 1.42806815 -2.46400406
2.70835649 -1.42412256 2.53000654 1.20623197 -4.67742811]]

*** 偏微分_重み2 ***

[5.99356726 5.99356726 0. 5.99356726 0. 5.99356726
0. 5.99356726 5.99356726 0.]

*** 偏微分_バイアス1 ***

[-0.8226569 -3.68894574 1.9777878 -1.09827664 1.89497827 -2.08290107
1.09524223 -1.94573844 -0.9276703 3.59724432]

*** 偏微分_バイアス2 ***

5.993567261632226

順伝播開始

*** 総入力1 ***

[406.30327169 1424.54134601 -955.13696728 689.01734198
-1025.14464996 1070.51794479 -934.78855145 793.20529124
581.34848758 -1307.29881136]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-11.944012857425683

*** 出力1 ***

-11.944012857425683

出力合計: -11.944012857425683

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 3.3709289 10.70702352 -5.06202942 4.07636112 -4.85008339
    6.59644838 -2.80320689 6.24538883 3.63970439 -9.20693142]
  [ 4.14693444 13.1718366 -6.22733519 5.01476088 -5.96659807
    8.11498546 -3.44851985 7.68311016 4.47758347 -11.32641541]]
```

*** 偏微分_重み2 ***

```
[4.95632929 4.95632929 0. 4.95632929 0. 4.95632929
0. 4.95632929 4.95632929 0.]
```

*** 偏微分_バイアス1 ***

```
[-1.08912917 -3.45938226 1.63551474 -1.31705056 1.5670361 -2.13127733
0.90570121 -2.01785186 -1.1759691 2.97471049]
```

*** 偏微分_バイアス2 ***

4.956329289711242

順伝播開始

*** 総入力1 ***

```
[-164.00637765 -575.45513584 347.85521532 -275.69048422 378.46133383
-434.88657281 333.96663943 -323.73888161 -235.08381142 521.6154248 ]
```

*** 中間層出力1 ***

```
[5.92836848e-072 1.21062579e-250 1.00000000e+000 1.85842050e-120
1.00000000e+000 1.35257443e-189 1.00000000e+000 2.52342347e-141
8.02412922e-103 1.00000000e+000]
```

*** 総入力2 ***

4.90914280262925

*** 出力1 ***

4.90914280262925

出力合計: 4.90914280262925

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 4.49373756 11.95672532 -3.18502026 5.21137171 -3.05166418 7.77504916
-1.76377299 7.4179173 4.76716209 -5.79298552]
[-2.98189431 -7.934084 2.11347318 -3.45809239 2.02498253 -5.15926321
1.17038091 -4.92228243 -3.16332971 3.84403191]]
```

*** 偏微分_重み2 ***

```
[-1.59987039e-071 -3.26707821e-250 -2.69866894e+000 -5.01526170e-120
-2.69866894e+000 -3.65015062e-189 -2.69866894e+000 -6.80988456e-141
-2.16544683e-102 -2.69866894e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.98811909 2.62914076 -0.70034783 1.14591825 -0.67102442 1.70964023
-0.38783257 1.63111121 1.04824187 -1.27380817]
```

*** 偏微分_バイアス2 ***

```
-2.6986689447433063
```

順伝播開始

*** 総入力1 ***

```
[ 80.27349796 305.64562948 -211.54134909 141.47464407 -228.00357023
227.64344494 -203.61614695 165.50799007 117.41646297 -295.65185779]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.34511494e-092 1.00000000e+000
9.53471232e-100 1.00000000e+000 3.72075396e-089 1.00000000e+000
1.00000000e+000 3.98134301e-129]
```

*** 総入力2 ***

```
-14.18370738325216
```

*** 出力1 ***

```
-14.18370738325216
```

出力合計: -14.18370738325216

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -3.73477333 -9.93730905 4.89237754 -4.33120356 4.71318099 -6.46189189
2.98258383 -6.16507737 -3.96201817 8.39681743]
[ -0.12590191 -0.33499387 0.16492559 -0.146008 0.15888474 -0.21783505
0.10054506 -0.20782922 -0.1335625 0.28306279]]
```

*** 偏微分_重み2 ***

[-1.03338308e+001 -1.03338308e+001 -1.39001901e-091 -1.03338308e+001
-9.85301037e-099 -1.03338308e+001 -3.84496419e-088 -1.03338308e+001
-1.03338308e+001 -4.11425250e-128]

*** 偏微分_バイアス1 ***

[2.97571196 7.91763428 -3.89804281 3.45092274 -3.75526646 5.14856653
-2.37639867 4.91207707 3.15677119 -6.69023468]

*** 偏微分_バイアス2 ***

-10.333830792127834

順伝播開始

*** 総入力1 ***

[-185.69532184 -601.96608477 393.47362811 -303.59225951 419.52586625
-455.42819058 391.46850964 -344.34543559 -259.89488772 522.5952395]

*** 中間層出力1 ***

[2.25707719e-081 3.71065941e-262 1.00000000e+000 1.41761058e-132
1.00000000e+000 1.62199656e-198 1.00000000e+000 2.83581211e-150
1.34612190e-113 1.00000000e+000]

*** 総入力2 ***

6.577045088738356

*** 出力1 ***

6.577045088738356

出力合計: 6.577045088738356

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.00161051 0.00689538 -0.00257825 0.0021187 -0.00248381 0.00393415
-0.0015718 0.00368125 0.00180414 -0.00442506]
[-0.02393702 -0.10248579 0.03832038 -0.0314902 0.0369168 -0.05847319
0.0233616 -0.05471434 -0.02681484 0.06576951]]

*** 偏微分_重み2 ***

[8.01435667e-083 1.31756894e-263 3.55076765e-002 5.03360579e-134
3.55076765e-002 5.75933291e-200 3.55076765e-002 1.00693099e-151
4.77976608e-115 3.55076765e-002]

*** 偏微分_バイアス1 ***

[-0.00657987 -0.02817158 0.01053361 -0.00865611 0.01014779 -0.01607327
0.0064217 -0.01504003 -0.00737094 0.01807891]

*** 偏微分_バイアス2 ***

0.03550767650908693

順伝播開始

*** 総入力1 ***

[-40.59153526 -82.35444278 62.42258741 -56.57634649 61.15911147
-64.76025286 72.35507354 -55.37379696 -51.06158466 43.35993059]

*** 中間層出力1 ***

[2.35136595e-18 1.71364139e-36 1.00000000e+00 2.68661177e-25
1.00000000e+00 7.49858875e-29 1.00000000e+00 8.94263570e-25
6.67168518e-23 1.00000000e+00]

*** 総入力2 ***

6.564617401960176

*** 出力1 ***

6.564617401960176

出力合計: 6.564617401960176

誤差逆伝播開始

*** 偏微分_重み1 ***

[[4.11321255 17.6106248 -6.57392772 5.41111151 -6.33274255
10.0477279 -4.00348798 9.40182628 4.60772276 -11.29064217]
[-6.10220369 -26.12644453 9.75282592 -8.02771659 9.39501289
-14.90642204 5.93942054 -13.94818727 -6.83583999 16.75036177]]

*** 偏微分_重み2 ***

[1.56929256e-17 1.14367764e-35 6.67396139e+00 1.79303432e-24
6.67396139e+00 5.00452918e-28 6.67396139e+00 5.96828054e-24
4.45265693e-22 6.67396139e+00]

*** 偏微分_バイアス1 ***

[-1.23674179 -5.29508146 1.97661828 -1.62698806 1.90409983 -3.0211045
1.20375031 -2.82689777 -1.38542883 3.39481823]

*** 偏微分_バイアス2 ***

6. 673961392295676

順伝播開始

*** 総入力1 ***

[28.27541401 110.45071782 -93.76013756 52.09174255 -99.28202861
81.86184724 -93.24920282 57.94877654 42.00001785 -113.00747868]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 1.90761019e-41 1.00000000e+00
7.62715937e-44 1.00000000e+00 3.17969728e-41 1.00000000e+00
1.00000000e+00 8.34594651e-50]

*** 総入力2 ***

-9.589793129925466

*** 出力1 ***

-9.589793129925466

出力合計: -9.589793129925466

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.91624486 3.92288124 -1.63334879 1.20536029 -1.5464845 2.23819676
-0.70758947 2.09431797 1.02640022 -3.33210185]
[-2.09451491 -8.96761732 3.73379821 -2.75542622 3.53522842 -5.11646689
1.61753345 -4.78756325 -2.34632757 7.61710907]]

*** 偏微分_重み2 ***

[-8.41540612e+00 -8.41540612e+00 -1.60533145e-40 -8.41540612e+00
-6.41856436e-43 -8.41540612e+00 -2.67584439e-40 -8.41540612e+00
-8.41540612e+00 -7.02345293e-49]

*** 偏微分_バイアス1 ***

[1.22642301 5.25090185 -2.18628954 1.61341325 -2.07001891 2.99589785
-0.94713111 2.8033115 1.37386948 -4.46012476]

*** 偏微分_バイアス2 ***

-8.415406119099867

順伝播開始

*** 総入力1 ***

[-104.46416119 -326.27756633 209.47038461 -168.52074535 223.27110977

-248.88223997 210.53151374 -189.32968196 -145.32833913 276.52660518]

*** 中間層出力1 ***

[4.28342570e-046 1.99275255e-142 1.00000000e+000 6.49187592e-074
1.00000000e+000 8.16237487e-109 1.00000000e+000 5.95886938e-083
7.66839106e-064 1.00000000e+000]

*** 総入力2 ***

4.81780934299368

*** 出力1 ***

4.81780934299368

出力合計: 4.81780934299368

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.01268214 0.21541744 -0.06811882 0.03217698 -0.06449615 0.10182039
-0.02951002 0.09211875 0.02010984 -0.13896533]
[-0.10569264 -1.79528351 0.56770054 -0.26816217 0.53750926 -0.84856859
0.24593579 -0.76771535 -0.16759487 1.15813355]]

*** 偏微分_重み2 ***

[5.53713795e-046 2.57600961e-142 1.29268916e+000 8.39197760e-074
1.29268916e+000 1.05514135e-108 1.29268916e+000 7.70296583e-083
9.91284597e-064 1.29268916e+000]

*** 偏微分_バイアス1 ***

[-0.04917247 -0.8352381 0.26411713 -0.12475983 0.25007093 -0.39478824
0.11441922 -0.35717206 -0.07797187 0.53881031]

*** 偏微分_バイアス2 ***

1.2926891554378042

順伝播開始

*** 総入力1 ***

[197.50947218 727.76375938 -478.34096219 340.66292717 -516.55797761
543.60383552 -459.73026626 399.92428396 285.77293838 -683.10821885]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.81618320e-208 1.00000000e+000
4.58902834e-225 1.00000000e+000 2.19625214e-200 1.00000000e+000]

1. 00000000e+000 2. 13732228e-297]

*** 総入力2 ***

-5. 5567323724478745

*** 出力1 ***

-5. 5567323724478745

出力合計: -5. 5567323724478745

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 40484773 6. 87669889 -3. 20967507 1. 02717508 -3. 02269777 3. 25037836
-1. 2169577 2. 94067609 0. 64195958 -6. 86627851]
[-0. 11143789 -1. 89287173 0. 88349124 -0. 28273896 0. 83202409 -0. 89469517
0. 33497829 -0. 80944691 -0. 17670501 1. 89000343]]

*** 偏微分_重み2 ***

[3. 61445437e+000 3. 61445437e+000 6. 56451130e-208 3. 61445437e+000
1. 65868335e-224 3. 61445437e+000 7. 93825316e-200 3. 61445437e+000
3. 61445437e+000 7. 72525384e-297]

*** 偏微分_バイアス1 ***

[-0. 10812858 -1. 83666015 0. 85725468 -0. 27434261 0. 80731593 -0. 8681259
0. 32503062 -0. 7854092 -0. 1714575 1. 83387703]

*** 偏微分_バイアス2 ***

3. 614454370896248

順伝播開始

*** 総入力1 ***

[309. 87685807 1098. 04683261 -735. 52190999 527. 60003074
-790. 17219413 824. 02962138 -717. 34528146 609. 48216614
444. 47313075 -1013. 75000702]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-7. 3278150141870375

*** 出力1 ***

-7.3278150141870375

出力合計: -7.3278150141870375

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.35568915  9.49430107 -4.03629489  2.13829072 -3.80116345  4.93405784
   -1.53037303  4.54459484  1.65386681 -8.63462009]
 [ 1.02894191  7.2059913  -3.06346993  1.62292139 -2.88500971  3.74485469
   -1.1615236  3.44925979  1.25525299 -6.55351003]]
```

*** 偏微分_重み2 ***

```
[5.83936399 5.83936399 0.          5.83936399 0.          5.83936399
 0.          5.83936399 5.83936399 0.          ]
```

*** 偏微分_バイアス1 ***

```
[-0.46516807 -3.25771266  1.38494544 -0.73369664  1.30426645 -1.69298852
 0.52510612 -1.55935482 -0.56747967  2.96273638]
```

*** 偏微分_バイアス2 ***

5.839363993932964

順伝播開始

*** 総入力1 ***

```
[ -512.15368922 -1741.96052451  1139.05966946 -854.78796178
 1221.61633185 -1313.16867597  1118.25427278 -981.52602564
 -726.47719828 1562.86299354]
```

*** 中間層出力1 ***

```
[3.75386704e-223 0.00000000e+000 1.00000000e+000 0.00000000e+000
 1.00000000e+000 0.00000000e+000 1.00000000e+000 0.00000000e+000
 0.00000000e+000 1.00000000e+000]
```

*** 総入力2 ***

3.703600853052404

*** 出力1 ***

3.703600853052404

出力合計: 3.703600853052404

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 11.94382112  47.63695966 -10.94856033  15.37604105 -10.31075986
 27.63730921 -4.15117871  25.92925913  13.25152522 -23.42164325]
 [ 16.46536319  65.67076268 -15.09332905  21.19690992 -14.21407808
 38.09989528 -5.72267991  35.74523301  18.26812153 -32.28831534]]
```

*** 偏微分_重み2 ***

```
[-6.24046641e-222  0.00000000e+000 -1.66241008e+001  0.00000000e+000
-1.66241008e+001  0.00000000e+000 -1.66241008e+001  0.00000000e+000
 0.00000000e+000 -1.66241008e+001]
```

*** 偏微分_バイアス1 ***

```
[ 3.38268393 13.49155989 -3.10080993  4.3547443 -2.92017449  7.82733439
-1.17568117  7.34358689  3.75304695 -6.63338939]
```

*** 偏微分_バイアス2 ***

-16.624100798646612

順伝播開始

*** 総入力1 ***

```
[-254.76427237 -888.34017154  548.2160184 -424.90851858  591.46673497
-665.41245598  527.43084872 -499.00663564 -361.66135926  794.43860469]
```

*** 中間層出力1 ***

```
[2.27657690e-111 0.00000000e+000 1.00000000e+000 2.91457387e-185
 1.00000000e+000 1.03524271e-289 1.00000000e+000 1.92385223e-217
 8.55987365e-158 1.00000000e+000]
```

*** 総入力2 ***

9.52203613257872

*** 出力1 ***

9.52203613257872

出力合計: 9.52203613257872

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.19782736  4.77743707 -2.44485743  1.5420394 -2.38089341  2.77170303
-1.76315854  2.60040533  1.32897499 -3.69576365]
 [-0.38860195 -1.5499073  0.79316636 -0.50027202  0.772415 -0.89920238
 0.57200801 -0.84362957 -0.43114917  1.19898828]]
```

*** 偏微分_重み2 ***

[-2.91663923e-111 0.00000000e+000 -1.28115120e+000 -3.73400980e-185
-1.28115120e+000 -1.32630244e-289 -1.28115120e+000 -2.46474558e-217
-1.09664924e-157 -1.28115120e+000]

*** 偏微分_バイアス1 ***

[0.26068956 1.03973913 -0.53208737 0.33560227 -0.51816654 0.60322053
-0.3837256 0.56594009 0.28923192 -0.80432877]

*** 偏微分_バイアス2 ***

-1.2811511985795487

順伝播開始

*** 総入力1 ***

[69.70695404 254.21364905 -185.95252387 121.23373097 -198.13289405
189.19350871 -182.89715194 138.42530568 100.60022143 -240.73222648]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.74519912e-081 1.00000000e+000
8.95318240e-087 1.00000000e+000 3.70489715e-080 1.00000000e+000
1.00000000e+000 2.82697796e-105]

*** 総入力2 ***

-8.935735731408357

*** 出力1 ***

-8.935735731408357

出力合計: -8.935735731408357

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.40855835 1.62950176 -1.40550003 0.52596316 -1.37022593 0.94538032
-1.02956506 0.88695361 0.45329055 -2.09533448]
[-1.99106586 -7.94120432 6.84955559 -2.56322579 6.67765101 -4.60721089
5.01747633 -4.32247453 -2.20906351 10.21139074]]

*** 偏微分_重み2 ***

[-6.12222278e+000 -6.12222278e+000 -1.06844978e-080 -6.12222278e+000
-5.48133772e-086 -6.12222278e+000 -2.26822057e-079 -6.12222278e+000
-6.12222278e+000 -1.73073889e-104]

*** 偏微分_バイアス1 ***

[0.97972062 3.90753607 -3.37038117 1.26125671 -3.28579409 2.26701669
-2.46889124 2.12690978 1.0869882 -5.02460031]

*** 偏微分_バイアス2 ***

-6.122222776530918

順伝播開始

*** 総入力1 ***

[-276.55031697 -923.61148936 594.18409462 -455.96042267 635.64087599
-694.96313133 584.48767572 -523.63454548 -388.89794008 809.274677]

*** 中間層出力1 ***

[7.86544634e-121 0.00000000e+000 1.00000000e+000 9.52586604e-199
1.00000000e+000 1.51826275e-302 1.00000000e+000 3.87620165e-228
1.26990314e-169 1.00000000e+000]

*** 総入力2 ***

10.398994646438725

*** 出力1 ***

10.398994646438725

出力合計: 10.398994646438725

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.00608048 -0.04445894 0.02732516 -0.00977092 0.02663937 -0.02295465
0.02001638 -0.02111809 -0.00748657 0.04073664]
[-0.02021649 -0.14781791 0.09085118 -0.03248652 0.08857107 -0.07632003
0.06655084 -0.07021382 -0.02489147 0.13544191]]

*** 偏微分_重み2 ***

[4.63268411e-122 0.00000000e+000 5.88991890e-002 5.61065785e-200
5.88991890e-002 8.94244444e-304 5.88991890e-002 2.28305134e-229
7.47962653e-171 5.88991890e-002]

*** 偏微分_バイアス1 ***

[-0.00567445 -0.0414902 0.02550052 -0.00911846 0.02486053 -0.02142185
0.01867979 -0.01970793 -0.00698665 0.03801645]

*** 偏微分_バイアス2 ***

0.05889918902316005

順伝播開始

*** 総入力1 ***

[-101.85645354 -338.12612043 201.57128221 -165.77273478 217.01854119
-254.53375655 195.40541387 -193.44968367 -142.6080407 291.35446243]

*** 中間層出力1 ***

[5.81171461e-045 1.42459596e-147 1.00000000e+000 1.01348199e-072
1.00000000e+000 2.86677806e-111 1.00000000e+000 9.67987735e-085
1.16443392e-062 1.00000000e+000]

*** 総入力2 ***

10.37837993028062

*** 出力1 ***

10.37837993028062

出力合計: 10.37837993028062

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.94059006 -6.87736046 4.21901831 -1.51146453 4.1129342 -3.55085745
3.08842303 -3.2667608 -1.15809794 6.29364197]
[0.18491779 1.35207289 -0.82944908 0.29715037 -0.80859319 0.69809022
-0.6071767 0.64223749 0.22767933 -1.23731521]]

*** 偏微分_重み2 ***

[3.72219564e-044 9.12402834e-147 6.40464285e+000 6.49099019e-072
6.40464285e+000 1.83606896e-110 6.40464285e+000 6.19961573e-084
7.45778339e-062 6.40464285e+000]

*** 偏微分_バイアス1 ***

[-0.61703493 -4.51160589 2.76771124 -0.99153335 2.69811918 -2.32939214
2.0260313 -2.14302236 -0.75972192 4.12868168]

*** 偏微分_バイアス2 ***

6.404642848144352

順伝播開始

*** 総入力1 ***


```
[ 284.57410132 1022.91993258 -672.39927671 484.53333292 -722.97911461
 763.35053111 -649.83854925 565.87007767 407.83753959 -941.86555259]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 9.56542977e-293 1.00000000e+000
 0.00000000e+000 1.00000000e+000 6.00764044e-283 1.00000000e+000
 1.00000000e+000 0.00000000e+000]
```

*** 総入力2 ***

-6.388294513509933

*** 出力1 ***

-6.388294513509933

出力合計: -6.388294513509933

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.55963232 11.40364349 -9.0036836 2.50622354 -8.71928172
    5.88782756 -5.97266025 5.41675483 1.92029139 -14.56556136]
 [ 0.38055629 2.78253288 -2.19693344 0.61152819 -2.12753828
    1.43665258 -1.45735208 1.32170902 0.46855849 -3.55405301]]
```

*** 偏微分_重み2 ***

```
[5.86129361e+000 5.86129361e+000 5.60657923e-292 5.86129361e+000
 0.00000000e+000 5.86129361e+000 3.52125445e-282 5.86129361e+000
 5.86129361e+000 0.00000000e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.44409734 -3.24712928 2.56375295 -0.71363436 2.48277097 -1.67652884
 1.70068452 -1.54239329 -0.54679317 4.14746925]
```

*** 偏微分_バイアス2 ***

5.861293605345704

順伝播開始

*** 総入力1 ***

```
[ 131.68937358 474.5630089 -326.46112109 225.85237362 -349.4429098
 353.75971243 -318.31559481 261.08188698 189.08818825 -440.82687647]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.65858050e-142 1.00000000e+000
```

1. 73329521e-152 1. 00000000e+000 5. 71865203e-139 1. 00000000e+000
1. 00000000e+000 3. 55893517e-192]

*** 総入力2 ***

-9. 26032838012933

*** 出力1 ***

-9. 26032838012933

出力合計: -9. 26032838012933

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0. 31102601 -1. 2618389 0. 86964737 -0. 40245531 0. 84217758 -0. 72907752
0. 57688703 -0. 68357757 -0. 34586133 1. 40685776]
[-1. 15528957 -4. 68703354 3. 23025896 -1. 49489888 3. 12822387 -2. 70811973
2. 14281622 -2. 53911258 -1. 28468352 5. 22569841]]

*** 偏微分_重み2 ***

[-3. 79131159e+000 -3. 79131159e+000 -6. 28819546e-142 -3. 79131159e+000
-6. 57146220e-152 -3. 79131159e+000 -2. 16811917e-138 -3. 79131159e+000
-3. 79131159e+000 -1. 34930321e-191]

*** 偏微分_バイアス1 ***

[0. 59309695 2. 4062065 -1. 65833465 0. 76744392 -1. 60595237 1. 39028135
-1. 10006858 1. 30351728 0. 65952458 -2. 68274366]

*** 偏微分_バイアス2 ***

-3. 791311586636266

順伝播開始

*** 総入力1 ***

[78. 39188847 338. 75918283 -210. 79307578 142. 64907244 -231. 22987492
247. 52813086 -189. 79165169 179. 13307279 117. 51024442 -340. 46422378]

*** 中間層出力1 ***

[1. 00000000e+000 1. 00000000e+000 2. 84269565e-092 1. 00000000e+000
3. 78565707e-101 1. 00000000e+000 3. 75433446e-083 1. 00000000e+000
1. 00000000e+000 1. 37488485e-148]

*** 総入力2 ***

-7. 402585702677559

*** 出力1 ***

-7.402585702677559

出力合計: -7.402585702677559

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.18980838 -6.64748663 4.99178712 -1.71461379 4.83411014 -3.58942949
3.31133898 -3.32825919 -1.38976357 8.07538168]
[1.14504441 6.39738933 -4.80398193 1.65010515 -4.65223721 3.45438497
-3.18675702 3.20304063 1.33747672 -7.77156292]]

*** 偏微分_重み2 ***

[-2.50607844e+000 -2.50607844e+000 -7.12401827e-092 -2.50607844e+000
-9.48715357e-101 -2.50607844e+000 -9.40865666e-083 -2.50607844e+000
-2.50607844e+000 -3.44556929e-148]

*** 偏微分_バイアス1 ***

[0.26127528 1.45975097 -1.0961686 0.37651962 -1.06154361 0.78821869
-0.72715156 0.73086715 0.30518433 -1.77330876]

*** 偏微分_バイアス2 ***

-2.5060784417650623

順伝播開始

*** 総入力1 ***

[-202.69116822 -702.7055253 430.38541436 -336.77394185 464.37410829
-526.58135609 413.71266422 -395.73707855 -287.14001625 626.11045526]

*** 中間層出力1 ***

[9.38305171e-089 6.58973516e-306 1.00000000e+000 5.50725780e-147
1.00000000e+000 2.03527350e-229 1.00000000e+000 1.36009894e-172
1.98004659e-125 1.00000000e+000]

*** 総入力2 ***

8.16728168304399

*** 出力1 ***

8.16728168304399

出力合計: 8.16728168304399

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.12192678  0.95770416 -0.47280109  0.20229438 -0.45786659  0.48939972
    -0.31363611  0.44940465  0.1525475  -0.7648662 ]
  [-0.04375445 -0.34368016  0.16966863 -0.07259503  0.16430926 -0.17562519
    0.11255095 -0.16127262 -0.05474295  0.27447865]]
```

*** 偏微分_重み2 ***

```
[-3.44861929e-089 -2.42197192e-306 -3.67537066e-001 -2.02412137e-147
 -3.67537066e-001 -7.48038449e-230 -3.67537066e-001 -4.99886774e-173
 -7.27740514e-126 -3.67537066e-001]
```

*** 偏微分_バイアス1 ***

```
[ 0.03260426  0.25609825 -0.12643104  0.05409524 -0.12243743  0.13086965
 -0.08386897  0.12017463  0.0407925  -0.20453174]
```

*** 偏微分_バイアス2 ***

-0.36753706550957155

順伝播開始

*** 総入力1 ***

```
[-265.16917758 -886.66916212  569.3333021  -437.1712003  609.1355448
 -666.90371361  559.40616303 -502.62173248 -372.91134952  777.451265  ]
```

*** 中間層出力1 ***

```
[6.89428779e-116 0.00000000e+000 1.00000000e+000 1.37708283e-190
 1.00000000e+000 2.33022156e-290 1.00000000e+000 5.17791715e-219
 1.11341909e-162 1.00000000e+000]
```

*** 総入力2 ***

8.295919655972341

*** 出力1 ***

8.295919655972341

出力合計: 8.295919655972341

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.16831714  1.3220887  -0.66228873  0.27926277 -0.64167199  0.67560512
    -0.44256511  0.62039284  0.21058834 -1.06547794]
```

```
[ 0.47348643  3.71911654 -1.86305878  0.78558329 -1.80506264  1.90051862  
-1.24496278  1.74520308  0.59239791 -2.99725475]]
```

*** 偏微分_重み2 ***

```
[-1.13495821e-115  0.00000000e+000 -1.64622982e+000 -2.26699482e-190  
-1.64622982e+000 -3.83608022e-290 -1.64622982e+000 -8.52404160e-219  
-1.83294371e-162 -1.64622982e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.14603726  1.14708587 -0.5746226  0.24229719 -0.55673487  0.58617632  
-0.38398345  0.5382724  0.18271309 -0.92444228]
```

*** 偏微分_バイアス2 ***

-1.6462298166580016

順伝播開始

*** 総入力1 ***

```
[ -446.37947151 -1541.68405764  980.91284841 -744.24501516  
1053.74276561 -1155.19197508  952.22902047 -866.02442776  
-632.44283441 1377.89598028]
```

*** 中間層出力1 ***

```
[1.37993518e-194 0.00000000e+000 1.00000000e+000 0.00000000e+000  
1.00000000e+000 0.00000000e+000 1.00000000e+000 0.00000000e+000  
2.15559365e-275 1.00000000e+000]
```

*** 総入力2 ***

8.87210009180264

*** 出力1 ***

8.87210009180264

出力合計: 8.87210009180264

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 4.07513844 32.00918522 -17.07552093  6.76125112 -16.57636763  
16.35712452 -11.75577647 15.02037597  5.09856953 -26.83716409]  
[ 1.26457311  9.93290305 -5.29877573  2.09811188 -5.1438814  
5.07584716 -3.64798376  4.66103518  1.58215826 -8.32795172]]
```

*** 偏微分_重み2 ***

```
[-1.26984383e-193  0.00000000e+000 -9.20219911e+000  0.00000000e+000  
-9.20219911e+000  0.00000000e+000 -9.20219911e+000  0.00000000e+000  
-1.98362020e-274 -9.20219911e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.81632828  6.41205285 -3.42055388  1.35440809 -3.32056391  3.27664532  
-2.35490718  3.00886898  1.02134113 -5.37599796]
```

*** 偏微分_バイアス2 ***

-9.202199108309802

順伝播開始

*** 総入力1 ***

```
[-249.75761107 -833.79615553  535.67249999 -410.9961649  572.40998883  
-626.16676903  526.54520125 -472.82750779 -350.68430856  728.3936962 ]
```

*** 中間層出力1 ***

```
[3.40132161e-109 0.00000000e+000 1.00000000e+000 3.21094967e-179  
1.00000000e+000 1.14611305e-272 1.00000000e+000 4.50424985e-206  
5.00887165e-153 1.00000000e+000]
```

*** 総入力2 ***

12.092869779711073

*** 出力1 ***

12.092869779711073

出力合計: 12.092869779711073

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.20127598 -1.58097211  1.13073517 -0.33394631  1.10608139 -0.80789803  
 0.8679866  -0.74187441 -0.25182447  1.61287445]  
[-0.87594651 -6.88033902  4.92092258 -1.45332346  4.81363013 -3.51594586  
 3.77744938 -3.22861323 -1.09593189  7.019177  ]]
```

*** 偏微分_重み2 ***

```
[9.80773599e-109 0.00000000e+000 2.88350739e+000 9.25879712e-179  
2.88350739e+000 3.30482546e-272 2.88350739e+000 1.29880377e-205  
1.44431184e-152 2.88350739e+000]
```

*** 偏微分_バイアス1 ***

[-0.25579632 -2.00921558 1.43702138 -0.42440353 1.40568955 -1.02673621
1.10310119 -0.94282854 -0.32003705 2.04975943]

*** 偏微分_バイアス2 ***

2.8835073915545237

順伝播開始

*** 総入力1 ***

[-35.28225192 -101.57290159 50.87702872 -53.42381937 54.61097532
-77.67702416 50.31480643 -61.71032776 -47.55329476 75.89355089]

*** 中間層出力1 ***

[4.75458571e-16 7.71701475e-45 1.00000000e+00 6.28535838e-24
1.00000000e+00 1.84203143e-34 1.00000000e+00 1.58323425e-27
2.22775018e-21 1.00000000e+00]

*** 総入力2 ***

11.08364219266699

*** 出力1 ***

11.08364219266699

出力合計: 11.08364219266699

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.3845009 -3.02015768 1.98805269 -0.63794328 1.94095616 -1.54334123
1.48611967 -1.4172152 -0.48106454 2.9090915]
[0.0910344 0.71505228 -0.47069119 0.1510394 -0.45954062 0.36540134
-0.35185357 0.33553975 0.1138968 -0.68875626]]

*** 偏微分_重み2 ***

[4.74848561e-15 7.70711387e-44 9.98717006e+00 6.27729430e-23
9.98717006e+00 1.83966812e-33 9.98717006e+00 1.58120297e-26
2.22489199e-20 9.98717006e+00]

*** 偏微分_バイアス1 ***

[-0.88596315 -6.95901724 4.58085122 -1.46994254 4.47233185 -3.55615148
3.42430214 -3.26553315 -1.10846412 6.70309965]

*** 偏微分_バイアス2 ***

9.987170058856798

順伝播開始

*** 総入力1 ***

[73.1063292 294.87474682 -196.61721951 130.52947375 -212.77495025
216.65988793 -184.56595073 157.60040421 107.78514957 -288.216794]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 4.07592816e-086 1.00000000e+000
3.91753802e-093 1.00000000e+000 6.98274290e-081 1.00000000e+000
1.00000000e+000 6.74585148e-126]

*** 総入力2 ***

-6.290437068408054

*** 出力1 ***

-6.290437068408054

出力合計: -6.290437068408054

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.35608954 -2.79699361 2.0847372 -0.59080467 2.0142174 -1.42930139
1.33316987 -1.312495 -0.44551794 3.46385084]
[0.20491358 1.60954455 -1.19967289 0.33998163 -1.1590919 0.82249893
-0.76717955 0.75528209 0.25637562 -1.99329101]]

*** 偏微分_重み2 ***

[-2.47103206e+000 -2.47103206e+000 -1.00717492e-085 -2.47103206e+000
-9.68036203e-093 -2.47103206e+000 -1.72545816e-080 -2.47103206e+000
-2.47103206e+000 -1.66692153e-125]

*** 偏微分_バイアス1 ***

[0.17239373 1.35410927 -1.00928438 0.28602643 -0.97514361 0.69196807
-0.64542789 0.63541856 0.21568872 -1.67695504]

*** 偏微分_バイアス2 ***

-2.4710320600856166

順伝播開始

*** 総入力1 ***

[-269.03199212 -934.53604169 581.53302689 -447.62836524 625.78956906
-698.66245112 560.70563953 -525.11167275 -380.95470746 832.69458173]

*** 中間層出力1 ***

[1.44840617e-117 0.00000000e+000 1.00000000e+000 3.95795665e-195
1.00000000e+000 3.75623508e-304 1.00000000e+000 8.84908045e-229
3.57661911e-166 1.00000000e+000]

*** 総入力2 ***

7.761104916273102

*** 出力1 ***

7.761104916273102

出力合計: 7.761104916273102

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.60854585 8.74735852 -4.299336 1.39116672 -4.1539036 4.1870028
-2.749385 3.7975302 0.90673086 -7.14347046]
[-0.07644351 -1.09881408 0.54006828 -0.17475374 0.52179955 -0.52595736
0.3453686 -0.47703311 -0.11390051 0.89733899]]

*** 偏微分_重み2 ***

[-4.80881986e-117 0.00000000e+000 -3.32007689e+000 -1.31407204e-194
-3.32007689e+000 -1.24709893e-303 -3.32007689e+000 -2.93796275e-228
-1.18746505e-165 -3.32007689e+000]

*** 偏微分_バイアス1 ***

[0.15095416 2.16984504 -1.06648114 0.34508889 -1.03040559 1.03861609
-0.68200468 0.94200461 0.22492109 -1.7719891]

*** 偏微分_バイアス2 ***

-3.32007688900561

順伝播開始

*** 総入力1 ***

[-240.1986172 -807.02941945 514.08280256 -395.88919355 550.18587569
-605.75995031 503.50073959 -457.09053431 -337.74598299 706.92260795]

*** 中間層出力1 ***

[4.82021033e-105 0.00000000e+000 1.00000000e+000 1.16817469e-172
1.00000000e+000 8.35211032e-264 1.00000000e+000 3.07682800e-199
2.08345105e-147 1.00000000e+000]

*** 総入力2 ***
8.923131827425065

*** 出力1 ***
8.923131827425065

出力合計: 8.923131827425065

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.00804286  0.1156097 -0.06490524  0.01838639 -0.06298312  0.05533763  
    -0.04442027  0.05019016  0.01198383 -0.10249481]  
 [ 0.01513265  0.21751968 -0.12211922  0.034594 -0.11850277  0.10411778  
    -0.08357675  0.0944328  0.02254758 -0.19284403]]
```

*** 偏微分_重み2 ***

```
[-6.36823090e-106  0.00000000e+000 -1.32115208e-001 -1.54333642e-173  
 -1.32115208e-001 -1.10344079e-264 -1.32115208e-001 -4.06495770e-200  
 -2.75255568e-148 -1.32115208e-001]
```

*** 偏微分_バイアス1 ***

```
[ 0.00600689  0.08634424 -0.04847512  0.01373206 -0.04703957  0.04132946  
 -0.03317572  0.03748502  0.00895024 -0.07654926]
```

*** 偏微分_バイアス2 ***

-0.1321152078137935

順伝播開始

*** 総入力1 ***

```
[ 312.27895114 1107.03903422 -736.2497896  528.84360696  
 -788.7915963  825.67654496 -716.0621296  614.16178553  
 445.5572545 -1009.97211751]
```

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-4.837977912188744

*** 出力1 ***

-4.837977912188744

出力合計: -4.837977912188744

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.59974226  8.62081399 -7.8639525  1.37104127 -7.63221689
    4.12643111 -5.39422188  3.74259285  0.89361354 -12.39586735]
  [ 0.90569306 13.01861133 -11.87564669  2.07046033 -11.52569415
    6.23147685 -8.14601478  5.65182844  1.349479 -18.71945961]]
```

*** 偏微分_重み2 ***

```
[7.91670477 7.91670477 0.          7.91670477 0.          7.91670477
 0.          7.91670477 7.91670477 0.          ]
```

*** 偏微分_バイアス1 ***

```
[-0.28308136 -4.06906749  3.71182507 -0.64713836  3.6024447 -1.9476962
 2.54609981 -1.76652262 -0.42179008  5.85091163]
```

*** 偏微分_バイアス2 ***

7.916704769022714

順伝播開始

*** 総入力1 ***

```
[ 175.40532704  634.74754238 -428.48739115  299.84559934 -458.95373115
 471.76879396 -415.20307599  349.51261697  251.50239368 -587.7379536 ]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 8.13374321e-187 1.00000000e+000
 4.77449136e-200 1.00000000e+000 4.78184208e-181 1.00000000e+000
 1.00000000e+000 5.60595940e-256]
```

*** 総入力2 ***

-8.717163249009875

*** 出力1 ***

-8.717163249009875

出力合計: -8.717163249009875

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.24928543 -1.07308504  0.80766277 -0.32850125  0.7838625 -0.611492
```

```
0.55401049 -0.57207011 -0.27946731 1.27311051]
[-0.35713094 -1.53732158 1.1570727 -0.470617 1.12297599 -0.87603481
0.79368573 -0.81955828 -0.40037007 1.82388179]]
```

*** 偏微分_重み2 ***

```
[-1.37634817e+000 -1.37634817e+000 -1.11948626e-186 -1.37634817e+000
-6.57136243e-200 -1.37634817e+000 -6.58147958e-181 -1.37634817e+000
-1.37634817e+000 -7.71575194e-256]
```

*** 偏微分_バイアス1 ***

```
[ 0.19917654 0.85738412 -0.6453144 0.26246919 -0.62629823 0.48857594
-0.44264879 0.45707825 0.22329156 -1.01720245]
```

*** 偏微分_バイアス2 ***

```
-1.3763481668908204
```

順伝播開始

*** 総入力1 ***

```
[ 96.60850369 399.1813827 -251.96517537 172.64576606 -274.54392446
292.18306549 -231.72353199 213.12906443 142.91343249 -389.80006239]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 3.74037120e-110 1.00000000e+000
5.84909356e-120 1.00000000e+000 2.31072749e-101 1.00000000e+000
1.00000000e+000 5.15209497e-170]
```

*** 総入力2 ***

```
-8.042752647233373
```

*** 出力1 ***

```
-8.042752647233373
```

出力合計: -8.042752647233373

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.36235598 -6.54252031 5.07869367 -1.8604759 4.92903431 -3.63996032
3.48369355 -3.39207009 -1.55214377 8.00549255]
[ 1.14976946 5.52160388 -4.28619758 1.57016111 -4.15989155 3.07196892
-2.94008653 2.8627603 1.30994215 -6.75628911]]
```

*** 偏微分_重み2 ***

```
[-2.62175665e+000 -2.62175665e+000 -9.80634308e-110 -2.62175665e+000  
-1.53348999e-119 -2.62175665e+000 -6.05816516e-101 -2.62175665e+000  
-2.62175665e+000 -1.35075393e-169]
```

*** 偏微分_バイアス1 ***

```
[ 0.32974181  1.583538  -1.22923645  0.45030571 -1.19301321  0.88100842  
-0.84318594  0.82100959  0.37567765 -1.93763276]
```

*** 偏微分_バイアス2 ***

-2.6217566513332944

順伝播開始

*** 総入力1 ***

```
[ 288.49938012 1018.76769773 -685.09659947  488.07029256 -732.51468579  
759.36046691 -667.77220248  565.33777162  411.09716724 -929.82955201]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 2.92635683e-298 1.00000000e+000  
0.00000000e+000 1.00000000e+000 9.77726292e-291 1.00000000e+000  
1.00000000e+000 0.00000000e+000]
```

*** 総入力2 ***

-6.758091888080058

*** 出力1 ***

-6.758091888080058

出力合計: -6.758091888080058

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.49392748  3.12759472 -2.58207816  0.74717854 -2.50598927  
1.65189305 -1.77115802  1.52586223  0.59041822 -4.07010322]  
[ 1.71686467 10.8713468 -8.9751613  2.5971514 -8.7106805  
5.74188915 -6.1564476  5.30381296  2.05226118 -14.14745435]]
```

*** 偏微分_重み2 ***

```
[4.75879337e+000 4.75879337e+000 1.39259275e-297 4.75879337e+000  
0.00000000e+000 4.75879337e+000 4.65279740e-290 4.75879337e+000  
4.75879337e+000 0.00000000e+000]
```

*** 偏微分_バイアス1 ***

[-0.42680913 -2.70259511 2.23120718 -0.64564665 2.16545778 -1.42742218
1.53048058 -1.31851731 -0.51018803 3.5170289]

*** 偏微分_バイアス2 ***

4.758793372835957

順伝播開始

*** 総入力1 ***

[-271.63280717 -936.36853248 589.02729217 -450.90563189 632.26260284
-699.88348413 570.37889207 -526.86137616 -383.82730115 831.19264878]

*** 中間層出力1 ***

[1.07490663e-118 0.00000000e+000 1.00000000e+000 1.49338647e-196
1.00000000e+000 1.10780895e-304 1.00000000e+000 1.53819575e-229
2.02265172e-167 1.00000000e+000]

*** 総入力2 ***

8.361954617505473

*** 出力1 ***

8.361954617505473

出力合計: 8.361954617505473

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.52019751 6.20499062 -2.84078672 1.97068298 -2.75707418 3.57999802
-1.9486173 3.35581316 1.69183619 -4.47790285]
[0.3750124 1.53068823 -0.7007841 0.48614114 -0.68013334 0.88313765
-0.48069784 0.82783424 0.41735337 -1.10463877]]

*** 偏微分_重み2 ***

[-2.66782445e-118 0.00000000e+000 -2.48191274e+000 -3.70645491e-196
-2.48191274e+000 -2.74948513e-304 -2.48191274e+000 -3.81766762e-229
-5.02004507e-167 -2.48191274e+000]

*** 偏微分_バイアス1 ***

[0.48973463 1.99894997 -0.91516504 0.63485941 -0.88819689 1.15330342
-0.62775091 1.08108183 0.54502836 -1.44256524]

*** 偏微分_バイアス2 ***

-2.4819127393253186

順伝播開始

*** 総入力1 ***

[27.76106229 132.43813593 -93.10355625 54.06511328 -101.38846975
95.80350235 -85.5164457 67.33459543 43.12759962 -139.60956589]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 3.67823332e-41 1.00000000e+00
9.27998043e-45 1.00000000e+00 7.25570336e-38 1.00000000e+00
1.00000000e+00 2.33526361e-61]

*** 総入力2 ***

-8.916166749016211

*** 出力1 ***

-8.916166749016211

出力合計: -8.916166749016211

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.43168491 -5.84370873 4.72630757 -1.85594113 4.59884044 -3.37155476
3.36782199 -3.16042293 -1.59333003 7.21910616]
[1.12467253 4.59057619 -3.712792 1.45795069 -3.61265909 2.64855415
-2.64562184 2.4826977 1.25165425 -5.6710316]]

*** 偏微分_重み2 ***

[-7.04496279e+00 -7.04496279e+00 -2.59130169e-40 -7.04496279e+00
-6.53771168e-44 -7.04496279e+00 -5.11161602e-37 -7.04496279e+00
-7.04496279e+00 -1.64518452e-60]

*** 偏微分_バイアス1 ***

[1.09325852 4.46235364 -3.60908745 1.41722766 -3.51175141 2.57457556
-2.57172515 2.41335176 1.21669344 -5.51263011]

*** 偏微分_バイアス2 ***

-7.0449627894349005

順伝播開始

*** 総入力1 ***

[59.3653094 215.37713458 -165.06881683 103.21008081 -174.61645147
159.49450538 -163.0902008 116.93339345 85.35978039 -205.90526702]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 2.04891394e-72 1.00000000e+00
1.46230739e-76 1.00000000e+00 1.48192335e-71 1.00000000e+00
1.00000000e+00 3.77119283e-90]

*** 総入力2 ***

-5.464134982194235

*** 出力1 ***

-5.464134982194235

出力合計: -5.464134982194235

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.19454083 1.79240815 -1.71168895 0.34819031 -1.6655252 0.89708795
-1.21969711 0.82062403 0.25308255 -2.61448584]
[-0.50065864 -4.61283437 4.40510027 -0.89608174 4.286296 -2.30869188
3.1389395 -2.1119089 -0.6513181 6.72848434]]

*** 偏微分_重み2 ***

[-3.27086919e+00 -3.27086919e+00 -6.70172949e-72 -3.27086919e+00
-4.78301620e-76 -3.27086919e+00 -4.84717742e-71 -3.27086919e+00
-3.27086919e+00 -1.23350784e-89]

*** 偏微分_バイアス1 ***

[0.19044422 1.7546639 -1.67564447 0.34085817 -1.63045283 0.87819721
-1.19401292 0.80334345 0.24775317 -2.55943041]

*** 偏微分_バイアス2 ***

-3.2708691899702584

順伝播開始

*** 総入力1 ***

[240.48745525 866.12450678 -576.96162029 409.35572352 -618.35954591
643.83912343 -558.1430764 478.23942237 344.11435205 -797.45446869]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.68381167e-251 1.00000000e+000
2.81748348e-269 1.00000000e+000 3.99523020e-243 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-3.861409079108809

*** 出力1 ***

-3.861409079108809

出力合計: -3.861409079108809

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.16922878  6.29660614 -6.5638517  0.75843185 -6.38682654
    2.86330186 -4.67719964  2.57008395  0.39372001 -10.02582704]
  [ 0.15637607  5.81838708 -6.06533568  0.70082993 -5.90175535
    2.6458378  -4.3219724  2.37488941  0.36381748 -9.26437849]]
```

*** 偏微分_重み2 ***

```
[6.18377748e+000 6.18377748e+000 1.65960942e-250 6.18377748e+000
 1.74226909e-268 6.18377748e+000 2.47056145e-242 6.18377748e+000
 6.18377748e+000 0.00000000e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.08167479 -3.03892739  3.16790796 -0.36604152  3.08247041 -1.38191372
 2.25735417 -1.24039813 -0.19002086  4.83875912]
```

*** 偏微分_バイアス2 ***

6.18377748385079

順伝播開始

*** 総入力1 ***

```
[ 179.47853149  639.52080573 -439.33063501  305.14179647 -468.78395308
 475.39717799 -428.20067072  353.23749759  256.18018339 -589.72417076]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.58902044e-191 1.00000000e+000
 2.56871531e-204 1.00000000e+000 1.08345669e-186 1.00000000e+000
 1.00000000e+000 7.69213318e-257]
```

*** 総入力2 ***

-6.8914600461956965

*** 出力1 ***

-6.8914600461956965

出力合計: -6.8914600461956965

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 0.00521155  0.03056198 -0.02715623  0.00764923 -0.02642383  0.01635758
    -0.01935069  0.01514446  0.00614033 -0.04147925]
  [ 0.06899573  0.40460999 -0.35952123  0.10126809 -0.34982505  0.21655794
    -0.25618381  0.20049754  0.08129176 -0.54914368]]
```

*** 偏微分_重み2 ***

```
[2.19738360e-001 2.19738360e-001 3.49168747e-192 2.19738360e-001
 5.64445290e-205 2.19738360e-001 2.38076998e-187 2.19738360e-001
 2.19738360e-001 1.69025673e-257]
```

*** 偏微分_バイアス1 ***

```
[-0.02160341 -0.12668834  0.1125705  -0.03170828  0.1095345  -0.06780694
 0.08021429 -0.06277823 -0.02545345  0.17194361]
```

*** 偏微分_バイアス2 ***

0.21973836037564354

順伝播開始

*** 総入力1 ***

```
[ -52.77479813 -192.66750751  91.06326362 -86.94404316 101.75236258
 -143.56168011  81.0427359  -108.98078209 -75.22660297 167.11952235]
```

*** 中間層出力1 ***

```
[1.20280822e-23 2.11623866e-84 1.00000000e+00 1.74053124e-38
 1.00000000e+00 4.48698393e-63 1.00000000e+00 4.68001997e-48
 2.13550915e-33 1.00000000e+00]
```

*** 総入力2 ***

9.504486205731846

*** 出力1 ***

9.504486205731846

出力合計: 9.504486205731846

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ -2.87046121 -16.41649054  8.97502927 -4.17303514  8.73297536
  -8.82635242  6.39533092 -8.17812428 -3.36675262 13.70873311]
 [ 3.09521449 17.70187983 -9.67776208  4.49977822 -9.41675567
  9.51744403 -6.89607679  8.8184605  3.63036486 -14.78210861]]
```

*** 偏微分_重み2 ***

```
[8.05942723e-23 1.41798761e-83 6.70050894e+00 1.16624451e-37
 6.70050894e+00 3.00650759e-62 6.70050894e+00 3.13585156e-47
 1.43089982e-32 6.70050894e+00]
```

*** 偏微分_バイアス1 ***

```
[-0.86340024 -4.9378831  2.69958097 -1.25519883  2.62677406 -2.65486075
 1.9236387 -2.45988152 -1.01267874  4.1234222 ]
```

*** 偏微分_バイアス2 ***

6.700508941623969

順伝播開始

*** 総入力1 ***

```
[ 374.19159435 1348.37894354 -883.83483029  635.68516912
 -948.75251246 1002.39322197 -851.96618166  745.68250214
 535.31136335 -1238.37848469]
```

*** 中間層出力1 ***

```
[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]
```

*** 総入力2 ***

-7.46816746869344

*** 出力1 ***

-7.46816746869344

出力合計: -7.46816746869344

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3.70876552 21.21084716 -14.45739605  5.39174986 -13.95174598
 11.40404593 -9.06841209 10.56650591  4.34999643 -24.34609254]
 [ 1.17683342  6.73044271 -4.58749597  1.71086347 -4.42704746
  3.6186333 -2.87751015  3.35287234  1.38030327 -7.72529168]]
```

*** 偏微分_重み2 ***

[8.38873049 8.38873049 0. 8.38873049 0. 8.38873049
0. 8.38873049 8.38873049 0.]

*** 偏微分_バイアス1 ***

[-0.85010091 -4.86182273 3.31383731 -1.23586445 3.19793524 -2.61396677
2.07860684 -2.42199089 -0.99708 5.58046481]

*** 偏微分_バイアス2 ***

8.388730486435591

順伝播開始

*** 総入力1 ***

[359.46843248 1288.1687389 -852.26523078 608.90544464
-912.64753859 956.40207348 -822.84251079 712.98730814
512.83955888 -1181.57724694]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-11.57864540704688

*** 出力1 ***

-11.57864540704688

出力合計: -11.57864540704688

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2.15945053 6.92306115 -3.93492653 2.61751502 -3.79730175 4.25390537
-2.4681855 4.02594879 2.33397688 -6.62637207]
[1.90649174 6.11209135 -3.47398786 2.3108984 -3.3524845 3.7556014
-2.17906139 3.55434774 2.06057401 -5.85015653]]

*** 偏微分_重み2 ***

[3.20998006 3.20998006 0. 3.20998006 0. 3.20998006
0. 3.20998006 3.20998006 0.]

*** 偏微分_バイアス1 ***

[-0.69589531 -2.23099613 1.26805262 -0.84350921 1.22370225 -1.37084538
0.79538692 -1.29738507 -0.75213742 2.13538637]

*** 偏微分_バイアス2 ***

3. 209980060243419

順伝播開始

*** 総入力1 ***

[267.78400408 980.73197558 -642.2646945 457.2221118 -690.01166268
726.85052179 -615.09940639 539.84309018 384.1749418 -909.20671888]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.16946508e-279 1.00000000e+000
2.14655712e-300 1.00000000e+000 7.34043811e-268 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-13.151535636566155

*** 出力1 ***

-13.151535636566155

出力合計: -13.151535636566155

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.48878843 -4.21699754 2.25360619 -1.75113055 2.1747859 -2.68832198
1.4135761 -2.55776698 -1.58874295 3.7950475]
[-0.0447578 -0.12677658 0.06775069 -0.05264465 0.0653811 -0.08081965
0.04249667 -0.07689475 -0.04776275 0.1140914]]

*** 偏微分_重み2 ***

[-1.49805121e+000 -1.49805121e+000 -1.75191857e-279 -1.49805121e+000
-3.21565250e-300 -1.49805121e+000 -1.09963522e-267 -1.49805121e+000
-1.49805121e+000 0.00000000e+000]

*** 偏微分_バイアス1 ***

[0.39094581 1.10735513 -0.5917818 0.45983508 -0.57108412 0.70593523
-0.37119556 0.67165237 0.41719319 -0.9965539]

*** 偏微分_バイアス2 ***

-1.4980512097020071

順伝播開始

*** 総入力1 ***

[4.70671031 58.03717932 -40.9858969 16.65630701 -46.62091692
40.40514558 -33.38405514 25.04443847 11.29194918 -75.35069347]

*** 中間層出力1 ***

[9.91046441e-01 1.00000000e+00 1.58507984e-18 9.99999942e-01
5.65969516e-21 1.00000000e+00 3.17313879e-15 1.00000000e+00
9.99987527e-01 1.88629502e-33]

*** 総入力2 ***

-12.406528644064176

*** 出力1 ***

-12.406528644064176

出力合計: -12.406528644064176

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-4.72494257 -14.06803253 7.73380776 -5.60579944 7.46331642
-8.82200377 4.85103649 -8.37397195 -5.0485551 13.02364539]
[5.45658918 16.24643538 -8.9313703 6.47384474 -8.61899399
10.188071 -5.60220846 9.67066246 5.83031237 -15.04032726]]

*** 偏微分_重み2 ***

[-1.10995859e+01 -1.11998645e+01 -1.77526794e-17 -1.11998639e+01
-6.33878191e-20 -1.11998645e+01 -3.55387246e-14 -1.11998645e+01
-1.11997248e+01 -2.11262487e-32]

*** 偏微分_バイアス1 ***

[2.70303005 8.0479951 -4.42433203 3.20694783 -4.26959021 5.04686373
-2.77516545 4.79055511 2.88816127 -7.45052544]

*** 偏微分_バイアス2 ***

-11.199864533338623

順伝播開始

*** 総入力1 ***

[41.83627256 135.22194364 -123.69412136 69.11612676 -126.58317456
98.32543397 -125.83753595 74.48354005 57.09785213 -126.39800578]

*** 中間層出力1 ***

```
[1. 00000000e+00 1. 00000000e+00 1. 90689003e-54 1. 00000000e+00
1. 06078113e-55 1. 00000000e+00 2. 23590075e-55 1. 00000000e+00
1. 00000000e+00 1. 27656686e-55]
```

*** 総入力2 ***

-6. 936586252035649

*** 出力1 ***

-6. 936586252035649

出力合計: -6. 936586252035649

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1. 69543935 10. 92551481 -7. 64646611 2. 55884984 -7. 37902956
5. 738732 -4. 79625138 5. 29576001 2. 00790715 -12. 87656304]
[-2. 71593979 -17. 50168204 12. 24894396 -4. 09904496 11. 82053491
-9. 19292724 7. 68315893 -8. 48332637 -3. 21648481 20. 62708404]]
```

*** 偏微分_重み2 ***

```
[-6. 31150570e+00 -6. 31150570e+00 -1. 20353473e-53 -6. 31150570e+00
-6. 69512615e-55 -6. 31150570e+00 -1. 41119003e-54 -6. 31150570e+00
-6. 31150570e+00 -8. 05705900e-55]
```

*** 偏微分_バイアス1 ***

```
[ 0. 55282721 3. 56245234 -2. 49326202 0. 83435708 -2. 40605972 1. 87121244
-1. 5639004 1. 72677379 0. 65471272 -4. 19862523]
```

*** 偏微分_バイアス2 ***

-6. 311505703047819

順伝播開始

*** 総入力1 ***

```
[ 509. 60850888 1821. 09807597 -1195. 76787853 861. 52085853
-1281. 21718733 1352. 82112517 -1153. 72077097 1009. 55720445
726. 47445898 -1665. 42282263]
```

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-3. 843948457542218

*** 出力1 ***

-3.843948457542218

出力合計: -3.843948457542218

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 6.07774132e-02  3.99708902e+01 -3.30627118e+01  3.79409579e+00
 -3.19063374e+01  1.75436535e+01 -2.07386098e+01  1.56282779e+01
  1.41186334e+00 -5.56772353e+01]
 [ 3.95754489e-02  2.60272006e+01 -2.15289134e+01  2.47054022e+00
 -2.07759357e+01  1.14236182e+01 -1.35040264e+01  1.01764139e+01
  9.19340306e-01 -3.62544483e+01]]
```

*** 偏微分_重み2 ***

```
[17.15101621 17.15101621  0.          17.15101621  0.          17.15101621
  0.          17.15101621 17.15101621  0.          ]
```

*** 偏微分_バイアス1 ***

```
[-0.01245456 -8.19087217  6.7752418  -0.77748965  6.53827648 -3.59506187
  4.2497753  -3.2025613  -0.28932036 11.40943108]
```

*** 偏微分_バイアス2 ***

17.151016214115657

順伝播開始

*** 総入力1 ***

```
[ 1.15856171  56.12939151 -37.4514034  12.6107669  -43.4993468
 37.88443181 -27.92625182  22.45294227  7.45594445 -77.72984679]
```

*** 中間層出力1 ***

```
[7.61071272e-01  1.00000000e+00  5.43328094e-17  9.99996664e-01
 1.28373008e-19  1.00000000e+00  7.44359838e-13  1.00000000e+00
 9.99422338e-01  1.74725568e-34]
```

*** 総入力2 ***

-11.95946514342035

*** 出力1 ***

-11.95946514342035

出力合計: -11.95946514342035

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-6.28474306 -17.16011261  9.49922002 -6.76619856  9.16698307
 -10.71656203  5.95839261 -10.16625706 -6.08337425 15.99657981]
 [ 7.5947065  20.73688895 -11.47919453  8.17651442 -11.0777076
 12.95027381 -7.20033304 12.28526575  7.35136529 -19.33083464]]
```

*** 偏微分_重み2 ***

```
[-8.09917480e+00 -1.06418086e+01 -5.78199358e-16 -1.06417731e+01
 -1.36612097e-18 -1.06418086e+01 -7.92133491e-12 -1.06418086e+01
 -1.06356612e+01 -1.85939605e-33]
```

*** 偏微分_バイアス1 ***

```
[ 2.78131363  7.59420945 -4.20388072  2.99438181 -4.05684922  4.74261554
 -2.63688721  4.49907802  2.69219785 -7.0792879 ]
```

*** 偏微分_バイアス2 ***

-10.641808580174061

順伝播開始

*** 総入力1 ***

```
[-103.37495652 -345.02880246  209.26104042 -168.13759961  224.0859144
 -257.93620853  202.40839915 -196.83317832 -144.4529346  298.02731157]
```

*** 中間層出力1 ***

```
[1.27299535e-045 1.43184165e-150 1.00000000e+000 9.52287948e-074
 1.00000000e+000 9.54394550e-113 1.00000000e+000 3.28425447e-086
 1.84029569e-063 1.00000000e+000]
```

*** 総入力2 ***

7.222413304746763

*** 出力1 ***

7.222413304746763

出力合計: 7.222413304746763

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-0.59156312 -2.67754458  1.15347121 -0.63694332  1.11312835 -1.41250438
```

```
0. 72351565 -1. 30446489 -0. 50296722 1. 94243257]
[-0. 14640481 -0. 66266033 0. 28547036 -0. 15763587 0. 27548598 -0. 34957798
0. 17906149 -0. 3228395 -0. 12447839 0. 48072888]]
```

*** 偏微分_重み2 ***

```
[4. 27336236e-045 4. 80659905e-150 3. 35693478e+000 3. 19676854e-073
3. 35693478e+000 3. 20384026e-112 3. 35693478e+000 1. 10250281e-085
6. 17775260e-063 3. 35693478e+000]
```

*** 偏微分_バイアス1 ***

```
[-0. 53486237 -2. 42090452 1. 04291211 -0. 57589292 1. 00643607 -1. 2771172
0. 65416737 -1. 17943319 -0. 4547583 1. 75625228]
```

*** 偏微分_バイアス2 ***

```
3. 356934782963137
```

順伝播開始

*** 総入力1 ***

```
[-247. 85867304 -887. 72827425 550. 24838869 -417. 24897747 592. 64090713
-659. 72766325 525. 40082727 -494. 89603367 -354. 07667746 801. 74196334]
```

*** 中間層出力1 ***

```
[2. 27167399e-108 0. 00000000e+000 1. 00000000e+000 6. 18118161e-182
1. 00000000e+000 3. 04730759e-287 1. 00000000e+000 1. 17323081e-215
1. 68442938e-154 1. 00000000e+000]
```

*** 総入力2 ***

```
6. 047486130709666
```

*** 出力1 ***

```
6. 047486130709666
```

出力合計: 6. 047486130709666

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 3. 44223736 15. 58032213 -5. 71377316 3. 7062995 -5. 47902269
8. 21919959 -3. 21191148 7. 5905303 2. 92670809 -10. 304648 ]
[ -1. 21652132 -5. 50624263 2. 01930493 -1. 30984354 1. 93634176
-2. 90474785 1. 13512184 -2. 68256979 -1. 03432809 3. 6417663 ]]
```

*** 偏微分_重み2 ***

```
[-1.05335673e-107  0.00000000e+000 -4.63691856e+000 -2.86616357e-181  
-4.63691856e+000 -1.41301171e-286 -4.63691856e+000 -5.44017574e-215  
-7.81056185e-154 -4.63691856e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.73880292  3.34398426 -1.2263397   0.79547824 -1.17595551  1.76407611  
-0.68936838  1.62914564  0.62815555 -2.21167319]
```

*** 偏微分_バイアス2 ***

-4.636918559822979

順伝播開始

*** 総入力1 ***

```
[-85.36151234 -235.63085757 158.8775752  -129.11341734 164.56754793  
-178.59164398 162.62442139 -141.84487142 -112.93612831 184.61747857]
```

*** 中間層出力1 ***

```
[8.47161526e-038 4.64321496e-103 1.00000000e+000 8.44802731e-057  
1.00000000e+000 2.74558255e-078 1.00000000e+000 2.49778502e-062  
8.96319132e-050 1.00000000e+000]
```

*** 総入力2 ***

7.670407626647709

*** 出力1 ***

7.670407626647709

出力合計: 7.670407626647709

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 2.39845099 10.85591585 -4.9418498   2.58244183 -4.77828249  
  5.7268995  -3.19862526  5.28886101  2.03924518 -8.14063802]  
[-4.38982626 -19.86931759  9.04494696 -4.72658019  8.74557371  
-10.48180426  5.85436567 -9.6800731  -3.73238063 14.89961089]]
```

*** 偏微分_重み2 ***

```
[5.09835675e-037 2.79436278e-102 6.01816371e+000 5.08416113e-056  
6.01816371e+000 1.65233653e-077 6.01816371e+000 1.50320792e-061  
5.39419527e-049 6.01816371e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.95887751 -4.34009018 1.97570376 -1.03243527 1.91031113 -2.28955904  
1.27877945 -2.11443549 -0.8152705 3.25454836]
```

*** 偏微分_バイアス2 ***

6.018163707507526

順伝播開始

*** 総入力1 ***

```
[ 146.07662963 523.65810389 -365.76868473 248.40176459 -388.97945104  
387.29128219 -354.93159139 288.48414269 208.2006865 -487.64861163]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.40824614e-159 1.00000000e+000  
1.17049844e-169 1.00000000e+000 7.16421160e-155 1.00000000e+000  
1.00000000e+000 1.64777861e-212]
```

*** 総入力2 ***

-7.543549958901438

*** 出力1 ***

-7.543549958901438

出力合計: -7.543549958901438

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.04859525 0.21995278 -0.12104344 0.05232311 -0.11568523 0.11603328  
-0.06393812 0.10715813 0.04131735 -0.22583076]  
[-0.74785229 -3.38494369 1.86278719 -0.80522181 1.78032748 -1.78568373  
0.98396992 -1.64910054 -0.63584963 3.47540235]]
```

*** 偏微分_重み2 ***

```
[-1.91348624e+000 -1.91348624e+000 -2.69465960e-159 -1.91348624e+000  
-2.23973265e-169 -1.91348624e+000 -1.37086203e-154 -1.91348624e+000  
-1.91348624e+000 -3.15300168e-212]
```

*** 偏微分_バイアス1 ***

```
[ 0.23976972 1.08525042 -0.5972302 0.25816303 -0.5707927 0.57250998  
-0.31547165 0.52871989 0.20386043 -1.11425247]
```

*** 偏微分_バイアス2 ***

-1.9134862363429725

順伝播開始

*** 総入力1 ***

[-43.83118139 -176.59147958 78.40597411 -74.50574106 88.70608343
-129.27925477 66.95323047 -97.22767369 -63.85506474 155.75037504]

*** 中間層出力1 ***

[9.21212425e-20 2.02905989e-77 1.00000000e+00 4.39104400e-33
1.00000000e+00 7.15703313e-57 1.00000000e+00 5.95055988e-43
1.85394883e-28 1.00000000e+00]

*** 総入力2 ***

5.697994365564083

*** 出力1 ***

5.697994365564083

出力合計: 5.697994365564083

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.37496743 -7.51352619 2.68191004 -1.50851082 2.56319036 -3.79080682
1.41665072 -3.47287171 -1.1142503 5.00363999]
[1.55275172 8.48503058 -3.02868296 1.70356237 -2.89461273 4.2809609
-1.59982469 3.92191654 1.25832367 -5.65061427]]

*** 偏微分_重み2 ***

[2.74223574e-19 6.04004072e-77 2.97676808e+00 1.30711196e-32
2.97676808e+00 2.13048278e-56 2.97676808e+00 1.77134367e-42
5.51877570e-28 2.97676808e+00]

*** 偏微分_バイアス1 ***

[-0.3746101 -2.04706144 0.73068683 -0.41099402 0.69834163 -1.03280594
0.38596672 -0.94618447 -0.30357768 1.36324253]

*** 偏微分_バイアス2 ***

2.9767680811765205

順伝播開始

*** 総入力1 ***

[427.71837756 1554.5007004 -1023.31153863 726.58905997
-1095.55650636 1148.93269111 -981.58521809 857.42673105

611.35933876 -1433.0442646]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-6.814315468775738

*** 出力1 ***

-6.814315468775738

出力合計: -6.814315468775738

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 4.85224957 26.51517657 -12.74824106 5.32352318 -12.07085896
    13.37772834 -5.52901676 12.25573775 3.93218079 -25.99539833]
  [ 2.4513968 13.39568749 -6.4405173 2.68948814 -6.09829823
    6.7585395 -2.7933052 6.19170053 1.9865704 -13.13309121]]
```

*** 偏微分_重み2 ***

```
[11.02298386 11.02298386 0. 11.02298386 0. 11.02298386
 0. 11.02298386 11.02298386 0.]
```

*** 偏微分_バイアス1 ***

```
[-1.09094667 -5.96149129 2.86622749 -1.19690461 2.71392953 -3.00775712
 1.24310638 -2.75549641 -0.88408469 5.8446279 ]
```

*** 偏微分_バイアス2 ***

11.022983864347545

順伝播開始

*** 総入力1 ***

```
[ 362.28724741 1292.05118893 -866.28703862 610.29345521
 -923.41858431 954.7319094 -835.3164266 715.16479591
 513.97273854 -1185.39515251]
```

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-12.215577562306034

*** 出力1 ***

-12.215577562306034

出力合計: -12.215577562306034

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.69369373  1.91642339 -0.7195543  0.72029403 -0.68132054  1.1749009
 -0.31207661  1.11157192  0.64176191 -1.46726914]
 [ 2.38030223  6.57590899 -2.46903876  2.47157701 -2.33784555  4.03148983
 -1.07084237  3.81418626  2.20210624 -5.03470602]]
```

*** 偏微分_重み2 ***

```
[1.92948952 1.92948952 0.          1.92948952 0.          1.92948952
 0.          1.92948952 1.92948952 0.          ]
```

*** 偏微分_バイアス1 ***

```
[-0.48367997 -1.33623178  0.50171133 -0.50222711  0.47505273 -0.81920307
 0.21759632 -0.77504675 -0.44747036  1.02305768]
```

*** 偏微分_バイアス2 ***

1.9294895170909214

順伝播開始

*** 総入力1 ***

```
[ 192.35980208  752.23884111 -484.41409651  335.72879486 -522.45859668
 550.84655636 -454.53486016  406.62119659  279.81898384 -713.28681544]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 4.18437818e-211 1.00000000e+000
 1.25636098e-227 1.00000000e+000 3.96294822e-198 1.00000000e+000
 1.00000000e+000 0.00000000e+000]
```

*** 総入力2 ***

-13.161027425680587

*** 出力1 ***

-13.161027425680587

出力合計: -13.161027425680587

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-5.03833225 -13.06842081  4.725562    -5.21302558  4.47446767
  -8.19858615  2.04951502 -7.78268281 -4.69727798  9.63606399]
 [ 2.59719058  6.73659014 -2.43596184  2.68724257 -2.30652618
  4.22625774 -1.05649664  4.01186532  2.42138182 -4.96725768]]
```

*** 偏微分_重み2 ***

```
[-3.83847872e+000 -3.83847872e+000 -1.60616466e-210 -3.83847872e+000
 -4.82251488e-227 -3.83847872e+000 -1.52116924e-197 -3.83847872e+000
 -3.83847872e+000  0.00000000e+000]
```

*** 偏微分_バイアス1 ***

```
[ 1.06415273  2.7601982 -0.99809211  1.10104993 -0.94505815  1.73163407
 -0.43288074  1.64379058  0.99211821 -2.03524564]
```

*** 偏微分_バイアス2 ***

-3.8384787231094055

順伝播開始

*** 総入力1 ***

```
[ 356.81093992 1280.85919939 -854.24964477  602.05872085
 -911.43898548  945.54389187 -821.40997049  707.80012633
 506.75487225 -1177.50236111]
```

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-11.280172851356978

*** 出力1 ***

-11.280172851356978

出力合計: -11.280172851356978

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.31461198  3.90308842 -1.52327161  1.37092389 -1.44233205  2.33331093
   -0.6606554  2.19924566  1.2046741  -3.10615809]
 [ 2.61128392  7.75291276 -3.02575565  2.72313925 -2.8649811  4.63477998
  -1.31229506  4.36847898  2.39290843 -6.16992753]]
```


*** 偏微分_重み2 ***

[2. 88389398 2. 88389398 0. 2. 88389398 0. 2. 88389398
0. 2. 88389398 2. 88389398 0.]

*** 偏微分_バイアス1 ***

[-0. 64715903 -1. 92141785 0. 74987828 -0. 67488033 0. 71003325 -1. 14864558
0. 32522837 -1. 08264774 -0. 59303866 1. 52910387]

*** 偏微分_バイアス2 ***

2. 883893981588999

順伝播開始

*** 総入力1 ***

[-169. 64230921 -597. 12243549 366. 72317035 -281. 97785018 393. 96217312
-443. 01215951 350. 33003067 -334. 56006637 -240. 05774299 531. 99107797]

*** 中間層出力1 ***

[2. 11485801e-074 4. 71000368e-260 1. 00000000e+000 3. 45601524e-123
1. 00000000e+000 4. 00187674e-193 1. 00000000e+000 5. 03975367e-146
5. 54941087e-105 1. 00000000e+000]

*** 総入力2 ***

3. 8162733323580356

*** 出力1 ***

3. 8162733323580356

出力合計: 3. 8162733323580356

誤差逆伝播開始

*** 偏微分_重み1 ***

[[2. 90213883 7. 75766304 -1. 76729474 3. 00777 -1. 67338894 4. 81303797
-0. 76649023 4. 56155522 2. 69591479 -3. 60375447]
[-0. 6687898 -1. 78773181 0. 40726814 -0. 69313221 0. 38562781 -1. 10915117
0. 17663554 -1. 05119767 -0. 62126604 0. 83047516]]

*** 偏微分_重み2 ***

[-6. 66177453e-074 -1. 48364488e-259 -3. 14998666e+000 -1. 08864019e-122
-3. 14998666e+000 -1. 26058583e-192 -3. 14998666e+000 -1. 58751568e-145
-1. 74805702e-104 -3. 14998666e+000]

*** 偏微分_バイアス1 ***

[1.05778953 2.82756106 -0.64415453 1.09629064 -0.60992716 1.75428588
-0.27937511 1.66262389 0.98262372 -1.31351875]

*** 偏微分_バイアス2 ***

-3.14998666215777

順伝播開始

*** 総入力1 ***

[159.63385715 611.17918509 -404.1583155 276.88883246 -433.96009039
448.30829783 -382.96852812 331.58778243 230.91155188 -577.48575407]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.99415144e-176 1.00000000e+000
3.41607484e-189 1.00000000e+000 4.77398990e-167 1.00000000e+000
1.00000000e+000 1.58899902e-251]

*** 総入力2 ***

-12.472781835984543

*** 出力1 ***

-12.472781835984543

出力合計: -12.472781835984543

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3.6223236 -9.68277799 4.32255806 -3.75416785 4.13305258 -6.0074249
2.30289656 -5.69353505 -3.36492372 8.02860352]
[0.4397765 1.17555986 -0.52479007 0.45578335 -0.50178272 0.72934519
-0.27958844 0.69123667 0.40852628 -0.97473101]]

*** 偏微分_重み2 ***

[-5.19953380e+000 -5.19953380e+000 -1.55681916e-175 -5.19953380e+000
-1.77619966e-188 -5.19953380e+000 -2.48225219e-166 -5.19953380e+000
-5.19953380e+000 -8.26205409e-251]

*** 偏微分_バイアス1 ***

[1.37317162 3.67060413 -1.6386206 1.42315191 -1.56678175 2.27732978
-0.8729955 2.15833858 1.27559497 -3.04352999]

*** 偏微分_バイアス2 ***

-5.1995338026210955

順伝播開始

*** 総入力1 ***

[86.2866103 375.59757228 -241.28165296 159.17128273 -262.79449063
273.19922385 -222.82585134 197.408009 130.54408593 -370.5042023]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.63196010e-105 1.00000000e+000
7.40973790e-115 1.00000000e+000 1.69029434e-097 1.00000000e+000
1.00000000e+000 1.23614500e-161]

*** 総入力2 ***

-9.925010272700208

*** 出力1 ***

-9.925010272700208

出力合計: -9.925010272700208

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-3.44332587 -11.34551113 5.63615406 -3.61523668 5.38905916
-6.55324323 3.00273117 -6.1439644 -3.10770391 10.46844154]
[2.79758583 9.21784413 -4.57918458 2.93725755 -4.37842833
5.32428852 -2.43961754 4.99176331 2.52490434 -8.50525475]]

*** 偏微分_重み2 ***

[-4.77673544e+000 -4.77673544e+000 -7.79544165e-105 -4.77673544e+000
-3.53943576e-114 -4.77673544e+000 -8.07408888e-097 -4.77673544e+000
-4.77673544e+000 -5.90473764e-161]

*** 偏微分_バイアス1 ***

[0.91968788 3.03030542 -1.50537671 0.96560403 -1.43937941 1.75032471
-0.80200816 1.64100924 0.83004564 -2.79604636]

*** 偏微分_バイアス2 ***

-4.776735435328016

順伝播開始

*** 総入力1 ***

[-195.97802248 -633.91004406 412.62227998 -314.43286068 436.42851992

-472.26371946 403.19841262 -362.44735051 -269.46626916 548.79359576]

*** 中間層出力1 ***

[7.72371541e-086 4.97010819e-276 1.00000000e+000 2.77679409e-137
1.00000000e+000 7.91539577e-206 1.00000000e+000 3.90045877e-158
9.38180157e-118 1.00000000e+000]

*** 総入力2 ***

5.617107510769693

*** 出力1 ***

5.617107510769693

出力合計: 5.617107510769693

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.09459249 -0.42423134 0.14541653 -0.10176373 0.13904131 -0.22432237
0.07747246 -0.20724935 -0.08059205 0.27009276]
[0.44111595 1.97833055 -0.67812519 0.47455782 -0.64839547 1.04608916
-0.36127963 0.96647202 0.37582731 -1.25953156]]

*** 偏微分_重み2 ***

[-4.61349242e-086 -2.96872105e-276 -5.97315176e-001 -1.65862125e-137
-5.97315176e-001 -4.72798602e-206 -5.97315176e-001 -2.32980322e-158
-5.60389245e-118 -5.97315176e-001]

*** 偏微分_バイアス1 ***

[0.09630089 0.43189323 -0.14804284 0.10360165 -0.14155249 0.22837378
-0.07887167 0.21099241 0.0820476 -0.27497081]

*** 偏微分_バイアス2 ***

-0.5973151756620885

順伝播開始

*** 総入力1 ***

[124.9187281 472.2624966 -320.84632709 216.16900292 -343.23584957
346.71028223 -306.22528481 256.51923063 180.12068483 -446.76909191]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 4.55208753e-140 1.00000000e+000
8.60130878e-150 1.00000000e+000 1.01870535e-133 1.00000000e+000]

1.00000000e+000 9.34649328e-195]

*** 総入力2 ***

-7.542597847093131

*** 出力1 ***

-7.542597847093131

出力合計: -7.542597847093131

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-0.32914116 -1.47614251 0.84522199 -0.354094 0.8093562 -0.78054533
0.46298094 -0.72113855 -0.28042567 1.54662801]
[-0.23375282 -1.04834191 0.60026836 -0.25147408 0.57479682 -0.55433563
0.32880452 -0.51214552 -0.19915555 1.09840002]]

*** 偏微分_重み2 ***

[-2.11362186e+000 -2.11362186e+000 -9.62139170e-140 -2.11362186e+000
-1.81799143e-149 -2.11362186e+000 -2.15315789e-133 -2.11362186e+000
-2.11362186e+000 -1.97549525e-194]

*** 偏微分_バイアス1 ***

[0.26799329 1.20190462 -0.68819658 0.28831038 -0.65899393 0.63553555
-0.3769683 0.58716537 0.22832816 -1.25929532]

*** 偏微分_バイアス2 ***

-2.113621859363345

順伝播開始

*** 総入力1 ***

[41.82071897 156.1012854 -122.97924995 72.4293835 -129.34179772
113.51627385 -119.16242122 83.59224844 59.38026963 -153.55686169]

*** 中間層出力1 ***

[1.00000000e+00 1.00000000e+00 3.89753800e-54 1.00000000e+00
6.72312164e-57 1.00000000e+00 1.77181354e-52 1.00000000e+00
1.00000000e+00 2.04692679e-67]

*** 総入力2 ***

-6.506923136005094

*** 出力1 ***

-6.506923136005094

出力合計: -6.506923136005094

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.44168694 2.43915911 -1.4719315 0.48514164 -1.40947217 1.22779524
-0.80626893 1.12433992 0.35685022 -2.69341131]
[-1.02259318 -5.64713878 3.40781436 -1.12319945 3.26320858 -2.84259033
1.86667303 -2.60307068 -0.82617927 6.23578322]]

*** 偏微分_重み2 ***

[-5.04637201e+00 -5.04637201e+00 -1.96684267e-53 -5.04637201e+00
-3.39273729e-56 -5.04637201e+00 -8.94123025e-52 -5.04637201e+00
-5.04637201e+00 -1.03295541e-66]

*** 偏微分_バイアス1 ***

[0.49305054 2.72280797 -1.64310183 0.54155857 -1.57337913 1.37057506
-0.90002963 1.25508897 0.39834819 -3.00662705]

*** 偏微分_バイアス2 ***

-5.046372014547008

順伝播開始

*** 総入力1 ***

[71.27924089 309.49809595 -204.3028359 132.11099806 -221.93898519
225.42888327 -190.17315042 162.44782397 108.10656256 -306.89148767]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.87243061e-089 1.00000000e+000
4.10320688e-097 1.00000000e+000 2.56359942e-083 1.00000000e+000
1.00000000e+000 5.23263403e-134]

*** 総入力2 ***

-4.0342008488770595

*** 出力1 ***

-4.0342008488770595

出力合計: -4.0342008488770595

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.01132141  0.18838784 -0.13047974  0.01517346 -0.12494302  0.08100618
 -0.07147192  0.07183536  0.00380104 -0.23875813]
 [-0.00822656 -0.13688962  0.09481144 -0.0110256  0.09078825 -0.05886211
  0.05193416 -0.05219825 -0.00276198  0.17349056]]
```

*** 偏微分_重み2 ***

```
[1.48199098e-001 1.48199098e-001 2.77492528e-090 1.48199098e-001
 6.08091560e-098 1.48199098e-001 3.79923122e-084 1.48199098e-001
 1.48199098e-001 7.75471644e-135]
```

*** 偏微分_バイアス1 ***

```
[-0.00418686 -0.06966916  0.04825372 -0.00561142  0.04620614 -0.02995752
 0.02643158 -0.02656599 -0.00140569  0.08829698]
```

*** 偏微分_バイアス2 ***

0.1481990981439818

順伝播開始

*** 総入力1 ***

```
[-502.56900644 -1768.52699253 1133.93925975 -838.01096041
 1212.55019716 -1310.04378074 1089.70195602 -986.91643277
 -710.3493928 1592.24798056]
```

*** 中間層出力1 ***

```
[5.45825381e-219 0.00000000e+000 1.00000000e+000 0.00000000e+000
 1.00000000e+000 0.00000000e+000 1.00000000e+000 0.00000000e+000
 0.00000000e+000 1.00000000e+000]
```

*** 総入力2 ***

6.316993456555069

*** 出力1 ***

6.316993456555069

出力合計: 6.316993456555069

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 2.42136337 37.74143864 -16.09786244  3.18974611 -15.41477244
 16.32163418 -8.81780595 14.49229727  0.92124759 -29.45664578]
```

```
[ 1.53345855 23.90179541 -10.19483699 2.02007824 -9.76223351
10.33655247 -5.58434976 9.17802651 0.58342957 -18.65500485]]
```

*** 偏微分_重み2 ***

```
[-7.37999656e-218 0.00000000e+000 -1.35208014e+001 0.00000000e+000
-1.35208014e+001 0.00000000e+000 -1.35208014e+001 0.00000000e+000
0.00000000e+000 -1.35208014e+001]
```

*** 偏微分_バイアス1 ***

```
[ 0.52077397 8.11722816 -3.46224275 0.68603365 -3.31532738 3.51037039
-1.89648687 3.11692632 0.19813704 -6.33537891]
```

*** 偏微分_バイアス2 ***

-13.520801368862683

順伝播開始

*** 総入力1 ***

```
[ 199.53982188 740.82146996 -494.83837693 340.8689437 -528.71017362
543.4896306 -472.60180311 404.83793144 285.25524897 -689.35919252]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.24286360e-215 1.00000000e+000
2.42152564e-230 1.00000000e+000 5.64475076e-206 1.00000000e+000
1.00000000e+000 4.12198722e-300]
```

*** 総入力2 ***

-3.160362311147222

*** 出力1 ***

-3.160362311147222

出力合計: -3.160362311147222

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.27105745 4.22493309 -5.03091291 0.3570734 -4.90727844 1.82711139
-3.71327403 1.62232783 0.10312827 -7.4487585 ]
[ 0.24617002 3.83701624 -4.56899415 0.32428832 -4.45671131 1.65935316
-3.37233571 1.47337203 0.09365944 -6.76484259]]
```

*** 偏微分_重み2 ***

[5.17227654e+000 5.17227654e+000 6.42843421e-215 5.17227654e+000

1. 25248002e-229 5. 17227654e+000 2. 91962119e-205 5. 17227654e+000
5. 17227654e+000 2. 13200578e-299]

*** 偏微分_バイアス1 ***

[-0.15667454 -2.44206333 2.90792959 -0.20639282 2.83646734 -1.05609287
2.14631809 -0.93772545 -0.05960941 4.30547409]

*** 偏微分_バイアス2 ***

5. 172276535257949

順伝播開始

*** 総入力1 ***

[-163.52352141 -517.85995255 337.82576532 -259.19064678 355.87180762
-385.3704132 331.40139158 -297.78724778 -222.72369499 441.59942445]

*** 中間層出力1 ***

[9.60808837e-072 1.24818859e-225 1.00000000e+000 2.72227718e-113
1.00000000e+000 4.32270959e-168 1.00000000e+000 4.70588715e-130
1.87209670e-097 1.00000000e+000]

*** 総入力2 ***

10.687214578188954

*** 出力1 ***

10.687214578188954

出力合計: 10.687214578188954

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.15827384 6.20168676 -3.96906354 1.2679925 -3.87152397
3.14311688 -2.92953203 2.88190278 0.94406979 -5.87658666]
[-3.56013186 -19.06183307 12.19952402 -3.89736896 11.89972123
-9.66085059 9.0043649 -8.85796911 -2.90174293 18.06258819]]

*** 偏微分_重み2 ***

[5.66198419e-071 7.35549442e-225 5.89293517e+000 1.60422029e-112
5.89293517e+000 2.54734474e-167 5.89293517e+000 2.77314879e-129
1.10321445e-096 5.89293517e+000]

*** 偏微分_バイアス1 ***

[-0.76037333 -4.07122827 2.6055756 -0.83240046 2.54154369 -2.06336547

1. 92315318 -1. 89188596 -0. 61975455 3. 85780945]

*** 偏微分_バイアス2 ***

5. 892935171990726

順伝播開始

*** 総入力1 ***

[-248. 73674926 -849. 81669948 543. 00139504 -407. 99168001 578. 23294987
-629. 46551273 524. 19367031 -478. 24997821 -347. 39201388 750. 65756326]

*** 中間層出力1 ***

[9. 44065988e-109 0. 00000000e+000 1. 00000000e+000 6. 47835450e-178
1. 00000000e+000 4. 23254195e-274 1. 00000000e+000 1. 98917730e-208
1. 34761338e-151 1. 00000000e+000]

*** 総入力2 ***

8. 624687267992199

*** 出力1 ***

8. 624687267992199

出力合計: 8. 624687267992199

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 05674722 0. 30383875 -0. 15878718 0. 06212266 -0. 15400843 0. 15399047
-0. 10785749 0. 14119283 0. 04625274 -0. 25224231]
[0. 16335046 0. 87461904 -0. 45707893 0. 17882399 -0. 443323 0. 44327132
-0. 31047462 0. 4064325 0. 13314143 -0. 72609543]]

*** 偏微分_重み2 ***

[-4. 01747658e-109 0. 00000000e+000 -4. 25550399e-001 -2. 75686634e-178
-4. 25550399e-001 -1. 80115991e-274 -4. 25550399e-001 -8. 46495191e-209
-5. 73477412e-152 -4. 25550399e-001]

*** 偏微分_バイアス1 ***

[0. 05490934 0. 29399828 -0. 15364452 0. 06011068 -0. 14902054 0. 14900317
-0. 1043643 0. 13662 0. 04475474 -0. 2440729]

*** 偏微分_バイアス2 ***

-0. 4255503989162772

順伝播開始

*** 総入力1 ***

[6.02767911 11.88902366 -35.07660002 10.08518956 -34.13797814
9.00225013 -37.95253366 6.04672106 7.36339484 -18.38960652]

*** 中間層出力1 ***

[9.97594716e-01 9.99993135e-01 5.84017915e-16 9.99958309e-01
1.49301603e-15 9.99876883e-01 3.29172888e-17 9.97639977e-01
9.99366359e-01 1.03156205e-08]

*** 総入力2 ***

-6.072741093128631

*** 出力1 ***

-6.072741093128631

出力合計: -6.072741093128631

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.41529393 7.56945072 -6.49955976 1.54766947 -6.30707592
3.83652824 -4.44815628 3.52132133 1.15261534 -10.26385124]
[-2.00231858 -10.70904886 9.19539681 -2.18959982 8.92307602
-5.42781371 6.29312809 -4.98186771 -1.6306882 14.52101194]]

*** 偏微分_重み2 ***

[-6.42591088e+00 -6.44136006e+00 -3.76189550e-15 -6.44113574e+00
-9.61711986e-15 -6.44061124e+00 -2.12033565e-16 -6.42620242e+00
-6.43732275e+00 -6.64470823e-08]

*** 偏微分_バイアス1 ***

[0.65437676 3.49981905 -3.00514316 0.71558205 -2.91614614 1.77386116
-2.05665413 1.62812176 0.53292442 -4.74560485]

*** 偏微分_バイアス2 ***

-6.441404283196099

順伝播開始

*** 総入力1 ***

[246.66733186 950.5022407 -618.09386765 426.59782262 -663.83596125
694.29622406 -583.34293726 515.14799123 356.06934992 -892.68675044]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.67488692e-269 1.00000000e+000
5.00847075e-289 1.00000000e+000 4.54340331e-254 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-2.9237184323141956

*** 出力1 ***

-2.9237184323141956

出力合計: -2.9237184323141956

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.50265191 17.52961711 -17.9867434 0.86517075 -17.45406772
7.19906664 -12.30973306 6.32440788 -0.22692152 -28.40396358]
[-0.13789293 -4.8089148 4.93431864 -0.23734303 4.78818927
-1.97492609 3.37693956 -1.7349802 0.06225158 7.79208353]]

*** 偏微分_重み2 ***

[8.36899018e+000 8.36899018e+000 3.07550926e-268 8.36899018e+000
4.19158425e-288 8.36899018e+000 3.80236977e-253 8.36899018e+000
8.36899018e+000 0.00000000e+000]

*** 偏微分_バイアス1 ***

[-0.10911199 -3.80520061 3.90443023 -0.18780492 3.78880091 -1.56272054
2.6721065 -1.37285604 0.04925846 6.16572392]

*** 偏微分_バイアス2 ***

8.368990183466963

順伝播開始

*** 総入力1 ***

[260.94482748 988.73981482 -650.36791507 447.7579371 -696.34287298
722.48349143 -616.03360876 537.85525277 374.31703096 -925.59269449]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.53837027e-283 1.00000000e+000
3.82061040e-303 1.00000000e+000 2.88405174e-268 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***
-7.0245236222130085

*** 出力1 ***
-7.0245236222130085

出力合計: -7.0245236222130085

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.05869557  9.14973867 -7.49075194  2.20967003 -7.26891405
    4.84748177 -5.1265065  4.48322173  1.75485771 -11.82910328]
  [ 0.10716551  0.47629013 -0.38993148  0.11502449 -0.3783837
    0.25233592 -0.26686056  0.23337434  0.09134921 -0.61576459]]
```

*** 偏微分_重み2 ***

```
[4.37291229e+000 4.37291229e+000 1.54729828e-282 4.37291229e+000
 1.67071942e-302 4.37291229e+000 1.26117053e-267 4.37291229e+000
 4.37291229e+000 0.00000000e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.56068907 -2.49194613  2.04011841 -0.60180721  1.9797005  -1.3202195
 1.39621234 -1.22101269 -0.47793834  3.22167541]
```

*** 偏微分_バイアス2 ***

4.372912286649095

順伝播開始

*** 総入力1 ***

```
[ 121.39975953  515.34978333 -335.77654425  217.4419788  -362.16476711
 370.47053931 -309.17865791  271.70786824  178.87906207 -505.16576523]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.49313708e-146 1.00000000e+000
 5.17416297e-158 1.00000000e+000 5.31391920e-135 1.00000000e+000
 1.00000000e+000 4.06720173e-220]
```

*** 総入力2 ***

-9.167250642671064

*** 出力1 ***

-9.167250642671064

出力合計: -9.167250642671064

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.03428073 -6.80291338 5.03743156 -2.13580905 4.88824851 -3.90970254
 3.44750778 -3.66474249 -1.82995379 7.95491544]
 [ 1.4137484 4.72776827 -3.50082498 1.48430675 -3.39714839 2.71709584
 -2.39588791 2.54685784 1.27174888 -5.52836626]]
```

*** 偏微分_重み2 ***

```
[-2.67974029e+000 -2.67974029e+000 -4.00121960e-146 -2.67974029e+000
 -1.38654130e-157 -2.67974029e+000 -1.42399234e-134 -2.67974029e+000
 -2.67974029e+000 -1.08990444e-219]
```

*** 偏微分_バイアス1 ***

```
[ 0.50486939 1.68835239 -1.25019373 0.53006677 -1.21316936 0.97031305
 -0.85560519 0.90951867 0.45415937 -1.97425717]
```

*** 偏微分_バイアス2 ***

-2.6797402945537776

順伝播開始

*** 総入力1 ***

```
[-112.18936334 -443.88061299 256.34398236 -191.95109168 278.23656183
 -321.5274087 234.20584962 -241.17845125 -161.76335582 409.45979084]
```

*** 中間層出力1 ***

```
[1.89137905e-049 1.67918736e-193 1.00000000e+000 4.33211610e-084
 1.00000000e+000 2.30367188e-140 1.00000000e+000 1.80937868e-105
 5.58556608e-071 1.00000000e+000]
```

*** 総入力2 ***

8.52017685979856

*** 出力1 ***

8.52017685979856

出力合計: 8.52017685979856

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.51825784 -9.85824255  4.79567977 -2.67453248  4.65365617 -5.40494852
  3.28205815 -5.02790059 -2.2037533  7.57315043]
 [ 2.22682193  8.71735626 -4.2406797  2.36501104 -4.11509238  4.77943828
 -2.90222827  4.4460258  1.94871475 -6.69671597]]
```

*** 偏微分_重み2 ***

```
[5.34778340e-049 4.74782158e-193 2.82745195e+000 1.22488501e-083
 2.82745195e+000 6.51352156e-140 2.82745195e+000 5.11593127e-105
 1.57929197e-070 2.82745195e+000]
```

*** 偏微分_バイアス1 ***

```
[-0.54475312 -2.13254906  1.03740827 -0.57855867  1.00668553 -1.16920616
 0.70997949 -1.08764261 -0.47671905  1.63823468]
```

*** 偏微分_バイアス2 ***

2.8274519534397236

順伝播開始

*** 総入力1 ***

```
[-61.81186087 -254.12086569  136.00091936 -107.01593621  149.41481281
 -183.79286179  121.32142811 -137.64805449 -90.46225903  234.60394555]
```

*** 中間層出力1 ***

```
[1.43037500e-027 4.33221793e-111 1.00000000e+000 3.33863875e-047
 1.00000000e+000 1.51277490e-080 1.00000000e+000 1.66038763e-060
 5.16107395e-040 1.00000000e+000]
```

*** 総入力2 ***

7.530568676094657

*** 出力1 ***

7.530568676094657

出力合計: 7.530568676094657

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-2.88091997 -11.27795868  4.9044453  -3.05970021  4.74196845
 -6.18333194  3.17284234 -5.75198417 -2.52112266  8.08190814]
 [ 2.96058181 11.58981144 -5.0400607  3.14430559 -4.87309112
 6.35431051 -3.26057627  5.91103531  2.59083555 -8.30538524]]
```

*** 偏微分_重み2 ***

[5.70994893e-027 1.72938867e-110 3.99192446e+000 1.33275937e-046
3.99192446e+000 6.03888311e-080 3.99192446e+000 6.62814198e-060
2.06026173e-039 3.99192446e+000]

*** 偏微分_バイアス1 ***

[-0.76910708 -3.01082914 1.30931911 -0.81683528 1.26594335 -1.65073809
0.84704036 -1.535583 -0.6730535 2.15759299]

*** 偏微分_バイアス2 ***

3.991924455532735

順伝播開始

*** 総入力1 ***

[370.48504419 1356.93322602 -896.96542972 627.48625489
-957.70315819 996.03460339 -856.58455429 745.26608092
526.94851353 -1252.59080613]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-8.331534246967786

*** 出力1 ***

-8.331534246967786

出力合計: -8.331534246967786

誤差逆伝播開始

*** 偏微分_重み1 ***

[[3.23392447 12.65986799 -7.4102119 3.43461098 -7.11532841
6.94098714 -4.26748046 6.45678552 2.83004052 -13.17707216]
[2.92364286 11.44520629 -6.69923287 3.10507434 -6.43264224
6.27502828 -3.85803345 5.8372838 2.5585099 -11.91278688]]

*** 偏微分_重み2 ***

[6.7874554 6.7874554 0. 6.7874554 0. 6.7874554 0.
6.7874554 6.7874554 0.]

*** 偏微分_バイアス1 ***

[-1.02844565 -4.02606378 2.35657953 -1.09226754 2.26280132 -2.20735769

1. 35713489 -2. 05337294 -0. 90000335 4. 19054393]

*** 偏微分_バイアス2 ***

6. 787455395084139

順伝播開始

*** 総入力1 ***

[-312. 74048922 -1068. 69359776 687. 08590298 -512. 20194157
730. 81881842 -790. 26315676 662. 74282374 -600. 73309529
-435. 74377126 945. 57298185]

*** 中間層出力1 ***

[1. 50845120e-136 0. 00000000e+000 1. 00000000e+000 3. 57703473e-223
1. 00000000e+000 0. 00000000e+000 1. 00000000e+000 1. 27330258e-261
5. 73963952e-190 1. 00000000e+000]

*** 総入力2 ***

5. 65827323900231

*** 出力1 ***

5. 65827323900231

出力合計: 5. 65827323900231

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1. 58833741 4. 45224612 -1. 39253043 1. 64931251 -1. 33711579
2. 71466382 -0. 80194689 2. 56754759 1. 46562431 -2. 47624146]
[7. 35636842 20. 62053221 -6. 44949038 7. 63877396 -6. 19283805
12. 5729376 -3. 7142088 11. 89157031 6. 78802395 -11. 46868691]]

*** 偏微分_重み2 ***

[-8. 40191219e-136 0. 00000000e+000 -5. 56989328e+000 -1. 99237017e-222
-5. 56989328e+000 0. 00000000e+000 -5. 56989328e+000 -7. 09215950e-261
-3. 19691796e-189 -5. 56989328e+000]

*** 偏微分_バイアス1 ***

[1. 73472214 4. 86257509 -1. 52086915 1. 80131684 -1. 46034737 2. 96485331
-0. 87585611 2. 80417852 1. 60069953 -2. 70445742]

*** 偏微分_バイアス2 ***

-5. 569893277501529

順伝播開始

*** 総入力1 ***

[-122.90748397 -437.07481035 264.73894982 -203.66185751 284.16838316
-322.18355724 251.04414476 -244.22311735 -173.45063174 389.05890389]

*** 中間層出力1 ***

[4.18752997e-054 1.51642762e-190 1.00000000e+000 3.55450484e-089
1.00000000e+000 1.19525049e-140 1.00000000e+000 8.61485120e-107
4.69188926e-076 1.00000000e+000]

*** 総入力2 ***

7.607735886127845

*** 出力1 ***

7.607735886127845

出力合計: 7.607735886127845

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.75487604 -4.91906819 1.9704733 -1.82224443 1.90924839 -2.99929879
1.31796654 -2.8367573 -1.61929636 3.16781243]
[0.62451553 1.75057063 -0.70124108 0.64849021 -0.6794527 1.06737377
-0.4690306 1.00952941 0.57626618 -1.12734347]]

*** 偏微分_重み2 ***

[1.06717970e-053 3.86457119e-190 2.54847059e+000 9.05855105e-089
2.54847059e+000 3.04606073e-140 2.54847059e+000 2.19546950e-106
1.19571418e-075 2.54847059e+000]

*** 偏微分_バイアス1 ***

[-0.7937115 -2.22484148 0.89122382 -0.8241815 0.86353245 -1.35655049
0.59610205 -1.28303473 -0.73239028 1.43276739]

*** 偏微分_バイアス2 ***

2.548470594834769

順伝播開始

*** 総入力1 ***

[-202.44388125 -727.8222735 452.76461136 -337.89866159 485.2481924
-535.64650324 429.99025251 -404.35243383 -286.50441313 655.81938323]

*** 中間層出力1 ***

[1. 20154345e-088 0. 00000000e+000 1. 00000000e+000 1. 78844599e-147
1. 00000000e+000 2. 35331136e-233 1. 00000000e+000 2. 46586470e-176
3. 73864593e-125 1. 00000000e+000]

*** 総入力2 ***

6. 715771177935675

*** 出力1 ***

6. 715771177935675

出力合計: 6. 715771177935675

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1. 59953984 4. 48364748 -1. 6159175 1. 66094499 -1. 56011202 2. 73381014
-1. 02116862 2. 58565631 1. 47596125 -2. 70727186]
[-0. 27874611 -0. 78134927 0. 28160018 -0. 28944696 0. 27187516 -0. 47641135
0. 17795542 -0. 45059311 -0. 25721051 0. 47178662]]

*** 偏微分_重み2 ***

[-1. 96019225e-088 0. 00000000e+000 -1. 63139523e+000 -2. 91766226e-147
-1. 63139523e+000 -3. 83918093e-233 -1. 63139523e+000 -4. 02279991e-176
-6. 09920914e-125 -1. 63139523e+000]

*** 偏微分_バイアス1 ***

[0. 50809186 1. 4242251 -0. 5132942 0. 52759713 -0. 49556766 0. 86839142
-0. 32437295 0. 82133054 0. 46883727 -0. 85996157]

*** 偏微分_バイアス2 ***

-1. 6313952298573096

順伝播開始

*** 総入力1 ***

[-471. 63628174 -1684. 26631412 1074. 90844938 -785. 7436126
1148. 2724229 -1238. 74747063 1025. 24952321 -934. 82732415
-664. 79668043 1521. 72463131]

*** 中間層出力1 ***

[1. 48239989e-205 0. 00000000e+000 1. 00000000e+000 0. 00000000e+000
1. 00000000e+000 0. 00000000e+000 1. 00000000e+000 0. 00000000e+000]

1.91632913e-289 1.00000000e+000]

*** 総入力2 ***

7.286759508385734

*** 出力1 ***

7.286759508385734

出力合計: 7.286759508385734

誤差逆伝播開始

*** 偏微分_重み1 ***

[[17.21238968 48.24780594 -18.629494 17.87316059 -18.0289803
29.41808907 -12.22949743 27.8238297 15.88258047 -30.37338197]
[7.34810185 20.5973603 -7.9530746 7.63019004 -7.69671068
12.55880901 -5.22086673 11.8782074 6.78039604 -12.96663091]]

*** 偏微分_重み2 ***

[-1.68971882e-204 0.00000000e+000 -1.13985358e+001 0.00000000e+000
-1.13985358e+001 0.00000000e+000 -1.13985358e+001 0.00000000e+000
-2.18433461e-288 -1.13985358e+001]

*** 偏微分_バイアス1 ***

[3.55003075 9.95104095 -3.84230648 3.6863138 -3.71845139 6.06743878
-2.52231635 5.73862507 3.2757595 -6.26446658]

*** 偏微分_バイアス2 ***

-11.398535769541088

順伝播開始

*** 総入力1 ***

[-329.32148159 -1168.73143143 736.77027792 -544.46378665
786.86491796 -858.25807596 700.86383211 -650.05869293
-461.46774603 1048.50065352]

*** 中間層出力1 ***

[9.49506128e-144 0.00000000e+000 1.00000000e+000 3.48643732e-237
1.00000000e+000 0.00000000e+000 1.00000000e+000 4.82055170e-283
3.86459797e-201 1.00000000e+000]

*** 総入力2 ***

11.276247027725116

*** 出力1 ***

11.276247027725116

出力合計: 11.276247027725116

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 1.76252465  4.94050792 -2.79542187  1.83018667 -2.73393011  3.01237122
 -2.14007117  2.84912129  1.62635405 -3.99797959]
 [ 0.51444512  1.44203383 -0.81592682  0.53419429 -0.79797862  0.87924992
 -0.62464327  0.83160059  0.47469969 -1.16692897]]
```

*** 偏微分_重み2 ***

```
[-1.49812817e-143  0.00000000e+000 -1.57779727e+000 -5.50089127e-237
 -1.57779727e+000  0.00000000e+000 -1.57779727e+000 -7.60585330e-283
 -6.09755210e-201 -1.57779727e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.49139898  1.37743351 -0.77937488  0.51026342 -0.76223073  0.83986123
 -0.59666047  0.7943465  0.45343406 -1.11465282]
```

*** 偏微分_バイアス2 ***

-1.5777972650207488

順伝播開始

*** 総入力1 ***

```
[ -344.46411019 -1241.45847864  779.39833245 -572.80048693
  833.77576331 -910.00128064  738.25217829 -687.65417049
 -484.66806093 1121.56205665]
```

*** 中間層出力1 ***

```
[2.51847549e-150 0.00000000e+000 1.00000000e+000 1.72150900e-249
 1.00000000e+000 0.00000000e+000 1.00000000e+000 2.26771410e-299
 3.24590335e-211 1.00000000e+000]
```

*** 総入力2 ***

11.828476070482376

*** 出力1 ***

11.828476070482376

出力合計: 11.828476070482376

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 3.13174835  8.77855947 -5.18541042  3.25197385 -5.07614856  5.35254276
   -4.02094813  5.06247153  2.88979311 -7.32217948]
 [-0.14349148 -0.40221893  0.23758685 -0.14900001  0.23258065 -0.24524457
  0.18423313 -0.23195399 -0.13240549  0.33549004]]
```

*** 偏微分_重み2 ***

```
[-5.28805330e-150  0.00000000e+000 -2.09970409e+000 -3.61465949e-249
 -2.09970409e+000  0.00000000e+000 -2.09970409e+000 -4.76152857e-299
 -6.81543655e-211 -2.09970409e+000]
```

*** 偏微分_バイアス1 ***

```
[ 0.65394488  1.83306363 -1.08277301  0.67904934 -1.05995788  1.11767216
 -0.83961997  1.05710196  0.60342186 -1.52895483]
```

*** 偏微分_バイアス2 ***

-2.0997040931139477

順伝播開始

*** 総入力1 ***

```
[ 189.27211722  687.77114087 -462.45622813  318.01079488 -492.01418419
 503.04461072 -441.64289997  377.35617304  266.60415424 -634.92314166]
```

*** 中間層出力1 ***

```
[1.00000000e+000 1.00000000e+000 1.43817588e-201 1.00000000e+000
 2.09389447e-214 1.00000000e+000 1.57371314e-192 1.00000000e+000
 1.00000000e+000 1.80460911e-276]
```

*** 総入力2 ***

-10.276367537745024

*** 出力1 ***

-10.276367537745024

出力合計: -10.276367537745024

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [-0.50501172 -1.41559122  1.42770267 -0.52439875  1.39921588 -0.86312709
```

```
1. 12410369 -0. 81635151 -0. 46599511 1. 98480178]
[-1. 88925363 -5. 29574012 5. 34104917 -1. 96178068 5. 23447983 -3. 22896661
4. 20528253 -3. 05397869 -1. 74329209 7. 42516218]]
```

*** 偏微分_重み2 ***

```
[-2. 94980406e+000 -2. 94980406e+000 -4. 24233707e-201 -2. 94980406e+000
-6. 17657840e-214 -2. 94980406e+000 -4. 64214540e-192 -2. 94980406e+000
-2. 94980406e+000 -5. 32324327e-276]
```

*** 偏微分_バイアス1 ***

```
[ 0. 72251369 2. 02526791 -2. 0425956 0. 75025046 -2. 00183993 1. 23486469
-1. 60824051 1. 16794346 0. 66669313 -2. 83963003]
```

*** 偏微分_バイアス2 ***

```
-2. 9498040628121505
```

順伝播開始

*** 総入力1 ***

```
[ 9. 21218762 33. 75362708 -42. 0685055 17. 23948118 -43. 04341037
24. 52937825 -43. 08061135 16. 79092405 13. 06046164 -37. 75224426]
```

*** 中間層出力1 ***

```
[9. 99900195e-01 1. 00000000e+00 5. 36883674e-19 9. 99999967e-01
2. 02527682e-19 1. 00000000e+00 1. 95131874e-19 9. 99999949e-01
9. 99997872e-01 4. 02169044e-17]
```

*** 総入力2 ***

```
-8. 830857685047503
```

*** 出力1 ***

```
-8. 830857685047503
```

出力合計: -8. 830857685047503

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 2. 42931036 7. 67947385 -8. 2319363 2. 54098128 -8. 06768542
4. 49404206 -6. 48142656 4. 22434057 2. 20423606 -11. 44409276]
[ -3. 71896355 -11. 75629256 12. 60204194 -3. 88991744 12. 35059484
-6. 87980378 9. 92223535 -6. 46692529 -3. 37440357 17. 51944277]]
```

*** 偏微分_重み2 ***

```
[-8.74606703e+00 -8.74694003e+00 -4.69608930e-18 -8.74693974e+00  
-1.77149749e-18 -8.74694003e+00 -1.70680680e-18 -8.74693958e+00  
-8.74692142e+00 -3.51774851e-16]
```

*** 偏微分_バイアス1 ***

```
[ 1.78741901  5.65034332 -6.05682983  1.86958337 -5.9359786  3.30659118  
-4.76885344  3.10815233  1.6218156  -8.42024524]
```

*** 偏微分_バイアス2 ***

-8.746940026603374

順伝播開始

*** 総入力1 ***

```
[ 52.82985468 199.55567557 -146.13850866  91.77922193 -154.94750859  
145.60673652 -140.95577389 107.21063982  75.60333329 -190.56114604]
```

*** 中間層出力1 ***

```
[1.00000000e+00 1.00000000e+00 3.41076734e-64 1.00000000e+00  
5.09509207e-68 1.00000000e+00 6.07694361e-62 1.00000000e+00  
1.00000000e+00 1.73918512e-83]
```

*** 総入力2 ***

-4.545025397385837

*** 出力1 ***

-4.545025397385837

出力合計: -4.545025397385837

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.0937005  0.58651846 -0.77271306  0.1041799 -0.75729521  0.28750926  
-0.60839671  0.26219299  0.07257048 -1.07423085]  
[-0.35533132 -2.22419721  2.93028496 -0.39507135  2.87181732 -1.09029352  
2.30716396 -0.9942891 -0.275202  4.0737017 ]]
```

*** 偏微分_重み2 ***

```
[-2.49280935e+00 -2.49280935e+00 -8.50239271e-64 -2.49280935e+00  
-1.27010931e-67 -2.49280935e+00 -1.51486618e-61 -2.49280935e+00  
-2.49280935e+00 -4.33545693e-83]
```

*** 偏微分_バイアス1 ***


```
[ 0.20931576  1.31021245 -1.72614903  0.2327255 -1.69170737  0.64226146  
-1.35908585  0.58570794  0.16211381 -2.39970389]
```

```
*** 偏微分_バイアス2 ***  
-2.4928093476517086
```

```
##### 順伝播開始 #####
```

```
*** 総入力1 ***
```

```
[ 105.7721902  354.61154005 -251.86144982  174.50344248 -265.39916256  
262.82127934 -248.37203434  198.0563698  146.78300727 -314.61642837]
```

```
*** 中間層出力1 ***
```

```
[1.00000000e+000 1.00000000e+000 4.14917868e-110 1.00000000e+000  
5.47782556e-116 1.00000000e+000 1.35955263e-108 1.00000000e+000  
1.00000000e+000 2.31111333e-137]
```

```
*** 総入力2 ***
```

```
-3.3235488170365
```

```
*** 出力1 ***
```

```
-3.3235488170365
```

```
出力合計: -3.3235488170365
```

```
##### 誤差逆伝播開始 #####
```

```
*** 偏微分_重み1 ***
```

```
[[ 0.00748381  0.07403815 -0.10435375  0.00889904 -0.10227159  0.0336574  
-0.08216307  0.03023847  0.00463023 -0.14507328]  
[-0.01731363 -0.17128561  0.24142008 -0.02058773  0.23660306 -0.07786564  
0.19008244 -0.06995604 -0.01071194  0.33562381]]
```

```
*** 偏微分_重み2 ***
```

```
[-7.54866600e-002 -7.54866600e-002 -3.13207641e-111 -7.54866600e-002  
-4.13502755e-117 -7.54866600e-002 -1.02628087e-109 -7.54866600e-002  
-7.54866600e-002 -1.74458226e-138]
```

```
*** 偏微分_バイアス1 ***
```

```
[ 0.00374864  0.03708574 -0.05227083  0.00445753 -0.05122788  0.016859  
-0.04115551  0.01514646  0.00231929 -0.07266726]
```

```
*** 偏微分_バイアス2 ***
```

```
-0.07548666000501969
```

順伝播開始

*** 総入力1 ***

[175.0025486 676.27446215 -446.59455938 301.10609332 -478.13129638
491.27044691 -419.66423704 365.31891122 250.78455875 -640.56526347]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.11287712e-194 1.00000000e+000
2.23983670e-208 1.00000000e+000 5.52252385e-183 1.00000000e+000
1.00000000e+000 6.39794905e-279]

*** 総入力2 ***

-3.2865603536340404

*** 出力1 ***

-3.2865603536340404

出力合計: -3.2865603536340404

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0.62883361 6.34061152 -8.9557721 0.75029028 -8.77707861
2.87508407 -7.05133969 2.58166765 0.38393593 -12.45037412]
[-0.08547847 -0.86189057 1.21737398 -0.10198829 1.19308386
-0.39081528 0.95850111 -0.35093066 -0.05218909 1.69240143]]

*** 偏微分_重み2 ***

[4.51987966e+000 4.51987966e+000 5.03007067e-194 4.51987966e+000
1.01237923e-207 4.51987966e+000 2.49611432e-182 4.51987966e+000
4.51987966e+000 2.89179598e-278]

*** 偏微分_バイアス1 ***

[-0.21976008 -2.21586964 3.12979646 -0.26220585 3.06734799 -1.00476295
2.46424962 -0.90222196 -0.13417507 4.35106392]

*** 偏微分_バイアス2 ***

4.519879659538168

順伝播開始

*** 総入力1 ***

[-56.30022692 -236.90478297 129.46185011 -96.46658892 141.74385784
-169.3361917 112.5238515 -127.5489931 -81.49704073 227.96520429]

*** 中間層出力1 ***

[3.54096895e-025 1.29885305e-103 1.00000000e+000 1.27377507e-042
1.00000000e+000 2.87227725e-074 1.00000000e+000 4.03809121e-056
4.03910290e-036 1.00000000e+000]

*** 総入力2 ***

13.245533733699645

*** 出力1 ***

13.245533733699645

出力合計: 13.245533733699645

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-5.5033573 -27.43338003 21.26721065 -5.96968276 20.84286843
-14.12769887 16.74476805 -13.00114443 -4.5630876 29.56581811]
[5.93974331 29.60869645 -22.95358368 6.44304583 -22.49559345
15.24794783 -18.07253621 14.03206381 4.9249154 -31.91022515]]

*** 偏微分_重み2 ***

[3.51959536e-024 1.29101306e-102 9.93963914e+000 1.26608646e-041
9.93963914e+000 2.85493994e-073 9.93963914e+000 4.01371694e-055
4.01472253e-035 9.93963914e+000]

*** 偏微分_バイアス1 ***

[-1.40070566 -6.98229981 5.41289629 -1.51939407 5.30489339 -3.59575922
4.26185146 -3.30903039 -1.16138973 7.52504453]

*** 偏微分_バイアス2 ***

9.939639139603214

順伝播開始

*** 総入力1 ***

[170.26597569 690.54342689 -449.94521884 300.08408073 -484.69949094
500.87498767 -417.65660642 369.1063701 248.76516946 -669.40684668]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 3.90188350e-196 1.00000000e+000
3.14547113e-211 1.00000000e+000 4.11188064e-182 1.00000000e+000
1.00000000e+000 1.90677891e-291]

*** 総入力2 ***

-6.197076126579967

*** 出力1 ***

-6.197076126579967

出力合計: -6.197076126579967

誤差逆伝播開始

*** 偏微分_重み1 ***

[[1.26912252 6.32637836 -5.93762199 1.37666127 -5.77940528 3.25797143
-4.25142164 2.99817808 1.05228807 -9.03177178]
[-0.77015112 -3.83908355 3.60317161 -0.83540967 3.50715978 -1.9770592
2.57992203 -1.81940686 -0.63856785 5.4808177]]

*** 偏微分_重み2 ***

[2.38387069e+000 2.38387069e+000 9.30158569e-196 2.38387069e+000
7.49839641e-211 2.38387069e+000 9.80219173e-182 2.38387069e+000
2.38387069e+000 4.54551434e-291]

*** 偏微分_バイアス1 ***

[-0.26419757 -1.3169838 1.23605506 -0.28658428 1.20311855 -0.67822305
0.88503297 -0.62414098 -0.2190584 1.8801748]

*** 偏微分_バイアス2 ***

2.3838706866840127

順伝播開始

*** 総入力1 ***

[-60.56813889 -156.56431971 92.56291398 -88.00307365 95.77775153
-119.3198088 95.75684009 -96.89756176 -78.07230245 107.89985919]

*** 中間層出力1 ***

[4.96125442e-27 1.01153260e-68 1.00000000e+00 6.03602073e-39
1.00000000e+00 1.51378938e-52 1.00000000e+00 8.27796563e-43
1.24059452e-34 1.00000000e+00]

*** 総入力2 ***

9.599789086770638

*** 出力1 ***

9. 599789086770638

出力合計: 9. 599789086770638

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 2.49847975 10.18040636 -5.57837241 2.66183015 -5.42972843
    5.51952354 -3.99419384 5.12489976 2.16911016 -8.48531392]
  [ -4.54185748 -18.50643566 10.1406355 -4.83880375 9.87042328
    -10.03365718 7.26083898 -9.31629096 -3.94311348 15.42501454]]
```

*** 偏微分_重み2 ***

```
[4.26026577e-26 8.68610508e-68 8.58707376e+00 5.18317553e-38
 8.58707376e+00 1.29990211e-51 8.58707376e+00 7.10835015e-42
 1.06530766e-33 8.58707376e+00]
```

*** 偏微分_バイアス1 ***

```
[-1.56833384 -6.39039629 3.50162942 -1.67087137 3.40832333 -3.46468909
 2.50721637 -3.21697772 -1.36158352 5.32636093]
```

*** 偏微分_バイアス2 ***

8. 587073764073729

順伝播開始

*** 総入力1 ***

```
[ 388.06837546 1429.134047 -935.38442527 653.75206226
 -998.54747445 1044.09029092 -886.96683931 783.35486655
 548.85101522 -1319.57843612]
```

*** 中間層出力1 ***

```
[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]
```

*** 総入力2 ***

-7.966267926540295

*** 出力1 ***

-7.966267926540295

出力合計: -7.966267926540295

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 4.54078947 18.5020839 -11.64104157 4.83766591 -11.20426119
 10.03129778 -6.98603886 9.31410025 3.94218626 -20.18289463]
 [ 2.12825604 8.67187789 -5.45612546 2.26740125 -5.25140765
 4.70164279 -3.27433798 4.3654942 1.8476923 -9.45966945]]
```

*** 偏微分_重み2 ***

```
[7.8633391 7.8633391 0. 7.8633391 0. 7.8633391 0.
 7.8633391 7.8633391 0. ]
```

*** 偏微分_バイアス1 ***

```
[-1.12945827 -4.6021362 2.89554728 -1.20330215 2.78690424 -2.49514589
 1.73768006 -2.31675297 -0.98056404 5.0202145 ]
```

*** 偏微分_バイアス2 ***

7.863339098132787

順伝播開始

*** 総入力1 ***

```
[ 402.76459938 1478.61822421 -967.98829659 676.55387363
 -1032.58433109 1079.43391895 -917.31451567 810.96661589
 568.19904858 -1363.79765322]
```

*** 中間層出力1 ***

```
[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]
```

*** 総入力2 ***

-11.819304084625362

*** 出力1 ***

-11.819304084625362

出力合計: -11.819304084625362

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 4.3273982 11.91542671 -6.32696028 4.48875193 -6.08956811
 7.31151502 -3.79694464 6.92171482 4.00205457 -10.96949718]
 [ 2.53216045 6.97226622 -3.70219653 2.62657597 -3.56328742
 4.27830496 -2.22176759 4.05021487 2.34178687 -6.41875919]]
```

*** 偏微分_重み2 ***

```
[4.41398959 4.41398959 0. 4.41398959 0. 4.41398959
```

0. 4.41398959 4.41398959 0.]

*** 偏微分_バイアス1 ***

[-1.11169772 -3.06104316 1.62538019 -1.15314908 1.56439474 -1.87830982
0.97542553 -1.77817113 -1.02811776 2.81803624]

*** 偏微分_バイアス2 ***

4.4139895913841265

順伝播開始

*** 総入力1 ***

[279.77768097 1053.37684104 -689.79101071 474.11867545 -737.01862992
766.05697794 -648.71328262 573.47940799 396.76138906 -985.78212798]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.67651932e-300 1.00000000e+000
0.00000000e+000 1.00000000e+000 1.85097700e-282 1.00000000e+000
1.00000000e+000 0.00000000e+000]

*** 総入力2 ***

-13.982158984403585

*** 出力1 ***

-13.982158984403585

出力合計: -13.982158984403585

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.57157754 -6.2045214 3.02917833 -2.64882936 2.91552135 -4.00029237
1.81787492 -3.81366653 -2.41581176 5.25190007]
[-0.10610781 -0.25600945 0.12498922 -0.10929535 0.12029953 -0.16505909
0.07500871 -0.15735858 -0.09968064 0.21670262]]

*** 偏微分_重み2 ***

[-2.14158205e+000 -2.14158205e+000 -5.73198573e-300 -2.14158205e+000
0.00000000e+000 -2.14158205e+000 -3.96401912e-282 -2.14158205e+000
-2.14158205e+000 0.00000000e+000]

*** 偏微分_バイアス1 ***

[0.66947314 1.6152577 -0.78860291 0.68958454 -0.75901395 1.04141845
-0.47325753 0.9928331 0.62892177 -1.36725647]

*** 偏微分_バイアス2 ***

-2.1415820513430575

順伝播開始

*** 総入力1 ***

[-73.25083891 -290.60938137 162.97296535 -124.1641326 177.48312888
-210.24226903 145.41844477 -158.47987281 -105.1990189 272.9722163]

*** 中間層出力1 ***

[1.54015655e-032 6.16522998e-127 1.00000000e+000 1.19179721e-054
1.00000000e+000 4.93108736e-092 1.00000000e+000 1.48958656e-069
2.05421828e-046 1.00000000e+000]

*** 総入力2 ***

5.884811004672664

*** 出力1 ***

5.884811004672664

出力合計: 5.884811004672664

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-2.76219846 -7.07066322 2.22192006 -2.85381472 2.138552 -4.45657298
1.33342191 -4.23524534 -2.57746911 3.85229948]
[2.7377802 7.00815749 -2.20227795 2.82858657 -2.11964687 4.4171762
-1.32163426 4.19780513 2.55468389 -3.81824457]]

*** 偏微分_重み2 ***

[3.11211685e-032 1.24577700e-126 2.02064969e+000 2.40820465e-054
2.02064969e+000 9.96400012e-092 2.02064969e+000 3.00993262e-069
4.15085552e-046 2.02064969e+000]

*** 偏微分_バイアス1 ***

[-0.72746315 -1.86215691 0.58517336 -0.75159156 0.56321723 -1.1737001
0.35117509 -1.11541041 -0.67881212 1.01455632]

*** 偏微分_バイアス2 ***

2.0206496864095103

順伝播開始

*** 総入力1 ***

[-6.85503608 -27.47193695 -1.42676609 -10.2903031 0.47291854
-20.23828402 -5.36985113 -16.59537379 -10.03795196 22.24553581]

*** 中間層出力1 ***

[1.05302357e-03 1.17243662e-12 1.93603065e-01 3.39596650e-05
6.16074303e-01 1.62414547e-09 4.63325722e-03 6.20469887e-08
4.37072892e-05 1.00000000e+00]

*** 総入力2 ***

2.8732189164319197

*** 出力1 ***

2.8732189164319197

出力合計: 2.8732189164319197

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-1.372963 -3.51450552 1.25763202 -1.41850167 1.10823731 -2.21516
0.70789678 -2.10514808 -1.28114282 1.80874643]
[1.79882753 4.60463192 -1.64772328 1.85849134 -1.45198943 2.90225649
-0.92747162 2.75812117 1.67852663 -2.3697819]]

*** 偏微分_重み2 ***

[2.33927799e-03 2.60455250e-12 4.30086658e-01 7.54409484e-05
1.36860095e+00 3.60801777e-09 1.02927199e-02 1.37836568e-07
9.70951671e-05 2.22148683e+00]

*** 偏微分_バイアス1 ***

[-0.79976721 -2.04724107 0.73258554 -0.82629402 0.64556135 -1.29035693
0.41235826 -1.22627368 -0.74628086 1.05361621]

*** 偏微分_バイアス2 ***

2.221486826919237

順伝播開始

*** 総入力1 ***

[-26.98518298 -1.78992612 -3.309561 -26.42604593 -8.6087445
-9.2849841 10.74913166 -16.36103471 -27.50600278 -49.65779656]

*** 中間層出力1 ***

[1. 90758517e-12 1. 43081782e-01 3. 52446432e-02 3. 33667628e-12
1. 82469597e-04 9. 27987952e-05 9. 99978536e-01 7. 84319246e-08
1. 13316923e-12 2. 71576989e-22]

*** 総入力2 ***

-0. 48022629909488523

*** 出力1 ***

-0. 48022629909488523

出力合計: -0. 48022629909488523

誤差逆伝播開始

*** 偏微分_重み1 ***

[[0. 87098438 2. 21791752 -0. 78677675 0. 89977397 -0. 7138687 1. 40509966
-0. 35279859 1. 33531794 0. 81264669 -1. 36480515]
[-1. 17277743 -2. 9864182 1. 05939215 -1. 21154251 0. 96122172 -1. 8919618
0. 47504207 -1. 79800095 -1. 09422594 1. 83770538]]

*** 偏微分_重み2 ***

[1. 24849350e-12 9. 36454514e-02 2. 30672310e-02 2. 18381789e-12
1. 19424343e-04 6. 07357899e-05 6. 54474944e-01 5. 13328313e-08
7. 41646786e-13 1. 77744150e-22]

*** 偏微分_バイアス1 ***

[-0. 23565231 -0. 60007664 0. 21286921 -0. 24344158 0. 19314331 -0. 38016179
0. 09545269 -0. 36128174 -0. 21986855 0. 36925976]

*** 偏微分_バイアス2 ***

0. 654488992156694

順伝播開始

*** 総入力1 ***

[-258. 9822985 -877. 60993927 555. 99850953 -419. 56354699 590. 78090644
-647. 0185561 534. 46209148 -494. 41892136 -357. 57858657 767. 96696236]

*** 中間層出力1 ***

[3. 35287105e-113 0. 00000000e+000 1. 00000000e+000 6. 10754584e-183
1. 00000000e+000 1. 00788596e-281 1. 00000000e+000 1. 89056105e-215
5. 07683449e-156 1. 00000000e+000]

*** 総入力2 ***

4. 646696294382411

*** 出力1 ***

4. 646696294382411

出力合計: 4. 646696294382411

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[ [ 1.18638978  3.04196981 -0.84204264  1.2256048  -0.7647195   1.91392517
    -0.45087142  1.81887022  1.10692655 -1.46203426]
  [ 5.33190843 13.6713117  -3.78433322  5.50814975 -3.43682526  8.60161976
    -2.02631984  8.17442096  4.97478239 -6.57071808]]
```

*** 偏微分_重み2 ***

```
[-1.46768915e-112  0.00000000e+000 -4.37741006e+000 -2.67352326e-182
 -4.37741006e+000 -4.41193016e-281 -4.37741006e+000 -8.27576094e-215
 -2.22233864e-155 -4.37741006e+000]
```

*** 偏微分_バイアス1 ***

```
[ 1.57611021  4.04123482 -1.11864754  1.62820708 -1.01592431  2.54263571
 -0.59897942  2.4163559   1.47054388 -1.9423019 ]
```

*** 偏微分_バイアス2 ***

-4.377410063030433

順伝播開始

*** 総入力1 ***

```
[ -60.18042027 -204.67804347  115.45682736  -96.52222828  124.08369282
 -151.20959075  108.45056646 -116.59883893  -83.36096721  176.51775429]
```

*** 中間層出力1 ***

```
[7.31097940e-27  1.28663438e-89  1.00000000e+00  1.20483861e-42
 1.00000000e+00  2.14046990e-66  1.00000000e+00  2.30021090e-51
 6.26313735e-37  1.00000000e+00]
```

*** 総入力2 ***

6.178789816443063

*** 出力1 ***

6.178789816443063

出力合計: 6.178789816443063

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-1.8576153 -4.76302962 1.62926824 -1.91901706 1.50819787 -2.99676949
 1.0167835 -2.84793516 -1.73319403 2.60003344]
 [ 1.16452872 2.98591684 -1.02137922 1.20302115 -0.94548088 1.87865816
 -0.63741593 1.78535474 1.08652972 -1.62994653]]
```

*** 偏微分_重み2 ***

```
[2.79351437e-26 4.91621087e-89 3.82098515e+00 4.60367043e-42
 3.82098515e+00 8.17870371e-66 3.82098515e+00 8.78907169e-51
 2.39313548e-36 3.82098515e+00]
```

*** 偏微分_バイアス1 ***

```
[-1.37576641 -3.52754209 1.20665055 -1.4212411 1.11698475 -2.21943413
 0.7530389 -2.1092061 -1.28361891 1.92560788]
```

*** 偏微分_バイアス2 ***

3.8209851526070997

順伝播開始

*** 総入力1 ***

```
[ -6.25057068 3.18085645 -16.57736299 -4.44060828 -17.69829011
 -0.22654608 -14.33351734 -3.72233884 -6.21259668 -19.54657615]
```

*** 中間層出力1 ***

```
[1.92563755e-03 9.60107482e-01 6.31746294e-08 1.16514098e-02
 2.05935044e-08 4.43604473e-01 5.95706386e-07 2.36066094e-02
 2.00001879e-03 3.24361902e-09]
```

*** 総入力2 ***

-5.398370236320332

*** 出力1 ***

-5.398370236320332

出力合計: -5.398370236320332

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 0.12496638 0.25660226 -0.1161592 0.12909277 -0.10580287 0.19199876
```

```
-0.06376741 0.19156114 0.11659625 -0.19919821]
[-0.29598369 -0.60776412 0.27512381 -0.30575706 0.25059478 -0.45475031
0.15103352 -0.45371381 -0.27615897 0.47180224]]
```

*** 偏微分_重み2 ***

```
[-1.01756116e-02 -5.07347857e+00 -3.33832549e-07 -6.15693336e-02
-1.08821882e-07 -2.34413108e+00 -3.14788046e-06 -1.24743978e-01
-1.05686631e-02 -1.71401972e-08]
```

*** 偏微分_バイアス1 ***

```
[ 1.90263256 3.90680921 -1.76854176 1.96545744 -1.61086506 2.92321093
-0.97086865 2.91654808 1.77519595 -3.03282355]
```

*** 偏微分_バイアス2 ***

```
-5.284281877072056
```

順伝播開始

*** 総入力1 ***

```
[-596.10995637 -2105.71014529 1344.04106024 -981.8662251
1432.09494134 -1543.83581874 1278.84414637 -1170.75917581
-831.44466911 1892.21814203]
```

*** 中間層出力1 ***

```
[1.29638902e-259 0.00000000e+000 1.00000000e+000 0.00000000e+000
1.00000000e+000 0.00000000e+000 1.00000000e+000 0.00000000e+000
0.00000000e+000 1.00000000e+000]
```

*** 総入力2 ***

```
5.211344996962878
```

*** 出力1 ***

```
5.211344996962878
```

出力合計: 5.211344996962878

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 30.02216357 69.60978571 -21.95769231 30.93997944 -20.00002464
45.03454574 -12.05402184 45.86804558 28.00973942 -37.654641 ]
[ 25.59176348 59.33740146 -18.71737415 26.37413637 -17.04860142
38.38875372 -10.27519803 39.09925317 23.87631474 -32.09790875]]
```

*** 偏微分_重み2 ***

[-2.25266128e-258 0.00000000e+000 -1.73764299e+001 0.00000000e+000
-1.73764299e+001 0.00000000e+000 -1.73764299e+001 0.00000000e+000
0.00000000e+000 -1.73764299e+001]

*** 偏微分_バイアス1 ***

[6.25338346 14.49917763 -4.57361674 6.44455737 -4.16584977 9.38034604
-2.51075911 9.55395759 5.83421114 -7.84316922]

*** 偏微分_バイアス2 ***

-17.37642987135705

順伝播開始

*** 総入力1 ***

[447.38419259 1611.20621509 -1044.11411177 739.73638009
-1111.30499657 1174.10527997 -986.93780209 888.91139064
622.80429762 -1467.45337118]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-11.123356565998744

*** 出力1 ***

-11.123356565998744

出力合計: -11.123356565998744

誤差逆伝播開始

*** 偏微分_重み1 ***

[[6.0988125 14.14078737 -13.76459767 6.28526099 -13.12161016
9.14848292 -10.5117798 9.31780314 5.69000128 -18.92019279]
[5.44493746 12.62470406 -12.28884696 5.61139615 -11.7147964
8.16764204 -9.38477509 8.31880884 5.07995632 -16.89169269]]

*** 偏微分_重み2 ***

[6.01653845 6.01653845 0. 6.01653845 0. 6.01653845
0. 6.01653845 6.01653845 0.]

*** 偏微分_バイアス1 ***

[-1.70282913 -3.94820214 3.84316747 -1.75488679 3.66364107 -2.55431745

2. 93495903 -2. 60159278 -1. 5886863 5. 28264401]

*** 偏微分_バイアス2 ***

6. 016538451146172

順伝播開始

*** 総入力1 ***

[-518. 72672074 -1812. 47485544 1144. 8904229 -843. 55698297
1217. 89921788 -1325. 27208072 1082. 93588823 -1012. 0276381
-715. 55904065 1619. 63756511]

*** 中間層出力1 ***

[5. 24623288e-226 0. 00000000e+000 1. 00000000e+000 0. 00000000e+000
1. 00000000e+000 0. 00000000e+000 1. 00000000e+000 0. 00000000e+000
0. 00000000e+000 1. 00000000e+000]

*** 総入力2 ***

10. 871937760357614

*** 出力1 ***

10. 871937760357614

出力合計: 10. 871937760357614

誤差逆伝播開始

*** 偏微分_重み1 ***

[[16. 6622607 33. 66023555 -17. 99441457 17. 05634881 -17. 15383906
23. 10821731 -13. 74201616 23. 46610214 15. 79817407 -24. 73430762]
[11. 42165549 23. 07343649 -12. 33482105 11. 69179522 -11. 75862289
15. 84023332 -9. 41988468 16. 0855564 10. 82934092 -16. 95488658]]

*** 偏微分_重み2 ***

[-4. 30533072e-225 0. 00000000e+000 -8. 20651851e+000 0. 00000000e+000
-8. 20651851e+000 0. 00000000e+000 -8. 20651851e+000 0. 00000000e+000
0. 00000000e+000 -8. 20651851e+000]

*** 偏微分_バイアス1 ***

[3. 81739969 7. 71171302 -4. 1226022 3. 90768707 -3. 93002253 5. 29419766
-3. 14835839 5. 3761907 3. 61943352 -5. 66674235]

*** 偏微分_バイアス2 ***

-8. 20651850561249

順伝播開始

*** 総入力1 ***

[460.93975174 1662.15499321 -1075.72630055 759.3151911
-1144.67213486 1209.08579316 -1011.64107454 917.40753119
639.41485279 -1522.68281714]

*** 中間層出力1 ***

[1. 1. 0. 1. 0. 1. 0. 1. 1. 0.]

*** 総入力2 ***

-13.497004111667495

*** 出力1 ***

-13.497004111667495

出力合計: -13.497004111667495

誤差逆伝播開始

*** 偏微分_重み1 ***

[[7.01608434 14.17352998 -15.00495533 7.18202553 -14.43268941
9.73032439 -12.10991183 9.88102123 6.65223788 -19.59349141]
[3.21473687 6.49424482 -6.8752 3.29077034 -6.61299045
4.4583889 -5.54870468 4.52743749 3.04802413 -8.97764567]]

*** 偏微分_重み2 ***

[4.23571649 4.23571649 0. 4.23571649 0. 4.23571649
0. 4.23571649 4.23571649 0.]

*** 偏微分_バイアス1 ***

[-1.54954941 -3.13031942 3.31394529 -1.58619864 3.18755652 -2.14900758
2.67455547 -2.18228999 -1.46919147 4.32735435]

*** 偏微分_バイアス2 ***

4.235716487673349

順伝播開始

*** 総入力1 ***

[-125.11681703 -473.87444353 282.15826501 -208.66321432 304.1858499
-344.05742797 256.97865674 -260.84059419 -176.67408723 443.21494582]

*** 中間層出力1 ***

[4. 59681228e-055 1. 58104438e-206 1. 00000000e+000 2. 39175916e-091
1. 00000000e+000 3. 78231394e-150 1. 00000000e+000 5. 22840577e-114
1. 86818044e-077 1. 00000000e+000]

*** 総入力2 ***

13. 44771908318485

*** 出力1 ***

13. 44771908318485

出力合計: 13. 44771908318485

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-18. 18012557 -34. 17736313 20. 74251308 -18. 55101217 19. 95142554
-24. 24658349 16. 74047 -24. 58339824 -17. 3669111 27. 08560225]
[15. 2901305 28. 74437475 -17. 44518929 15. 60205928 -16. 7798566
20. 3922368 -14. 07932909 20. 67550995 14. 60618829 -22. 77995228]]

*** 偏微分_重み2 ***

[3. 49718487e-054 1. 20283452e-205 7. 60784791e+000 1. 81961400e-090
7. 60784791e+000 2. 87752692e-149 7. 60784791e+000 3. 97769159e-113
1. 42128327e-076 7. 60784791e+000]

*** 偏微分_バイアス1 ***

[-4. 10285005 -7. 71307081 4. 68112392 -4. 1865509 4. 50259306 -5. 47191469
3. 7779518 -5. 54792629 -3. 91932563 6. 11261809]

*** 偏微分_バイアス2 ***

7. 607847911623445

順伝播開始

*** 総入力1 ***

[-172. 17061622 -593. 38595041 364. 04786085 -277. 36640875 387. 75557416
-434. 7129683 343. 18482998 -333. 84193043 -236. 58856932 524. 4840566]

*** 中間層出力1 ***

[1. 68752972e-075 1. 97585967e-258 1. 00000000e+000 3. 47775686e-121
1. 00000000e+000 1. 60900226e-189 1. 00000000e+000 1. 03345552e-145
1. 78192681e-103 1. 00000000e+000]

*** 総入力2 ***

10.784972314116645

*** 出力1 ***

10.784972314116645

出力合計: 10.784972314116645

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-4.81767597 -9.05689351 4.56133045 -4.91595975 4.35169475 -6.4252682
3.50080165 -6.51452305 -4.6021767 6.24222909]
[-0.37989522 -0.71417641 0.35968123 -0.38764533 0.34315052 -0.50666103
0.27605381 -0.51369917 -0.36290214 0.49222758]]

*** 偏微分_重み2 ***

[7.52593417e-075 8.81180911e-258 4.45973429e+000 1.55098715e-120
4.45973429e+000 7.17572254e-189 4.45973429e+000 4.60893700e-145
7.94692010e-103 4.45973429e+000]

*** 偏微分_バイアス1 ***

[-2.40509816 -4.52141615 2.27712439 -2.45416376 2.17246928 -3.20764635
1.74768325 -3.25220449 -2.29751581 3.11626888]

*** 偏微分_バイアス2 ***

4.459734288783982

順伝播開始

*** 総入力1 ***

[177.79386652 680.15785641 -448.67585439 301.85084009 -479.02786025
492.15702123 -418.61256217 368.55948531 251.67824564 -644.93851243]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 1.38852043e-195 1.00000000e+000
9.13784140e-209 1.00000000e+000 1.58079005e-182 1.00000000e+000
1.00000000e+000 8.06794422e-281]

*** 総入力2 ***

-16.417235944655957

*** 出力1 ***

-16.417235944655957

出力合計: -16.417235944655957

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[-10.29880901 -19.36103983 13.87012727 -10.50891153 13.1455663
  -13.73537997 10.20463629 -13.92618122 -9.8381334 19.67979391]
 [ 1.224217 2.30144224 -1.64873876 1.24919184 -1.56261037
  1.63272138 -1.21302271 1.65540188 1.1694566 -2.33933246]]
```

*** 偏微分_重み2 ***

```
[-8.76254173e+000 -8.76254173e+000 -1.21669682e-194 -8.76254173e+000
 -8.00707165e-208 -8.76254173e+000 -1.38517388e-181 -8.76254173e+000
 -8.76254173e+000 -7.06956979e-280]
```

*** 偏微分_バイアス1 ***

```
[ 3.71641142 6.98659326 -5.00515151 3.79222868 -4.74368762 4.95652681
 -3.68242841 5.02537904 3.55017277 -7.10161833]
```

*** 偏微分_バイアス2 ***

-8.762541727627356

順伝播開始

*** 総入力1 ***

```
[ -463.87995239 -1606.91995961 1014.6491691 -750.1409959
 1078.24764661 -1175.01786551 959.85400253 -899.76614751
 -637.1094436 1431.46065633]
```

*** 中間層出力1 ***

```
[3.46335022e-202 0.00000000e+000 1.00000000e+000 0.00000000e+000
 1.00000000e+000 0.00000000e+000 1.00000000e+000 0.00000000e+000
 2.02714249e-277 1.00000000e+000]
```

*** 総入力2 ***

9.837443233976167

*** 出力1 ***

9.837443233976167

出力合計: 9.837443233976167

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 9.44711864 21.06276203 -10.99583784 9.71642054 -10.42142674
 13.8519924 -8.08994205 14.09655462 8.85664112 -15.60157439]
 [ 8.02979329 17.90277351 -9.34616239 8.25869257 -8.85792862
 11.7738159 -6.87623019 11.98168712 7.5279035 -13.2609129 ]]
```

*** 偏微分_重み2 ***

```
[-2.38319644e-201 0.00000000e+000 -6.88118811e+000 0.00000000e+000
 -6.88118811e+000 0.00000000e+000 -6.88118811e+000 0.00000000e+000
 -1.39491488e-276 -6.88118811e+000]
```

*** 偏微分_バイアス1 ***

```
[ 2.65577616 5.92116849 -3.09115245 2.73148237 -2.92967387 3.89407528
 -2.27424636 3.96282666 2.48978098 -4.38591817]
```

*** 偏微分_バイアス2 ***

-6.881188114822486

順伝播開始

*** 総入力1 ***

```
[-462.60517825 -1592.10456051 1004.40101519 -744.38670788
 1066.42719731 -1163.75426282 949.63832982 -893.34017361
 -632.74107818 1414.51313565]
```

*** 中間層出力1 ***

```
[1.23914972e-201 0.00000000e+000 1.00000000e+000 0.00000000e+000
 1.00000000e+000 0.00000000e+000 1.00000000e+000 0.00000000e+000
 1.59971005e-275 1.00000000e+000]
```

*** 総入力2 ***

12.245859074164036

*** 出力1 ***

12.245859074164036

出力合計: 12.245859074164036

誤差逆伝播開始

*** 偏微分_重み1 ***

```
[[ 5.28398743 11.78087986 -7.44681836 5.43461408 -7.12553722
 7.74773308 -5.82148503 7.88452227 4.95371997 -10.02291113]
 [ 5.18620991 11.56288063 -7.30901875 5.33404929 -6.99368276
 7.6043652 -5.71376139 7.73862317 4.86205389 -9.83744222]]
```

*** 偏微分_重み2 ***

[-5.13675681e-201 0.00000000e+000 -4.14538834e+000 0.00000000e+000
-4.14538834e+000 0.00000000e+000 -4.14538834e+000 0.00000000e+000
-6.63141940e-275 -4.14538834e+000]

*** 偏微分_バイアス1 ***

[1.59990155 3.56705011 -2.25476998 1.64550874 -2.15749151 2.34588184
-1.76264668 2.38729928 1.49990218 -3.03476707]

*** 偏微分_バイアス2 ***

-4.145388337883832

順伝播開始

*** 総入力1 ***

[93.54103601 446.01475191 -293.86642893 179.45539714 -319.19682089
318.6144564 -266.93056577 228.51172273 145.33494086 -458.37626255]

*** 中間層出力1 ***

[1.00000000e+000 1.00000000e+000 2.37373099e-128 1.00000000e+000
2.36909266e-139 1.00000000e+000 1.18448137e-116 1.00000000e+000
1.00000000e+000 8.50586606e-200]

*** 総入力2 ***

-11.35173014642911

*** 出力1 ***

-11.35173014642911

出力合計: -11.35173014642911

誤差逆伝播開始

*** 偏微分_重み1 ***

[[-7.45817536 -16.62832645 18.77677842 -7.67077995 18.04358879
-10.93567174 15.06763585 -11.1287452 -6.99201365 24.65563119]
[6.33025729 14.11358404 -15.93712037 6.51070917 -15.3148128
9.2818434 -12.78892049 9.4457179 5.93459436 -20.92689989]]

*** 偏微分_重み2 ***

[-5.21574990e+000 -5.21574990e+000 -1.23807872e-127 -5.21574990e+000
-1.23565948e-138 -5.21574990e+000 -6.17795858e-116 -5.21574990e+000
-5.21574990e+000 -4.43644700e-199]

*** 偏微分_バイアス1 ***

[1.58312301 3.52964162 -3.98568664 1.6282519 -3.83005483 2.32128003
-3.19835882 2.36226312 1.48417235 -5.2335719]

*** 偏微分_バイアス2 ***

-5.215749896048861

結果表示

