logistic-regression - Newton

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```
[74]: import numpy as np
import matplotlib.pyplot as plt
from matplotlib import style
style.use('ggplot')
%matplotlib inline
import re
import pandas as pd
```

Numpy is library for scientific computing in Python. It has efficient implementation of n-dimensional array (tensor) manupulations, which is useful for machine learning applications.

```
[75]: import numpy as np
```

We can convert a list into numpy array (tensor)

```
[76]: b = [[1, 2, 4], [2, 6, 9]]
a = np.array(b)
a
```

```
[76]: array([[1, 2, 4], [2, 6, 9]])
```

We can check the dimensions of the array

```
[77]: a.shape
```

[77]: (2, 3)

We can apply simple arithmetic operation on all element of a tensor

```
[78]: a * 3
```

```
[78]: array([[ 3, 6, 12], [ 6, 18, 27]])
```

You can transpose a tensor

```
[79]: print(a.T.shape)
a.T
```

```
(3, 2)
```

You can apply aggregate functions on the whole tensor

```
[80]: np.sum(a)
```

[80]: 24

or on one dimension of it

```
[81]: np.sum(a, axis=0)
```

```
[81]: array([ 3, 8, 13])
```

```
[82]: np.sum(a, axis=1)
```

[82]: array([7, 17])

We can do element-wise arithmetic operation on two tensors (of the same size)

```
[83]: c1 = np.array([[1, 2, 4], [2, 6, 9]])
c2 = np.array([[2, 3, 5], [1, 2, 1]])
c1 * c2
```

```
[83]: array([[ 2, 6, 20], [ 2, 12, 9]])
```

If you want to multiply all columns of a tensor by vector (for example if you want to multiply all data features by their lables) you need a trick. This multiplication shows up in calculating the gradients.

```
[84]: a = np.array([[1, 2, 4], [2, 6, 9]])
b = np.array([1,-1])
print(a)
print(b)

[[1 2 4]
    [2 6 9]]
    [1 -1]
```

Here we want to multiply the first row of a by 1 and the second row of a by -1. Simply multiplying a by b does not work because a and b do not have the same dimension

```
[85]: # a * b
```

To do this multiplication we first have to assume b has one column and then repeat the column of b with the number of columns in a. We use tile function to do that

```
[86]: b_repeat = np.tile(b, (a.shape[1],1)).T
print(b_repeat.shape)
b_repeat
```

(2, 3)

```
[86]: array([[ 1, 1, 1], [-1, -1, -1]])
```

Now we can multiply each column of a by b:

```
[87]: a * b_repeat
```

```
[87]: array([[ 1, 2, 4], [-2, -6, -9]])
```

You can create inital random vector using numpy (using N(0,1)):

```
[88]: mu = 0 #mean
sigma = 1 #standard deviation
r = np.random.normal(mu,sigma, 1000) #draws 1000 samples from a normal
→distribution
```

We can apply functions on tensors

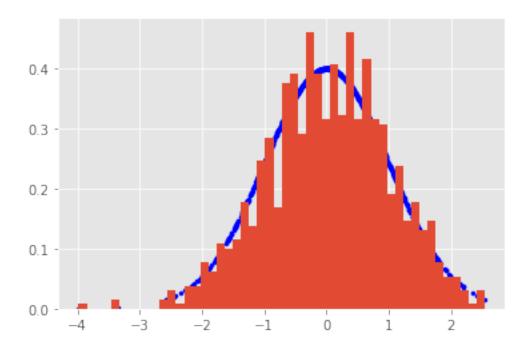
```
[89]: #implementation of Normal distribution
def normal(x, mu, sigma):
    return np.exp( -0.5 * ((x-mu)/sigma)**2)/np.sqrt(2.0*np.pi*sigma**2)

#probability of samples on the Normal distribution
probabilities = normal(r, mu, sigma)
```

Numpy has useful APIs for analysis. Here we plot the histogram of samples and also plot the probabilies to see if the samples follow the normal distribution.

```
[90]: counts, bins = np.histogram(r,50,density=True)
    plt.hist(bins[:-1], bins, weights=counts)
    plt.scatter(r, probabilities, c='b', marker='.')
```

[90]: <matplotlib.collections.PathCollection at 0x1b78000cfd0>



```
[91]: def read_data(filename):
    f = open(filename, 'r')
    p = re.compile(',')
    xdata = []
    ydata = []
    header = f.readline().strip()
    varnames = p.split(header)
    namehash = {}
    for l in f:
        li = p.split(l.strip())
            xdata.append([float(x) for x in li[:-1]])
        ydata.append(float(li[-1]))

    return np.array(xdata), np.array(ydata)
```

Assuming our data is x is available in numpy we use numpy to implement logistic regression

```
[92]: (xtrain_whole, ytrain_whole) = read_data('datasets/spambase-train.csv')
  (xtest, ytest) = read_data('datasets/spambase-test.csv')
```

```
[93]: print("The shape of xtrain:", xtrain_whole.shape)
print("The shape of ytrain:", ytrain_whole.shape)
print("The shape of xtest:", xtest.shape)
print("The shape of ytest:", ytest.shape)
```

The shape of xtrain: (3601, 54) The shape of ytrain: (3601,)

```
The shape of xtest: (1000, 54)
The shape of ytest: (1000,)
```

before training make we normalize the input data (features)

```
[94]: xmean = np.mean(xtrain_whole, axis=0)
xstd = np.std(xtrain_whole, axis=0)
xtrain_normal_whole = (xtrain_whole-xmean) / xstd
xtest_normal = (xtest-xmean) / xstd
```

We need to create a validation set. We create an array of indecies and permute it.

```
[95]: premute_indicies = np.random.permutation(np.arange(xtrain_whole.shape[0]))
```

We keep the first 2600 data points as the training data and rest as the validation data

```
[96]: xtrain_normal = xtrain_normal_whole[premute_indicies[:2600]]
ytrain = ytrain_whole[premute_indicies[:2600]]
xval_normal = xtrain_normal_whole[premute_indicies[2600:]]
yval = ytrain_whole[premute_indicies[2600:]]
```

Initiallizing the weights and bias with random values from N(0,1)

```
[97]: weights = np.random.normal(0, 1, xtrain_normal.shape[1]);
bias = np.random.normal(0,1,1)
```

```
[98]: #the sigmoid function

def sigmoid(v):
    #return np.exp(-np.logaddexp(0, -v)) #numerically stable implementation of
    →sigmoid function
    return 1.0 / (1+np.exp(-v))
```

We can use dot-product from numpy to calculate the margin and pass it to the sigmoid function

```
[99]: #w: weight vector (numpy array of size n)
#b: numpy array of size 1
#returns p(y=1/x, w, b)
def prob(x, w, b):
    return sigmoid(np.dot(x,w) + b);
```

You can also calculate l_2 penalty using lineal library of numpy

```
[100]: np.linalg.norm(weights)
```

[100]: 7.278174103965956

$$\text{Cross Entropy Loss} = -\frac{1}{|D|} [\sum_{(y^i, \mathbf{x}^i) \in \mathcal{D}} \quad y^i \log p(y = 1 | \mathbf{x}^i; \mathbf{w}, b) \ + \ (1 - y^i) \log (1 - p(y = 1 | \mathbf{x}^i; \mathbf{w}, b))] + \frac{\lambda}{2} \|\mathbf{w}\|^2$$

```
[101]: #w: weight vector (numpy array of size n)
      #y_prob: p(y|x, w, b)
      #y_true: class variable data
      #lambda_: 12 penalty coefficient
      #returns the cross entropy loss
      def loss(w, y_prob, y_true, lambda_):
          n_sample=len(w)
          cross_entropy_Loss=-(1/abs(n_sample))*np.sum((y_true * np.log(y_prob + 0.
       →+ lambda_*0.5*np.linalg.norm(w)
          return cross_entropy_Loss
[102]: | #x: input variables (data of size m x n with m data point and n features)
      #w: weight vector (numpy array of size n)
      \#y\_prob: p(y|x, w, b)
      #y_true: class variable data
      #lambda_: 12 penalty coefficient
      #returns tuple of gradient w.r.t w and w.r.t to bias
      def grad_w_b(x, w, y_prob, y_true, lambda_):
          n_samples=len(x)
            grad_w = np.zeros(w.shape)
            qrad_b = 0.0
          grad_w = (1/n_samples) * np.dot(x.T, (y_prob - y_true))
          grad_b = (1/n_samples) * np.sum(y_prob -y_true)
          return (grad_w,grad_b)
[103]: | #x: input variables (data of size m x n with m data point and n features)
      #w: weight vector (numpy array of size n)
      \#y_prob: p(y|x, w, b)
      #y_true: class variable data
      #lambda_: 12 penalty coefficient
      #returns tuple of gradient w.r.t w and w.r.t to bias
      def second_grad_w(x, w, y_prob, y_true, lambda_):
          n_{sample} = len(x)
          second_grad_w = np.zeros(w.shape)
          second_grad_b = 0.0
```

```
second_grad_w = (1/n_sample) * -1 * np.dot(np.dot(x.T,x), np.

dot(y_prob,(1-y_prob)))
second_grad_b = y_prob - y_true
return (second_grad_w,second_grad_b)
```

[104]: cost_list=[]

```
[105]: #lambda_ is the coefficient of 12 norm penalty
       #learning_rate is learning rate of gradient descent algorithm
       #max_iter determines the maximum number of iterations if the gradients descent_{\sqcup}
       \rightarrow does not converge.
       #continue the training while gradient > 0.1 or the number steps is less max_iter
       #returns model as tuple of (weights, bias)
       def fit(x, y_true, learning_rate, lambda_, max_iter, verbose=0):
           weights = np.random.normal(0, 1, x.shape[1]);
           bias = np.random.normal(0,1,1)
           for i in range (max_iter):
               y_prod = prob(x, weights, bias)
               dw,db = grad_w_b(x, weights, y_prod, y_true, lambda_)
               H, second_db = second_grad_w(x,weights,y_prod,y_true,lambda_)
               second_gradident = np.dot(np.linalg.inv(H),dw)
               old weight = weights
               weights += second_gradident
               cross_loss = loss(weights, y_prod, y_true, lambda_)
               if verbose:
                   print("Iteration Number: "+str(i)+"\nLoss: "+ str(cross_loss)+"\nl2_\]
        →norm of gradients: "+str(np.linalg.norm(dw))+"\nl2 norm of weights: "+str(np.
        →linalg.norm(weights)))
                   print("----")
                   cost_list.append(cross_loss)
           #change the condition appropriately
       #
             while True:
                 if verbose: #verbose is used for debugging purposes
                     #print iteration number, loss, l2 norm of gradients, l2 norm of \Box
        \rightarrow weights
                     pass
           return (weights, bias)
```

```
[106]: def accuracy(x, y_true, model):
          w, b = model
          return np.sum((prob(x, w, b)>0.5).astype(np.double) == y_true) / y_true.
       ⇒shape[0]
[107]: | learning_rate = 0.001
      lambda = 1.0
      max_iter = 10000
      model = fit(xtrain_normal, ytrain, learning_rate, lambda_, max_iter, verbose=1)_
       →#keep the verbose on here for your submissions
     Iteration Number: 0
     Loss: 105.02215387521849
     12 norm of gradients: 1.042082558802105
     12 norm of weights: 6.623264099107694
      _____
     Iteration Number: 1
     Loss: 104.96040358850966
     12 norm of gradients: 1.0417264475069021
     12 norm of weights: 6.621168814145506
      _____
     Iteration Number: 2
     Loss: 104.8986925689002
     12 norm of gradients: 1.0413704425779455
     12 norm of weights: 6.619074284909974
      _____
     Iteration Number: 3
     Loss: 104.83702078614908
     12 norm of gradients: 1.0410145439273442
     12 norm of weights: 6.616980510728018
      _____
     Iteration Number: 4
     Loss: 104.77538817983537
     12 norm of gradients: 1.0406587514670602
     12 norm of weights: 6.614887490928327
     Iteration Number: 5
     Loss: 104.71379471709757
     12 norm of gradients: 1.040303065108911
     12 norm of weights: 6.612795224841365
      _____
     Iteration Number: 6
     Loss: 104.65224036861085
     12 norm of gradients: 1.0399474847645698
     12 norm of weights: 6.610703711799365
      _____
     Iteration Number: 7
```

Loss: 104.59072509121279

12 norm of gradients: 1.0395920103455705 12 norm of weights: 6.608612951136326

Iteration Number: 8 Loss: 104.52924881906924

12 norm of gradients: 1.0392366417633083 12 norm of weights: 6.606522942188009

Iteration Number: 9
Loss: 104.46781154872754

12 norm of gradients: 1.0388813789290423 12 norm of weights: 6.604433684291944

Iteration Number: 10
Loss: 104.4064132224843

12 norm of gradients: 1.0385262217538964 12 norm of weights: 6.602345176787415

Iteration Number: 11 Loss: 104.34505379753972

12 norm of gradients: 1.0381711701488643 12 norm of weights: 6.600257419015467

Iteration Number: 12
Loss: 104.28373324681381

12 norm of gradients: 1.0378162240248088 12 norm of weights: 6.598170410318899

Iteration Number: 13
Loss: 104.22245151761734

12 norm of gradients: 1.0374613832924655 12 norm of weights: 6.596084150042268

Iteration Number: 14 Loss: 104.161208564329

12 norm of gradients: 1.0371066478624449 12 norm of weights: 6.593998637531875

Iteration Number: 15 Loss: 104.100004375302

12 norm of gradients: 1.0367520176452336 12 norm of weights: 6.591913872135776

Iteration Number: 16
Loss: 104.0388388805733

12 norm of gradients: 1.0363974925511978 12 norm of weights: 6.58982985320377

Iteration Number: 17 Loss: 103.97771206340836

12 norm of gradients: 1.0360430724905847 12 norm of weights: 6.587746580087401

Iteration Number: 18 Loss: 103.91662387231034

12 norm of gradients: 1.0356887573735245 12 norm of weights: 6.585664052139958

Iteration Number: 19
Loss: 103.85557427094378

12 norm of gradients: 1.0353345471100326 12 norm of weights: 6.583582268716465

Iteration Number: 20 Loss: 103.79456321856392

12 norm of gradients: 1.0349804416100121 12 norm of weights: 6.581501229173683

Iteration Number: 21 Loss: 103.73359066956571

12 norm of gradients: 1.0346264407832557 12 norm of weights: 6.579420932870114

Iteration Number: 22 Loss: 103.67265660231695

12 norm of gradients: 1.0342725445394474
12 norm of weights: 6.5773413791659845

Iteration Number: 23 Loss: 103.6117609781275

12 norm of gradients: 1.0339187527881655 12 norm of weights: 6.575262567423257

Iteration Number: 24 Loss: 103.55090373430679

12 norm of gradients: 1.033565065438884 12 norm of weights: 6.573184497005618

Iteration Number: 25 Loss: 103.49008484818808

12 norm of gradients: 1.0332114824009748 12 norm of weights: 6.571107167278482

Iteration Number: 26 Loss: 103.42930428390821

12 norm of gradients: 1.0328580035837096

12 norm of weights: 6.569030577608984

Iteration Number: 27 Loss: 103.36856199423579

12 norm of gradients: 1.0325046288962627 12 norm of weights: 6.56695472736598

Iteration Number: 28 Loss: 103.30785794900721

12 norm of gradients: 1.0321513582477122 12 norm of weights: 6.564879615920042

Iteration Number: 29 Loss: 103.24719211271639

12 norm of gradients: 1.0317981915470429 12 norm of weights: 6.562805242643462

Iteration Number: 30

Loss: 103.18656442985001

12 norm of gradients: 1.0314451287031474
12 norm of weights: 6.56073160691024

Iteration Number: 31

Loss: 103.12597488094816

12 norm of gradients: 1.031092169624829 12 norm of weights: 6.558658708096091

Iteration Number: 32 Loss: 103.0654234210975

12 norm of gradients: 1.0307393142208032 12 norm of weights: 6.556586545578433

Iteration Number: 33

Loss: 103.00491000917978

12 norm of gradients: 1.0303865623997002 12 norm of weights: 6.5545151187363935

Iteration Number: 34

Loss: 102.94443459837967

12 norm of gradients: 1.030033914070066 12 norm of weights: 6.5524444269507995

Iteration Number: 35 Loss: 102.883997180486

12 norm of gradients: 1.029681369140366

12 norm of weights: 6.55037446960418

Iteration Number: 36

Loss: 102.82359767883662

12 norm of gradients: 1.0293289275189852 12 norm of weights: 6.548305246080765

Iteration Number: 37 Loss: 102.76323609016261

12 norm of gradients: 1.0289765891142317 12 norm of weights: 6.546236755766473

Iteration Number: 38 Loss: 102.70291236240054

12 norm of gradients: 1.0286243538343374 12 norm of weights: 6.544168998048919

Iteration Number: 39 Loss: 102.6426264434663

12 norm of gradients: 1.0282722215874618 12 norm of weights: 6.54210197231741

Iteration Number: 40
Loss: 102.58237832804754

12 norm of gradients: 1.0279201922816914 12 norm of weights: 6.540035677962937

Iteration Number: 41 Loss: 102.52216794887838

12 norm of gradients: 1.027568265825044 12 norm of weights: 6.537970114378178

Iteration Number: 42
Loss: 102.46199528620885

12 norm of gradients: 1.0272164421254697 12 norm of weights: 6.53590528095749

Iteration Number: 43
Loss: 102.40186029705747

12 norm of gradients: 1.0268647210908526 12 norm of weights: 6.533841177096915

Iteration Number: 44
Loss: 102.3417629383633

12 norm of gradients: 1.0265131026290135 12 norm of weights: 6.531777802194169

Iteration Number: 45 Loss: 102.28170319642172

12 norm of gradients: 1.0261615866477107 12 norm of weights: 6.529715155648641 _____

Iteration Number: 46 Loss: 102.22168099959502

12 norm of gradients: 1.0258101730546434 12 norm of weights: 6.527653236861395

Iteration Number: 47
Loss: 102.16169634069722

12 norm of gradients: 1.0254588617574525 12 norm of weights: 6.525592045235163

Iteration Number: 48
Loss: 102.10174916418144

12 norm of gradients: 1.0251076526637228 12 norm of weights: 6.5235315801743425

Iteration Number: 49
Loss: 102.04183944340733

12 norm of gradients: 1.0247565456809853 12 norm of weights: 6.521471841084995

Iteration Number: 50
Loss: 101.98196714031987

12 norm of gradients: 1.024405540716718 12 norm of weights: 6.519412827374843

Iteration Number: 51 Loss: 101.9221322162468

12 norm of gradients: 1.0240546376783501 12 norm of weights: 6.5173545384532705

Iteration Number: 52 Loss: 101.862334635282

12 norm of gradients: 1.0237038364732602 12 norm of weights: 6.515296973731312

Iteration Number: 53
Loss: 101.80257436188228

12 norm of gradients: 1.0233531370087823 12 norm of weights: 6.513240132621659

Iteration Number: 54
Loss: 101.74285135607032

12 norm of gradients: 1.0230025391922044 12 norm of weights: 6.511184014538652

Iteration Number: 55
Loss: 101.68316558397697

12 norm of gradients: 1.0226520429307722 12 norm of weights: 6.509128618898279

Iteration Number: 56 Loss: 101.62351701009457

12 norm of gradients: 1.0223016481316902 12 norm of weights: 6.507073945118171

Iteration Number: 57 Loss: 101.56390559505269

12 norm of gradients: 1.021951354702124 12 norm of weights: 6.505019992617606

Iteration Number: 58 Loss: 101.50433130997928

12 norm of gradients: 1.0216011625492012 12 norm of weights: 6.502966760817497

Iteration Number: 59 Loss: 101.4447941103

12 norm of gradients: 1.0212510715800143 12 norm of weights: 6.5009142491403935

Iteration Number: 60 Loss: 101.38529396717865

12 norm of gradients: 1.0209010817016222 12 norm of weights: 6.498862457010482

Iteration Number: 61
Loss: 101.32583084641075

12 norm of gradients: 1.020551192821052
12 norm of weights: 6.4968113838535775

Iteration Number: 62

Loss: 101.26640470395805

12 norm of gradients: 1.0202014048452994 12 norm of weights: 6.494761029097123

Iteration Number: 63

Loss: 101.20701550430627

12 norm of gradients: 1.0198517176813338 12 norm of weights: 6.49271139217019

Iteration Number: 64 Loss: 101.14766322081675

12 norm of gradients: 1.0195021312360961 12 norm of weights: 6.490662472503469

Iteration Number: 65 Loss: 101.08834781617207

12 norm of gradients: 1.0191526454165032 12 norm of weights: 6.48861426952927

Iteration Number: 66
Loss: 101.02906924870157

12 norm of gradients: 1.0188032601294497 12 norm of weights: 6.486566782681526

Iteration Number: 67 Loss: 100.96982748415496

12 norm of gradients: 1.018453975281807 12 norm of weights: 6.484520011395776

Iteration Number: 68 Loss: 100.91062249516827

12 norm of gradients: 1.0181047907804288 12 norm of weights: 6.4824739551091755

Iteration Number: 69 Loss: 100.8514542383368

12 norm of gradients: 1.0177557065321496 12 norm of weights: 6.4804286132604885

Iteration Number: 70
Loss: 100.79232268266058

12 norm of gradients: 1.017406722443789 12 norm of weights: 6.4783839852900815

Iteration Number: 71 Loss: 100.73322778856972

12 norm of gradients: 1.0170578384221511 12 norm of weights: 6.476340070639928

Iteration Number: 72 Loss: 100.67416951951517

12 norm of gradients: 1.0167090543740274 12 norm of weights: 6.474296868753599

Iteration Number: 73 Loss: 100.61514786064666

12 norm of gradients: 1.0163603702061987 12 norm of weights: 6.47225437907626

Iteration Number: 74
Loss: 100.55616274899793

12 norm of gradients: 1.0160117858254365

12 norm of weights: 6.470212601054676

Iteration Number: 75 Loss: 100.4972141647668

12 norm of gradients: 1.0156633011385043 12 norm of weights: 6.468171534137201

Iteration Number: 76
Loss: 100.43830208272587

12 norm of gradients: 1.0153149160521595 12 norm of weights: 6.466131177773776

Iteration Number: 77 Loss: 100.37942644756089

12 norm of gradients: 1.0149666304731555 12 norm of weights: 6.46409153141593

Iteration Number: 78

Loss: 100.32058723727756 12 norm of gradients: 1.0146184443082422 12 norm of weights: 6.462052594516773

Iteration Number: 79 Loss: 100.26178440562143

12 norm of gradients: 1.0142703574641694 12 norm of weights: 6.460014366530993

Iteration Number: 80
Loss: 100.20301794361842

12 norm of gradients: 1.0139223698476862 12 norm of weights: 6.45797684691486

Iteration Number: 81

Loss: 100.14428779039413

12 norm of gradients: 1.0135744813655452 12 norm of weights: 6.455940035126215

Iteration Number: 82 Loss: 100.08559392549712

12 norm of gradients: 1.0132266919245008 12 norm of weights: 6.4539039306244685

Iteration Number: 83

Loss: 100.02693630848388

12 norm of gradients: 1.0128790014313145 12 norm of weights: 6.451868532870601

Iteration Number: 84

Loss: 99.96831490681913

12 norm of gradients: 1.0125314097927538 12 norm of weights: 6.449833841327158

Iteration Number: 85 Loss: 99.90972969072274

12 norm of gradients: 1.0121839169155942 12 norm of weights: 6.447799855458246

Iteration Number: 86
Loss: 99.85118062810609

12 norm of gradients: 1.0118365227066222 12 norm of weights: 6.445766574729531

Iteration Number: 87 Loss: 99.79266766685988

12 norm of gradients: 1.0114892270726348 12 norm of weights: 6.443733998608239

Iteration Number: 88 Loss: 99.7341908050314

12 norm of gradients: 1.0111420299204428 12 norm of weights: 6.441702126563142

Iteration Number: 89 Loss: 99.6757499827147

12 norm of gradients: 1.0107949311568705 12 norm of weights: 6.439670958064569

Iteration Number: 90 Loss: 99.61734517598079

12 norm of gradients: 1.0104479306887602 12 norm of weights: 6.437640492584393

Iteration Number: 91
Loss: 99.55897634840888

12 norm of gradients: 1.0101010284229694 12 norm of weights: 6.435610729596032

Iteration Number: 92 Loss: 99.50064346559493

12 norm of gradients: 1.0097542242663768 12 norm of weights: 6.4335816685744485

Iteration Number: 93 Loss: 99.44234650262476

12 norm of gradients: 1.0094075181258797 12 norm of weights: 6.431553308996137 -----

Iteration Number: 94 Loss: 99.38408541855114

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The section Number 440

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The section Number 1400

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Loss: 44.85933403749618

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The section Number 0420

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Theoretical Numbers 2000

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Loss: 18.365439255178238

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Iteration Number: 3512 Loss: 18.35981846401829

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Loss: 17.455092595656232

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12 norm of gradients: 0.07286816766752938 12 norm of weights: 2.2146286950113225

Iteration Number: 7401 Loss: 11.204790045909727

12 norm of gradients: 0.07285492940431233 12 norm of weights: 2.214647766869326

Iteration Number: 7402 Loss: 11.204398187466204

12 norm of gradients: 0.0728416964970834 12 norm of weights: 2.214666857946663

Iteration Number: 7403 Loss: 11.204006552488199

12 norm of gradients: 0.07282846894277824 12 norm of weights: 2.214685968227548

Iteration Number: 7404 Loss: 11.20361514082719

12 norm of gradients: 0.0728152467383348 12 norm of weights: 2.2147050976962084

Iteration Number: 7405 Loss: 11.203223952334756

12 norm of gradients: 0.07280202988069356 12 norm of weights: 2.214724246336881

Iteration Number: 7406 Loss: 11.202832986862596

12 norm of gradients: 0.07278881836679736 12 norm of weights: 2.214743414133816

Iteration Number: 7407 Loss: 11.202442244262505

12 norm of gradients: 0.0727756121935915 12 norm of weights: 2.214762601071274

Iteration Number: 7408 Loss: 11.202051724386385

12 norm of gradients: 0.07276241135802358 12 norm of weights: 2.2147818071335275

Iteration Number: 7409 Loss: 11.201661427086256

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Iteration Number: 7410 Loss: 11.201271352214226

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Iteration Number: 7411 Loss: 11.200881499622524

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Iteration Number: 7412 Loss: 11.200491869163475

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Iteration Number: 7413 Loss: 11.200102460689518

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Iteration Number: 7414 Loss: 11.199713274053192

12 norm of gradients: 0.07268331826438616 12 norm of weights: 2.2148974442484306

Iteration Number: 7415 Loss: 11.199324309107146

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Iteration Number: 7416

Loss: 11.19893556570413

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Iteration Number: 7417 Loss: 11.198547043697003

12 norm of gradients: 0.07264384352917638 12 norm of weights: 2.2149555197201645

Iteration Number: 7418
Loss: 11.198158742938729

12 norm of gradients: 0.07263069590263839

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Iteration Number: 7419 Loss: 11.197770663282382

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Iteration Number: 7420 Loss: 11.19738280458113

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Iteration Number: 7422 Loss: 11.19660774945714

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Iteration Number: 7423 Loss: 11.19622055274128

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Iteration Number: 7424 Loss: 11.195833576394268

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Iteration Number: 7425 Loss: 11.195446820269808

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Iteration Number: 7426 Loss: 11.195060284221695

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Iteration Number: 7429 Loss: 11.193901995075102

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Iteration Number: 7432 Loss: 11.192745681362709

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Iteration Number: 7433 Loss: 11.192360681764402

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Iteration Number: 7434 Loss: 11.191975901076647

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Iteration Number: 7435 Loss: 11.191591339154199

 $12 \ \, \text{norm of gradients:} \ \, 0.07240799533723141$

12 norm of weights: 2.2153075428301

Iteration Number: 7436 Loss: 11.191206995851902

12 norm of gradients: 0.07239494272598342 12 norm of weights: 2.2153272780473796

Iteration Number: 7437 Loss: 11.190822871024706

12 norm of gradients: 0.07238189536489248 12 norm of weights: 2.215347031938294 -----

Iteration Number: 7438 Loss: 11.190438964527672

12 norm of gradients: 0.07236885325097747 12 norm of weights: 2.2153668044874557

Iteration Number: 7439 Loss: 11.190055276215958

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Iteration Number: 7440 Loss: 11.18967180594483

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Iteration Number: 7441 Loss: 11.189288553569655

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Iteration Number: 7442 Loss: 11.18890551894591

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Iteration Number: 7443 Loss: 11.188522701929159

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Iteration Number: 7444 Loss: 11.188140102375083

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Iteration Number: 7445 Loss: 11.187757720139466

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Iteration Number: 7446 Loss: 11.187375555078193

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Loss: 11.186993607047249

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Loss: 11.186230361500815

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Iteration Number: 7453 Loss: 11.184706468446782

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Iteration Number: 7454 Loss: 11.184326035604439

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Iteration Number: 7455 Loss: 11.183945818644027

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Loss: 11.179777639436686

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Loss: 11.177515021995282

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Iteration Number: 7476

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12 norm of weights: 2.216131836213858

Iteration Number: 7477 Loss: 11.17563537511588

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Iteration Number: 7479 Loss: 11.174885005667218

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Iteration Number: 7480 Loss: 11.174510139516036

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Loss: 11.173012795453843

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Iteration Number: 7485 Loss: 11.172638988872398

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Iteration Number: 7486 Loss: 11.172265393784334

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12 norm of weights: 2.2163375301269

Iteration Number: 7487 Loss: 11.171892010049696

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Iteration Number: 7488 Loss: 11.171518837528627

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Iteration Number: 7489 Loss: 11.171145876081365

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Iteration Number: 7490 Loss: 11.170773125568262

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Loss: 11.170400585849759

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Iteration Number: 7494 Loss: 11.169284230067754

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Iteration Number: 7496 Loss: 11.168541044298667

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Iteration Number: 7499 Loss: 11.16742783999318

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Iteration Number: 7502 Loss: 11.16631652157573

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Iteration Number: 7503 Loss: 11.165946500543066

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Iteration Number: 7504 Loss: 11.165576688499778

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Iteration Number: 7506 Loss: 11.164837690828739

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Loss: 11.162257761866124

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Iteration Number: 7518

Loss: 11.160421186580509 12 norm of gradients: 0.07134222518468604 12 norm of weights: 2.2170077187748407

Iteration Number: 7519 Loss: 11.160054492852142

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Iteration Number: 7520 Loss: 11.159688005914159

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Iteration Number: 7521 Loss: 11.159321725629951

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Iteration Number: 7522 Loss: 11.158955651863003

12 norm of gradients: 0.07129174810195958 12 norm of weights: 2.217092758442284

Iteration Number: 7523

Loss: 11.158589784476906

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Iteration Number: 7524

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Iteration Number: 7525 Loss: 11.15785866830209

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Iteration Number: 7526 Loss: 11.157493419241026

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Loss: 11.157128376016127

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Iteration Number: 7528 Loss: 11.156763538491457

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Iteration Number: 7529 Loss: 11.15639890653119

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Iteration Number: 7533 Loss: 11.154942431620844

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Iteration Number: 7535 Loss: 11.1542154240275

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Iteration Number: 7536 Loss: 11.153852227222805

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Iteration Number: 7537 Loss: 11.153489234899315

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Loss: 11.149509776568088

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Loss: 11.149149227518937

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Loss: 11.147349520611234

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Iteration Number: 7558 Loss: 11.14591339308273

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Loss: 11.144838414008934

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12 norm of gradients: 0.07072935399318875
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Loss: 11.032730926483772

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Loss: 11.032139078769422

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Loss: 11.031843395564039

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Loss: 10.902087103004277

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12 norm of gradients: 0.06033342798540609 12 norm of weights: 2.246817688542631

Iteration Number: 8576 Loss: 10.865522495580802

12 norm of gradients: 0.06032486312696742 12 norm of weights: 2.2468510226015734

Iteration Number: 8577 Loss: 10.86531400705498

12 norm of gradients: 0.060316301182311835

12 norm of weights: 2.246884363502368

Iteration Number: 8578 Loss: 10.86510562307432

12 norm of gradients: 0.06030774215003791 12 norm of weights: 2.2469177112384835

Iteration Number: 8579 Loss: 10.86489734357315

12 norm of gradients: 0.06029918602874513 12 norm of weights: 2.246951065803395

Loss: 10.864689168485825

12 norm of gradients: 0.060290632817033625 12 norm of weights: 2.2469844271905814

Iteration Number: 8581 Loss: 10.864481097746761

12 norm of gradients: 0.060282082513504406 12 norm of weights: 2.2470177953935275

Iteration Number: 8582 Loss: 10.864273131290402

12 norm of gradients: 0.060273535116759244 12 norm of weights: 2.247051170405723

Iteration Number: 8583 Loss: 10.864065269051256

12 norm of gradients: 0.060264990625400715 12 norm of weights: 2.2470845522206617

Iteration Number: 8584 Loss: 10.86385751096386

12 norm of gradients: 0.06025644903803218 12 norm of weights: 2.247117940831844

Iteration Number: 8585 Loss: 10.863649856962805

12 norm of gradients: 0.06024791035325774 12 norm of weights: 2.247151336232773

Iteration Number: 8586 Loss: 10.863442306982721

12 norm of gradients: 0.060239374569682314

12 norm of weights: 2.247184738416959

Iteration Number: 8587 Loss: 10.863234860958285

12 norm of gradients: 0.06023084168591164 12 norm of weights: 2.2472181473779167

Iteration Number: 8588 Loss: 10.863027518824216

12 norm of gradients: 0.06022231170055217
12 norm of weights: 2.2472515631091654

Iteration Number: 8589 Loss: 10.862820280515272

12 norm of gradients: 0.060213784612211184 12 norm of weights: 2.247284985604229 -----

Iteration Number: 8590 Loss: 10.86261314596628

12 norm of gradients: 0.06020526041949672 12 norm of weights: 2.2473184148566374

Iteration Number: 8591 Loss: 10.86240611511208

12 norm of gradients: 0.060196739121017646 12 norm of weights: 2.2473518508599253

Iteration Number: 8592 Loss: 10.862199187887578

12 norm of gradients: 0.06018822071538357 12 norm of weights: 2.2473852936076315

Iteration Number: 8593 Loss: 10.861992364227714

12 norm of gradients: 0.060179705201204886 12 norm of weights: 2.247418743093301

Iteration Number: 8594 Loss: 10.861785644067469

12 norm of gradients: 0.060171192577092754 12 norm of weights: 2.2474521993104823

Iteration Number: 8595 Loss: 10.861579027341884

12 norm of gradients: 0.06016268284165914 12 norm of weights: 2.2474856622527306

Iteration Number: 8596 Loss: 10.861372513986028

12 norm of gradients: 0.060154175993516794 12 norm of weights: 2.247519131913605

Iteration Number: 8597 Loss: 10.861166103935025

12 norm of gradients: 0.06014567203127919 12 norm of weights: 2.247552608286669

Iteration Number: 8598 Loss: 10.860959797124037

12 norm of gradients: 0.060137170953560685 12 norm of weights: 2.2475860913654926

Iteration Number: 8599 Loss: 10.860753593488269 12 norm of gradients: 0.060128672758976306

12 norm of weights: 2.24761958114365

Iteration Number: 8600 Loss: 10.860547492962978

12 norm of gradients: 0.06012017744614192 12 norm of weights: 2.247653077614719

Iteration Number: 8601 Loss: 10.860341495483459

12 norm of gradients: 0.060111685013674136 12 norm of weights: 2.2476865807722857

Iteration Number: 8602 Loss: 10.860135600985052

12 norm of gradients: 0.06010319546019034 12 norm of weights: 2.247720090609937

Iteration Number: 8603 Loss: 10.859929809403136

12 norm of gradients: 0.06009470878430872 12 norm of weights: 2.2477536071212683

Iteration Number: 8604 Loss: 10.859724120673144

12 norm of gradients: 0.06008622498464823 12 norm of weights: 2.2477871302998778

Iteration Number: 8605 Loss: 10.85951853473055

12 norm of gradients: 0.06007774405982856 12 norm of weights: 2.2478206601393693

Iteration Number: 8606 Loss: 10.859313051510867

12 norm of gradients: 0.060069266008470235 12 norm of weights: 2.2478541966333516

Iteration Number: 8607 Loss: 10.859107670949655

12 norm of gradients: 0.060060790829194535

12 norm of weights: 2.247887739775438

Iteration Number: 8608 Loss: 10.858902392982516

12 norm of gradients: 0.060052318520623475

12 norm of weights: 2.247921289559248

Iteration Number: 8609 Loss: 10.858697217545103

12 norm of gradients: 0.06004384908137986 12 norm of weights: 2.2479548459784042

Iteration Number: 8610 Loss: 10.858492144573106

12 norm of gradients: 0.06003538251008727 12 norm of weights: 2.247988409026535

Iteration Number: 8611 Loss: 10.858287174002253

 $12\ \mathtt{norm}\ \mathtt{of}\ \mathtt{gradients}\colon\ \mathtt{0.060026918805370096}$

12 norm of weights: 2.248021978697274

Iteration Number: 8612 Loss: 10.858082305768331

12 norm of gradients: 0.06001845796585335 12 norm of weights: 2.2480555549842594

Iteration Number: 8613 Loss: 10.857877539807161

12 norm of gradients: 0.06000999999016304 12 norm of weights: 2.248089137881134

Iteration Number: 8614 Loss: 10.857672876054608

12 norm of gradients: 0.06000154487692579 12 norm of weights: 2.2481227273815456

Iteration Number: 8615 Loss: 10.85746831444658

12 norm of gradients: 0.059993092624769 12 norm of weights: 2.2481563234791477

Iteration Number: 8616 Loss: 10.857263854919035

12 norm of gradients: 0.05998464323232086 12 norm of weights: 2.2481899261675977

Iteration Number: 8617 Loss: 10.857059497407967

12 norm of gradients: 0.05997619669821041 12 norm of weights: 2.2482235354405584

Iteration Number: 8618 Loss: 10.856855241849418

12 norm of gradients: 0.059967753021067244

Iteration Number: 8619 Loss: 10.856651088179472

12 norm of gradients: 0.05995931219952194 12 norm of weights: 2.2482907737146864

Iteration Number: 8620 Loss: 10.85644703633426

12 norm of gradients: 0.059950874232205756 12 norm of weights: 2.2483244027032034

Iteration Number: 8621 Loss: 10.856243086249945

12 norm of gradients: 0.05994243911775068 12 norm of weights: 2.248358038250931

Iteration Number: 8622 Loss: 10.856039237862749

12 norm of gradients: 0.0599340068547895 12 norm of weights: 2.248391680351555

Iteration Number: 8623 Loss: 10.855835491108927

12 norm of gradients: 0.05992557744195578 12 norm of weights: 2.2484253289987683

Iteration Number: 8624

Loss: 10.855631845924782

12 norm of gradients: 0.05991715087788383 12 norm of weights: 2.248458984186267

Iteration Number: 8625 Loss: 10.855428302246656

12 norm of gradients: 0.05990872716120871 12 norm of weights: 2.248492645907753

Iteration Number: 8626 Loss: 10.85522486001094

12 norm of gradients: 0.05990030629056628 12 norm of weights: 2.248526314156933

Iteration Number: 8627 Loss: 10.855021519154063

12 norm of gradients: 0.05989188826459308 12 norm of weights: 2.248559988927518

Loss: 10.8548182796125

12 norm of gradients: 0.059883473081926535 12 norm of weights: 2.248593670213224

Iteration Number: 8629 Loss: 10.854615141322771

12 norm of gradients: 0.059875060741204696 12 norm of weights: 2.2486273580077727

Iteration Number: 8630 Loss: 10.854412104221435

12 norm of gradients: 0.059866651241066486 12 norm of weights: 2.248661052304889

Iteration Number: 8631 Loss: 10.854209168245097

12 norm of gradients: 0.05985824458015147 12 norm of weights: 2.2486947530983046

Iteration Number: 8632 Loss: 10.854006333330403

12 norm of gradients: 0.05984984075710013 12 norm of weights: 2.248728460381754

Iteration Number: 8633 Loss: 10.853803599414046

12 norm of gradients: 0.059841439770553534 12 norm of weights: 2.2487621741489785

Iteration Number: 8634 Loss: 10.853600966432754

12 norm of gradients: 0.059833041619153635 12 norm of weights: 2.2487958943937225

Iteration Number: 8635 Loss: 10.85339843432331

12 norm of gradients: 0.059824646301543084

12 norm of weights: 2.248829621109736

Iteration Number: 8636 Loss: 10.853196003022532

12 norm of gradients: 0.0598162538163653 12 norm of weights: 2.2488633542907746

Iteration Number: 8637 Loss: 10.85299367246728

12 norm of gradients: 0.059807864162264454 12 norm of weights: 2.248897093930597 -----

Iteration Number: 8638 Loss: 10.85279144259446

12 norm of gradients: 0.05979947733788545 12 norm of weights: 2.2489308400229686

Iteration Number: 8639 Loss: 10.85258931334102

12 norm of gradients: 0.059791093341874 12 norm of weights: 2.2489645925616575

Iteration Number: 8640 Loss: 10.852387284643957

12 norm of gradients: 0.05978271217287654 12 norm of weights: 2.248998351540439

Iteration Number: 8641 Loss: 10.852185356440298

12 norm of gradients: 0.059774333829540234 12 norm of weights: 2.2490321169530905

Iteration Number: 8642 Loss: 10.85198352866712

12 norm of gradients: 0.05976595831051302
12 norm of weights: 2.2490658887933965

Iteration Number: 8643 Loss: 10.851781801261547

12 norm of gradients: 0.05975758561444361 12 norm of weights: 2.2490996670551455

Iteration Number: 8644 Loss: 10.851580174160743

12 norm of gradients: 0.05974921573998143 12 norm of weights: 2.2491334517321304

Iteration Number: 8645 Loss: 10.851378647301905

12 norm of gradients: 0.059740848685776705

12 norm of weights: 2.24916724281815

Iteration Number: 8646 Loss: 10.85117722062229

12 norm of gradients: 0.05973248445048038 12 norm of weights: 2.249201040307006

Iteration Number: 8647 Loss: 10.85097589405918 12 norm of gradients: 0.05972412303274406 12 norm of weights: 2.2492348441925065

Iteration Number: 8648 Loss: 10.850774667549917

12 norm of gradients: 0.05971576443122031 12 norm of weights: 2.2492686544684637

Iteration Number: 8649
Loss: 10.850573541031872

12 norm of gradients: 0.05970740864456227 12 norm of weights: 2.2493024711286944

Iteration Number: 8650 Loss: 10.850372514442467

12 norm of gradients: 0.059699055671423834 12 norm of weights: 2.2493362941670214

Iteration Number: 8651 Loss: 10.85017158771916

12 norm of gradients: 0.059690705510459734 12 norm of weights: 2.2493701235772705

Iteration Number: 8652 Loss: 10.849970760799453

12 norm of gradients: 0.05968235816032541 12 norm of weights: 2.2494039593532733

Iteration Number: 8653 Loss: 10.849770033620894

12 norm of gradients: 0.05967401361967703 12 norm of weights: 2.2494378014888663

Iteration Number: 8654 Loss: 10.849569406121073

12 norm of gradients: 0.059665671887171555

12 norm of weights: 2.24947164997789

Iteration Number: 8655 Loss: 10.849368878237623

12 norm of gradients: 0.059657332961466567 12 norm of weights: 2.2495055048141896

Iteration Number: 8656 Loss: 10.84916844990821

12 norm of gradients: 0.05964899684122056 12 norm of weights: 2.249539365991617

Iteration Number: 8657 Loss: 10.848968121070557

12 norm of gradients: 0.05964066352509265 12 norm of weights: 2.2495732335040266

Iteration Number: 8658 Loss: 10.84876789166242

12 norm of gradients: 0.059632333011742776 12 norm of weights: 2.2496071073452777

Iteration Number: 8659 Loss: 10.848567761621602

12 norm of gradients: 0.05962400529983152 12 norm of weights: 2.2496409875092356

Iteration Number: 8660 Loss: 10.84836773088594

12 norm of gradients: 0.05961568038802038 12 norm of weights: 2.2496748739897696

Iteration Number: 8661 Loss: 10.848167799393323

12 norm of gradients: 0.05960735827497136 12 norm of weights: 2.2497087667807536

Iteration Number: 8662 Loss: 10.847967967081678

12 norm of gradients: 0.059599038959347386

12 norm of weights: 2.249742665876066

Iteration Number: 8663 Loss: 10.847768233888974

12 norm of gradients: 0.0595907224398121 12 norm of weights: 2.2497765712695914

Iteration Number: 8664 Loss: 10.847568599753226

12 norm of gradients: 0.059582408715029817 12 norm of weights: 2.2498104829552177

Iteration Number: 8665 Loss: 10.847369064612481

12 norm of gradients: 0.05957409778366563 12 norm of weights: 2.249844400926837

Iteration Number: 8666 Loss: 10.84716962840484

12 norm of gradients: 0.05956578964438539

Iteration Number: 8667 Loss: 10.84697029106844

12 norm of gradients: 0.05955748429585565 12 norm of weights: 2.249912255703653

Iteration Number: 8668 Loss: 10.846771052541465

12 norm of gradients: 0.05954918173674373 12 norm of weights: 2.2499461924966586

Iteration Number: 8669 Loss: 10.84657191276213

12 norm of gradients: 0.05954088196571764 12 norm of weights: 2.249980135551277

Iteration Number: 8670 Loss: 10.846372871668704

12 norm of gradients: 0.0595325849814462 12 norm of weights: 2.2500140848614243

Iteration Number: 8671 Loss: 10.846173929199493

12 norm of gradients: 0.05952429078259889 12 norm of weights: 2.250048040421022

Iteration Number: 8672 Loss: 10.845975085292842

12 norm of gradients: 0.05951599936784601 12 norm of weights: 2.250082002223996

Iteration Number: 8673 Loss: 10.845776339887147

12 norm of gradients: 0.059507710735858484 12 norm of weights: 2.2501159702642766

Iteration Number: 8674 Loss: 10.845577692920834

12 norm of gradients: 0.0594994248853081 12 norm of weights: 2.2501499445357993

Iteration Number: 8675 Loss: 10.84537914433238

12 norm of gradients: 0.05949114181486728 12 norm of weights: 2.250183925032504

Loss: 10.845180694060302

12 norm of gradients: 0.05948286152320928 12 norm of weights: 2.250217911748335

Iteration Number: 8677 Loss: 10.844982342043151

12 norm of gradients: 0.05947458400900791 12 norm of weights: 2.2502519046772425

Iteration Number: 8678 Loss: 10.844784088219532

12 norm of gradients: 0.059466309270937906 12 norm of weights: 2.2502859038131793

Iteration Number: 8679 Loss: 10.844585932528085

12 norm of gradients: 0.059458037307674634 12 norm of weights: 2.2503199091501043

Iteration Number: 8680 Loss: 10.844387874907493

12 norm of gradients: 0.05944976811789424 12 norm of weights: 2.2503539206819814

Iteration Number: 8681 Loss: 10.844189915296479

12 norm of gradients: 0.05944150170027353 12 norm of weights: 2.2503879384027776

Iteration Number: 8682 Loss: 10.843992053633812

12 norm of gradients: 0.059433238053490114
12 norm of weights: 2.2504219623064667

Iteration Number: 8683 Loss: 10.843794289858293

12 norm of gradients: 0.0594249771762223 12 norm of weights: 2.2504559923870247

Iteration Number: 8684 Loss: 10.843596623908779

12 norm of gradients: 0.059416719067149106 12 norm of weights: 2.250490028638434

Iteration Number: 8685 Loss: 10.843399055724154

12 norm of gradients: 0.059408463724950365 12 norm of weights: 2.2505240710546817 _____

Iteration Number: 8686 Loss: 10.843201585243358

12 norm of gradients: 0.05940021114830649 12 norm of weights: 2.250558119629758

Iteration Number: 8687 Loss: 10.843004212405358

 $12\ \mathtt{norm}\ \mathtt{of}\ \mathtt{gradients}\colon\ \mathtt{0.059391961335898774}$

12 norm of weights: 2.250592174357659

Iteration Number: 8688 Loss: 10.842806937149172

12 norm of gradients: 0.05938371428640913 12 norm of weights: 2.2506262352323856

Iteration Number: 8689 Loss: 10.842609759413858

12 norm of gradients: 0.05937546999852027 12 norm of weights: 2.250660302247943

Iteration Number: 8690 Loss: 10.842412679138512

12 norm of gradients: 0.05936722847091559 12 norm of weights: 2.2506943753983397

Iteration Number: 8691 Loss: 10.84221569626228

12 norm of gradients: 0.059358989702279194

12 norm of weights: 2.250728454677591

Iteration Number: 8692 Loss: 10.842018810724332

12 norm of gradients: 0.059350753691295964 12 norm of weights: 2.2507625400797164

Iteration Number: 8693 Loss: 10.841822022463898

12 norm of gradients: 0.05934252043665148 12 norm of weights: 2.250796631598738

Iteration Number: 8694 Loss: 10.841625331420236

12 norm of gradients: 0.05933428993703205 12 norm of weights: 2.250830729228685

Iteration Number: 8695 Loss: 10.84142873753266 12 norm of gradients: 0.05932606219112469 12 norm of weights: 2.2508648329635905

Iteration Number: 8696 Loss: 10.84123224074051

12 norm of gradients: 0.05931783719761716 12 norm of weights: 2.2508989427974906

Iteration Number: 8697 Loss: 10.841035840983173

12 norm of gradients: 0.05930961495519791 12 norm of weights: 2.2509330587244283

Iteration Number: 8698 Loss: 10.840839538200077

12 norm of gradients: 0.059301395462556174 12 norm of weights: 2.2509671807384497

Iteration Number: 8699 Loss: 10.840643332330696

12 norm of gradients: 0.059293178718381856 12 norm of weights: 2.2510013088336067

Iteration Number: 8700 Loss: 10.840447223314538

12 norm of gradients: 0.05928496472136559 12 norm of weights: 2.2510354430039548

Iteration Number: 8701 Loss: 10.840251211091157

12 norm of gradients: 0.05927675347019873 12 norm of weights: 2.2510695832435537

Iteration Number: 8702 Loss: 10.840055295600143

12 norm of gradients: 0.05926854496357335 12 norm of weights: 2.251103729546469

Iteration Number: 8703 Loss: 10.839859476781138

12 norm of gradients: 0.05926033920018228
12 norm of weights: 2.2511378819067707

Iteration Number: 8704 Loss: 10.839663754573804

12 norm of gradients: 0.05925213617871899 12 norm of weights: 2.251172040318532

Iteration Number: 8705 Loss: 10.839468128917865

12 norm of gradients: 0.05924393589787774 12 norm of weights: 2.251206204775832

Iteration Number: 8706 Loss: 10.839272599753079

12 norm of gradients: 0.05923573835635349 12 norm of weights: 2.2512403752727543

Iteration Number: 8707 Loss: 10.839077167019244

12 norm of gradients: 0.05922754355284188 12 norm of weights: 2.251274551803386

Iteration Number: 8708 Loss: 10.838881830656195

12 norm of gradients: 0.059219351486039344 12 norm of weights: 2.2513087343618206

Iteration Number: 8709
Loss: 10.838686590603816

12 norm of gradients: 0.05921116215464291 12 norm of weights: 2.251342922942154

Iteration Number: 8710 Loss: 10.838491446802024

12 norm of gradients: 0.05920297555735048 12 norm of weights: 2.2513771175384885

Iteration Number: 8711 Loss: 10.838296399190785

12 norm of gradients: 0.059194791692860516

12 norm of weights: 2.25141131814493

Iteration Number: 8712 Loss: 10.8381014477101

12 norm of gradients: 0.05918661055987234 12 norm of weights: 2.2514455247555887

Iteration Number: 8713 Loss: 10.837906592300008

12 norm of gradients: 0.05917843215708582 12 norm of weights: 2.2514797373645807

Iteration Number: 8714
Loss: 10.8377118329006

12 norm of gradients: 0.059170256483201705

Iteration Number: 8715 Loss: 10.837517169451994

12 norm of gradients: 0.059162083536921366 12 norm of weights: 2.251548180554046

Iteration Number: 8716 Loss: 10.837322601894357

12 norm of gradients: 0.05915391331694692 12 norm of weights: 2.2515824111227727

Iteration Number: 8717 Loss: 10.837128130167898

12 norm of gradients: 0.059145745821981136

12 norm of weights: 2.251616647666338

Iteration Number: 8718 Loss: 10.836933754212858

12 norm of gradients: 0.059137581050727535

12 norm of weights: 2.251650890178881

Iteration Number: 8719 Loss: 10.836739473969532

12 norm of gradients: 0.0591294190018904 12 norm of weights: 2.2516851386545427

Iteration Number: 8720

Loss: 10.836545289378238

12 norm of gradients: 0.05912125967417465 12 norm of weights: 2.2517193930874706

Iteration Number: 8721 Loss: 10.836351200379355

12 norm of gradients: 0.05911310306628596 12 norm of weights: 2.2517536534718166

Iteration Number: 8722 Loss: 10.836157206913283

12 norm of gradients: 0.059104949176930696 12 norm of weights: 2.2517879198017363

Iteration Number: 8723 Loss: 10.835963308920473

12 norm of gradients: 0.05909679800481589 12 norm of weights: 2.2518221920713897

Loss: 10.83576950634142

12 norm of gradients: 0.05908864954864934 12 norm of weights: 2.251856470274943

Iteration Number: 8725 Loss: 10.835575799116645

12 norm of gradients: 0.059080503807139584 12 norm of weights: 2.2518907544065647

Iteration Number: 8726 Loss: 10.83538218718673

12 norm of gradients: 0.05907236077899576 12 norm of weights: 2.251925044460429

Iteration Number: 8727 Loss: 10.835188670492277

12 norm of gradients: 0.05906422046292785 12 norm of weights: 2.251959340430715

Iteration Number: 8728 Loss: 10.83499524897394

12 norm of gradients: 0.059056082857646346 12 norm of weights: 2.2519936423116054

Iteration Number: 8729 Loss: 10.834801922572408

12 norm of gradients: 0.05904794796186267 12 norm of weights: 2.252027950097287

Iteration Number: 8730 Loss: 10.834608691228418

12 norm of gradients: 0.05903981577428878 12 norm of weights: 2.252062263781953

Iteration Number: 8731 Loss: 10.834415554882739

12 norm of gradients: 0.059031686293637455 12 norm of weights: 2.2520965833597995

Iteration Number: 8732 Loss: 10.834222513476185

12 norm of gradients: 0.05902355951862206 12 norm of weights: 2.252130908825027

Iteration Number: 8733 Loss: 10.834029566949605

12 norm of gradients: 0.059015435447956836 12 norm of weights: 2.2521652401718417 _____

Iteration Number: 8734 Loss: 10.833836715243892

12 norm of gradients: 0.05900731408035651 12 norm of weights: 2.2521995773944523

Iteration Number: 8735 Loss: 10.833643958299987

12 norm of gradients: 0.05899919541453667 12 norm of weights: 2.252233920487075

Iteration Number: 8736 Loss: 10.833451296058856

12 norm of gradients: 0.05899107944921358 12 norm of weights: 2.2522682694439276

Iteration Number: 8737 Loss: 10.83325872846151

12 norm of gradients: 0.05898296618310418 12 norm of weights: 2.2523026242592334

Iteration Number: 8738 Loss: 10.833066255449008

12 norm of gradients: 0.0589748556149261 12 norm of weights: 2.252336984927221

Iteration Number: 8739 Loss: 10.832873876962438

12 norm of gradients: 0.058966747743397656 12 norm of weights: 2.2523713514421213

Iteration Number: 8740 Loss: 10.832681592942938

12 norm of gradients: 0.058958642567238 12 norm of weights: 2.2524057237981725

Iteration Number: 8741
Loss: 10.832489403331678

12 norm of gradients: 0.058950540085166814 12 norm of weights: 2.252440101989615

Iteration Number: 8742 Loss: 10.832297308069872

12 norm of gradients: 0.05894244029590451 12 norm of weights: 2.252474486010694

Iteration Number: 8743 Loss: 10.832105307098775 12 norm of gradients: 0.05893434319817225 12 norm of weights: 2.252508875855661

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12 norm of gradients: 0.05761123444129535 12 norm of weights: 2.258364569355899

Iteration Number: 8912

Loss: 10.800964899401835 12 norm of gradients: 0.05760357439674707 12 norm of weights: 2.2583998643677643

Iteration Number: 8913 Loss: 10.800788106262086

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Iteration Number: 8914 Loss: 10.800611397931682

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Iteration Number: 8915 Loss: 10.800434774358346

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Iteration Number: 8917 Loss: 10.80008178127395

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Iteration Number: 8918 Loss: 10.799905411658518

12 norm of gradients: 0.05755766625028538 12 norm of weights: 2.258611737338302

Iteration Number: 8919
Loss: 10.799729126591405

12 norm of gradients: 0.05755002356847617 12 norm of weights: 2.2586470666030336

Iteration Number: 8920 Loss: 10.799552926020514

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Iteration Number: 8921 Loss: 10.799376809893781

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Iteration Number: 8923 Loss: 10.79902483076471

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Iteration Number: 8924 Loss: 10.798848967658422

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Iteration Number: 8926 Loss: 10.798497494102728

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Loss: 10.793958811837845

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Loss: 10.792573596324555

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Iteration Number: 8968 Loss: 10.791193653800724

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Loss: 10.790677529513324

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12 norm of gradients: 0.05713345672090713 12 norm of weights: 2.2605975434282164

Iteration Number: 8975 Loss: 10.789990509254748

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Iteration Number: 8984 Loss: 10.788449484401035

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Iteration Number: 8987 Loss: 10.787937272566268

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Iteration Number: 8989 Loss: 10.787596203267906

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Iteration Number: 8991 Loss: 10.7872554577121

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Iteration Number: 8992 Loss: 10.78708520621354

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Iteration Number: 8993 Loss: 10.78691503550175

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Iteration Number: 8995 Loss: 10.786574936240314

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Iteration Number: 8996 Loss: 10.78640500759166

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Iteration Number: 8997 Loss: 10.786235159531774

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Iteration Number: 8998 Loss: 10.78606539201123

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Iteration Number: 8999 Loss: 10.78589570498065

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Iteration Number: 9003 Loss: 10.785217760771419

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Iteration Number: 9012

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Iteration Number: 9015 Loss: 10.783191618957488

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Iteration Number: 9016 Loss: 10.78302329273269

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Iteration Number: 9019
Loss: 10.782518791503689

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Iteration Number: 9020 Loss: 10.782350783413413

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Iteration Number: 9021 Loss: 10.782182854735055

12 norm of gradients: 0.05678327228402547 12 norm of weights: 2.262275381493477 _____

Iteration Number: 9022 Loss: 10.782015005419984

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Iteration Number: 9023 Loss: 10.781847235419617

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Iteration Number: 9025 Loss: 10.781511933168789

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Loss: 10.781009573439967

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Iteration Number: 9031 Loss: 10.780507924926047 12 norm of gradients: 0.05670944154987386 12 norm of weights: 2.2626336335517045

Iteration Number: 9032 Loss: 10.780340866576893

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Iteration Number: 9033 Loss: 10.780173887058352

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Iteration Number: 9035 Loss: 10.779840164320234

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Iteration Number: 9036 Loss: 10.779673421004293

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Iteration Number: 9037 Loss: 10.77950675632625

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Iteration Number: 9038 Loss: 10.779340170237997

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Iteration Number: 9039 Loss: 10.779173662691477

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12 norm of weights: 2.262920547588098

Iteration Number: 9040 Loss: 10.779007233638657

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Iteration Number: 9041 Loss: 10.778840883031524

12 norm of gradients: 0.05663584575193094 12 norm of weights: 2.2629923191789154

Iteration Number: 9042 Loss: 10.778674610822124

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Iteration Number: 9043 Loss: 10.778508416962511

12 norm of gradients: 0.056621154688446015 12 norm of weights: 2.263064107929353

Iteration Number: 9044 Loss: 10.77834230140479

12 norm of gradients: 0.056613812661629195 12 norm of weights: 2.263100008728041

Iteration Number: 9045 Loss: 10.77817626410108

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Iteration Number: 9046 Loss: 10.77801030500355

12 norm of gradients: 0.05659913561240587 12 norm of weights: 2.2631718231496114

Iteration Number: 9047 Loss: 10.777844424064385

12 norm of gradients: 0.05659180058782463 12 norm of weights: 2.2632077367634063

Iteration Number: 9048 Loss: 10.777678621235822

12 norm of gradients: 0.056584467895148156

 $12 \ \text{norm of weights:} \ 2.263243654639822$

Iteration Number: 9049
Loss: 10.777512896470109

12 norm of gradients: 0.05657713753329053 12 norm of weights: 2.2632795767743232

Iteration Number: 9050 Loss: 10.77734724971954

12 norm of gradients: 0.056569809501166406

12 norm of weights: 2.2633155031623793

Iteration Number: 9051 Loss: 10.777181680936437

12 norm of gradients: 0.05656248379769099 12 norm of weights: 2.2633514337994622

Iteration Number: 9052 Loss: 10.777016190073159

12 norm of gradients: 0.056555160421780035 12 norm of weights: 2.263387368681047

Iteration Number: 9053 Loss: 10.776850777082087

12 norm of gradients: 0.05654783937234988 12 norm of weights: 2.2634233078026136

Iteration Number: 9054 Loss: 10.77668544191564

12 norm of gradients: 0.05654052064831751 12 norm of weights: 2.2634592511596443

Iteration Number: 9055 Loss: 10.776520184526277

12 norm of gradients: 0.05653320424860037 12 norm of weights: 2.263495198747626

Iteration Number: 9056 Loss: 10.776355004866476

12 norm of gradients: 0.05652589017211652 12 norm of weights: 2.263531150562048

Iteration Number: 9057 Loss: 10.77618990288875

12 norm of gradients: 0.05651857841778452 12 norm of weights: 2.2635671065984035

Iteration Number: 9058 Loss: 10.776024878545652

12 norm of gradients: 0.05651126898452363 12 norm of weights: 2.26360306685219

Iteration Number: 9059 Loss: 10.775859931789757

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Iteration Number: 9060

12 norm of gradients: 0.056496657076894705 12 norm of weights: 2.2636749999940577

Iteration Number: 9061 Loss: 10.775530270850066

12 norm of gradients: 0.05648935460036785 12 norm of weights: 2.2637109728731506

Iteration Number: 9062 Loss: 10.775365556571584

12 norm of gradients: 0.05648205444059448 12 norm of weights: 2.2637469499516962

Iteration Number: 9063 Loss: 10.775200919690953

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Iteration Number: 9064 Loss: 10.775036360160906

12 norm of gradients: 0.056467461066996794 12 norm of weights: 2.2638189166892055

Iteration Number: 9065 Loss: 10.774871877934213

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Iteration Number: 9066 Loss: 10.77470747296368

12 norm of gradients: 0.05645287694748455 12 norm of weights: 2.2638909001707415

Iteration Number: 9067 Loss: 10.774543145202145

12 norm of gradients: 0.0564455883553201 12 norm of weights: 2.2639268981793332

Iteration Number: 9068
Loss: 10.774378894602473

12 norm of gradients: 0.05643830207344965 12 norm of weights: 2.2639629003605157

Iteration Number: 9069
Loss: 10.774214721117563

12 norm of gradients: 0.05643101810079864 12 norm of weights: 2.2639989067098236 _____

Iteration Number: 9070 Loss: 10.774050624700347

12 norm of gradients: 0.05642373643629299 12 norm of weights: 2.264034917222796

Iteration Number: 9071
Loss: 10.773886605303788

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Iteration Number: 9072 Loss: 10.773722662880882

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Iteration Number: 9073 Loss: 10.773558797384652

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Iteration Number: 9074 Loss: 10.773395008768155

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Loss: 10.77306766198677

12 norm of gradients: 0.056380094860236374 12 norm of weights: 2.264251067488177

Iteration Number: 9077
Loss: 10.772904103728155

12 norm of gradients: 0.05637282932272235 12 norm of weights: 2.264287107022172

Iteration Number: 9078 Loss: 10.772740622161821

12 norm of gradients: 0.05636556608478157 12 norm of weights: 2.264323150684264

Iteration Number: 9079
Loss: 10.772577217240993

12 norm of gradients: 0.05635830514534499 12 norm of weights: 2.264359198470024

Iteration Number: 9080

Loss: 10.772413888918917

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Iteration Number: 9081 Loss: 10.772250637148872

12 norm of gradients: 0.05634379015771144
12 norm of weights: 2.2644313063948442

Iteration Number: 9082 Loss: 10.77208746188417

12 norm of gradients: 0.05633653610737923 12 norm of weights: 2.2644673665250608

Iteration Number: 9083 Loss: 10.771924363078154

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Iteration Number: 9084
Loss: 10.771761340684197

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Iteration Number: 9085 Loss: 10.771598394655708

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Iteration Number: 9086 Loss: 10.771435524946122

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Iteration Number: 9087 Loss: 10.771272731508907

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Iteration Number: 9088 Loss: 10.771110014297566

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Iteration Number: 9089 Loss: 10.770947373265631

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Iteration Number: 9094 Loss: 10.77013530917284

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Iteration Number: 9096
Loss: 10.769811015168687

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Iteration Number: 9097 Loss: 10.769648981902899

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Iteration Number: 9098
Loss: 10.769487024399716

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12 norm of weights: 2.265044884029283

Iteration Number: 9099 Loss: 10.769325142612976

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Iteration Number: 9100 Loss: 10.76916333649656

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Iteration Number: 9101 Loss: 10.769001606004373

12 norm of gradients: 0.05619914384271781 12 norm of weights: 2.2651532841213733

Iteration Number: 9102

Loss: 10.768839951090357 12 norm of gradients: 0.05619193547511705 12 norm of weights: 2.2651894255366436

Iteration Number: 9103 Loss: 10.768678371708475

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Iteration Number: 9104

Loss: 10.768516867812732

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Iteration Number: 9105 Loss: 10.76835543935716

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Loss: 10.768032808582804

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Iteration Number: 9108

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Iteration Number: 9109 Loss: 10.767710479018275

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Iteration Number: 9110 Loss: 10.76754942707511

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Loss: 10.767388450296954

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Iteration Number: 9112 Loss: 10.767227548638052

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Loss: 10.766584692281095

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Loss: 10.766424165533298

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Iteration Number: 9118 Loss: 10.766263713630895

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Loss: 10.766103336528358

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Iteration Number: 9120 Loss: 10.765943034180177

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Iteration Number: 9122 Loss: 10.765622653565018

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Loss: 10.765302571421998

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Iteration Number: 9138 Loss: 10.763070323215796

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Iteration Number: 9140

Iteration Number: 9140 Loss: 10.762752615825292

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Iteration Number: 9141 Loss: 10.7625938728612

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Iteration Number: 9143 Loss: 10.762276608171168

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Iteration Number: 9144

Loss: 10.762118086355652

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Loss: 10.761959638166804

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Loss: 10.761801263559907

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Iteration Number: 9147 Loss: 10.761642962490278

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Iteration Number: 9148 Loss: 10.76148473491327

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Iteration Number: 9149 Loss: 10.761326580784257

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Iteration Number: 9150 Loss: 10.761168500058645

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Loss: 10.761010492691877

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Iteration Number: 9152 Loss: 10.760852558639414

12 norm of gradients: 0.05583439335326413 12 norm of weights: 2.2670015300800745

Iteration Number: 9153 Loss: 10.76069469785676

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Iteration Number: 9155

Loss: 10.760379195923015

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Iteration Number: 9156

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Iteration Number: 9157 Loss: 10.760063986535227

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Iteration Number: 9158 Loss: 10.759906491435128

12 norm of gradients: 0.05579186396482275 12 norm of weights: 2.267219632305843

Iteration Number: 9159
Loss: 10.759749069338453

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Iteration Number: 9160 Loss: 10.759591720200913

12 norm of gradients: 0.055777705231085946 12 norm of weights: 2.2672923633337785

Iteration Number: 9161 Loss: 10.759434443978243

 $12 \ \mathtt{norm} \ \mathtt{of} \ \mathtt{gradients} \colon \ \mathtt{0.055770629183806056}$

12 norm of weights: 2.267328734507644

Iteration Number: 9162 Loss: 10.759277240626211

12 norm of gradients: 0.05576355534821998 12 norm of weights: 2.267365109449238

Iteration Number: 9163
Loss: 10.759120110100612

12 norm of gradients: 0.055756483723304516

12 norm of weights: 2.26740148815441

Iteration Number: 9164
Loss: 10.758963052357279

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Iteration Number: 9165 Loss: 10.758806067352065

12 norm of gradients: 0.055742347101395216 12 norm of weights: 2.267474256838905 _____

Iteration Number: 9166 Loss: 10.758649155040859

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Iteration Number: 9167
Loss: 10.758492315379575

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Iteration Number: 9168 Loss: 10.75833554832416

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Iteration Number: 9169 Loss: 10.758178853830591

12 norm of gradients: 0.05571410034066149 12 norm of weights: 2.2676198391886033

Iteration Number: 9170 Loss: 10.758022231854873

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Iteration Number: 9171 Loss: 10.757865682353044

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Loss: 10.757709205281168

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Iteration Number: 9173 Loss: 10.757552800595336

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Iteration Number: 9174 Loss: 10.757396468251676

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Iteration Number: 9175 Loss: 10.75724020820634 12 norm of gradients: 0.055671796284900675 12 norm of weights: 2.2678383246694747

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Loss: 10.756927904835413

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Iteration Number: 9179 Loss: 10.756615890132375

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Iteration Number: 9180
Loss: 10.756459990922012

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Iteration Number: 9181
Loss: 10.756304163747519

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Iteration Number: 9182 Loss: 10.756148408565256

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Loss: 10.753048356343868

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Iteration Number: 9203

Loss: 10.75289410296972

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Iteration Number: 9204

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Iteration Number: 9205 Loss: 10.752585809297182

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Iteration Number: 9212 Loss: 10.751509014233344

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Iteration Number: 9214 Loss: 10.751201995027674

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Iteration Number: 9215 Loss: 10.751048591298972

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Loss: 10.750129648479424

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Iteration Number: 9222 Loss: 10.749976737537821

12 norm of gradients: 0.055343134209054595

12 norm of weights: 2.269554345732821

Iteration Number: 9223 Loss: 10.74982389682435 12 norm of gradients: 0.055336193371806654 12 norm of weights: 2.2695909427796357

Iteration Number: 9224

Loss: 10.74967112629659

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Iteration Number: 9225 Loss: 10.749518425912152

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12 norm of weights: 2.269664147418714

Iteration Number: 9226 Loss: 10.749365795628671

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Iteration Number: 9227 Loss: 10.749213235403811

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Iteration Number: 9228 Loss: 10.74906074519527

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Iteration Number: 9229 Loss: 10.748908324960768

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Iteration Number: 9230 Loss: 10.748755974658057

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Iteration Number: 9235 Loss: 10.747995270644633

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12 norm of weights: 2.270067022950623

Iteration Number: 9237 Loss: 10.747691477086267

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Iteration Number: 9238 Loss: 10.747539684720328

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Loss: 10.74708472477165

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Iteration Number: 9245 Loss: 10.74647908328988

12 norm of gradients: 0.055184036961562474 12 norm of weights: 2.2703969605006833

Iteration Number: 9246 Loss: 10.746327846173129

12 norm of gradients: 0.05517714530721187 12 norm of weights: 2.270433637431352

Iteration Number: 9247 Loss: 10.746176678274272

12 norm of gradients: 0.05517025577944735 12 norm of weights: 2.270470317788324

Iteration Number: 9248

Loss: 10.74602557955158

12 norm of gradients: 0.05516336837728975 12 norm of weights: 2.2705070015677165

Iteration Number: 9249 Loss: 10.745874549963332

12 norm of gradients: 0.0551564830997604 12 norm of weights: 2.2705436887656485

Iteration Number: 9250 Loss: 10.745723589467852

12 norm of gradients: 0.05514959994588114 12 norm of weights: 2.2705803793782424

Iteration Number: 9251 Loss: 10.745572698023478

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Iteration Number: 9252

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Iteration Number: 9253 Loss: 10.74527112212158

12 norm of gradients: 0.05512896321636993 12 norm of weights: 2.2706904716652656

Iteration Number: 9254 Loss: 10.745120437580887

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Iteration Number: 9255 Loss: 10.74496982192496

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Iteration Number: 9256 Loss: 10.744819275112288

12 norm of gradients: 0.05510834556454425 12 norm of weights: 2.2708005945449456

Iteration Number: 9257 Loss: 10.744668797101387

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Iteration Number: 9258 Loss: 10.744518387850789

12 norm of gradients: 0.05509461104903779 12 norm of weights: 2.270874026742517

Iteration Number: 9259 Loss: 10.744368047319073

12 norm of gradients: 0.055087746964075375 12 norm of weights: 2.2709107479130783

Iteration Number: 9260 Loss: 10.74421777546483

12 norm of gradients: 0.05508088499300919
12 norm of weights: 2.2709474724596914

Iteration Number: 9261 Loss: 10.744067572246687

12 norm of gradients: 0.05507402513486659 12 norm of weights: 2.2709842003785132

Iteration Number: 9262 Loss: 10.743917437623296

12 norm of gradients: 0.05506716738867541 12 norm of weights: 2.2710209316657015

Iteration Number: 9263 Loss: 10.743767371553334

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Iteration Number: 9264 Loss: 10.743617373995512

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Iteration Number: 9265 Loss: 10.743467444908568

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Iteration Number: 9266 Loss: 10.743317584251265

12 norm of gradients: 0.05503975750400042

12 norm of weights: 2.2711678904214

Iteration Number: 9267 Loss: 10.743167791982394

12 norm of gradients: 0.05503291030300226 12 norm of weights: 2.271204638492906

Iteration Number: 9268
Loss: 10.74301806806077

12 norm of gradients: 0.05502606520813331 12 norm of weights: 2.2712413899097936

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Loss: 10.742868412445251

12 norm of gradients: 0.05501922221842502 12 norm of weights: 2.2712781446682415

Iteration Number: 9270 Loss: 10.742718825094698

12 norm of gradients: 0.05501238133290916 12 norm of weights: 2.271314902764433

Iteration Number: 9271 Loss: 10.742569305968024 12 norm of gradients: 0.05500554255061818 12 norm of weights: 2.2713516641945524

Iteration Number: 9272 Loss: 10.742419855024158

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Iteration Number: 9273 Loss: 10.742270472222051

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Iteration Number: 9274 Loss: 10.7421211575207

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Iteration Number: 9275 Loss: 10.741971910879105

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Iteration Number: 9276 Loss: 10.741822732256319

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Iteration Number: 9277
Loss: 10.741673621611401

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12 norm of weights: 2.2715723025745373

Iteration Number: 9278 Loss: 10.741524578903451

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Iteration Number: 9279 Loss: 10.741375604091592

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Iteration Number: 9280 Loss: 10.741226697134977

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Iteration Number: 9281 Loss: 10.741077857992781

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Iteration Number: 9282 Loss: 10.740929086624213

12 norm of gradients: 0.05493045448201707 12 norm of weights: 2.271756258877189

Iteration Number: 9283 Loss: 10.7407803829885

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Iteration Number: 9284 Loss: 10.740631747044915

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Iteration Number: 9285 Loss: 10.740483178752735

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Iteration Number: 9286 Loss: 10.74033467807128

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Iteration Number: 9289
Loss: 10.739889581284837

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Iteration Number: 9290 Loss: 10.739741350639989

12 norm of gradients: 0.05487600401651529

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Iteration Number: 9291 Loss: 10.739593187402852

12 norm of gradients: 0.05486920709628649 12 norm of weights: 2.272087587073892

Iteration Number: 9292 Loss: 10.739445091532911

12 norm of gradients: 0.05486241225907719 12 norm of weights: 2.27212441764061

Iteration Number: 9293 Loss: 10.739297062989674

12 norm of gradients: 0.05485561950393069 12 norm of weights: 2.272161251458086

Iteration Number: 9294 Loss: 10.739149101732671

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Iteration Number: 9295 Loss: 10.739001207721465

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Iteration Number: 9296 Loss: 10.738853380915645

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Iteration Number: 9297 Loss: 10.738705621274827

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Iteration Number: 9298 Loss: 10.738557928758654

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Iteration Number: 9299 Loss: 10.738410303326798

12 norm of gradients: 0.05481490664285586 12 norm of weights: 2.2723823224192503

Iteration Number: 9300

Loss: 10.738262744938957

12 norm of gradients: 0.054808128435402025 12 norm of weights: 2.2724191788872896

Iteration Number: 9301 Loss: 10.738115253554849

12 norm of gradients: 0.05480135230237487 12 norm of weights: 2.2724560385761943

Iteration Number: 9302 Loss: 10.737967829134236

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Iteration Number: 9303 Loss: 10.73782047163689

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Iteration Number: 9304 Loss: 10.73767318102262

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Iteration Number: 9305 Loss: 10.737525957251254

12 norm of gradients: 0.05477426849549485 12 norm of weights: 2.2726035094660553

Iteration Number: 9306 Loss: 10.73737880028266

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12 norm of weights: 2.2726403852035

Iteration Number: 9307 Loss: 10.73723171007672

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Iteration Number: 9308 Loss: 10.737084686593347

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Iteration Number: 9309 Loss: 10.736937729792484

12 norm of gradients: 0.054747217803346376 12 norm of weights: 2.272751031592434

Iteration Number: 9310 Loss: 10.7367908396341

12 norm of gradients: 0.05474046029736489 12 norm of weights: 2.2727879201019343

Iteration Number: 9311 Loss: 10.736644016078191

 $12 \ \, \text{norm of gradients:} \ \, 0.054733704856309164$

12 norm of weights: 2.272824811795198

Iteration Number: 9312 Loss: 10.736497259084775

12 norm of gradients: 0.05472695147923169 12 norm of weights: 2.2728617066685306

Iteration Number: 9313 Loss: 10.736350568613902

12 norm of gradients: 0.05472020016518562 12 norm of weights: 2.272898604718241

Iteration Number: 9314 Loss: 10.73620394462565

12 norm of gradients: 0.054713450913224486

12 norm of weights: 2.27293550594064

Iteration Number: 9315 Loss: 10.73605738708012

12 norm of gradients: 0.054706703722402314 12 norm of weights: 2.2729724103320423

Iteration Number: 9316 Loss: 10.73591089593744

12 norm of gradients: 0.05469995859177368 12 norm of weights: 2.273009317888765

Iteration Number: 9317 Loss: 10.73576447115777

12 norm of gradients: 0.05469321552039358 12 norm of weights: 2.273046228607128

Iteration Number: 9318 Loss: 10.735618112701289

12 norm of gradients: 0.0546864745073175 12 norm of weights: 2.2730831424834537

Iteration Number: 9319 Loss: 10.735471820528206 12 norm of gradients: 0.05467973555160142 12 norm of weights: 2.2731200595140684

Iteration Number: 9320 Loss: 10.735325594598764

12 norm of gradients: 0.054672998652301866 12 norm of weights: 2.2731569796953006

Iteration Number: 9321 Loss: 10.735179434873219

12 norm of gradients: 0.054666263808475744 12 norm of weights: 2.2731939030234822

Iteration Number: 9322 Loss: 10.735033341311867

12 norm of gradients: 0.054659531019180564 12 norm of weights: 2.273230829494947

Iteration Number: 9323 Loss: 10.73488731387502

12 norm of gradients: 0.054652800283474134 12 norm of weights: 2.2732677591060315

Iteration Number: 9324 Loss: 10.734741352523027

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Iteration Number: 9325 Loss: 10.734595457216255

12 norm of gradients: 0.05463934496906192 12 norm of weights: 2.2733416277324263

Iteration Number: 9326 Loss: 10.7344496279151

12 norm of gradients: 0.054632620388474364

12 norm of weights: 2.273378566740425

Iteration Number: 9327 Loss: 10.734303864579983

12 norm of gradients: 0.05462589785771219
12 norm of weights: 2.2734155088734207

Iteration Number: 9328 Loss: 10.734158167171364

12 norm of gradients: 0.0546191773758357 12 norm of weights: 2.2734524541277663

Iteration Number: 9329 Loss: 10.734012535649708

 $12 \ \, \text{norm of gradients:} \ \, 0.054612458941905764$

12 norm of weights: 2.273489402499815

Iteration Number: 9330 Loss: 10.733866969975525

12 norm of gradients: 0.05460574255498366 12 norm of weights: 2.273526353985925

Iteration Number: 9331 Loss: 10.733721470109343

12 norm of gradients: 0.05459902821413121 12 norm of weights: 2.273563308582456

Iteration Number: 9332 Loss: 10.73357603601172

12 norm of gradients: 0.054592315918410614

12 norm of weights: 2.27360026628577

Iteration Number: 9333 Loss: 10.73343066764324

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Iteration Number: 9334 Loss: 10.733285364964507

12 norm of gradients: 0.05457889745861666
12 norm of weights: 2.2736741909982148

Iteration Number: 9335 Loss: 10.733140127936164

12 norm of gradients: 0.054572191292670276 12 norm of weights: 2.2737111580000855

Iteration Number: 9336 Loss: 10.732994956518867

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Iteration Number: 9337 Loss: 10.73284985067331

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Loss: 10.732704810360207

12 norm of gradients: 0.054552085039405056

12 norm of weights: 2.2738220775447884

Iteration Number: 9339 Loss: 10.732559835540298

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Iteration Number: 9340 Loss: 10.732414926174355

12 norm of gradients: 0.05453869106502605 12 norm of weights: 2.2738960393209715

Iteration Number: 9341 Loss: 10.732270082223168

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Iteration Number: 9342

Loss: 10.73212530364756

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12 norm of weights: 2.273970013393864

Iteration Number: 9343

Loss: 10.73198059040838

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Iteration Number: 9346 Loss: 10.731546842318268

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Iteration Number: 9347

Loss: 10.731402390033793

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Iteration Number: 9348

Loss: 10.731258002890378

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Iteration Number: 9351 Loss: 10.73082523191666

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Loss: 10.730105246147252

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Loss: 10.729674032488818

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Iteration Number: 9360 Loss: 10.729530424003983

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Iteration Number: 9361 Loss: 10.72938688015531

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Iteration Number: 9362 Loss: 10.72924340090415

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Iteration Number: 9363 Loss: 10.729099986211871

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Loss: 10.728956636039866

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Iteration Number: 9365 Loss: 10.728813350349558

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Iteration Number: 9366 Loss: 10.7286701291024

12 norm of gradients: 0.054365308053700975 12 norm of weights: 2.2748586509519533

Iteration Number: 9367 Loss: 10.72852697225986 12 norm of gradients: 0.05435866675055202 12 norm of weights: 2.2748957151231997

Iteration Number: 9368

Loss: 10.728383879783449

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Iteration Number: 9369 Loss: 10.72824085163468

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Iteration Number: 9376 Loss: 10.72724145254108

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Iteration Number: 9377 Loss: 10.72709893763154

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Iteration Number: 9385 Loss: 10.725961118519933

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Iteration Number: 9391 Loss: 10.72511042971194

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Iteration Number: 9392 Loss: 10.72496887053956

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Iteration Number: 9393 Loss: 10.724827374779174

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Iteration Number: 9394 Loss: 10.724685942392949

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Iteration Number: 9395 Loss: 10.724544573343074

12 norm of gradients: 0.05417352365860356 12 norm of weights: 2.2759347080259236

Iteration Number: 9396

Loss: 10.724403267591777

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Iteration Number: 9397 Loss: 10.724262025101295

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Iteration Number: 9398 Loss: 10.724120845833898

12 norm of gradients: 0.054153779605558706 12 norm of weights: 2.2760461639531075

Iteration Number: 9399 Loss: 10.723979729751878

12 norm of gradients: 0.05414720222252708 12 norm of weights: 2.2760833216723433

Iteration Number: 9400 Loss: 10.723838676817559

12 norm of gradients: 0.05414062682197739 12 norm of weights: 2.276120482257583

Iteration Number: 9401 Loss: 10.723697686993287

12 norm of gradients: 0.05413405340300459 12 norm of weights: 2.27615764570538

Iteration Number: 9402 Loss: 10.723556760241422

12 norm of gradients: 0.05412748196470393 12 norm of weights: 2.27619481201229

Iteration Number: 9403 Loss: 10.723415896524374

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Iteration Number: 9404 Loss: 10.723275095804556

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Iteration Number: 9405 Loss: 10.723134358044412

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Iteration Number: 9407 Loss: 10.722853071253068

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Iteration Number: 9409 Loss: 10.722572035850412

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Iteration Number: 9411 Loss: 10.72229125153692

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Loss: 10.699051215959187

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Loss: 10.698401535622345

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Loss: 10.682238982785178

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Loss: 10.68101327778504

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Loss: 10.68076876279977

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Iteration Number: 9730 Loss: 10.680524455920832

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Loss: 10.680280356906616

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Iteration Number: 9742 Loss: 10.679062971372646

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Iteration Number: 9743 Loss: 10.678941517144072

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12 norm of weights: 2.289013746404488

Iteration Number: 9744
Loss: 10.678820114491018

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Iteration Number: 9745 Loss: 10.678698763383574

12 norm of gradients: 0.051984454475121664

12 norm of weights: 2.28908966642659

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Iteration Number: 9912 Loss: 10.659133227778273

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Iteration Number: 9913 Loss: 10.659020127299026

12 norm of gradients: 0.051009603985960356 12 norm of weights: 2.2954909385395137

Iteration Number: 9914 Loss: 10.658907073585928

12 norm of gradients: 0.051003937578680464

12 norm of weights: 2.295529171439841

Iteration Number: 9915 Loss: 10.658794066612263

12 norm of gradients: 0.05099827274377127 12 norm of weights: 2.2955674057446966

Iteration Number: 9916 Loss: 10.658681106351331

12 norm of gradients: 0.05099260948053628 12 norm of weights: 2.2956056414517776

Iteration Number: 9917 Loss: 10.658568192776459

12 norm of gradients: 0.050986947788279294 12 norm of weights: 2.2956438785587823

Iteration Number: 9918 Loss: 10.65845532586098

12 norm of gradients: 0.050981287666304415

12 norm of weights: 2.295682117063411

Iteration Number: 9919 Loss: 10.65834250557825

12 norm of gradients: 0.05097562911391619 12 norm of weights: 2.2957203569633666

Iteration Number: 9920 Loss: 10.658229731901645

12 norm of gradients: 0.050969972130419504

12 norm of weights: 2.295758598256352

Iteration Number: 9921 Loss: 10.65811700480456

12 norm of gradients: 0.05096431671511951 12 norm of weights: 2.2957968409400746

Iteration Number: 9922 Loss: 10.6580043242604

12 norm of gradients: 0.05095866286732183 12 norm of weights: 2.295835085012241

Iteration Number: 9923 Loss: 10.657891690242591

12 norm of gradients: 0.05095301058633234 12 norm of weights: 2.295873330470562

Iteration Number: 9924

Loss: 10.657779102724573

12 norm of gradients: 0.050947359871457355 12 norm of weights: 2.2959115773127468

Iteration Number: 9925 Loss: 10.65766656167982

12 norm of gradients: 0.05094171072200347 12 norm of weights: 2.29594982553651

Iteration Number: 9926 Loss: 10.6575540670818

12 norm of gradients: 0.05093606313727766 12 norm of weights: 2.295988075139566

Iteration Number: 9927 Loss: 10.657441618904018

12 norm of gradients: 0.05093041711658723 12 norm of weights: 2.2960263261196316

Iteration Number: 9928 Loss: 10.657329217119985

12 norm of gradients: 0.05092477265923989 12 norm of weights: 2.296064578474425

Iteration Number: 9929 Loss: 10.65721686170323

12 norm of gradients: 0.050919129764543665

12 norm of weights: 2.296102832201667

Iteration Number: 9930 Loss: 10.657104552627306

12 norm of gradients: 0.05091348843180691 12 norm of weights: 2.2961410872990786

Iteration Number: 9931 Loss: 10.65699228986578

12 norm of gradients: 0.050907848660338366 12 norm of weights: 2.2961793437643845

Iteration Number: 9932 Loss: 10.656880073392239

 $12\ \mathtt{norm}\ \mathtt{of}\ \mathtt{gradients}\colon\ \mathtt{0.050902210449447094}$

12 norm of weights: 2.29621760159531

Iteration Number: 9933 Loss: 10.656767903180281

12 norm of gradients: 0.050896573798442535 12 norm of weights: 2.296255860789582 _____

Iteration Number: 9934 Loss: 10.656655779203527

12 norm of gradients: 0.0508909387066345 12 norm of weights: 2.296294121344931

Iteration Number: 9935 Loss: 10.656543701435613

12 norm of gradients: 0.050885305173333055 12 norm of weights: 2.2963323832590863

Iteration Number: 9936 Loss: 10.656431669850198

12 norm of gradients: 0.050879673197848724 12 norm of weights: 2.2963706465297817

Iteration Number: 9937 Loss: 10.65631968442095

12 norm of gradients: 0.05087404277949232 12 norm of weights: 2.2964089111547508

Iteration Number: 9938 Loss: 10.65620774512156

12 norm of gradients: 0.05086841391757503 12 norm of weights: 2.2964471771317307

Iteration Number: 9939 Loss: 10.656095851925732

12 norm of gradients: 0.050862786611408375 12 norm of weights: 2.2964854444584586

Iteration Number: 9940 Loss: 10.655984004807193

12 norm of gradients: 0.05085716086030419
12 norm of weights: 2.2965237131326752

Iteration Number: 9941 Loss: 10.655872203739683

12 norm of gradients: 0.050851536663574746 12 norm of weights: 2.296561983152121

Iteration Number: 9942 Loss: 10.655760448696967

12 norm of gradients: 0.05084591402053264 12 norm of weights: 2.2966002545145403

Iteration Number: 9943 Loss: 10.655648739652813 12 norm of gradients: 0.05084029293049074 12 norm of weights: 2.296638527217678

Iteration Number: 9944

Loss: 10.65553707658102

12 norm of gradients: 0.05083467339276231 12 norm of weights: 2.296676801259281

Iteration Number: 9945 Loss: 10.655425459455397

12 norm of gradients: 0.050829055406661015 12 norm of weights: 2.296715076637097

Iteration Number: 9946 Loss: 10.655313888249776

12 norm of gradients: 0.05082343897150081 12 norm of weights: 2.2967533533488775

Iteration Number: 9947 Loss: 10.655202362937997

12 norm of gradients: 0.050817824086595964 12 norm of weights: 2.296791631392374

Iteration Number: 9948
Loss: 10.655090883493926

12 norm of gradients: 0.05081221075126119 12 norm of weights: 2.296829910765341

Iteration Number: 9949
Loss: 10.654979449891444

12 norm of gradients: 0.050806598964811434 12 norm of weights: 2.296868191465534

Iteration Number: 9950 Loss: 10.654868062104448

12 norm of gradients: 0.05080098872656212 12 norm of weights: 2.29690647349071

Iteration Number: 9951 Loss: 10.654756720106853

12 norm of gradients: 0.05079538003582889 12 norm of weights: 2.2969447568386285

Iteration Number: 9952 Loss: 10.65464542387259

12 norm of gradients: 0.05078977289192786 12 norm of weights: 2.2969830415070507

Iteration Number: 9953 Loss: 10.654534173375612

12 norm of gradients: 0.05078416729417535 12 norm of weights: 2.2970213274937388

Iteration Number: 9954 Loss: 10.654422968589882

12 norm of gradients: 0.05077856324188818 12 norm of weights: 2.2970596147964577

Iteration Number: 9955 Loss: 10.654311809489391

12 norm of gradients: 0.050772960734383366 12 norm of weights: 2.2970979034129733

Iteration Number: 9956 Loss: 10.654200696048129

12 norm of gradients: 0.05076735977097839 12 norm of weights: 2.297136193341054

Iteration Number: 9957
Loss: 10.654089628240124

12 norm of gradients: 0.05076176035099104 12 norm of weights: 2.2971744845784685

Iteration Number: 9958 Loss: 10.653978606039404

12 norm of gradients: 0.05075616247373939 12 norm of weights: 2.297212777122989

Iteration Number: 9959 Loss: 10.653867629420027

12 norm of gradients: 0.05075056613854195 12 norm of weights: 2.297251070972389

Iteration Number: 9960

Loss: 10.65375669835606

12 norm of gradients: 0.05074497134471755 12 norm of weights: 2.2972893661244433

Iteration Number: 9961
Loss: 10.653645812821594

12 norm of gradients: 0.05073937809158532 12 norm of weights: 2.2973276625769277

Iteration Number: 9962 Loss: 10.653534972790728

12 norm of gradients: 0.05073378637846479

12 norm of weights: 2.297365960327622

Iteration Number: 9963 Loss: 10.65342417823759

12 norm of gradients: 0.050728196204675766 12 norm of weights: 2.2974042593743054

Iteration Number: 9964 Loss: 10.653313429136313

12 norm of gradients: 0.050722607569538516 12 norm of weights: 2.2974425597147596

Iteration Number: 9965 Loss: 10.653202725461053

12 norm of gradients: 0.05071702047237355 12 norm of weights: 2.297480861346769

Iteration Number: 9966 Loss: 10.653092067185986

12 norm of gradients: 0.05071143491250173 12 norm of weights: 2.297519164268119

Iteration Number: 9967 Loss: 10.652981454285301

12 norm of gradients: 0.05070585088924432 12 norm of weights: 2.297557468476596

Iteration Number: 9968

Loss: 10.652870886733199

12 norm of gradients: 0.05070026840192289 12 norm of weights: 2.2975957739699893

Iteration Number: 9969 Loss: 10.65276036450391

12 norm of gradients: 0.05069468744985933 12 norm of weights: 2.2976340807460898

Iteration Number: 9970 Loss: 10.652649887571677

12 norm of gradients: 0.05068910803237597 12 norm of weights: 2.297672388802689

Iteration Number: 9971 Loss: 10.65253945591075

12 norm of gradients: 0.050683530148795335 12 norm of weights: 2.297710698137582

Iteration Number: 9972

Loss: 10.652429069495412

12 norm of gradients: 0.05067795379844041 12 norm of weights: 2.2977490087485632

Iteration Number: 9973 Loss: 10.65231872829995

12 norm of gradients: 0.05067237898063451 12 norm of weights: 2.2977873206334314

Iteration Number: 9974 Loss: 10.652208432298673

12 norm of gradients: 0.05066680569470123 12 norm of weights: 2.297825633789985

Iteration Number: 9975 Loss: 10.65209818146591

12 norm of gradients: 0.05066123393996456 12 norm of weights: 2.2978639482160252

Iteration Number: 9976 Loss: 10.651987975776004

12 norm of gradients: 0.05065566371574883 12 norm of weights: 2.297902263909355

Iteration Number: 9977 Loss: 10.651877815203312

12 norm of gradients: 0.05065009502137872 12 norm of weights: 2.2979405808677784

Iteration Number: 9978
Loss: 10.651767699722214

12 norm of gradients: 0.050644527856179206 12 norm of weights: 2.2979788990891015

Iteration Number: 9979 Loss: 10.6516576293071

12 norm of gradients: 0.05063896221947564 12 norm of weights: 2.298017218571132

Iteration Number: 9980 Loss: 10.651547603932384

12 norm of gradients: 0.050633398110593704
12 norm of weights: 2.2980555393116804

Iteration Number: 9981 Loss: 10.651437623572495

12 norm of gradients: 0.050627835528859445 12 norm of weights: 2.2980938613085566 ______

Iteration Number: 9982 Loss: 10.651327688201874

12 norm of gradients: 0.05062227447359924 12 norm of weights: 2.298132184559574

_____ Iteration Number: 9983 Loss: 10.651217797794986

12 norm of gradients: 0.050616714944139767 12 norm of weights: 2.2981705090625484

_____ Iteration Number: 9984 Loss: 10.651107952326305

12 norm of gradients: 0.05061115693980814 12 norm of weights: 2.298208834815295

_____ Iteration Number: 9985 Loss: 10.650998151770331

12 norm of gradients: 0.050605600459931725 12 norm of weights: 2.298247161815632

_____ Iteration Number: 9986 Loss: 10.650888396101575

12 norm of gradients: 0.050600045503838245

12 norm of weights: 2.29828549006138

Iteration Number: 9987 Loss: 10.650778685294561

12 norm of gradients: 0.05059449207085581 12 norm of weights: 2.298323819550359

_____ Iteration Number: 9988 Loss: 10.650669019323841

12 norm of gradients: 0.050588940160312824 12 norm of weights: 2.2983621502803944

_____ Iteration Number: 9989 Loss: 10.650559398163976

12 norm of gradients: 0.050583389771538034 12 norm of weights: 2.2984004822493094

Iteration Number: 9990 Loss: 10.650449821789547

12 norm of gradients: 0.05057784090386057 12 norm of weights: 2.298438815454931

_____ Iteration Number: 9991 Loss: 10.650340290175144

```
12 norm of gradients: 0.050572293556609825
12 norm of weights: 2.2984771498950884
```

Iteration Number: 9992 Loss: 10.650230803295386

12 norm of gradients: 0.05056674772911564 12 norm of weights: 2.2985154855676107

Iteration Number: 9993 Loss: 10.650121361124903

12 norm of gradients: 0.05056120342070805 12 norm of weights: 2.29855382247033

Iteration Number: 9994 Loss: 10.650011963638338

12 norm of gradients: 0.05055566063071759 12 norm of weights: 2.2985921606010797

Iteration Number: 9995 Loss: 10.649902610810358

12 norm of gradients: 0.05055011935847504 12 norm of weights: 2.298630499957695

Iteration Number: 9996 Loss: 10.64979330261564

12 norm of gradients: 0.05054457960331151 12 norm of weights: 2.298668840538013

Iteration Number: 9997
Loss: 10.649684039028884

12 norm of gradients: 0.050539041364558494 12 norm of weights: 2.298707182339872

Iteration Number: 9998 Loss: 10.649574820024798

12 norm of gradients: 0.0505335046415478 12 norm of weights: 2.2987455253611118

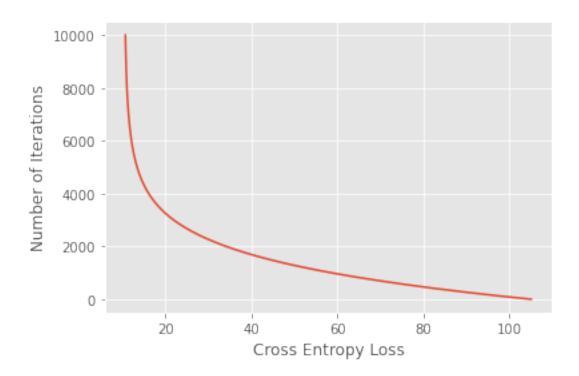
Iteration Number: 9999 Loss: 10.64946564557812

12 norm of gradients: 0.050527969433611625 12 norm of weights: 2.2987838695995753

```
[108]: print("Train accuracy: ", accuracy(xtrain_normal, ytrain, model))
```

Train accuracy: 0.9265384615384615

```
[109]: #grid search for finding the best hyperparams and model
       best_model = None
       best_val = -1
       for lr in [0.01, 0.001, 0.0001, 0.00001]:
           for la in [5, 2, 1, 0.1, 0.01]:
               model = fit(xtrain_normal, ytrain, lr, la, 10000, verbose=0)
               val_acc = accuracy(xval_normal, yval, model)
               print(lr, la, val_acc)
               if val_acc > best_val:
                   best val = val acc
                   best_model = model
      0.01 5 0.9050949050949051
      0.01 2 0.9200799200799201
      0.01 1 0.9300699300699301
      0.01 0.1 0.9140859140859141
      0.01 0.01 0.9240759240759241
      0.001 5 0.9210789210789211
      0.001 2 0.9250749250749251
      0.001 1 0.8751248751248751
      0.001 0.1 0.9210789210789211
      0.001 0.01 0.8981018981018981
      0.0001 5 0.9210789210789211
      0.0001 2 0.9120879120879121
      0.0001 1 0.922077922077922
      0.0001 0.1 0.8721278721278721
      0.0001 0.01 0.9210789210789211
      1e-05 5 0.8891108891108891
      1e-05 2 0.8551448551448552
      1e-05 1 0.926073926073926
      1e-05 0.1 0.9140859140859141
      1e-05 0.01 0.9180819180819181
[110]: print("Test accuracy: ", accuracy(xtest_normal, ytest, best_model))
      Test accuracy: 0.937
[112]: fig = plt.figure()
       ax = fig.add_subplot()
       ax.set_xlabel('Cross Entropy Loss')
       ax.set_ylabel('Number of Iterations')
       ax.plot(cost_list,np.arange(max_iter))
       plt.show()
```



[]: