logistic-regression

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```
[1]: 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.

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

We can convert a list into numpy array (tensor)

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

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

We can check the dimensions of the array

```
[4]: a.shape
```

[4]:(2, 3)

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

```
[5]: a * 3
```

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

You can transpose a tensor

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

```
(3, 2)
```

You can apply aggregate functions on the whole tensor

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

[7]: 24

or on one dimension of it

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

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

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

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

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

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

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

[1-1]

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.

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

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

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

```
[12]: # 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

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

(2, 3)

[13]: array([[1, 1, 1], [-1, -1, -1]])

Now we can multiply each column of a by b:

```
[14]: a * b_repeat
```

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

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

```
[15]: 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

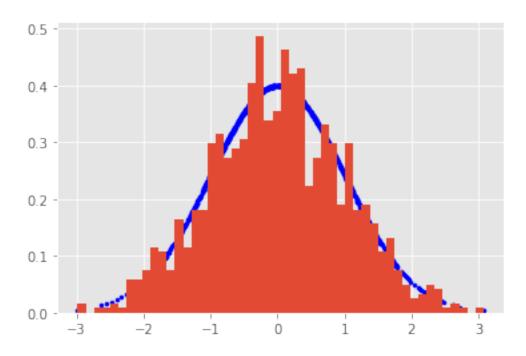
```
[16]: #implementation of Normal distribution
def normal(x, mu, sigma):
    return np.exp( -0.5 * ((x-mu)/sigma)**2)/np.sqrt(2.0*np.pi*sigma**2)

#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.

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

[17]: <matplotlib.collections.PathCollection at 0x21d39eb53a0>



```
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

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

```
[20]: 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)

```
[21]: 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.

```
[22]: 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

```
[23]: 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)

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

```
[25]: #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

```
[26]: #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

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

[27]: 7.464679606069855

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

```
[28]: #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
[29]: | #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)
[30]: cost list=[]
[31]: #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
      \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_)
              weights = weights - learning_rate * dw
              bias = bias - learning_rate * db
              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
      \rightarrow weights
                    pass
         return (weights, bias)
[32]: 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.
       \rightarrowshape [0]
[33]: learning_rate = 0.001
      lambda_{-} = 1.0
      max_iter = 10000
      model = fit(xtrain_normal, ytrain, learning_rate, lambda_, max_iter, verbose=1)_u
       →#keep the verbose on here for your submissions
     Iteration Number: 0
     Loss: 165.08992278766098
     12 norm of gradients: 1.5712841571143472
     12 norm of weights: 6.749898914526341
     _____
     Iteration Number: 1
     Loss: 164.96958129222804
     12 norm of gradients: 1.5706966434456426
     12 norm of weights: 6.749433510757873
```

Iteration Number: 2 Loss: 164.8493290889799

12 norm of gradients: 1.5701090226134353 12 norm of weights: 6.74896845133604

Iteration Number: 3
Loss: 164.7291661691766

12 norm of gradients: 1.5695212957976998 12 norm of weights: 6.748503736038181

Iteration Number: 4
Loss: 164.6090925240257

12 norm of gradients: 1.5689334641718993 12 norm of weights: 6.748039364641625

Iteration Number: 5 Loss: 164.48910814463196

12 norm of gradients: 1.5683455289030148 12 norm of weights: 6.747575336923698

Iteration Number: 6
Loss: 164.36921302180806

12 norm of gradients: 1.5677574911515728 12 norm of weights: 6.747111652661718

Iteration Number: 7 Loss: 164.24940714573742

12 norm of gradients: 1.567169352071679
12 norm of weights: 6.746648311633001

Iteration Number: 8
Loss: 164.12969050669403

12 norm of gradients: 1.5665811128110474
12 norm of weights: 6.746185313614855

Iteration Number: 9
Loss: 164.01006309459927

12 norm of gradients: 1.565992774511037 12 norm of weights: 6.745722658384585

Iteration Number: 10 Loss: 163.8905248989357

12 norm of gradients: 1.5654043383066818 12 norm of weights: 6.745260345719499

Iteration Number: 11
Loss: 163.77107590929776

12 norm of gradients: 1.5648158053267311 12 norm of weights: 6.7447983753969

Iteration Number: 12 Loss: 163.65171611449006

12 norm of gradients: 1.5642271766936815 12 norm of weights: 6.744336747194092

Iteration Number: 13 Loss: 163.53244550359398

12 norm of gradients: 1.563638453523817 12 norm of weights: 6.743875460888381

Iteration Number: 14 Loss: 163.41326406514648

12 norm of gradients: 1.563049636927246 12 norm of weights: 6.743414516257074

Iteration Number: 15 Loss: 163.29417178735827

12 norm of gradients: 1.5624607280079403 12 norm of weights: 6.742953913077481

Iteration Number: 16 Loss: 163.17516865843484

12 norm of gradients: 1.5618717278637757 12 norm of weights: 6.742493651126916

Iteration Number: 17
Loss: 163.05625466623042

12 norm of gradients: 1.5612826375865716 12 norm of weights: 6.7420337301826985

Iteration Number: 18

Loss: 162.93742979803687

12 norm of gradients: 1.5606934582621332 12 norm of weights: 6.741574150022154

Iteration Number: 19
Loss: 162.81869404145257

12 norm of gradients: 1.5601041909702935 12 norm of weights: 6.741114910422614

Iteration Number: 20 Loss: 162.7000473834082

12 norm of gradients: 1.5595148367849556 12 norm of weights: 6.740656011161419

Iteration Number: 21 Loss: 162.581489810618

12 norm of gradients: 1.5589253967741357 12 norm of weights: 6.740197452015916

Iteration Number: 22 Loss: 162.46302130988988

12 norm of gradients: 1.5583358720000084 12 norm of weights: 6.739739232763462

Iteration Number: 23 Loss: 162.3446418675239

12 norm of gradients: 1.5577462635189494 12 norm of weights: 6.739281353181427

Iteration Number: 24 Loss: 162.226351469332

12 norm of gradients: 1.557156572381581 12 norm of weights: 6.738823813047192

Iteration Number: 25 Loss: 162.1081501013587

12 norm of gradients: 1.5565667996328192 12 norm of weights: 6.7383666121381465

Iteration Number: 26
Loss: 161.99003774907868

12 norm of gradients: 1.555976946311917 12 norm of weights: 6.7379097502316965

Iteration Number: 27
Loss: 161.87201439798503

12 norm of gradients: 1.5553870134525123 12 norm of weights: 6.737453227105262

Iteration Number: 28 Loss: 161.7540800330982

12 norm of gradients: 1.5547970020826742 12 norm of weights: 6.7369970425362755

Iteration Number: 29 Loss: 161.63623463927613

12 norm of gradients: 1.5542069132249503 12 norm of weights: 6.7365411963021895

Iteration Number: 30 Loss: 161.51847820119144

12 norm of gradients: 1.553616747896414

12 norm of weights: 6.736085688180468

Iteration Number: 31 Loss: 161.40081070342282

12 norm of gradients: 1.5530265071087113 12 norm of weights: 6.735630517948597

Iteration Number: 32 Loss: 161.2832321298334

12 norm of gradients: 1.5524361918681109 12 norm of weights: 6.735175685384079

Iteration Number: 33 Loss: 161.16574246470014

12 norm of gradients: 1.5518458031755504 12 norm of weights: 6.734721190264436

Iteration Number: 34 Loss: 161.04834169143888

12 norm of gradients: 1.5512553420266861 12 norm of weights: 6.7342670323672085

Iteration Number: 35 Loss: 160.93102979359915

12 norm of gradients: 1.550664809411942 12 norm of weights: 6.733813211469962

Iteration Number: 36 Loss: 160.81380675469694

12 norm of gradients: 1.5500742063165565 12 norm of weights: 6.733359727350279

Iteration Number: 37 Loss: 160.69667255736056

12 norm of gradients: 1.549483533720635 12 norm of weights: 6.732906579785767

Iteration Number: 38

Iteration Number: 38 Loss: 160.5796271847534

12 norm of gradients: 1.548892792599196 12 norm of weights: 6.732453768554058

Iteration Number: 39 Loss: 160.4626706193951

12 norm of gradients: 1.5483019839222238 12 norm of weights: 6.732001293432806

Iteration Number: 40

Loss: 160.34580284343997

12 norm of gradients: 1.5477111086547144 12 norm of weights: 6.731549154199692

Iteration Number: 41 Loss: 160.22902383932086

12 norm of gradients: 1.5471201677567281 12 norm of weights: 6.731097350632423

Iteration Number: 42 Loss: 160.11233358868444

12 norm of gradients: 1.546529162183439 12 norm of weights: 6.730645882508728

Iteration Number: 43 Loss: 159.99573207357665

12 norm of gradients: 1.5459380928851834 12 norm of weights: 6.730194749606371

Iteration Number: 44
Loss: 159.87921927517792

12 norm of gradients: 1.5453469608075114
12 norm of weights: 6.729743951703138

Iteration Number: 45 Loss: 159.7627951749452

12 norm of gradients: 1.5447557668912364 12 norm of weights: 6.729293488576847

Iteration Number: 46 Loss: 159.64645975398778

12 norm of gradients: 1.5441645120724852 12 norm of weights: 6.728843360005346

Iteration Number: 47
Loss: 159.53021299301133

12 norm of gradients: 1.5435731972827478 12 norm of weights: 6.728393565766512

Iteration Number: 48
Loss: 159.41405487270887

12 norm of gradients: 1.542981823448929 12 norm of weights: 6.727944105638256

Iteration Number: 49 Loss: 159.29798537362254

12 norm of gradients: 1.542390391493397 12 norm of weights: 6.727494979398519 _____

Iteration Number: 50 Loss: 159.18200447603593

12 norm of gradients: 1.5417989023340344 12 norm of weights: 6.727046186825276

Iteration Number: 51 Loss: 159.0661121596922

12 norm of gradients: 1.5412073568842892 12 norm of weights: 6.726597727696533

Iteration Number: 52 Loss: 158.95030840460035

12 norm of gradients: 1.5406157560532239 12 norm of weights: 6.726149601790336

Iteration Number: 53 Loss: 158.83459319045713

12 norm of gradients: 1.5400241007455662 12 norm of weights: 6.725701808884763

Iteration Number: 54
Loss: 158.7189664965225

12 norm of gradients: 1.539432391861759 12 norm of weights: 6.725254348757925

Iteration Number: 55 Loss: 158.60342830204382

12 norm of gradients: 1.538840630298012 12 norm of weights: 6.7248072211879775

Iteration Number: 56
Loss: 158.48797858613568

12 norm of gradients: 1.5382488169463493 12 norm of weights: 6.724360425953105

Iteration Number: 57
Loss: 158.3726173274307

12 norm of gradients: 1.5376569526946626 12 norm of weights: 6.723913962831536

Iteration Number: 58 Loss: 158.2573445047843

12 norm of gradients: 1.5370650384267583 12 norm of weights: 6.723467831601536

Iteration Number: 59
Loss: 158.14216009638704

12 norm of gradients: 1.53647307502241 12 norm of weights: 6.723022032041412

Iteration Number: 60 Loss: 158.0270640806605

12 norm of gradients: 1.535881063357407 12 norm of weights: 6.722576563929508

Iteration Number: 61 Loss: 157.9120564354215

12 norm of gradients: 1.5352890043036045 12 norm of weights: 6.7221314270442125

Iteration Number: 62 Loss: 157.79713713874997

12 norm of gradients: 1.5346968987289742 12 norm of weights: 6.721686621163953

Iteration Number: 63
Loss: 157.68230616818164

12 norm of gradients: 1.5341047474976524 12 norm of weights: 6.721242146067203

Iteration Number: 64
Loss: 157.5675635012241

12 norm of gradients: 1.533512551469992 12 norm of weights: 6.7207980015324775

Iteration Number: 65
Loss: 157.45290911507098

12 norm of gradients: 1.5329203115026098 12 norm of weights: 6.720354187338336

Iteration Number: 66
Loss: 157.33834298693617

12 norm of gradients: 1.5323280284484364 12 norm of weights: 6.719910703263382

Iteration Number: 67
Loss: 157.2238650935418

12 norm of gradients: 1.5317357031567673 12 norm of weights: 6.719467549086265

Iteration Number: 68
Loss: 157.10947541171623

12 norm of gradients: 1.531143336473309 12 norm of weights: 6.719024724585682

Iteration Number: 69 Loss: 156.99517391808175

12 norm of gradients: 1.5305509292402308 12 norm of weights: 6.718582229540376

Iteration Number: 70 Loss: 156.88096058878114

12 norm of gradients: 1.5299584822962125 12 norm of weights: 6.718140063729136

Iteration Number: 71
Loss: 156.76683540005627

12 norm of gradients: 1.5293659964764923 12 norm of weights: 6.717698226930802

Iteration Number: 72 Loss: 156.65279832786504

12 norm of gradients: 1.5287734726129176 12 norm of weights: 6.717256718924261

Iteration Number: 73 Loss: 156.53884934816153

12 norm of gradients: 1.5281809115339906 12 norm of weights: 6.716815539488453

Iteration Number: 74
Loss: 156.42498843648198

12 norm of gradients: 1.5275883140649191
12 norm of weights: 6.716374688402364

Iteration Number: 75 Loss: 156.31121556812403

12 norm of gradients: 1.5269956810276615 12 norm of weights: 6.7159341654450335

Iteration Number: 76 Loss: 156.19753071864884

12 norm of gradients: 1.5264030132409776 12 norm of weights: 6.715493970395554

Iteration Number: 77 Loss: 156.0839338629171

12 norm of gradients: 1.5258103115204742 12 norm of weights: 6.715054103033068

Iteration Number: 78
Loss: 155.97042497611227

12 norm of gradients: 1.5252175766786524

12 norm of weights: 6.714614563136772

Iteration Number: 79
Loss: 155.85700403260807

12 norm of gradients: 1.5246248095249555 12 norm of weights: 6.714175350485918

Iteration Number: 80 Loss: 155.7436710074066

12 norm of gradients: 1.524032010865814 12 norm of weights: 6.713736464859809

Iteration Number: 81

Loss: 155.63042587451366

12 norm of gradients: 1.5234391815046946 12 norm of weights: 6.713297906037808

Iteration Number: 82 Loss: 155.51726860860754

12 norm of gradients: 1.5228463222421427 12 norm of weights: 6.712859673799331

Iteration Number: 83 Loss: 155.40419918328695

12 norm of gradients: 1.5222534338758313 12 norm of weights: 6.712421767923849

Iteration Number: 84 Loss: 155.29121757285998

12 norm of gradients: 1.5216605172006052 12 norm of weights: 6.711984188190894

Iteration Number: 85 Loss: 155.1783237507417

12 norm of gradients: 1.5210675730085241 12 norm of weights: 6.711546934380054

Iteration Number: 86 Loss: 155.06551769075284

12 norm of gradients: 1.5204746020889104 12 norm of weights: 6.711110006270974

Iteration Number: 87
Loss: 154.95279936626457

12 norm of gradients: 1.5198816052283903 12 norm of weights: 6.710673403643361

Iteration Number: 88

Loss: 154.84016875044284

12 norm of gradients: 1.5192885832109397 12 norm of weights: 6.710237126276981

Iteration Number: 89 Loss: 154.72762581630093

12 norm of gradients: 1.5186955368179251 12 norm of weights: 6.709801173951661

Iteration Number: 90
Loss: 154.61517053687675

12 norm of gradients: 1.518102466828149 12 norm of weights: 6.709365546447288

Iteration Number: 91 Loss: 154.5028028849822

12 norm of gradients: 1.5175093740178895 12 norm of weights: 6.70893024354381

Iteration Number: 92 Loss: 154.39052283306305

12 norm of gradients: 1.516916259160943 12 norm of weights: 6.708495265021241

Iteration Number: 93 Loss: 154.27833035355707

12 norm of gradients: 1.5163231230286642 12 norm of weights: 6.708060610659655

Iteration Number: 94
Loss: 154.16622541892693

12 norm of gradients: 1.5157299663900086 12 norm of weights: 6.707626280239191

Iteration Number: 95
Loss: 154.05420800114223

12 norm of gradients: 1.515136790011569 12 norm of weights: 6.707192273540053

Iteration Number: 96
Loss: 153.94227807236902

12 norm of gradients: 1.5145435946576176 12 norm of weights: 6.706758590342511

Iteration Number: 97 Loss: 153.8304356040997

12 norm of gradients: 1.5139503810901418 12 norm of weights: 6.706325230426897 _____

Iteration Number: 98 Loss: 153.71868056830277

12 norm of gradients: 1.5133571500688832 12 norm of weights: 6.705892193573613

Iteration Number: 99
Loss: 153.60701293625243

12 norm of gradients: 1.512763902351373 12 norm of weights: 6.705459479563127

Iteration Number: 100 Loss: 153.49543267942067

12 norm of gradients: 1.51217063869297 12 norm of weights: 6.7050270881759735

Iteration Number: 101
Loss: 153.38393976904862

12 norm of gradients: 1.5115773598468942 12 norm of weights: 6.70459501919276

Iteration Number: 102 Loss: 153.27253417613974

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Loss: 79.01419411953067

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Iteration Number: 1140 Loss: 78.97543657806202

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Iteration Number: 1141 Loss: 78.93672382611804

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Iteration Number: 1142

Loss: 78.89805581477167

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Iteration Number: 1144

Loss: 78.82085381740838

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Iteration Number: 1146 Loss: 78.74383019322946

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Iteration Number: 1147 Loss: 78.70538514850706

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Iteration Number: 1148 Loss: 78.66698454995988

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Iteration Number: 1149 Loss: 78.62862834856827

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Loss: 78.55204894135565

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Loss: 78.47564653490099

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Loss: 77.02061752853916

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Iteration Number: 1499 Loss: 67.58669945040593 12 norm of gradients: 0.723727538699285 12 norm of weights: 6.323241218526761

Iteration Number: 1500 Loss: 67.56101853293768

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Iteration Number: 1621 Loss: 64.65193695138036

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Loss: 64.62944002225184

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Iteration Number: 2003 Loss: 57.50405841718877

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Iteration Number: 2004 Loss: 57.48848977427689

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Iteration Number: 2005

Loss: 57.472934601868495

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Iteration Number: 2006 Loss: 57.457392880905736

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Iteration Number: 2007

Loss: 57.44186459239839

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Loss: 57.426349717440765

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Iteration Number: 2009 Loss: 57.41084823706299

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Iteration Number: 2010 Loss: 57.39536013238373

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Iteration Number: 2011 Loss: 57.37988538459313

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Iteration Number: 2013 Loss: 57.34897588446955

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Iteration Number: 2015 Loss: 57.31811958672582

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Iteration Number: 2016
Loss: 57.30271134201897

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Iteration Number: 2020 Loss: 57.24121062361308

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Iteration Number: 2022 Loss: 57.21053936140977

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Iteration Number: 2024
Loss: 57.17992063385997

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Iteration Number: 2025 Loss: 57.164630924670725

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Iteration Number: 2026 Loss: 57.149354294190175

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Iteration Number: 2027 Loss: 57.1340907240841 12 norm of gradients: 0.5561085580364589 12 norm of weights: 6.240374951123378

Iteration Number: 2028 Loss: 57.118840196156164

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Iteration Number: 2100

Loss: 56.05393834484445

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Iteration Number: 2101 Loss: 56.03959302342383

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Iteration Number: 2102 Loss: 56.02525949091763

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Iteration Number: 2103 Loss: 56.01093773161604

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Loss: 55.99662772988228

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Theoretical Numbers 2410

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Iteration Number: 2516 Loss: 50.94876555355104

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Iteration Number: 2517 Loss: 50.938264933842504

12 norm of gradients: 0.4602886636055569 12 norm of weights: 6.174614599734121

Iteration Number: 2518 Loss: 50.92777156310841

12 norm of gradients: 0.46012790642669205 12 norm of weights: 6.174488478721211

Iteration Number: 2519 Loss: 50.917285433901846

12 norm of gradients: 0.45996725956980106 12 norm of weights: 6.17436238674385

Iteration Number: 2520 Loss: 50.90680653873275

12 norm of gradients: 0.45980672289924845 12 norm of weights: 6.174236323781291

Iteration Number: 2521 Loss: 50.89633487019536

12 norm of gradients: 0.4596462962797894 12 norm of weights: 6.1741102898128135

Iteration Number: 2522 Loss: 50.88587042086902

12 norm of gradients: 0.4594859795765692 12 norm of weights: 6.173984284817712

Iteration Number: 2523 Loss: 50.875413183274965

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Iteration Number: 2524 Loss: 50.86496315002157

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Iteration Number: 2525 Loss: 50.854520313705756

12 norm of gradients: 0.45900568762162053 12 norm of weights: 6.173606443465918

Iteration Number: 2526 Loss: 50.84408466695846

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12 norm of weights: 6.173480554157669

Iteration Number: 2527 Loss: 50.83365620240821

12 norm of gradients: 0.458686040111306 12 norm of weights: 6.173354693719567

Iteration Number: 2528 Loss: 50.82323491263966

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Iteration Number: 2529 Loss: 50.81282079032643

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Iteration Number: 2530 Loss: 50.802413828100676

12 norm of gradients: 0.45820738688078394 12 norm of weights: 6.172977285420345

Iteration Number: 2531 Loss: 50.7920140186756

12 norm of gradients: 0.4580480534191479 12 norm of weights: 6.172851540257131

Iteration Number: 2532 Loss: 50.781621354665596

12 norm of gradients: 0.4578888285464593 12 norm of weights: 6.172725823861311

Iteration Number: 2533 Loss: 50.77123582877743

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Iteration Number: 2534 Loss: 50.76085743374509

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Iteration Number: 2535 Loss: 50.75048616225821

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Iteration Number: 2536

Loss: 50.74012200698445

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Iteration Number: 2537 Loss: 50.72976496072388

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Iteration Number: 2538 Loss: 50.71941501616917

12 norm of gradients: 0.45693575238999107 12 norm of weights: 6.171972128455386

Iteration Number: 2539
Loss: 50.709072166068445

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Iteration Number: 2540 Loss: 50.698736403261485

12 norm of gradients: 0.4566189231721068 12 norm of weights: 6.171721125865748

Iteration Number: 2541 Loss: 50.6884077204036

12 norm of gradients: 0.4564606697674174 12 norm of weights: 6.171595667456554

Iteration Number: 2542 Loss: 50.67808611036022

12 norm of gradients: 0.4563025236624642 12 norm of weights: 6.171470237610672

Iteration Number: 2543 Loss: 50.66777156589123

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Iteration Number: 2544 Loss: 50.657464079821864

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Iteration Number: 2545 Loss: 50.64716364494203

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Iteration Number: 2546 Loss: 50.63687025405977

12 norm of gradients: 0.45567100970841357 12 norm of weights: 6.170968803454444

Iteration Number: 2547
Loss: 50.62658390007132

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Iteration Number: 2548 Loss: 50.61630457578858

12 norm of gradients: 0.45535589324910153 12 norm of weights: 6.170718257229158

Iteration Number: 2549 Loss: 50.60603227403624

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Iteration Number: 2550 Loss: 50.595766987726186

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Iteration Number: 2551 Loss: 50.58550870971475

12 norm of gradients: 0.4548840163966393 12 norm of weights: 6.170342651002596

Iteration Number: 2552 Loss: 50.57525743288362

12 norm of gradients: 0.45472693637288675 12 norm of weights: 6.170217505676128

Iteration Number: 2553 Loss: 50.565013150183766

12 norm of gradients: 0.4545699622737329 12 norm of weights: 6.170092388690638

Iteration Number: 2554 Loss: 50.554775854435576

12 norm of gradients: 0.45441309397636187 12 norm of weights: 6.169967300026025

Iteration Number: 2555 Loss: 50.5445455386058 12 norm of gradients: 0.45425633135832033 12 norm of weights: 6.169842239662205

Iteration Number: 2556 Loss: 50.53432219559023

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Iteration Number: 2557
Loss: 50.524105818414206

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Iteration Number: 2558 Loss: 50.5138963998999

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Iteration Number: 2559 Loss: 50.5036939330905

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Iteration Number: 2560 Loss: 50.49349841095495

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Iteration Number: 2561
Loss: 50.483309826427174

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Iteration Number: 2562 Loss: 50.473128172534146

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Iteration Number: 2563 Loss: 50.462953442231075

12 norm of gradients: 0.4530060202943894 12 norm of weights: 6.1688427731762365

Iteration Number: 2564 Loss: 50.45278562855631

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Iteration Number: 2565 Loss: 50.44262472453715

12 norm of gradients: 0.452694490858753 12 norm of weights: 6.168593188162362

Iteration Number: 2566 Loss: 50.432470723190214

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Iteration Number: 2567 Loss: 50.42232361755005

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Iteration Number: 2568 Loss: 50.412183400657455

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Iteration Number: 2569
Loss: 50.402050065608826

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Iteration Number: 2570 Loss: 50.391923605421184

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Iteration Number: 2571 Loss: 50.381804013214456

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Iteration Number: 2572 Loss: 50.37169128202954

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Iteration Number: 2573 Loss: 50.36158540502559

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Iteration Number: 2574 Loss: 50.35148637526935

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12 norm of weights: 6.167471443322643

Iteration Number: 2575 Loss: 50.34139418585988

12 norm of gradients: 0.451143086251992 12 norm of weights: 6.167346944785156

Iteration Number: 2576 Loss: 50.331308829957436

12 norm of gradients: 0.45098851524602335 12 norm of weights: 6.167222474130895

Iteration Number: 2577 Loss: 50.321230300679595

12 norm of gradients: 0.45083404731538856 12 norm of weights: 6.16709803134017

Iteration Number: 2578 Loss: 50.311158591190264

12 norm of gradients: 0.4506796823457352 12 norm of weights: 6.166973616393312

Iteration Number: 2579

Loss: 50.30109369464658

12 norm of gradients: 0.4505254202230525 12 norm of weights: 6.16684922927067

Iteration Number: 2580 Loss: 50.291035604203095

12 norm of gradients: 0.45037126083367085 12 norm of weights: 6.166724869952607

Iteration Number: 2581

Loss: 50.280984313006726

12 norm of gradients: 0.45021720406426097 12 norm of weights: 6.166600538419508

Iteration Number: 2582 Loss: 50.270939814290365

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Iteration Number: 2583

Loss: 50.26090210122032

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Iteration Number: 2584

Loss: 50.25087116698784

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Iteration Number: 2585 Loss: 50.24084700484182

12 norm of gradients: 0.4496020009316051 12 norm of weights: 6.166103489745012

Iteration Number: 2586 Loss: 50.23082960798898

12 norm of gradients: 0.4494484555739558 12 norm of weights: 6.165979296843085

Iteration Number: 2587 Loss: 50.220818969636504

12 norm of gradients: 0.4492950121633955 12 norm of weights: 6.165855131608786

Iteration Number: 2588 Loss: 50.21081508307436

12 norm of gradients: 0.44914167058895155 12 norm of weights: 6.165730994022621

Iteration Number: 2589 Loss: 50.200817941494215

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Iteration Number: 2590 Loss: 50.19082753818766

12 norm of gradients: 0.4488352925061858 12 norm of weights: 6.165482801716798

Iteration Number: 2591 Loss: 50.180843866447276

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Iteration Number: 2592 Loss: 50.170866919518616

12 norm of gradients: 0.4485293204445229 12 norm of weights: 6.165234719770005

Iteration Number: 2593 Loss: 50.160896690681824

12 norm of gradients: 0.4483764863976971 12 norm of weights: 6.165110720132693

Iteration Number: 2594 Loss: 50.1509331732362

12 norm of gradients: 0.4482237535281161 12 norm of weights: 6.1649867480269105

Iteration Number: 2595 Loss: 50.14097636053593

12 norm of gradients: 0.44807112172712066 12 norm of weights: 6.164862803433282

Iteration Number: 2596
Loss: 50.131026245841454

12 norm of gradients: 0.44791859088637875 12 norm of weights: 6.1647388863324535

Iteration Number: 2597 Loss: 50.12108282248787

12 norm of gradients: 0.4477661608978846 12 norm of weights: 6.164614996705084

Iteration Number: 2598 Loss: 50.111146083820046

12 norm of gradients: 0.4476138316539573 12 norm of weights: 6.164491134531852

Iteration Number: 2599 Loss: 50.101216023169854

12 norm of gradients: 0.44746160304724053 12 norm of weights: 6.164367299793454

Iteration Number: 2600 Loss: 50.091292633912694

12 norm of gradients: 0.44730947497070167 12 norm of weights: 6.164243492470599

Iteration Number: 2601 Loss: 50.08137590938221

12 norm of gradients: 0.44715744731763046 12 norm of weights: 6.164119712544019

Iteration Number: 2602 Loss: 50.071465842969346

12 norm of gradients: 0.4470055199816385 12 norm of weights: 6.163995959994459

Iteration Number: 2603 Loss: 50.06156242801839 12 norm of gradients: 0.4468536928566583 12 norm of weights: 6.163872234802683

Iteration Number: 2604 Loss: 50.05166565797936

 $12\ \mathtt{norm}\ \mathtt{of}\ \mathtt{gradients}\colon\ \mathtt{0.44670196583694244}$

12 norm of weights: 6.16374853694947

Iteration Number: 2605 Loss: 50.041775526177574

12 norm of gradients: 0.44655033881706224 12 norm of weights: 6.163624866415618

Iteration Number: 2606 Loss: 50.03189202605088

12 norm of gradients: 0.4463988116919078 12 norm of weights: 6.163501223181942

Iteration Number: 2607 Loss: 50.02201515106461

12 norm of gradients: 0.44624738435668587 12 norm of weights: 6.163377607229272

Iteration Number: 2608 Loss: 50.012144894555654

12 norm of gradients: 0.4460960567069203 12 norm of weights: 6.163254018538457

Iteration Number: 2609 Loss: 50.00228124997772

12 norm of gradients: 0.44594482863845014 12 norm of weights: 6.163130457090362

Iteration Number: 2610 Loss: 49.992424210828744

12 norm of gradients: 0.44579370004742924 12 norm of weights: 6.163006922865868

Iteration Number: 2611 Loss: 49.982573770526564

12 norm of gradients: 0.4456426708303253 12 norm of weights: 6.162883415845875

Iteration Number: 2612 Loss: 49.97272992249816

12 norm of gradients: 0.4454917408839188 12 norm of weights: 6.162759936011297

Iteration Number: 2613 Loss: 49.962892660233095

12 norm of gradients: 0.4453409101053025 12 norm of weights: 6.162636483343068

Iteration Number: 2614 Loss: 49.95306197724037

12 norm of gradients: 0.4451901783918801 12 norm of weights: 6.162513057822135

Iteration Number: 2615 Loss: 49.94323786697022

12 norm of gradients: 0.44503954564136555 12 norm of weights: 6.162389659429466

Iteration Number: 2616 Loss: 49.93342032291017

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Iteration Number: 2617 Loss: 49.923609338617396

12 norm of gradients: 0.44473857662146227 12 norm of weights: 6.162142943952864

Iteration Number: 2618 Loss: 49.913804907518596

12 norm of gradients: 0.4445882401490451 12 norm of weights: 6.162019626830946

Iteration Number: 2619 Loss: 49.90400702324151

12 norm of gradients: 0.44443800223347674 12 norm of weights: 6.161896336761322

Iteration Number: 2620

Loss: 49.894215679198744

12 norm of gradients: 0.44428786277400956 12 norm of weights: 6.161773073725041

Iteration Number: 2621 Loss: 49.884430869037324

12 norm of gradients: 0.44413782167020066 12 norm of weights: 6.161649837703169

Iteration Number: 2622 Loss: 49.87465258622011

12 norm of gradients: 0.44398787882191065

12 norm of weights: 6.161526628676788

Iteration Number: 2623 Loss: 49.86488082434731

12 norm of gradients: 0.4438380341293045 12 norm of weights: 6.161403446626998

Iteration Number: 2624 Loss: 49.8551155769569

12 norm of gradients: 0.4436882874928483 12 norm of weights: 6.161280291534913

Iteration Number: 2625 Loss: 49.845356837666806

12 norm of gradients: 0.44353863881331 12 norm of weights: 6.1611571633816675

Iteration Number: 2626

Loss: 49.835604599979085

12 norm of gradients: 0.44338908799175847 12 norm of weights: 6.161034062148409

Iteration Number: 2627 Loss: 49.82585885758739

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Iteration Number: 2629 Loss: 49.80638683285259

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Iteration Number: 2630

Iteration Number: 2630 Loss: 49.796660537780625

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Iteration Number: 2631 Loss: 49.78694071240308

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12 norm of weights: 6.1604189591232785

Iteration Number: 2632

Loss: 49.77722735032343

12 norm of gradients: 0.4424938325776445 12 norm of weights: 6.160296019014988

Iteration Number: 2633 Loss: 49.76752044519864

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Iteration Number: 2634 Loss: 49.75781999066039

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Iteration Number: 2635 Loss: 49.74812598042973

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Iteration Number: 2636 Loss: 49.7384384080658

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Iteration Number: 2637 Loss: 49.72875726734742

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Iteration Number: 2638 Loss: 49.719082551867835

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Iteration Number: 2639 Loss: 49.70941425539675

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Iteration Number: 2640 Loss: 49.69975237157872

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Iteration Number: 2641 Loss: 49.690096894165485

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Iteration Number: 2642 Loss: 49.680447816805

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Iteration Number: 2643 Loss: 49.670805133281696

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Iteration Number: 2644 Loss: 49.661168837282716

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Iteration Number: 2645 Loss: 49.65153892258283

12 norm of gradients: 0.4405660859892793 12 norm of weights: 6.158700228561898

Iteration Number: 2646 Loss: 49.641915382943914

12 norm of gradients: 0.44041847200678874 12 norm of weights: 6.158577661794854

Iteration Number: 2647 Loss: 49.63229821204371

12 norm of gradients: 0.44027095387257215 12 norm of weights: 6.158455121555697

Iteration Number: 2648
Loss: 49.622687403717265

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Iteration Number: 2649
Loss: 49.613082951712435

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Iteration Number: 2650 Loss: 49.603484849826756

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Iteration Number: 2651 Loss: 49.5938930917949 12 norm of gradients: 0.43968183797175303 12 norm of weights: 6.15796522550832

Iteration Number: 2652 Loss: 49.58430767148935

12 norm of gradients: 0.43953479769632864 12 norm of weights: 6.157842817631523

Iteration Number: 2653 Loss: 49.574728582652654

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Iteration Number: 2654 Loss: 49.56515581912147

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Iteration Number: 2655 Loss: 49.55558937471546

12 norm of gradients: 0.4390942482899702 12 norm of weights: 6.157475752430571

Iteration Number: 2656 Loss: 49.54602924325212

12 norm of gradients: 0.43894758865914757 12 norm of weights: 6.157353450112128

Iteration Number: 2657 Loss: 49.53647541857132

12 norm of gradients: 0.43880102396365356 12 norm of weights: 6.157231174137362

Iteration Number: 2658 Loss: 49.526927894566356

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Iteration Number: 2659 Loss: 49.517386664996764

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Iteration Number: 2660 Loss: 49.50785172377533

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Iteration Number: 2661 Loss: 49.49832306474557

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Iteration Number: 2662 Loss: 49.48880068184789

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Iteration Number: 2663 Loss: 49.479284568864806

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Iteration Number: 2664 Loss: 49.46977471975384

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Iteration Number: 2665 Loss: 49.460271128403924

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Iteration Number: 2666 Loss: 49.45077378872849

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Iteration Number: 2667 Loss: 49.44128269459612

12 norm of gradients: 0.43734057883311545 12 norm of weights: 6.156009859266276

Iteration Number: 2668

Loss: 49.43179783996594 12 norm of gradients: 0.43719505255980406

12 norm of weights: 6.155887871865399

Iteration Number: 2669 Loss: 49.42231921878194

12 norm of gradients: 0.4370496201621362 12 norm of weights: 6.155765910589239

Iteration Number: 2670 Loss: 49.412846824924685

12 norm of gradients: 0.436904281553526

12 norm of weights: 6.155643975419649

Iteration Number: 2671 Loss: 49.403380652387355

12 norm of gradients: 0.4367590366476484

12 norm of weights: 6.1555220663385

Iteration Number: 2672 Loss: 49.39392069510044

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Iteration Number: 2673 Loss: 49.38446694706293

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_____ Iteration Number: 2674 Loss: 49.3750194021649

12 norm of gradients: 0.4363238632870542 12 norm of weights: 6.155156495444652

Iteration Number: 2675 Loss: 49.36557805445415

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_____ Iteration Number: 2676 Loss: 49.35614289788662

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Iteration Number: 2677 Loss: 49.346713926441076

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Iteration Number: 2678 Loss: 49.33729113412456

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Iteration Number: 2679 Loss: 49.32787451495101

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_____ Iteration Number: 2680 Loss: 49.31846406292753

12 norm of gradients: 0.4354560350020286 12 norm of weights: 6.154426055604519

Iteration Number: 2681 Loss: 49.30905977205259

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Iteration Number: 2682 Loss: 49.29966163638812

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Iteration Number: 2683 Loss: 49.290269649954524

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Iteration Number: 2684 Loss: 49.2808838067776

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Iteration Number: 2685 Loss: 49.271504100944064

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Ttomation Numbers 2270

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Loss: 41.19921014777415

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Iteration Number: 4056 Loss: 40.34492991481511

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Iteration Number: 4057
Loss: 40.340328636796954

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Iteration Number: 4058 Loss: 40.335729172074856

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Iteration Number: 4059 Loss: 40.331131519267316

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Iteration Number: 4060 Loss: 40.326535676955636

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Iteration Number: 4061 Loss: 40.32194164372983

12 norm of gradients: 0.3029313462261873 12 norm of weights: 6.005179673999574

Iteration Number: 4062 Loss: 40.31734941818937

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12 norm of weights: 6.005082074108703

Iteration Number: 4063 Loss: 40.3127589989447

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Iteration Number: 4064 Loss: 40.30817038456958

12 norm of gradients: 0.3027510309400271 12 norm of weights: 6.004886910234667

Iteration Number: 4065 Loss: 40.30358357367362

12 norm of gradients: 0.3026909965396297 12 norm of weights: 6.004789346242034

Iteration Number: 4066

Loss: 40.29899856486363

12 norm of gradients: 0.3026309974371099 12 norm of weights: 6.00469179420602

Iteration Number: 4067 Loss: 40.2944153567349

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Iteration Number: 4068 Loss: 40.28983394790582

12 norm of gradients: 0.3025111050067889 12 norm of weights: 6.004496725984963

Iteration Number: 4069 Loss: 40.2852543369658

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Iteration Number: 4070 Loss: 40.28067652252033

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Iteration Number: 4071

Loss: 40.27610050319791

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Iteration Number: 4072

Loss: 40.271526277590155

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Iteration Number: 4073 Loss: 40.26695384431948

12 norm of gradients: 0.302211989565336 12 norm of weights: 6.004009264343087

Iteration Number: 4074 Loss: 40.26238320198917

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Iteration Number: 4075 Loss: 40.25781434921996

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Iteration Number: 4076 Loss: 40.25324728463076

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Iteration Number: 4077 Loss: 40.248682006834585

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Iteration Number: 4078 Loss: 40.24411851444886

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Iteration Number: 4079 Loss: 40.23955680610686

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Iteration Number: 4080 Loss: 40.23499688041199

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Iteration Number: 4082 Loss: 40.225882371490975

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Iteration Number: 4085 Loss: 40.21222394366937

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Iteration Number: 4086 Loss: 40.207674685061356

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Iteration Number: 4087 Loss: 40.20312719949699

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Iteration Number: 4088 Loss: 40.19858148563098

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Iteration Number: 4090 Loss: 40.18949536748596

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Iteration Number: 4092 Loss: 40.180416319707035

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Iteration Number: 4093 Loss: 40.1758794438232

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Iteration Number: 4094 Loss: 40.171344331444935

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Iteration Number: 4095 Loss: 40.16681098123723

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Iteration Number: 4096
Loss: 40.16227939182081

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Iteration Number: 4097 Loss: 40.15774956187641

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Iteration Number: 4098 Loss: 40.15322149002008

12 norm of gradients: 0.300729486605054 12 norm of weights: 6.001576414086329

Iteration Number: 4099 Loss: 40.14869517491996

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Iteration Number: 4100 Loss: 40.14417061521616

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Iteration Number: 4101 Loss: 40.139647809579245

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Iteration Number: 4102 Loss: 40.13512675664047

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Iteration Number: 4110 Loss: 40.09902126959091

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Iteration Number: 4111 Loss: 40.094515930682746

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Loss: 40.072015299455046

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Loss: 39.88470421954627

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Iteration Number: 4161

Iteration Number: 4161 Loss: 39.87143926510688

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Iteration Number: 4162 Loss: 39.86702096428161

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Iteration Number: 4163 Loss: 39.86260433671263

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Loss: 39.85818938108891

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Loss: 39.84054625317343

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Iteration Number: 4169 Loss: 39.836139638544815

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Iteration Number: 4170 Loss: 39.83173468834008

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Iteration Number: 4171
Loss: 39.82733140133555

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Iteration Number: 4172 Loss: 39.82292977625201

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Iteration Number: 4173 Loss: 39.818529811849025

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Loss: 39.814131506883406

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Iteration Number: 4175 Loss: 39.80973486011319

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Iteration Number: 4176 Loss: 39.80533987027029

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Iteration Number: 4177 Loss: 39.800946536150825

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Iteration Number: 4181 Loss: 39.78338973179478

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Loss: 39.770239452638826

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Iteration Number: 4187 Loss: 39.75710398566589 12 norm of gradients: 0.2956228559951348 12 norm of weights: 5.992974858591849

The rest is a Name of the A400

Iteration Number: 4188 Loss: 39.75272878253705

12 norm of gradients: 0.2955669472776034 12 norm of weights: 5.99287873109063

Iteration Number: 4189 Loss: 39.74835522027297

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Iteration Number: 4190 Loss: 39.743983297664016

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Iteration Number: 4192 Loss: 39.73524436650358

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Iteration Number: 4193 Loss: 39.73087735551514

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Iteration Number: 4194 Loss: 39.72651197926486

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Iteration Number: 4195 Loss: 39.722148236562276

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Iteration Number: 4196 Loss: 39.71778612616595

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Iteration Number: 4197 Loss: 39.7134256468823

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Iteration Number: 4198 Loss: 39.709066797476694

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Iteration Number: 4200 Loss: 39.70035398345197

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Iteration Number: 4201 Loss: 39.6960000164149

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Iteration Number: 4202 Loss: 39.69164767441113

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Iteration Number: 4203 Loss: 39.68729695621811

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Iteration Number: 4204 Loss: 39.68294786063605

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Iteration Number: 4205 Loss: 39.67860038645752

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Iteration Number: 4206 Loss: 39.67425453248938

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Iteration Number: 4207 Loss: 39.669910297493836

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Iteration Number: 4208 Loss: 39.66556768029357

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Iteration Number: 4209 Loss: 39.661226679684184

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Iteration Number: 4210 Loss: 39.656887294457675

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Iteration Number: 4211 Loss: 39.652549523421314

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12 norm of weights: 5.990670938272712

Iteration Number: 4212 Loss: 39.648213365352774

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Iteration Number: 4213

Loss: 39.64387881908733

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Iteration Number: 4214

Loss: 39.63954588340726

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Iteration Number: 4215

Loss: 39.63521455712184

12 norm of gradients: 0.29406935122844463 12 norm of weights: 5.99028758648618

Iteration Number: 4216

Loss: 39.63088483904833

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Iteration Number: 4217 Loss: 39.6265567279724

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Iteration Number: 4218 Loss: 39.622230222721655

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Iteration Number: 4219 Loss: 39.61790532210023

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Iteration Number: 4220 Loss: 39.61358202491971

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Iteration Number: 4221 Loss: 39.60926032999402

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Theoretical Numbers, 5020

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Loss: 36.38628716440571

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Loss: 34.32009491610208

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Theoretical Numbers 6100

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Loss: 33.003991807125416

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The rest of the New March 2000

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Loss: 31.45540233296865

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736

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Loss: 28.584343291103192

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Loss: 28.57941719216796

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Iteration Number: 9843 Loss: 26.56826028996091

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Iteration Number: 9844 Loss: 26.566917426769006

12 norm of gradients: 0.16359760538355395 12 norm of weights: 5.569673982790154

Iteration Number: 9845 Loss: 26.565574751044107

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Iteration Number: 9846 Loss: 26.56423226274266

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Iteration Number: 9847 Loss: 26.56288996182316

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Iteration Number: 9848 Loss: 26.56154784824705

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Iteration Number: 9851
Loss: 26.557522631151613

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Iteration Number: 9852

Loss: 26.55618126652888

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Iteration Number: 9853 Loss: 26.55484008904075

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Iteration Number: 9855 Loss: 26.5521582953065

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Iteration Number: 9856 Loss: 26.55081767897949

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Iteration Number: 9857 Loss: 26.549477249621642

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Iteration Number: 9858 Loss: 26.548137007194974

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Iteration Number: 9859 Loss: 26.546796951654688

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Iteration Number: 9867 Loss: 26.53608323040946

12 norm of gradients: 0.16333440726804338 12 norm of weights: 5.568304444337804

Iteration Number: 9868 Loss: 26.53474485502169

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Iteration Number: 9870 Loss: 26.53206866364095

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Iteration Number: 9871 Loss: 26.530730847566645

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Iteration Number: 9874

Loss: 26.526718517310115

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Loss: 26.524044561705907

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Loss: 26.51869888398529

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Iteration Number: 9884 Loss: 26.513356182071174

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Iteration Number: 9886 Loss: 26.5106859462277

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Iteration Number: 9890 Loss: 26.505347703133374

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Iteration Number: 9891 Loss: 26.504013606414453

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Iteration Number: 9893 Loss: 26.501345969553974

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Iteration Number: 9894 Loss: 26.500012429332404

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Iteration Number: 9898 Loss: 26.494680122220785

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Iteration Number: 9900 Loss: 26.49201508036133

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Iteration Number: 9905 Loss: 26.48535571556578

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Iteration Number: 9909 Loss: 26.48003155347351

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Iteration Number: 9914 Loss: 26.473380508795003

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Iteration Number: 9916

Loss: 26.470721383467573 12 norm of gradients: 0.1627766629227414

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Iteration Number: 9928

Loss: 26.454782120587673

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Iteration Number: 9931 Loss: 26.450801448602167

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Iteration Number: 9933 Loss: 26.4481485869698

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Iteration Number: 9935 Loss: 26.44549646071764

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Iteration Number: 9936 Loss: 26.44417067325845

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Iteration Number: 9937 Loss: 26.44284506952298

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Iteration Number: 9938 Loss: 26.441519649473463

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Iteration Number: 9939 Loss: 26.44019441306598

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Iteration Number: 9941 Loss: 26.437544491029957

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Iteration Number: 9943 Loss: 26.4348953030899

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Iteration Number: 9944 Loss: 26.43357098430776

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Iteration Number: 9945 Loss: 26.43224684892925

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Iteration Number: 9946 Loss: 26.4309228969163

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Loss: 26.429599128228187

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Iteration Number: 9948 Loss: 26.428275542825244

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Loss: 26.42695214066804

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Iteration Number: 9951 Loss: 26.424305885927165

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Loss: 26.422983033263712

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Iteration Number: 9959 Loss: 26.413728188798338

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Iteration Number: 9962 Loss: 26.409764569788166

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Iteration Number: 9973 Loss: 26.39524535891391

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Loss: 26.39260787321266

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Iteration Number: 9976

Loss: 26.39128940364231

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Iteration Number: 9977 Loss: 26.389971116205118

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Iteration Number: 9980 Loss: 26.38601734629882

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Iteration Number: 9981 Loss: 26.384699787000976

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Iteration Number: 9984 Loss: 26.380748200565467

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Iteration Number: 9985 Loss: 26.37943136877489

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Iteration Number: 9986 Loss: 26.37811471876197

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Iteration Number: 9987 Loss: 26.376798250488843

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Iteration Number: 9988 Loss: 26.37548196391586

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Iteration Number: 9989 Loss: 26.374165859002968

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Iteration Number: 9992 Loss: 26.37021863383227

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Iteration Number: 9993 Loss: 26.368903255167176

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Iteration Number: 9994 Loss: 26.36758805796518

12 norm of gradients: 0.16189708292188593 12 norm of weights: 5.5607804594894485

Iteration Number: 9995 Loss: 26.366273042188276

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12 norm of gradients: 0.16188587133657725
     12 norm of weights: 5.560721470977307
     _____
     Iteration Number: 9996
     Loss: 26.364958207796427
     12 norm of gradients: 0.1618746613867424
     12 norm of weights: 5.5606624864363825
     _____
     Iteration Number: 9997
     Loss: 26.363643554750873
     12 norm of gradients: 0.1618634530719282
     12 norm of weights: 5.560603505866201
     _____
     Iteration Number: 9998
     Loss: 26.362329083010465
     12 norm of gradients: 0.16185224639168153
     12 norm of weights: 5.560544529266292
     Iteration Number: 9999
     Loss: 26.36101479253773
     12 norm of gradients: 0.16184104134554933
     12 norm of weights: 5.560485556636186
     _____
[34]: print("Train accuracy: ", accuracy(xtrain_normal, ytrain, model))
     Train accuracy: 0.8307692307692308
[35]: #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 0.9280719280719281
     0.01 2 0.922077922077922
     0.01 1 0.9250749250749251
     0.01 0.1 0.9270729270729271
     0.01 0.01 0.9180819180819181
     0.001 5 0.8111888111888111
     0.001 2 0.8231768231768232
```

```
0.001 1 0.8221778221778222

0.001 0.1 0.8251748251748252

0.001 0.01 0.8331668331668332

0.0001 5 0.6823176823176823

0.0001 2 0.7612387612387612

0.0001 1 0.46053946053946054

0.0001 0.1 0.7462537462537463

0.0001 0.01 0.7412587412587412

1e-05 5 0.5894105894

1e-05 2 0.5724275724275725

1e-05 1 0.4965034965034965

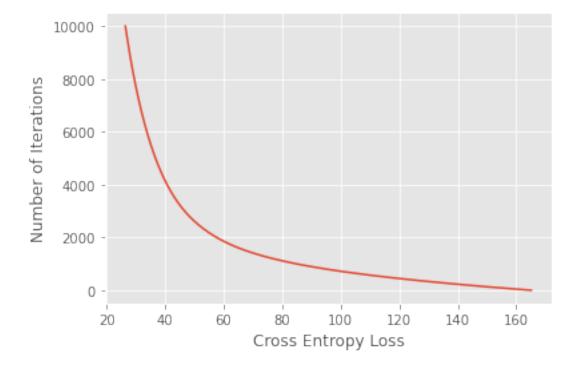
1e-05 0.1 0.5634365634365635

1e-05 0.01 0.4565434565434565
```

[36]: print("Test accuracy: ", accuracy(xtest_normal, ytest, best_model))

Test accuracy: 0.941

```
[37]: 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()
```



[]: