

CS 795 Assignment 4 - ADAM Optimizer

April 7, 2022

```
[1]: import torch
```

```
[2]: # Device configuration
device = torch.device('cuda' if torch.cuda.is_available() else 'cpu')
device
```

```
[2]: device(type='cuda')
```

```
[3]: from torchvision import datasets
from torchvision.transforms import ToTensor
train_data = datasets.MNIST(
    root = 'data',
    train = True,
    transform = ToTensor(),
    download = True,
)
test_data = datasets.MNIST(
    root = 'data',
    train = False,
    transform = ToTensor()
)
```

```
[4]: print(train_data)
```

```
Dataset MNIST
  Number of datapoints: 60000
  Root location: data
  Split: Train
  StandardTransform
Transform: ToTensor()
```

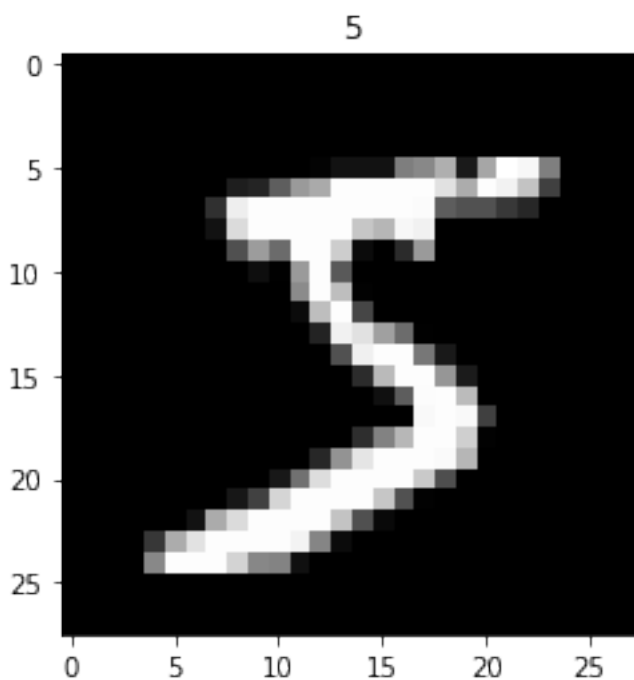
```
[5]: print(test_data)
```

```
Dataset MNIST
  Number of datapoints: 10000
  Root location: data
  Split: Test
  StandardTransform
Transform: ToTensor()
```

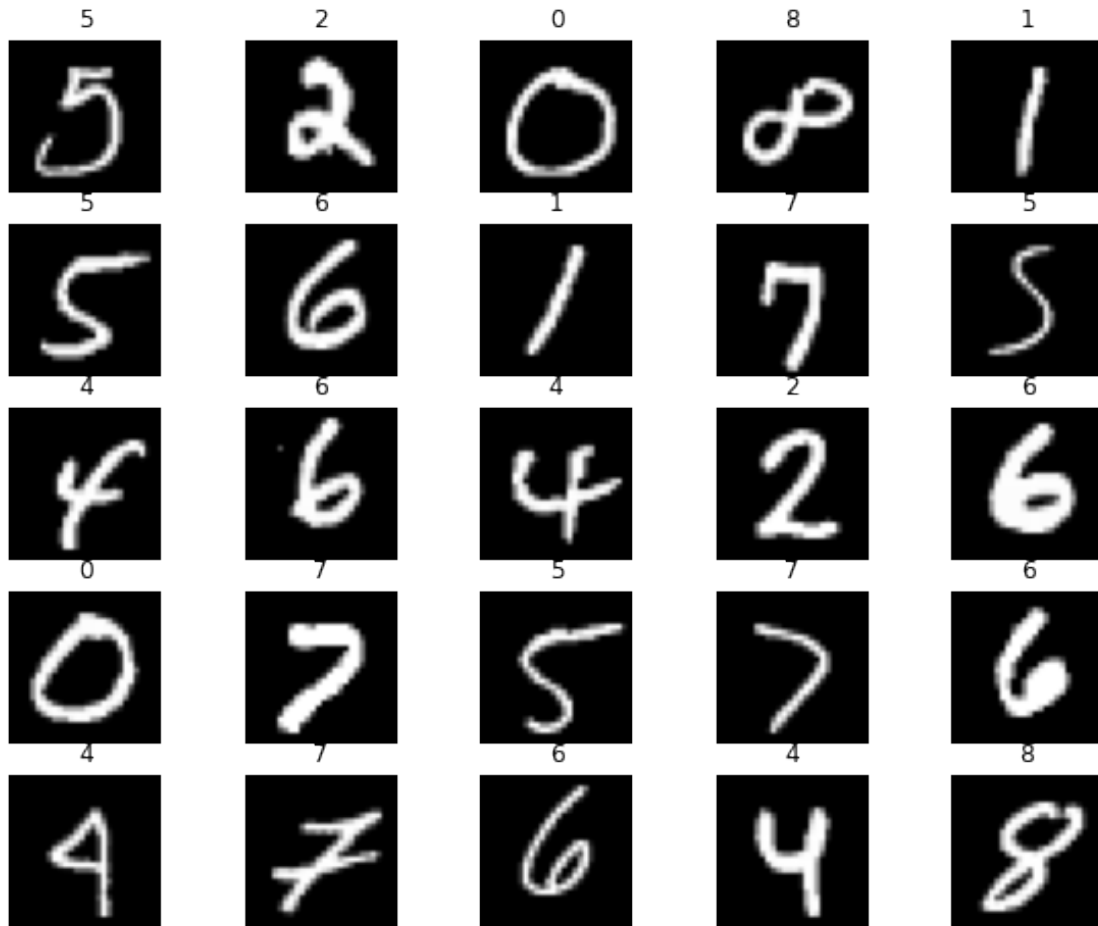
```
[6]: print(train_data.data.size())
```

```
torch.Size([60000, 28, 28])
```

```
[7]: import matplotlib.pyplot as plt
plt.imshow(train_data.data[0], cmap='gray')
plt.title('%i' % train_data.targets[0])
plt.show()
```



```
[8]: figure = plt.figure(figsize=(10, 8))
cols, rows = 5, 5
for i in range(1, cols * rows + 1):
    sample_idx = torch.randint(len(train_data), size=(1,)).item()
    img, label = train_data[sample_idx]
    figure.add_subplot(rows, cols, i)
    plt.title(label)
    plt.axis("off")
    plt.imshow(img.squeeze(), cmap="gray")
plt.show()
```



```
[9]: from torch.utils.data import DataLoader
loaders = {
    'train' : torch.utils.data.DataLoader(train_data,
                                          batch_size=100,
                                          shuffle=True,
                                          num_workers=1),

    'test'  : torch.utils.data.DataLoader(test_data,
                                          batch_size=100,
                                          shuffle=True,
                                          num_workers=1),
}
loaders
```

```
[9]: {'train': <torch.utils.data.dataloader.DataLoader at 0x7f5200106be0>,
      'test': <torch.utils.data.dataloader.DataLoader at 0x7f5200106bb0>}
```

```
[10]: import torch.nn as nn
class CNN(nn.Module):
    def __init__(self):
        super(CNN, self).__init__()
        self.conv1 = nn.Sequential(
            nn.Conv2d(
                in_channels=1,
                out_channels=16,
                kernel_size=5,
                stride=1,
                padding=2,
            ),
            nn.ReLU(),
            nn.MaxPool2d(kernel_size=2),
        )
        self.conv2 = nn.Sequential(
            nn.Conv2d(16, 32, 5, 1, 2),
            nn.ReLU(),
            nn.MaxPool2d(2),
        )
        # fully connected layer, output 10 classes
        self.out = nn.Linear(32 * 7 * 7, 10)
    def forward(self, x):
        x = self.conv1(x)
        x = self.conv2(x)
        # flatten the output of conv2 to (batch_size, 32 * 7 * 7)
        x = x.view(x.size(0), -1)
        output = self.out(x)
        return output, x    # return x for visualization
```

```
[11]: cnn = CNN()
print(cnn)
```

```
CNN(
  (conv1): Sequential(
    (0): Conv2d(1, 16, kernel_size=(5, 5), stride=(1, 1), padding=(2, 2))
    (1): ReLU()
    (2): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1,
ceiling_mode=False)
  )
  (conv2): Sequential(
    (0): Conv2d(16, 32, kernel_size=(5, 5), stride=(1, 1), padding=(2, 2))
    (1): ReLU()
    (2): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1,
ceiling_mode=False)
  )
  (out): Linear(in_features=1568, out_features=10, bias=True)
)
```

```
[12]: loss_func = nn.CrossEntropyLoss()
      loss_func
```

```
[12]: CrossEntropyLoss()
```

```
[13]: import math
      from torch.optim import Optimizer

      class ADAMOptimizer(Optimizer):
          """
          implements ADAM Algorithm, as a preceding step.
          """
          def __init__(self, params, lr=1e-3, betas=(0.9, 0.99), eps=1e-8,
      ↪weight_decay=0):
              defaults = dict(lr=lr, betas=betas, eps=eps, weight_decay=weight_decay)
              super(ADAMOptimizer, self).__init__(params, defaults)

          def step(self):
              """
              Performs a single optimization step.
              """
              loss = None
              for group in self.param_groups:
                  #print(group.keys())
                  #print (self.param_groups[0]['params'][0].size()), First param (W)
      ↪size: torch.Size([10, 784])
                  #print (self.param_groups[0]['params'][1].size()), Second param(b)
      ↪size: torch.Size([10])
                  for p in group['params']:
                      grad = p.grad.data
                      state = self.state[p]

                      # State initialization
                      if len(state) == 0:
                          state['step'] = 0
                          # Momentum (Exponential MA of gradients)
                          state['exp_avg'] = torch.zeros_like(p.data)
                          #print(p.data.size())
                          # RMS Prop componenet. (Exponential MA of squared
      ↪gradients). Denominator.
                          state['exp_avg_sq'] = torch.zeros_like(p.data)

                      exp_avg, exp_avg_sq = state['exp_avg'], state['exp_avg_sq']

                      b1, b2 = group['betas']
                      state['step'] += 1
```

```

        # L2 penalty. Gotta add to Gradient as well.
        if group['weight_decay'] != 0:
            grad = grad.add(group['weight_decay'], p.data)

        # Momentum
        exp_avg = torch.mul(exp_avg, b1) + (1 - b1)*grad
        # RMS
        exp_avg_sq = torch.mul(exp_avg_sq, b2) + (1-b2)*(grad*grad)

        denom = exp_avg_sq.sqrt() + group['eps']

        bias_correction1 = 1 / (1 - b1 ** state['step'])
        bias_correction2 = 1 / (1 - b2 ** state['step'])

        adapted_learning_rate = group['lr'] * bias_correction1 / math.
        ↪sqrt(bias_correction2)

        p.data = p.data - adapted_learning_rate * exp_avg / denom

        if state['step'] % 10000 == 0:
            print ("group:", group)
            print("p: ",p)
            print("p.data: ", p.data) # W = p.data

    return loss

```

```

[16]: from torch import optim
optimizer = ADAMOptimizer(cnn.parameters(), lr = 0.01)
optimizer

```

```

[16]: ADAMOptimizer (
  Parameter Group 0
    betas: (0.9, 0.99)
    eps: 1e-08
    lr: 0.01
    weight_decay: 0
)

```

```

[17]: from torch.autograd import Variable
num_epochs = 30
history = []
def test():
    # Test the model
    cnn.eval()
    with torch.no_grad():
        correct = 0
        total = 0

```

```

    for images, labels in loaders['test']:
        test_output, last_layer = cnn(images)
        b_y = Variable(labels)
        loss = loss_func(test_output, b_y)
        pred_y = torch.max(test_output, 1)[1].data.squeeze()
        accuracy = (pred_y == labels).sum().item() / float(labels.size(0))
        pass
    print('Test Accuracy of the model on the 10000 test images: %.2f' %
    ↪accuracy)
    print('Test Loss: {:.4f}', loss.item())

    return accuracy, loss.item()

def train(num_epochs, cnn, loaders):

    cnn.train()

    # Train the model
    total_step = len(loaders['train'])

    for epoch in range(num_epochs):
        for i, (images, labels) in enumerate(loaders['train']):

            # gives batch data, normalize x when iterate train_loader
            b_x = Variable(images)    # batch x
            b_y = Variable(labels)    # batch y
            output = cnn(b_x)[0]
            loss = loss_func(output, b_y)

            # clear gradients for this training step
            optimizer.zero_grad()

            # backpropagation, compute gradients
            loss.backward()
            # apply gradients
            optimizer.step()

            pred_y = torch.max(output, 1)[1].data.squeeze()
            accuracy = (pred_y == labels).sum().item() / float(labels.size(0))
            if (i+1) % 100 == 0:
                print('Epoch [{}/{}], Step [{}/{}], Acc: {:.4f} Loss: {:.4f}'
                    .format(epoch + 1, num_epochs, i + 1, total_step,
    ↪accuracy, loss.item()))
                pass

            history.append((accuracy, loss.item(), test()))

```

```
pass
train(num_epochs, cnn, loaders)
```

```
Epoch [1/30], Step [100/600], Acc: 0.9200 Loss: 0.2266
Epoch [1/30], Step [200/600], Acc: 0.9700 Loss: 0.1237
Epoch [1/30], Step [300/600], Acc: 0.9800 Loss: 0.1635
Epoch [1/30], Step [400/600], Acc: 0.9600 Loss: 0.1664
Epoch [1/30], Step [500/600], Acc: 0.9200 Loss: 0.0992
Epoch [1/30], Step [600/600], Acc: 0.9400 Loss: 0.1553
Test Accuracy of the model on the 10000 test images: 0.98
Test Loss: {:.4f} 0.0512511171400547
Epoch [2/30], Step [100/600], Acc: 0.9500 Loss: 0.0971
Epoch [2/30], Step [200/600], Acc: 0.9200 Loss: 0.6379
Epoch [2/30], Step [300/600], Acc: 0.9300 Loss: 0.2885
Epoch [2/30], Step [400/600], Acc: 0.9800 Loss: 0.0881
Epoch [2/30], Step [500/600], Acc: 0.9600 Loss: 0.6130
Epoch [2/30], Step [600/600], Acc: 0.9800 Loss: 0.0394
Test Accuracy of the model on the 10000 test images: 1.00
Test Loss: {:.4f} 0.00023371019051410258
Epoch [3/30], Step [100/600], Acc: 0.9500 Loss: 0.2540
Epoch [3/30], Step [200/600], Acc: 0.9500 Loss: 0.3485
Epoch [3/30], Step [300/600], Acc: 0.9600 Loss: 0.6943
Epoch [3/30], Step [400/600], Acc: 0.9700 Loss: 0.1563
Epoch [3/30], Step [500/600], Acc: 0.9900 Loss: 0.0170
Epoch [3/30], Step [600/600], Acc: 0.9100 Loss: 0.2782
Test Accuracy of the model on the 10000 test images: 0.98
Test Loss: {:.4f} 0.11388557404279709
Epoch [4/30], Step [100/600], Acc: 0.9800 Loss: 0.2033
Epoch [4/30], Step [200/600], Acc: 0.9700 Loss: 0.0750
Epoch [4/30], Step [300/600], Acc: 1.0000 Loss: 0.0000
Epoch [4/30], Step [400/600], Acc: 0.9600 Loss: 0.6963
Epoch [4/30], Step [500/600], Acc: 0.9800 Loss: 0.1962
Epoch [4/30], Step [600/600], Acc: 0.9500 Loss: 0.3407
Test Accuracy of the model on the 10000 test images: 0.98
Test Loss: {:.4f} 0.07184675335884094
Epoch [5/30], Step [100/600], Acc: 0.9600 Loss: 0.2735
Epoch [5/30], Step [200/600], Acc: 0.9500 Loss: 0.4871
Epoch [5/30], Step [300/600], Acc: 0.9600 Loss: 0.6051
Epoch [5/30], Step [400/600], Acc: 0.9300 Loss: 0.4184
Epoch [5/30], Step [500/600], Acc: 0.9800 Loss: 0.0353
Epoch [5/30], Step [600/600], Acc: 0.9400 Loss: 0.3148
Test Accuracy of the model on the 10000 test images: 0.96
Test Loss: {:.4f} 0.21676920354366302
Epoch [6/30], Step [100/600], Acc: 0.9300 Loss: 1.6076
Epoch [6/30], Step [200/600], Acc: 0.9700 Loss: 0.1688
Epoch [6/30], Step [300/600], Acc: 0.9900 Loss: 0.1325
Epoch [6/30], Step [400/600], Acc: 0.9300 Loss: 0.7345
Epoch [6/30], Step [500/600], Acc: 0.9700 Loss: 0.1850
```


Epoch [6/30], Step [600/600], Acc: 0.9700 Loss: 0.2558
 Test Accuracy of the model on the 10000 test images: 0.98
 Test Loss: {:.4f} 0.03142736852169037
 Epoch [7/30], Step [100/600], Acc: 0.9600 Loss: 0.5643
 Epoch [7/30], Step [200/600], Acc: 0.9800 Loss: 0.2801
 Epoch [7/30], Step [300/600], Acc: 0.9400 Loss: 0.5013
 Epoch [7/30], Step [400/600], Acc: 0.9500 Loss: 0.5621
 Epoch [7/30], Step [500/600], Acc: 0.9700 Loss: 0.4394
 Epoch [7/30], Step [600/600], Acc: 0.9500 Loss: 0.9493
 Test Accuracy of the model on the 10000 test images: 0.92
 Test Loss: {:.4f} 1.0261163711547852
 Epoch [8/30], Step [100/600], Acc: 0.9600 Loss: 1.4998
 Epoch [8/30], Step [200/600], Acc: 0.9500 Loss: 0.3398
 Epoch [8/30], Step [300/600], Acc: 0.9800 Loss: 0.4567
 Epoch [8/30], Step [400/600], Acc: 0.9900 Loss: 0.0144
 Epoch [8/30], Step [500/600], Acc: 0.9300 Loss: 1.0193
 Epoch [8/30], Step [600/600], Acc: 0.9400 Loss: 0.7930
 Test Accuracy of the model on the 10000 test images: 0.97
 Test Loss: {:.4f} 0.16902516782283783
 Epoch [9/30], Step [100/600], Acc: 1.0000 Loss: 0.0001
 Epoch [9/30], Step [200/600], Acc: 0.9900 Loss: 0.0696
 Epoch [9/30], Step [300/600], Acc: 0.9400 Loss: 0.2253
 Epoch [9/30], Step [400/600], Acc: 0.9500 Loss: 0.1255
 Epoch [9/30], Step [500/600], Acc: 0.9800 Loss: 0.2168
 Epoch [9/30], Step [600/600], Acc: 0.9700 Loss: 0.7003
 Test Accuracy of the model on the 10000 test images: 0.97
 Test Loss: {:.4f} 0.2651878297328949
 Epoch [10/30], Step [100/600], Acc: 0.9300 Loss: 0.8446
 Epoch [10/30], Step [200/600], Acc: 1.0000 Loss: 0.0004
 Epoch [10/30], Step [300/600], Acc: 0.9300 Loss: 0.9741
 Epoch [10/30], Step [400/600], Acc: 0.9700 Loss: 0.8822
 Epoch [10/30], Step [500/600], Acc: 0.9600 Loss: 0.5041
 Epoch [10/30], Step [600/600], Acc: 0.9500 Loss: 0.8095
 Test Accuracy of the model on the 10000 test images: 0.98
 Test Loss: {:.4f} 0.3003269135951996
 Epoch [11/30], Step [100/600], Acc: 0.9600 Loss: 1.3306
 Epoch [11/30], Step [200/600], Acc: 0.9900 Loss: 0.1436
 Epoch [11/30], Step [300/600], Acc: 0.9600 Loss: 0.5653
 Epoch [11/30], Step [400/600], Acc: 0.9600 Loss: 0.6872
 Epoch [11/30], Step [500/600], Acc: 0.9500 Loss: 0.6989
 Epoch [11/30], Step [600/600], Acc: 0.9400 Loss: 0.6543
 Test Accuracy of the model on the 10000 test images: 0.98
 Test Loss: {:.4f} 0.34890294075012207
 Epoch [12/30], Step [100/600], Acc: 0.9800 Loss: 0.1180
 Epoch [12/30], Step [200/600], Acc: 0.9900 Loss: 0.1874
 Epoch [12/30], Step [300/600], Acc: 0.9600 Loss: 1.2871
 Epoch [12/30], Step [400/600], Acc: 0.9700 Loss: 0.7561
 Epoch [12/30], Step [500/600], Acc: 0.9800 Loss: 0.6754

```

Epoch [12/30], Step [600/600], Acc: 0.9600 Loss: 0.2552
Test Accuracy of the model on the 10000 test images: 0.97
Test Loss: {:.4f} 0.3752167522907257
Epoch [13/30], Step [100/600], Acc: 0.9900 Loss: 0.2403
Epoch [13/30], Step [200/600], Acc: 0.9500 Loss: 0.8916
Epoch [13/30], Step [300/600], Acc: 0.9300 Loss: 0.9640
Epoch [13/30], Step [400/600], Acc: 0.9300 Loss: 2.7633
Epoch [13/30], Step [500/600], Acc: 0.9800 Loss: 0.8984
Epoch [13/30], Step [600/600], Acc: 0.9500 Loss: 1.5785
Test Accuracy of the model on the 10000 test images: 0.95
Test Loss: {:.4f} 0.580963671207428
Epoch [14/30], Step [100/600], Acc: 0.9800 Loss: 0.5668
Epoch [14/30], Step [200/600], Acc: 0.9600 Loss: 0.3298
Epoch [14/30], Step [300/600], Acc: 0.9300 Loss: 0.4602
Epoch [14/30], Step [400/600], Acc: 0.9600 Loss: 0.2945
Epoch [14/30], Step [500/600], Acc: 0.9600 Loss: 0.6254
Epoch [14/30], Step [600/600], Acc: 0.9600 Loss: 0.2371
Test Accuracy of the model on the 10000 test images: 0.99
Test Loss: {:.4f} 0.40758758783340454
Epoch [15/30], Step [100/600], Acc: 0.9400 Loss: 0.6196
Epoch [15/30], Step [200/600], Acc: 0.9200 Loss: 0.6788
Epoch [15/30], Step [300/600], Acc: 0.9900 Loss: 0.0618
Epoch [15/30], Step [400/600], Acc: 0.9400 Loss: 1.9661
Epoch [15/30], Step [500/600], Acc: 0.9500 Loss: 1.5188
Epoch [15/30], Step [600/600], Acc: 0.9700 Loss: 0.8194
Test Accuracy of the model on the 10000 test images: 0.99
Test Loss: {:.4f} 0.07882282882928848
Epoch [16/30], Step [100/600], Acc: 0.9800 Loss: 0.3731
Epoch [16/30], Step [200/600], Acc: 0.9700 Loss: 1.0506
Epoch [16/30], Step [300/600], Acc: 0.9400 Loss: 1.2406
Epoch [16/30], Step [400/600], Acc: 0.9900 Loss: 0.0130
Epoch [16/30], Step [500/600], Acc: 0.9400 Loss: 0.6305
Epoch [16/30], Step [600/600], Acc: 0.9800 Loss: 1.5873
Test Accuracy of the model on the 10000 test images: 0.99
Test Loss: {:.4f} 0.09901030361652374
Epoch [17/30], Step [100/600], Acc: 0.9700 Loss: 0.5237
Epoch [17/30], Step [200/600], Acc: 0.9800 Loss: 0.5417
Epoch [17/30], Step [300/600], Acc: 0.9800 Loss: 0.2390
group: {'params': [Parameter containing:
tensor([[[[-1.7181e-01, -1.8375e-01, -8.0490e-02, -1.2732e-01,  2.9061e-01],
          [-7.6712e-02, -2.5455e-01, -3.3912e-01,  1.5475e-01,  1.9507e-01],
          [-1.3525e-01, -1.1663e+00,  2.8240e-01, -7.6930e-02,  2.7594e-01],
          [-7.0898e-01, -2.3115e-01, -9.5718e-01,  8.1987e-02,  2.8557e-01],
          [ 7.8406e-01, -3.6767e-01,  1.6108e-01, -2.1768e-01, -2.0527e-01]]]],

          [[[-4.9106e-01,  1.4271e-01, -1.6007e-01, -7.7877e-03,  3.5855e-01],
            [-1.6672e-02,  1.7518e-01,  2.8491e-01,  2.5025e-01,  2.5883e-01],

```

```

[ 2.1946e-01, -7.9136e-02, -2.3771e-01, -1.2485e+00, -1.1605e-01],
[ 6.6657e-02,  2.1305e-01,  1.4156e-01, -1.6039e-01, -7.9491e-02],
[-2.8900e-01,  6.0192e-01,  5.6856e-01,  6.6823e-03,  1.2857e-01]]],

[[[ 5.8108e-02,  1.8688e-01,  1.9464e-01, -7.3452e-02, -3.7659e-02],
[-5.1303e-01, -1.6386e-01, -3.4951e-01,  1.4331e-02, -1.2112e-01],
[-4.1719e-01, -2.2183e-01, -1.1679e-01,  2.3659e-02,  1.1557e-01],
[-7.0020e-02,  3.3953e-02, -3.3554e-01, -1.0379e-01, -1.1942e-01],
[-1.6900e-01, -2.4182e-01,  8.1828e-02, -6.2917e-02,  1.5077e-01]]],

[[[-8.0466e-02,  1.6631e-02, -2.0591e-02,  1.2844e-01, -1.1294e-01],
[-7.2116e-02, -4.4641e-02, -9.2713e-02, -1.8620e-01, -1.2935e-01],
[-2.4069e-01, -1.9368e-01,  8.8938e-02,  1.9779e-02, -7.1927e-02],
[-1.1647e-01, -2.2324e-01,  6.7465e-02, -1.8377e-01,  1.9988e-01],
[-2.3014e-01,  2.0478e-01,  4.0339e-02, -4.6369e-01, -5.5426e-02]]],

[[[-1.7413e-01, -8.9781e-02, -7.8260e-01,  3.6655e-02, -1.0063e+00],
[-8.9118e-03,  1.8217e-01, -2.1452e-02,  2.2662e-01, -5.0296e-01],
[-7.2706e-01,  8.0169e-03, -1.7612e-01,  1.4225e-02,  3.3865e-02],
[-1.5390e-02,  1.1289e-01,  5.8402e-03, -8.4730e-02,  2.2434e-01],
[-1.3407e-01,  2.0537e-01, -8.5343e-02, -4.3570e-01, -1.5704e-02]]],

[[[ 1.6783e-01, -1.7163e-01, -1.1810e-01, -1.3341e-01, -5.0721e-01],
[-5.1440e-02, -3.3308e-02,  4.8333e-02,  1.4244e-01, -5.5247e-02],
[-2.3483e-02, -1.7042e-01, -8.4688e-02, -7.6472e-03, -6.3422e-02],
[-1.3631e-02, -2.4260e-01,  7.8145e-02, -1.4664e-03,  1.2160e-01],
[-3.6778e-01, -4.8763e-02, -3.6140e-02,  8.0141e-03,  6.0765e-02]]],

[[[ 5.2013e-02, -6.8886e-02, -5.7749e-02, -5.1377e-01, -8.7829e-02],
[-3.2265e-01, -1.0701e-01, -1.0178e-01, -1.0164e-01,  3.1060e-01],
[-5.7413e-02, -2.8633e-01,  8.8271e-02,  6.6195e-03,  1.0750e-02],
[-7.9561e-02,  1.7293e-01, -1.0074e-01,  7.6123e-02, -1.9215e-01],
[-1.8049e-01,  2.1923e-02,  5.9121e-02, -3.3101e-02, -1.0790e-01]]],

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        -0.2776, -0.0390, -0.0441, -0.0457, -0.5923, -0.8682,  0.9448, -1.4574,
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        ...,
        [-1.9467e-03,  3.2024e-02,  2.4679e-02, ..., -2.1963e+00,
        -4.0891e+00, -4.3018e+00],
        [ 2.1002e-03, -1.3206e-02,  6.5986e-03, ..., -7.8599e+00,
        -3.2169e+00, -1.3723e+00],
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        -2.2120e+00, -1.1118e+00]], requires_grad=True), Parameter containing:
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        -2.1218, -3.0725], requires_grad=True)], 'lr': 0.01, 'betas': (0.9,
0.99), 'eps': 1e-08, 'weight_decay': 0}
p: Parameter containing:
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        [-1.3525e-01, -1.1663e+00,  2.8240e-01, -7.6930e-02,  2.7594e-01],
        [-7.0898e-01, -2.3115e-01, -9.5718e-01,  8.1987e-02,  2.8557e-01],
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[[[-4.9106e-01,  1.4271e-01, -1.6007e-01, -7.7877e-03,  3.5855e-01],
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[[ 5.1038e-01, -4.9261e-01, 6.5230e-01, -1.0210e+00, -1.7371e+00],
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[[-3.6776e-01, -1.3151e-01,  8.7172e-02,  1.9114e-01,  2.8509e-01],
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 [ 1.1195e-02, 1.8444e-02, -1.9388e-02, 3.2607e-03, 2.2431e-02],  
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[[-3.7438e-02, -7.3879e-03,  2.3653e-02, -7.1795e-02, -3.9466e-02],
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[[ 1.6715e-02,  2.5611e-02, -2.7691e-02,  2.1883e-02,  3.3083e-02],
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[ 1.5622e-01,  3.1555e-01,  6.3203e-01,  4.9695e-01,  2.2957e-01]],

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[ 1.2415e-01,  4.1119e-01,  2.2410e-01, -4.1459e-01, -6.9169e-01],
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[-5.9032e-01,  6.2748e-01,  6.4247e-01,  1.5291e-01,  1.0950e-01]],

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[ 4.4762e-01,  9.0501e-02,  3.9603e-01,  2.6356e-01, -1.4767e-01],
[ 7.9404e-01,  1.0251e-02, -3.9621e-01, -5.8200e-01, -8.4536e-02]]],
requires_grad=True), Parameter containing:
tensor([-0.0635, -0.6256, -1.3296, -0.2923,  0.0053, -0.4906, -0.0578, -0.4660,
        -0.0731, -0.3763, -0.0477, -0.2753, -1.0111, -1.4100, -0.9403, -1.1307,
        -0.2776, -0.0390, -0.0441, -0.0457, -0.5923, -0.8682,  0.9448, -1.4574,
        -0.2576, -0.0503, -1.0895, -0.0399, -0.0229, -0.0588, -0.0391, -0.2954],
        requires_grad=True), Parameter containing:
tensor([[[-2.0731e-02, -1.4453e-02, -5.1883e-04, ..., -7.8631e+00,
        -4.8086e+00, -2.7759e+00],
[-2.2037e-02, -3.6387e-03, -7.6505e-03, ..., -3.6198e+00,
        -4.1590e+00, -2.4777e+00],
[-1.3324e-02, -1.7820e-02,  3.7923e-02, ..., -7.2954e+00,
        -4.3766e+00, -2.0868e+00],
...,
[-1.9467e-03,  3.2024e-02,  2.4679e-02, ..., -2.1963e+00,
        -4.0891e+00, -4.3018e+00],
[ 2.1002e-03, -1.3206e-02,  6.5986e-03, ..., -7.8599e+00,
        -3.2169e+00, -1.3723e+00],
[-1.2797e-02,  1.8820e-03, -2.8647e-02, ..., -3.3872e+00,
        -2.2120e+00, -1.1118e+00]], requires_grad=True), Parameter containing:
tensor([-5.8647, -1.3174, -3.8040, -4.5523, -3.6857, -4.5678, -6.3360, -4.3163,
        -2.1218, -3.0725], requires_grad=True)], 'lr': 0.01, 'betas': (0.9,
0.99), 'eps': 1e-08, 'weight_decay': 0}
p: Parameter containing:
tensor([-0.5798, -0.4699, -0.5302, -0.3251, -0.5173, -0.3805, -0.4823, -0.4242,
        -0.2819, -0.6181, -0.6394,  1.1976, -1.3630, -0.3718, -0.8765, -0.5770],

```

```

requires_grad=True)
p.data: tensor([-0.5798, -0.4699, -0.5302, -0.3251, -0.5173, -0.3805, -0.4823,
-0.4242,
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group: {'params': [Parameter containing:
tensor([[[[-1.7181e-01, -1.8375e-01, -8.0490e-02, -1.2732e-01,  2.9061e-01],
[-7.6712e-02, -2.5455e-01, -3.3912e-01,  1.5475e-01,  1.9507e-01],
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 [-1.7957e-01, -7.3936e-01, -3.8947e-01, -2.0389e-02, -1.5676e-01]],

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[[ 2.2453e-01,  1.8157e-01,  1.2498e-01,  2.9056e-02,  9.8714e-02],
 [ 8.9860e-02,  1.7803e-01, -5.0317e-02,  6.9088e-02,  3.4075e-01],
 [ 1.4417e-01,  2.9294e-01,  3.5627e-02,  1.7789e-01,  2.4333e-01],
 [ 1.6373e-01,  4.7907e-02, -1.0045e-01, -6.6778e-02,  1.0211e-01],
 [ 1.9314e-01,  2.3777e-01,  2.1022e-02, -1.1442e-01,  2.3917e-01]],

```



```
[[ 1.1804e+00, 1.5642e+00, -4.5909e-01, 4.3877e-01, 1.4379e+00],
 [ 2.2329e-01, 6.5675e-01, -7.7963e-01, 8.3831e-01, 7.8239e-01],
 [-6.1797e-01, 1.0403e+00, 1.0508e+00, -6.1293e-02, 7.6061e-01],
 [-5.9420e-01, 4.5915e-01, 7.4559e-01, -3.5927e-01, 3.7493e-01],
 [-1.0014e+00, -1.8755e-01, -9.5230e-02, 4.2926e-01, 3.6207e-01]],
```

```
[[ 3.6606e-01, -1.8305e-01, -1.0786e+00, 5.7358e-01, 6.1557e-01],
 [-4.1678e-01, -8.9077e-01, -1.1766e+00, -7.7393e-01, -1.1783e+00],
 [-9.1959e-02, 1.0265e-01, 1.6627e+00, 4.4757e-01, 8.3771e-01],
 [-1.3357e+00, -1.7363e-01, 1.1471e+00, 7.5730e-01, -7.6404e-01],
 [-1.8176e+00, -1.7694e+00, -2.5001e-01, 7.7628e-01, 1.1035e+00]]],
```

...,

```
[[[-2.1530e-02, 2.5922e-02, 1.4172e-02, -5.3666e-02, -2.4726e-02],
 [ 1.2185e-02, -1.2587e-02, 2.8974e-02, 1.8812e-02, -4.8989e-02],
 [-5.9511e-02, 3.4360e-02, 3.4028e-02, -3.0890e-02, 2.5812e-02],
 [-2.3585e-02, -2.3304e-02, -3.3784e-02, -7.7534e-03, -2.2354e-02],
 [ 1.2770e-02, -2.4136e-02, -5.0185e-02, -1.3890e-02, 3.3630e-02]],
```

```
[[[-6.8278e-03, 3.6592e-02, -1.7718e-02, -3.0847e-02, 1.3932e-02],
 [ 6.2180e-02, 2.7648e-02, 2.0957e-02, -1.7003e-02, -2.6221e-02],
 [-1.9348e-02, -4.6261e-02, -5.3347e-02, -4.3830e-02, 3.2354e-02],
 [-4.1634e-02, -8.5004e-03, -1.5801e-02, -1.1116e-02, -8.3004e-03],
 [-1.6466e-02, -1.4666e-02, -3.1504e-02, -3.3324e-02, 1.7529e-02]],
```

```
[[[-9.3504e-04, -5.6011e-02, 3.2887e-02, 2.3108e-02, -4.6116e-02],
 [-5.0358e-02, 2.2708e-02, 1.7301e-02, -9.3276e-03, 1.1432e-02],
 [-5.4469e-02, 1.5869e-02, -3.0702e-02, -1.7364e-02, -4.6521e-02],
 [-1.9659e-02, -3.9255e-02, -5.2220e-02, -3.7988e-02, 7.0438e-03],
 [-4.2262e-02, -4.3606e-02, -2.9420e-02, -4.0524e-02, 3.6537e-02]],
```

...,

```
[[[-2.7015e-02, 2.0766e-02, -6.5260e-03, 2.6785e-02, 3.4985e-02],
 [ 4.3031e-03, -2.9068e-02, -1.6654e-02, -5.3108e-02, -9.1702e-03],
 [ 1.1195e-02, 1.8444e-02, -1.9388e-02, 3.2607e-03, 2.2431e-02],
 [-2.3925e-02, 3.7018e-02, -2.9737e-03, -4.4523e-02, 2.3565e-02],
 [-1.9255e-02, -3.4495e-02, 3.0790e-02, 1.7070e-02, 3.3571e-02]],
```

```
[[[-7.8336e-03, -1.8539e-02, -1.2758e-02, -4.9276e-02, -2.1528e-02],
 [ 1.5423e-02, -9.7191e-03, -1.8057e-02, -1.1870e-02, 3.1416e-02],
 [ 1.1566e-02, -3.5297e-02, -3.6120e-03, -4.4701e-02, -4.7710e-02],
 [ 1.5842e-02, -3.2990e-02, -1.2375e-02, -1.6905e-02, -4.7926e-02],
 [ 2.7518e-02, -3.3978e-02, 1.1689e-02, -5.2336e-02, 4.0307e-03]],
```

```

[[-4.0129e-02, -3.3093e-02, 5.2136e-02, 1.0048e-02, 4.8554e-02],
 [ 6.7874e-02, 3.9092e-02, -4.3035e-02, -3.8428e-02, 2.0838e-02],
 [ 2.2879e-02, -6.4214e-02, 2.9229e-02, -2.6456e-02, -2.9552e-02],
 [ 5.3007e-02, -4.8049e-02, 2.7975e-02, -2.8338e-02, 4.6520e-02],
 [ 4.0845e-02, -5.6063e-03, 4.3910e-02, 2.1920e-02, -8.2199e-03]]],

```

```

[[[ 6.8691e-03, 7.1583e-02, 1.9478e-02, -3.8470e-02, -2.8183e-02],
 [-2.0495e-02, 1.7514e-02, -1.0125e-02, -2.9638e-02, -3.5702e-02],
 [-1.8933e-02, -6.3624e-03, -1.2850e-01, -6.6732e-02, -2.8342e-02],
 [ 5.3883e-03, -3.2374e-03, -2.8680e-02, 2.7850e-02, -5.4738e-02],
 [-7.0902e-03, 5.3247e-03, -6.7890e-02, -7.2888e-02, -4.8119e-02]]],

```

```

[[-3.0375e-02, 7.4218e-02, 6.0692e-02, -4.7439e-02, 2.2013e-02],
 [-1.1349e-02, -2.6959e-02, -2.6271e-02, -2.2969e-02, -5.2719e-02],
 [-4.2866e-02, -1.5479e-02, -1.4287e-02, -2.1599e-02, -3.6768e-02],
 [-3.0326e-02, -5.8029e-02, -3.1198e-02, -9.8013e-02, 2.3009e-03],
 [ 2.6048e-02, 7.0907e-03, -1.1475e-02, -2.9103e-02, 3.9935e-03]],

```

```

[[-3.7438e-02, -7.3879e-03, 2.3653e-02, -7.1795e-02, -3.9466e-02],
 [-3.8011e-02, -6.5770e-02, -1.9350e-02, -4.7584e-02, -4.4748e-03],
 [-7.4177e-02, -1.4174e-02, -1.3600e-01, -9.0981e-02, -2.9574e-02],
 [ 7.4632e-02, -6.9693e-02, -9.7973e-02, -6.3254e-02, -2.6935e-02],
 [ 3.0056e-02, -1.3393e-02, -4.1852e-02, 1.9800e-03, 3.3574e-02]],

```

...,

```

[[ 2.8658e-02, -3.8628e-02, -9.9297e-02, -1.3515e-01, -5.0442e-02],
 [-1.0699e-02, 5.4232e-03, -7.8695e-03, -1.0654e-01, 1.2287e-02],
 [-4.1458e-02, -4.6528e-02, -2.5498e-02, -5.0035e-02, -2.6954e-02],
 [-1.4359e-01, -4.9112e-02, 3.5110e-02, 1.9003e-02, 7.0870e-02],
 [-5.9434e-02, 3.5643e-02, -4.2622e-02, -8.2919e-02, 6.8249e-03]],

```

```

[[-6.1948e-02, 2.2131e-02, 4.3903e-02, -6.2343e-02, 4.9754e-02],
 [-4.5630e-02, 3.3898e-02, -3.6502e-02, 4.0105e-02, -5.4685e-02],
 [-5.4512e-02, -5.0401e-02, -4.2074e-02, -1.2263e-01, -2.5382e-02],
 [-1.2669e-02, -3.4864e-02, -4.9617e-03, -7.7346e-02, -2.5864e-02],
 [-7.9469e-03, -5.1228e-02, -8.6805e-03, 2.9443e-02, -1.7977e-02]],

```

```

[[ 1.6715e-02, 2.5611e-02, -2.7691e-02, 2.1883e-02, 3.3083e-02],
 [ 1.2801e-02, 4.1717e-02, 3.5953e-02, 1.4587e-02, -5.4395e-03],
 [ 1.8895e-02, 3.9885e-02, -1.2169e-02, 4.5855e-02, -2.3356e-03],
 [ 2.0065e-02, -4.3316e-02, 1.3432e-02, 5.1943e-03, 1.6336e-03],
 [-8.4673e-04, -2.6832e-02, 1.6150e-02, 1.5072e-02, 2.3151e-02]]],

```

```

[[[ 3.4749e+00, 4.6776e+00, 4.1566e-02, -3.1418e-01, 2.1050e+00],

```

```

[ 5.0261e+00,  5.1961e+00, -4.1965e-01, -2.1665e-01,  1.3241e+00],
[ 3.9965e+00,  2.8375e+00, -7.0791e-01, -6.9960e-01,  1.8607e+00],
[-1.4548e+00, -2.7318e+00, -3.2741e-01,  1.4367e+00,  5.2470e+00],
[-2.7642e+00, -1.9451e+00, -1.7674e+00,  4.6773e-01,  3.8230e+00]],

[[-1.0729e+00, -5.4863e-01,  1.5321e-01, -8.7755e-01, -2.6361e+00],
 [-1.8633e+00, -5.5081e-01, -3.8933e-01, -1.0692e+00, -2.1088e+00],
 [ 5.2690e-01,  5.0172e-01, -2.5523e+00, -1.7441e+00, -1.3897e+00],
 [-1.3562e+00, -1.8643e+00, -1.6091e+00, -1.0525e+00, -1.2302e+00],
 [-1.0853e+00, -3.1496e-01, -4.9779e-02, -3.0734e-01, -5.5174e-01]],

[[ 6.0532e-01,  4.3588e-01, -7.8541e-01, -8.6212e-01,  3.4024e-01],
 [ 1.8867e-01, -5.1085e-01, -1.4745e-01, -5.3365e-01, -4.7699e-02],
 [-5.5365e-01, -1.2886e-01, -1.9305e-01, -4.9583e-01, -9.2746e-01],
 [ 1.0830e-01,  4.5374e-01,  1.7288e-01, -4.3502e-01, -2.7221e-01],
 [ 1.5622e-01,  3.1555e-01,  6.3203e-01,  4.9695e-01,  2.2957e-01]],

...,

[[-8.3091e-02,  1.7897e-01,  2.2224e-01, -1.2460e-01,  1.6183e-01],
 [ 1.5525e-01,  4.9875e-02,  2.4034e-01, -4.5917e-03,  1.6542e-01],
 [ 8.5632e-02, -1.7923e-01, -4.9862e-01,  1.6854e-01,  2.2620e-01],
 [-1.3161e-01, -4.3531e-01,  1.7428e-02,  8.0013e-02, -7.2802e-02],
 [-3.9312e-02, -1.3243e-02,  4.7651e-02, -1.5097e-01, -1.0272e-01]],

[[-6.9673e-01,  1.5798e-01,  2.4901e-01, -2.4305e-01, -5.7818e-01],
 [-6.1282e-01,  3.4604e-01,  7.0732e-01, -3.2243e-01, -5.5176e-01],
 [ 1.2415e-01,  4.1119e-01,  2.2410e-01, -4.1459e-01, -6.9169e-01],
 [-9.9301e-01, -5.1767e-01,  4.5080e-02,  2.4471e-01,  6.0488e-01],
 [-5.9032e-01,  6.2748e-01,  6.4247e-01,  1.5291e-01,  1.0950e-01]],

[[ 8.4344e-01,  3.1455e-01,  8.6240e-01,  8.1623e-01, -9.4462e-01],
 [-2.0247e+00, -1.4187e+00, -6.7367e-01, -2.9985e-01, -1.7822e+00],
 [-1.6706e+00,  1.1250e+00,  5.6729e-01, -1.2537e+00, -8.9747e-01],
 [ 4.3762e-01,  8.0501e-02,  3.9603e-01,  2.6356e-01, -1.4767e-01],
 [ 7.9404e-01,  2.5119e-04, -3.9621e-01, -5.8200e-01, -8.4536e-02]]],
requires_grad=True)
p.data: tensor([[[[-1.1258e-02,  7.3494e-03, -3.8019e-02, -1.3836e-02,
-1.9857e-02],
 [-1.5648e-02, -5.4026e-02, -5.8677e-03,  6.2388e-04, -4.1126e-02],
 [-6.1997e-02, -5.4165e-02, -4.3456e-02,  1.3695e-02, -5.4990e-03],
 [-7.8909e-02,  2.5176e-03, -5.3599e-02, -1.2680e-02, -3.7355e-02],
 [-7.8414e-03,  5.6345e-02, -7.0011e-02, -1.2198e-02,  3.1331e-02]],

[[-1.5120e-02, -7.0177e-02,  1.1537e-03, -1.8049e-02, -3.5756e-02],
 [ 4.1762e-03, -6.1718e-02, -4.1785e-02, -3.6125e-02, -1.2600e-03],
 [-1.6281e-02, -5.4033e-02,  5.7828e-02,  1.9979e-02, -9.2012e-03],
 [-6.6801e-02, -3.2293e-02, -4.6492e-02, -2.2975e-02,  2.0524e-02],

```

```

[ 2.6964e-03,  4.9242e-02, -3.3726e-02, -9.6284e-04, -5.5006e-02]],

[[ 4.6986e-03, -1.5853e-02, -8.6363e-02, -2.4292e-03, -6.8606e-02],
 [-3.3559e-04, -2.2237e-02, -9.9869e-02, -4.9593e-02, -4.6421e-02],
 [-1.4797e-02, -4.4976e-02, -5.6094e-03, -5.6435e-02, -6.0889e-02],
 [-4.2268e-02, -5.5749e-02, -7.9291e-02, -1.0744e-03, -2.0138e-02],
 [-4.5835e-02, -2.0540e-02, -8.7900e-03, -5.6613e-02, -1.1370e-02]],

...,

[[ 1.0442e-02, -4.5476e-02, -2.5854e-02, -3.9499e-02, -6.3439e-02],
 [-4.9290e-02, -4.2015e-02,  4.3776e-02, -3.8108e-02, -3.1724e-02],
 [-4.2079e-02, -6.7316e-02,  7.7326e-03,  3.5436e-02, -6.0779e-03],
 [-5.4433e-02, -3.8104e-02, -1.2512e-02, -4.9112e-02, -6.1374e-02],
 [-1.8008e-02, -1.0592e-02,  3.9368e-02, -1.7672e-02, -5.6034e-02]],

[[ 2.3759e-02,  2.1393e-02,  5.1675e-03,  1.3079e-02,  4.5411e-03],
 [-2.7857e-03, -8.9568e-03, -5.9338e-02, -2.9236e-02,  6.3065e-03],
 [-2.0955e-02, -1.4885e-03, -3.2490e-02, -4.3689e-02, -3.9551e-02],
 [-6.9838e-02, -3.2230e-02, -1.1518e-02, -1.6882e-02, -2.1851e-02],
 [-4.8513e-02, -5.6783e-03, -9.9797e-03, -8.4477e-02, -2.0756e-02]],

[[ 5.3172e-02, -3.8745e-02,  3.8087e-02, -5.2748e-03, -1.4150e-02],
 [-1.4834e-02, -6.7969e-03,  1.6155e-02, -2.1015e-02,  2.3897e-02],
 [ 1.3973e-02, -3.4469e-02, -1.6928e-02, -3.8436e-02,  1.0355e-02],
 [ 3.8279e-02,  2.4278e-02, -2.6709e-02,  3.7553e-02,  4.3944e-02],
 [-5.4545e-03,  2.0822e-02,  3.7806e-02,  1.2539e-02, -4.9356e-02]]],

[[[-1.5777e+00, -1.5536e+00, -1.8640e+00, -2.2343e+00, -5.2697e-01],
 [-1.7286e+00, -3.2282e+00, -3.0719e+00, -3.0921e+00, -1.8024e+00],
 [ 5.3796e-02, -1.8447e+00, -2.0657e+00, -1.3562e+00, -1.1821e+00],
 [-9.4620e-01, -1.7181e+00, -1.2289e+00,  6.1938e-02,  5.7174e-01],
 [-1.7820e+00,  2.0985e+00,  1.1988e+00,  1.5707e+00,  8.5148e-01]],

[[ 5.2038e-01, -5.0261e-01,  6.4230e-01, -1.0310e+00, -1.7471e+00],
 [ 1.3691e+00, -2.9934e-01,  1.0611e+00,  5.8326e-01, -1.0232e+00],
 [ 1.4713e-01,  1.7911e+00,  1.9727e+00,  1.0049e+00, -9.4672e-01],
 [-2.4449e-01,  3.6619e-02,  3.9140e-01, -1.2737e+00, -3.1039e+00],
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[[[-1.1463e-01,  1.3643e-02,  5.2958e-01,  3.2211e-01,  4.7294e-01],
 [ 8.2037e-02,  1.9412e-01, -2.3358e-01, -4.1348e-02, -1.2291e-01],
 [ 6.6463e-01,  2.9019e-01,  5.0718e-01, -6.2083e-01, -1.7577e+00],
 [ 8.5095e-01,  7.7586e-01, -4.1850e-01, -6.1369e-01, -1.2178e+00],
 [ 2.4946e-01, -2.7404e-01, -8.9728e-01, -4.5633e-01, -5.3666e-01]],

...,

```

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 [-1.6085e-01, 8.0173e-02, -1.5180e-01, -1.8725e-01, -3.0075e-02],
 [-3.2323e-01, 8.6857e-02, 2.5634e-01, -6.7284e-02, -4.6432e-01],
 [-1.7511e-01, 3.8334e-01, 8.0816e-02, -4.0054e-01, -2.8789e-01]],

[[ 6.6250e-02, -1.8887e-02, -2.9691e-01, -1.5132e-01, 2.3546e-04],
 [-4.2253e-01, -3.0311e-01, -5.0824e-01, 4.7654e-01, -6.3721e-01],
 [ 8.4760e-01, 1.7227e-01, -3.7275e-01, -4.0182e-01, -7.7809e-01],
 [ 7.9082e-03, 7.7312e-03, 2.3633e-01, -9.5214e-01, -4.0034e-01],
 [ 2.9271e-01, 2.6491e-01, -4.8544e-01, -8.3098e-01, -2.0094e-01]],

[[-6.3640e-01, -4.9420e-01, -3.0124e-01, -1.2797e-01, 2.2212e-01],
 [-3.3848e-02, 9.5295e-01, 1.2570e+00, 1.4787e+00, -4.8391e-01],
 [ 9.2195e-01, 2.4257e+00, 1.2345e+00, 3.8444e-01, -8.7505e-01],
 [ 3.8040e-01, 7.5130e-01, 2.5224e-01, -8.2953e-01, -9.3077e-01],
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[[[ 2.1903e+00, 9.4132e-01, -1.7536e+00, -1.1571e+00, 4.9565e-01],
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 [ 2.1570e+00, 2.3444e+00, 9.4936e-01, -8.4643e-01, 2.6014e+00],
 [ 1.9722e+00, 2.7665e+00, 2.2662e+00, -3.2408e-01, 1.8197e+00],
 [ 1.2199e+00, 9.3364e-01, 1.0721e+00, -1.4994e+00, -1.3361e+00]],

[[ 7.5886e-01, -4.9399e-01, -4.3821e-01, 7.0472e-01, 6.2317e-01],
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[[[-3.4130e-01, -3.0249e-02,  4.2326e-02, -1.3526e-01,  4.2669e-02],
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requires_grad=True), Parameter containing:
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        -0.2819, -0.6181, -0.6394,  1.1976, -1.3630, -0.3718, -0.8765, -0.5770],
requires_grad=True), Parameter containing:
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[[[ 3.4749e+00, 4.6776e+00, 4.1566e-02, -3.1418e-01, 2.1050e+00],
 [ 5.0261e+00, 5.1961e+00, -4.1965e-01, -2.1665e-01, 1.3241e+00],
 [ 3.9965e+00, 2.8375e+00, -7.0791e-01, -6.9960e-01, 1.8607e+00],
 [-1.4548e+00, -2.7318e+00, -3.2741e-01, 1.4367e+00, 5.2470e+00],
 [-2.7642e+00, -1.9451e+00, -1.7674e+00, 4.6773e-01, 3.8230e+00]],

 [[-1.0729e+00, -5.4863e-01, 1.5321e-01, -8.7755e-01, -2.6361e+00],
 [-1.8633e+00, -5.5081e-01, -3.8933e-01, -1.0692e+00, -2.1088e+00],
 [ 5.2690e-01, 5.0172e-01, -2.5523e+00, -1.7441e+00, -1.3897e+00],
 [-1.3562e+00, -1.8643e+00, -1.6091e+00, -1.0525e+00, -1.2302e+00],
 [-1.0853e+00, -3.1496e-01, -4.9779e-02, -3.0734e-01, -5.5174e-01]],

 [[ 6.0532e-01, 4.3588e-01, -7.8541e-01, -8.6212e-01, 3.4024e-01],
 [ 1.8867e-01, -5.1085e-01, -1.4745e-01, -5.3365e-01, -4.7699e-02],
 [-5.5365e-01, -1.2886e-01, -1.9305e-01, -4.9583e-01, -9.2746e-01],
 [ 1.0830e-01, 4.5374e-01, 1.7288e-01, -4.3502e-01, -2.7221e-01],
 [ 1.5622e-01, 3.1555e-01, 6.3203e-01, 4.9695e-01, 2.2957e-01]],

 ...,

 [[-8.3091e-02, 1.7897e-01, 2.2224e-01, -1.2460e-01, 1.6183e-01],
 [ 1.5525e-01, 4.9875e-02, 2.4034e-01, -4.5917e-03, 1.6542e-01],
 [ 8.5632e-02, -1.7923e-01, -4.9862e-01, 1.6854e-01, 2.2620e-01],
 [-1.3161e-01, -4.3531e-01, 1.7428e-02, 8.0013e-02, -7.2802e-02],
 [-3.9312e-02, -1.3243e-02, 4.7651e-02, -1.5097e-01, -1.0272e-01]],

 [[-6.9673e-01, 1.5798e-01, 2.4901e-01, -2.4305e-01, -5.7818e-01],
 [-6.1282e-01, 3.4604e-01, 7.0732e-01, -3.2243e-01, -5.5176e-01],
 [ 1.2415e-01, 4.1119e-01, 2.2410e-01, -4.1459e-01, -6.9169e-01],
 [-9.9301e-01, -5.1767e-01, 4.5080e-02, 2.4471e-01, 6.0488e-01],
 [-5.9032e-01, 6.2748e-01, 6.4247e-01, 1.5291e-01, 1.0950e-01]],

 [[ 8.4344e-01, 3.1455e-01, 8.6240e-01, 8.1623e-01, -9.4462e-01],
 [-2.0247e+00, -1.4187e+00, -6.7367e-01, -2.9985e-01, -1.7822e+00],
 [-1.6706e+00, 1.1250e+00, 5.6729e-01, -1.2537e+00, -8.9747e-01],
 [ 4.3762e-01, 8.0501e-02, 3.9603e-01, 2.6356e-01, -1.4767e-01],
 [ 7.9404e-01, 2.5119e-04, -3.9621e-01, -5.8200e-01, -8.4536e-02]]]],
requires_grad=True), Parameter containing:

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tensor([-0.0635, -0.6156, -1.3196, -0.2823,  0.0053, -0.4806, -0.0578, -0.4660,
        -0.0731, -0.3763, -0.0477, -0.2753, -1.0111, -1.4200, -0.9503, -1.1407,
        -0.2776, -0.0390, -0.0441, -0.0457, -0.5823, -0.8582,  0.9348, -1.4674,
        -0.2576, -0.0503, -1.0895, -0.0399, -0.0229, -0.0588, -0.0391, -0.2854],
        requires_grad=True), Parameter containing:
tensor([[[-2.0731e-02, -1.4453e-02, -5.1883e-04, ..., -7.8631e+00,
          -4.8086e+00, -2.7759e+00],
         [-2.2037e-02, -3.6387e-03, -7.6505e-03, ..., -3.6198e+00,
          -4.1590e+00, -2.4777e+00],
         [-1.3324e-02, -1.7820e-02,  3.7923e-02, ..., -7.2954e+00,
          -4.3766e+00, -2.0868e+00],
         ...,
         [-1.9467e-03,  3.2024e-02,  2.4679e-02, ..., -2.1963e+00,
          -4.0891e+00, -4.3018e+00],
         [ 2.1002e-03, -1.3206e-02,  6.5986e-03, ..., -7.8599e+00,
          -3.2169e+00, -1.3723e+00],
         [-1.2797e-02,  1.8820e-03, -2.8647e-02, ..., -3.3872e+00,
          -2.2120e+00, -1.1118e+00]], requires_grad=True), Parameter containing:
tensor([-5.8647, -1.3174, -3.8040, -4.5523, -3.6857, -4.5678, -6.3360, -4.3163,
        -2.1218, -3.0725], requires_grad=True)], 'lr': 0.01, 'betas': (0.9,
0.99), 'eps': 1e-08, 'weight_decay': 0}
p: Parameter containing:
tensor([-0.0635, -0.6156, -1.3196, -0.2823,  0.0053, -0.4806, -0.0578, -0.4660,
        -0.0731, -0.3763, -0.0477, -0.2753, -1.0111, -1.4200, -0.9503, -1.1407,
        -0.2776, -0.0390, -0.0441, -0.0457, -0.5823, -0.8582,  0.9348, -1.4674,
        -0.2576, -0.0503, -1.0895, -0.0399, -0.0229, -0.0588, -0.0391, -0.2854],
        requires_grad=True)
p.data: tensor([-0.0635, -0.6156, -1.3196, -0.2823,  0.0053, -0.4806, -0.0578,
-0.4660,
        -0.0731, -0.3763, -0.0477, -0.2753, -1.0111, -1.4200, -0.9503, -1.1407,
        -0.2776, -0.0390, -0.0441, -0.0457, -0.5823, -0.8582,  0.9348, -1.4674,
        -0.2576, -0.0503, -1.0895, -0.0399, -0.0229, -0.0588, -0.0391, -0.2854])
group: {'params': [Parameter containing:
tensor([[[[-1.7181e-01, -1.8375e-01, -8.0490e-02, -1.2732e-01,  2.9061e-01],
          [-7.6712e-02, -2.5455e-01, -3.3912e-01,  1.5475e-01,  1.9507e-01],
          [-1.3525e-01, -1.1663e+00,  2.8240e-01, -7.6930e-02,  2.7594e-01],
          [-7.0898e-01, -2.3115e-01, -9.5718e-01,  8.1987e-02,  2.8557e-01],
          [ 7.8406e-01, -3.6767e-01,  1.6108e-01, -2.1768e-01, -2.0527e-01]]],

          [[[-4.9106e-01,  1.4271e-01, -1.6007e-01, -7.7877e-03,  3.5855e-01],
            [-1.6672e-02,  1.7518e-01,  2.8491e-01,  2.5025e-01,  2.5883e-01],
            [ 2.1946e-01, -7.9136e-02, -2.3771e-01, -1.2485e+00, -1.1605e-01],
            [ 6.6657e-02,  2.1305e-01,  1.4156e-01, -1.6039e-01, -7.9491e-02],
            [-2.8900e-01,  6.0192e-01,  5.6856e-01,  6.6823e-03,  1.2857e-01]]],

          [[ 5.8108e-02,  1.8688e-01,  1.9464e-01, -7.3452e-02, -3.7659e-02],

```



```

[-5.1303e-01, -1.6386e-01, -3.4951e-01, 1.4331e-02, -1.2112e-01],
[-4.1719e-01, -2.2183e-01, -1.1679e-01, 2.3659e-02, 1.1557e-01],
[-7.0020e-02, 3.3953e-02, -3.3554e-01, -1.0379e-01, -1.1942e-01],
[-1.6900e-01, -2.4182e-01, 8.1828e-02, -6.2917e-02, 1.5077e-01]]],

[[[-8.0466e-02, 1.6631e-02, -2.0591e-02, 1.2844e-01, -1.1294e-01],
[-7.2116e-02, -4.4641e-02, -9.2713e-02, -1.8620e-01, -1.2935e-01],
[-2.4069e-01, -1.9368e-01, 8.8938e-02, 1.9779e-02, -7.1927e-02],
[-1.1647e-01, -2.2324e-01, 6.7465e-02, -1.8377e-01, 1.9988e-01],
[-2.3014e-01, 2.0478e-01, 4.0339e-02, -4.6369e-01, -5.5426e-02]]],

[[[-1.7413e-01, -8.9781e-02, -7.8260e-01, 3.6655e-02, -1.0063e+00],
[-8.9118e-03, 1.8217e-01, -2.1452e-02, 2.2662e-01, -5.0296e-01],
[-7.2706e-01, 8.0169e-03, -1.7612e-01, 1.4225e-02, 3.3865e-02],
[-1.5390e-02, 1.1289e-01, 5.8402e-03, -8.4730e-02, 2.2434e-01],
[-1.3407e-01, 2.0537e-01, -8.5343e-02, -4.3570e-01, -1.5704e-02]]],

[[[ 1.6783e-01, -1.7163e-01, -1.1810e-01, -1.3341e-01, -5.0721e-01],
[-5.1440e-02, -3.3308e-02, 4.8333e-02, 1.4244e-01, -5.5247e-02],
[-2.3483e-02, -1.7042e-01, -8.4688e-02, -7.6472e-03, -6.3422e-02],
[-1.3631e-02, -2.4260e-01, 7.8145e-02, -1.4664e-03, 1.2160e-01],
[-3.6778e-01, -4.8763e-02, -3.6140e-02, 8.0141e-03, 6.0765e-02]]],

[[[ 5.2013e-02, -6.8886e-02, -5.7749e-02, -5.1377e-01, -8.7829e-02],
[-3.2265e-01, -1.0701e-01, -1.0178e-01, -1.0164e-01, 3.1060e-01],
[-5.7413e-02, -2.8633e-01, 8.8271e-02, 6.6195e-03, 1.0750e-02],
[-7.9561e-02, 1.7293e-01, -1.0074e-01, 7.6123e-02, -1.9215e-01],
[-1.8049e-01, 2.1923e-02, 5.9121e-02, -3.3101e-02, -1.0790e-01]]],

[[[ 2.5943e-01, 2.6826e-01, 2.3717e-01, 4.7436e-01, -2.5379e-01],
[-3.6760e-01, -1.7291e-01, 1.8909e-01, -1.9452e-01, 7.5734e-02],
[-5.4266e-01, -6.2449e-01, 1.9404e-01, 4.5906e-01, -6.8948e-01],
[-4.1498e-02, -5.3446e-02, -1.2198e+00, -8.2228e-01, 3.6617e-02],
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[[[ 3.1306e-01, -5.8572e-01, -7.7614e-01, -2.8024e-01, -1.2667e-01],
[-4.5176e-01, -6.2641e-02, -1.8290e-01, 2.0647e-01, 6.2810e-02],
[-5.7042e-01, 7.0930e-02, 2.0874e-01, -1.8586e-01, 8.0093e-01],
[-3.4188e-01, 2.3131e-01, 4.4532e-01, -5.5112e-01, -5.7633e-02],
[ 4.5184e-01, -7.0991e-01, -8.3854e-01, 2.7935e-02, -3.1163e-01]]],

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[[[ 2.8507e-01, -2.5481e-01, -5.5377e-01, -3.5774e-01, -7.3237e-01],
 [ 2.1712e-01,  9.5968e-02, -2.4824e-01, -3.2652e-01,  1.9470e-01],
 [ 4.2667e-01,  4.8137e-01, -1.8373e+00, -2.2878e-02,  2.5502e-01],
 [-7.1520e-02, -2.8123e-01, -2.0498e+00, -3.0531e-01,  7.9507e-01],
 [ 6.9792e-02, -2.1751e-01, -5.1654e-01,  2.5087e-01,  3.2768e-02]]],

[[[ 8.1748e-02, -6.7113e-02, -3.8841e-02, -2.4762e-01, -4.5554e-01],
 [-1.8125e-01,  1.4855e-02,  2.0984e-01,  2.9795e-01, -1.5159e-01],
 [-2.9020e-01,  1.4611e-02,  2.2233e-02, -6.3856e-02, -4.3967e-02],
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[[[ 1.6816e-01,  4.6956e-01,  1.8892e-01,  5.2589e-01,  2.7310e-01],
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 [ 4.5248e-01, -4.8692e-02,  1.6037e-01,  1.5496e-01,  2.8914e-01],
 [ 8.7465e-02, -5.7465e-01,  6.3181e-01, -1.4294e-01, -2.2889e-01],
 [-5.5064e-01, -2.1902e-02, -3.8418e-01, -3.4975e-01,  2.3628e-01]]],

[[[ 5.3823e-01, -3.9912e-01, -7.1345e-01,  3.4083e-01,  1.6489e-01],
 [ 2.7796e-01, -5.9538e-01,  2.0597e-01,  6.2618e-01,  5.5854e-02],
 [ 1.3000e-01,  2.3582e-01,  6.8328e-01,  1.2434e-01,  1.1378e-01],
 [ 2.5941e-01,  1.4832e-01,  3.1080e-01, -4.9033e-01, -1.2154e-01],
 [-2.5233e-01, -3.9297e-02,  2.7231e-03,  1.9777e-01, -1.4121e-01]]],

[[[-3.4130e-01, -3.0249e-02,  4.2326e-02, -1.3526e-01,  4.2669e-02],
 [-3.8338e-01,  3.3513e-02,  7.2393e-02,  8.2924e-02, -4.6471e-03],
 [-2.2729e-01, -1.3373e-02,  3.0793e-02, -1.8900e-01,  8.8839e-02],
 [-6.0247e-02, -1.3960e-01,  4.3944e-02, -6.5704e-03,  1.4900e-02],
 [ 2.0366e-02,  8.1156e-02, -9.3186e-02,  6.3327e-02,  4.6940e-02]]],

[[[ 5.0987e-02, -8.0802e-02, -2.1856e-01,  3.3909e-01, -1.8042e-01],
 [-2.0321e-01,  1.6926e-01, -2.8434e-01,  9.7260e-02, -2.0168e-01],
 [ 2.1503e-02, -6.0468e-02,  2.4438e-01,  1.8412e-01, -7.3190e-01],
 [-6.9098e-02, -9.0912e-01, -4.2828e-01, -3.6068e-02,  2.3664e-01],
 [ 3.1391e-01,  8.6210e-02, -4.2351e-01, -2.1919e-01,  2.0048e-01]]],

[[[ 2.1467e-01,  8.5025e-02,  1.8998e-01,  4.9180e-01, -1.3873e-02],
 [-9.4948e-02, -3.1274e-01, -3.0142e-01, -1.3185e+00, -2.7037e-01],
 [ 1.3640e-01,  1.9933e-01,  1.9815e-02, -1.0822e-01, -8.4117e-01],
 [ 1.6918e-01, -3.6901e-01,  4.4954e-02,  1.1328e-01, -2.5843e-01],
 [-1.3340e-01, -2.0641e-01,  6.5386e-01,  6.8466e-01, -5.8478e-01]]],
requires_grad=True), Parameter containing:

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tensor([-0.5798, -0.4699, -0.5302, -0.3251, -0.5173, -0.3805, -0.4823, -0.4242,
        -0.2819, -0.6181, -0.6394,  1.1976, -1.3630, -0.3718, -0.8765, -0.5770],
        requires_grad=True), Parameter containing:
tensor([[[[-1.1258e-02,  7.3494e-03, -3.8019e-02, -1.3836e-02, -1.9857e-02],
          [-1.5648e-02, -5.4026e-02, -5.8677e-03,  6.2388e-04, -4.1126e-02],
          [-6.1997e-02, -5.4165e-02, -4.3456e-02,  1.3695e-02, -5.4990e-03],
          [-7.8909e-02,  2.5176e-03, -5.3599e-02, -1.2680e-02, -3.7355e-02],
          [-7.8414e-03,  5.6345e-02, -7.0011e-02, -1.2198e-02,  3.1331e-02]],

          [[-1.5120e-02, -7.0177e-02,  1.1537e-03, -1.8049e-02, -3.5756e-02],
           [ 4.1762e-03, -6.1718e-02, -4.1785e-02, -3.6125e-02, -1.2600e-03],
           [-1.6281e-02, -5.4033e-02,  5.7828e-02,  1.9979e-02, -9.2012e-03],
           [-6.6801e-02, -3.2293e-02, -4.6492e-02, -2.2975e-02,  2.0524e-02],
           [ 2.6964e-03,  4.9242e-02, -3.3726e-02, -9.6284e-04, -5.5006e-02]],

          [[ 4.6986e-03, -1.5853e-02, -8.6363e-02, -2.4292e-03, -6.8606e-02],
           [-3.3559e-04, -2.2237e-02, -9.9869e-02, -4.9593e-02, -4.6421e-02],
           [-1.4797e-02, -4.4976e-02, -5.6094e-03, -5.6435e-02, -6.0889e-02],
           [-4.2268e-02, -5.5749e-02, -7.9291e-02, -1.0744e-03, -2.0138e-02],
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          ...,

           [[ 1.0442e-02, -4.5476e-02, -2.5854e-02, -3.9499e-02, -6.3439e-02],
            [-4.9290e-02, -4.2015e-02,  4.3776e-02, -3.8108e-02, -3.1724e-02],
            [-4.2079e-02, -6.7316e-02,  7.7326e-03,  3.5436e-02, -6.0779e-03],
            [-5.4433e-02, -3.8104e-02, -1.2512e-02, -4.9112e-02, -6.1374e-02],
            [-1.8008e-02, -1.0592e-02,  3.9368e-02, -1.7672e-02, -5.6034e-02]],

           [[ 2.3759e-02,  2.1393e-02,  5.1675e-03,  1.3079e-02,  4.5411e-03],
            [-2.7857e-03, -8.9568e-03, -5.9338e-02, -2.9236e-02,  6.3065e-03],
            [-2.0955e-02, -1.4885e-03, -3.2490e-02, -4.3689e-02, -3.9551e-02],
            [-6.9838e-02, -3.2230e-02, -1.1518e-02, -1.6882e-02, -2.1851e-02],
            [-4.8513e-02, -5.6783e-03, -9.9797e-03, -8.4477e-02, -2.0756e-02]],

           [[ 5.3172e-02, -3.8745e-02,  3.8087e-02, -5.2748e-03, -1.4150e-02],
            [-1.4834e-02, -6.7969e-03,  1.6155e-02, -2.1015e-02,  2.3897e-02],
            [ 1.3973e-02, -3.4469e-02, -1.6928e-02, -3.8436e-02,  1.0355e-02],
            [ 3.8279e-02,  2.4278e-02, -2.6709e-02,  3.7553e-02,  4.3944e-02],
            [-5.4545e-03,  2.0822e-02,  3.7806e-02,  1.2539e-02, -4.9356e-02]]],

          [[[-1.5777e+00, -1.5536e+00, -1.8640e+00, -2.2343e+00, -5.2697e-01],
            [-1.7286e+00, -3.2282e+00, -3.0719e+00, -3.0921e+00, -1.8024e+00],
            [ 5.3796e-02, -1.8447e+00, -2.0657e+00, -1.3562e+00, -1.1821e+00],
            [-9.4620e-01, -1.7181e+00, -1.2289e+00,  6.1938e-02,  5.7174e-01],
            [-1.7820e+00,  2.0985e+00,  1.1988e+00,  1.5707e+00,  8.5148e-01]],

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         -4.1590e+00, -2.4777e+00],
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         -4.3766e+00, -2.0868e+00],
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         -3.2169e+00, -1.3723e+00],
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         -2.2120e+00, -1.1118e+00]], requires_grad=True)
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         -4.3766e+00, -2.0868e+00],
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[[[ 1.6816e-01,  4.6956e-01,  1.8892e-01,  5.2589e-01,  2.7310e-01],
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  [ 1.3000e-01,  2.3582e-01,  6.8328e-01,  1.2434e-01,  1.1378e-01],
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  [-6.0247e-02, -1.3960e-01,  4.3944e-02, -6.5704e-03,  1.4900e-02],
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  [-1.3340e-01, -2.0641e-01,  6.5386e-01,  6.8466e-01, -5.8478e-01]]]],
requires_grad=True), Parameter containing:
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        -0.2819, -0.6181, -0.6394,  1.1976, -1.3630, -0.3718, -0.8765, -0.5770],
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  [[-1.5120e-02, -7.0177e-02,  1.1537e-03, -1.8049e-02, -3.5756e-02],
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  [[ 4.6986e-03, -1.5853e-02, -8.6363e-02, -2.4292e-03, -6.8606e-02],
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 [-4.1678e-01, -8.9077e-01, -1.1766e+00, -7.7393e-01, -1.1783e+00],
 [-9.1959e-02,  1.0265e-01,  1.6627e+00,  4.4757e-01,  8.3771e-01],
 [-1.3357e+00, -1.7363e-01,  1.1471e+00,  7.5730e-01, -7.6404e-01],
 [-1.8176e+00, -1.7694e+00, -2.5001e-01,  7.7628e-01,  1.1035e+00]]],

 ...,

 [[[-2.1530e-02,  2.5922e-02,  1.4172e-02, -5.3666e-02, -2.4726e-02],
 [ 1.2185e-02, -1.2587e-02,  2.8974e-02,  1.8812e-02, -4.8989e-02],
 [-5.9511e-02,  3.4360e-02,  3.4028e-02, -3.0890e-02,  2.5812e-02],
 [-2.3585e-02, -2.3304e-02, -3.3784e-02, -7.7534e-03, -2.2354e-02],
 [ 1.2770e-02, -2.4136e-02, -5.0185e-02, -1.3890e-02,  3.3630e-02]],

```

```

[[-6.8278e-03,  3.6592e-02, -1.7718e-02, -3.0847e-02,  1.3932e-02],
 [ 6.2180e-02,  2.7648e-02,  2.0957e-02, -1.7003e-02, -2.6221e-02],
 [-1.9348e-02, -4.6261e-02, -5.3347e-02, -4.3830e-02,  3.2354e-02],
 [-4.1634e-02, -8.5004e-03, -1.5801e-02, -1.1116e-02, -8.3004e-03],
 [-1.6466e-02, -1.4666e-02, -3.1504e-02, -3.3324e-02,  1.7529e-02]],

[[-9.3504e-04, -5.6011e-02,  3.2887e-02,  2.3108e-02, -4.6116e-02],
 [-5.0358e-02,  2.2708e-02,  1.7301e-02, -9.3276e-03,  1.1432e-02],
 [-5.4469e-02,  1.5869e-02, -3.0702e-02, -1.7364e-02, -4.6521e-02],
 [-1.9659e-02, -3.9255e-02, -5.2220e-02, -3.7988e-02,  7.0438e-03],
 [-4.2262e-02, -4.3606e-02, -2.9420e-02, -4.0524e-02,  3.6537e-02]],

...,

[[-2.7015e-02,  2.0766e-02, -6.5260e-03,  2.6785e-02,  3.4985e-02],
 [ 4.3031e-03, -2.9068e-02, -1.6654e-02, -5.3108e-02, -9.1702e-03],
 [ 1.1195e-02,  1.8444e-02, -1.9388e-02,  3.2607e-03,  2.2431e-02],
 [-2.3925e-02,  3.7018e-02, -2.9737e-03, -4.4523e-02,  2.3565e-02],
 [-1.9255e-02, -3.4495e-02,  3.0790e-02,  1.7070e-02,  3.3571e-02]],

[[-7.8336e-03, -1.8539e-02, -1.2758e-02, -4.9276e-02, -2.1528e-02],
 [ 1.5423e-02, -9.7191e-03, -1.8057e-02, -1.1870e-02,  3.1416e-02],
 [ 1.1566e-02, -3.5297e-02, -3.6120e-03, -4.4701e-02, -4.7710e-02],
 [ 1.5842e-02, -3.2990e-02, -1.2375e-02, -1.6905e-02, -4.7926e-02],
 [ 2.7518e-02, -3.3978e-02,  1.1689e-02, -5.2336e-02,  4.0307e-03]],

[[-4.0129e-02, -3.3093e-02,  5.2136e-02,  1.0048e-02,  4.8554e-02],
 [ 6.7874e-02,  3.9092e-02, -4.3035e-02, -3.8428e-02,  2.0838e-02],
 [ 2.2879e-02, -6.4214e-02,  2.9229e-02, -2.6456e-02, -2.9552e-02],
 [ 5.3007e-02, -4.8049e-02,  2.7975e-02, -2.8338e-02,  4.6520e-02],
 [ 4.0845e-02, -5.6063e-03,  4.3910e-02,  2.1920e-02, -8.2199e-03]]],

[[[ 6.8691e-03,  7.1583e-02,  1.9478e-02, -3.8470e-02, -2.8183e-02],
 [-2.0495e-02,  1.7514e-02, -1.0125e-02, -2.9638e-02, -3.5702e-02],
 [-1.8933e-02, -6.3624e-03, -1.2850e-01, -6.6732e-02, -2.8342e-02],
 [ 5.3883e-03, -3.2374e-03, -2.8680e-02,  2.7850e-02, -5.4738e-02],
 [-7.0902e-03,  5.3247e-03, -6.7890e-02, -7.2888e-02, -4.8119e-02]],

[[-3.0375e-02,  7.4218e-02,  6.0692e-02, -4.7439e-02,  2.2013e-02],
 [-1.1349e-02, -2.6959e-02, -2.6271e-02, -2.2969e-02, -5.2719e-02],
 [-4.2866e-02, -1.5479e-02, -1.4287e-02, -2.1599e-02, -3.6768e-02],
 [-3.0326e-02, -5.8029e-02, -3.1198e-02, -9.8013e-02,  2.3009e-03],
 [ 2.6048e-02,  7.0907e-03, -1.1475e-02, -2.9103e-02,  3.9935e-03]],

[[-3.7438e-02, -7.3879e-03,  2.3653e-02, -7.1795e-02, -3.9466e-02],
 [-3.8011e-02, -6.5770e-02, -1.9350e-02, -4.7584e-02, -4.4748e-03],
 [-7.4177e-02, -1.4174e-02, -1.3600e-01, -9.0981e-02, -2.9574e-02],

```

```

[ 7.4632e-02, -6.9693e-02, -9.7973e-02, -6.3254e-02, -2.6935e-02],
[ 3.0056e-02, -1.3393e-02, -4.1852e-02, 1.9800e-03, 3.3574e-02]],

...,

[[ 2.8658e-02, -3.8628e-02, -9.9297e-02, -1.3515e-01, -5.0442e-02],
[-1.0699e-02, 5.4232e-03, -7.8695e-03, -1.0654e-01, 1.2287e-02],
[-4.1458e-02, -4.6528e-02, -2.5498e-02, -5.0035e-02, -2.6954e-02],
[-1.4359e-01, -4.9112e-02, 3.5110e-02, 1.9003e-02, 7.0870e-02],
[-5.9434e-02, 3.5643e-02, -4.2622e-02, -8.2919e-02, 6.8249e-03]],

[[-6.1948e-02, 2.2131e-02, 4.3903e-02, -6.2343e-02, 4.9754e-02],
[-4.5630e-02, 3.3898e-02, -3.6502e-02, 4.0105e-02, -5.4685e-02],
[-5.4512e-02, -5.0401e-02, -4.2074e-02, -1.2263e-01, -2.5382e-02],
[-1.2669e-02, -3.4864e-02, -4.9617e-03, -7.7346e-02, -2.5864e-02],
[-7.9469e-03, -5.1228e-02, -8.6805e-03, 2.9443e-02, -1.7977e-02]],

[[ 1.6715e-02, 2.5611e-02, -2.7691e-02, 2.1883e-02, 3.3083e-02],
[ 1.2801e-02, 4.1717e-02, 3.5953e-02, 1.4587e-02, -5.4395e-03],
[ 1.8895e-02, 3.9885e-02, -1.2169e-02, 4.5855e-02, -2.3356e-03],
[ 2.0065e-02, -4.3316e-02, 1.3432e-02, 5.1943e-03, 1.6336e-03],
[-8.4673e-04, -2.6832e-02, 1.6150e-02, 1.5072e-02, 2.3151e-02]]],

[[[ 3.4749e+00, 4.6776e+00, 4.1566e-02, -3.1418e-01, 2.1050e+00],
[ 5.0261e+00, 5.1961e+00, -4.1965e-01, -2.1665e-01, 1.3241e+00],
[ 3.9965e+00, 2.8375e+00, -7.0791e-01, -6.9960e-01, 1.8607e+00],
[-1.4548e+00, -2.7318e+00, -3.2741e-01, 1.4367e+00, 5.2470e+00],
[-2.7642e+00, -1.9451e+00, -1.7674e+00, 4.6773e-01, 3.8230e+00]],

[[-1.0729e+00, -5.4863e-01, 1.5321e-01, -8.7755e-01, -2.6361e+00],
[-1.8633e+00, -5.5081e-01, -3.8933e-01, -1.0692e+00, -2.1088e+00],
[ 5.2690e-01, 5.0172e-01, -2.5523e+00, -1.7441e+00, -1.3897e+00],
[-1.3562e+00, -1.8643e+00, -1.6091e+00, -1.0525e+00, -1.2302e+00],
[-1.0853e+00, -3.1496e-01, -4.9779e-02, -3.0734e-01, -5.5174e-01]],

[[ 6.0532e-01, 4.3588e-01, -7.8541e-01, -8.6212e-01, 3.4024e-01],
[ 1.8867e-01, -5.1085e-01, -1.4745e-01, -5.3365e-01, -4.7699e-02],
[-5.5365e-01, -1.2886e-01, -1.9305e-01, -4.9583e-01, -9.2746e-01],
[ 1.0830e-01, 4.5374e-01, 1.7288e-01, -4.3502e-01, -2.7221e-01],
[ 1.5622e-01, 3.1555e-01, 6.3203e-01, 4.9695e-01, 2.2957e-01]],

...,

[[-8.3091e-02, 1.7897e-01, 2.2224e-01, -1.2460e-01, 1.6183e-01],
[ 1.5525e-01, 4.9875e-02, 2.4034e-01, -4.5917e-03, 1.6542e-01],
[ 8.5632e-02, -1.7923e-01, -4.9862e-01, 1.6854e-01, 2.2620e-01],
[-1.3161e-01, -4.3531e-01, 1.7428e-02, 8.0013e-02, -7.2802e-02],

```

```

[-3.9312e-02, -1.3243e-02, 4.7651e-02, -1.5097e-01, -1.0272e-01]],

[[-6.9673e-01, 1.5798e-01, 2.4901e-01, -2.4305e-01, -5.7818e-01],
 [-6.1282e-01, 3.4604e-01, 7.0732e-01, -3.2243e-01, -5.5176e-01],
 [ 1.2415e-01, 4.1119e-01, 2.2410e-01, -4.1459e-01, -6.9169e-01],
 [-9.9301e-01, -5.1767e-01, 4.5080e-02, 2.4471e-01, 6.0488e-01],
 [-5.9032e-01, 6.2748e-01, 6.4247e-01, 1.5291e-01, 1.0950e-01]],

[[ 8.4344e-01, 3.1455e-01, 8.6240e-01, 8.1623e-01, -9.4462e-01],
 [-2.0247e+00, -1.4187e+00, -6.7367e-01, -2.9985e-01, -1.7822e+00],
 [-1.6706e+00, 1.1250e+00, 5.6729e-01, -1.2537e+00, -8.9747e-01],
 [ 4.3762e-01, 8.0501e-02, 3.9603e-01, 2.6356e-01, -1.4767e-01],
 [ 7.9404e-01, 2.5119e-04, -3.9621e-01, -5.8200e-01, -8.4536e-02]]],
requires_grad=True), Parameter containing:
tensor([-0.0635, -0.6156, -1.3196, -0.2823, 0.0053, -0.4806, -0.0578, -0.4660,
 -0.0731, -0.3763, -0.0477, -0.2753, -1.0111, -1.4200, -0.9503, -1.1407,
 -0.2776, -0.0390, -0.0441, -0.0457, -0.5823, -0.8582, 0.9348, -1.4674,
 -0.2576, -0.0503, -1.0895, -0.0399, -0.0229, -0.0588, -0.0391, -0.2854],
requires_grad=True), Parameter containing:
tensor([[[-2.0731e-02, -1.4453e-02, -5.1883e-04, ..., -7.8631e+00,
 -4.8086e+00, -2.7759e+00],
 [-2.2037e-02, -3.6387e-03, -7.6505e-03, ..., -3.6198e+00,
 -4.1590e+00, -2.4777e+00],
 [-1.3324e-02, -1.7820e-02, 3.7923e-02, ..., -7.2954e+00,
 -4.3766e+00, -2.0868e+00],
 ...,
 [-1.9467e-03, 3.2024e-02, 2.4679e-02, ..., -2.1963e+00,
 -4.0891e+00, -4.3018e+00],
 [ 2.1002e-03, -1.3206e-02, 6.5986e-03, ..., -7.8599e+00,
 -3.2169e+00, -1.3723e+00],
 [-1.2797e-02, 1.8820e-03, -2.8647e-02, ..., -3.3872e+00,
 -2.2120e+00, -1.1118e+00]], requires_grad=True), Parameter containing:
tensor([-5.8747, -1.3174, -3.7940, -4.5623, -3.6757, -4.5778, -6.3260, -4.3263,
 -2.1118, -3.0725], requires_grad=True)], 'lr': 0.01, 'betas': (0.9,
0.99), 'eps': 1e-08, 'weight_decay': 0}
p: Parameter containing:
tensor([-5.8747, -1.3174, -3.7940, -4.5623, -3.6757, -4.5778, -6.3260, -4.3263,
 -2.1118, -3.0725], requires_grad=True)
p.data: tensor([-5.8747, -1.3174, -3.7940, -4.5623, -3.6757, -4.5778, -6.3260,
-4.3263,
 -2.1118, -3.0725])
Epoch [17/30], Step [400/600], Acc: 0.9400 Loss: 1.2867
Epoch [17/30], Step [500/600], Acc: 0.9600 Loss: 0.4247
Epoch [17/30], Step [600/600], Acc: 0.9900 Loss: 0.0990
Test Accuracy of the model on the 10000 test images: 1.00
Test Loss: {:.4f} 0.0
Epoch [18/30], Step [100/600], Acc: 0.9800 Loss: 0.7643
Epoch [18/30], Step [200/600], Acc: 0.9700 Loss: 0.4344

```


Epoch [18/30], Step [300/600], Acc: 0.9500 Loss: 1.2524
 Epoch [18/30], Step [400/600], Acc: 0.9900 Loss: 0.9781
 Epoch [18/30], Step [500/600], Acc: 0.9100 Loss: 1.1249
 Epoch [18/30], Step [600/600], Acc: 0.9900 Loss: 0.2399
 Test Accuracy of the model on the 10000 test images: 0.98
 Test Loss: {:.4f} 1.3600866794586182
 Epoch [19/30], Step [100/600], Acc: 0.9400 Loss: 2.5171
 Epoch [19/30], Step [200/600], Acc: 0.9600 Loss: 0.6840
 Epoch [19/30], Step [300/600], Acc: 0.9800 Loss: 0.4200
 Epoch [19/30], Step [400/600], Acc: 0.9500 Loss: 1.5232
 Epoch [19/30], Step [500/600], Acc: 0.9800 Loss: 0.3669
 Epoch [19/30], Step [600/600], Acc: 0.9600 Loss: 0.4542
 Test Accuracy of the model on the 10000 test images: 0.91
 Test Loss: {:.4f} 1.4133572578430176
 Epoch [20/30], Step [100/600], Acc: 0.9800 Loss: 0.2816
 Epoch [20/30], Step [200/600], Acc: 0.9700 Loss: 0.6179
 Epoch [20/30], Step [300/600], Acc: 0.9500 Loss: 1.6446
 Epoch [20/30], Step [400/600], Acc: 0.9900 Loss: 0.1460
 Epoch [20/30], Step [500/600], Acc: 0.9600 Loss: 0.9574
 Epoch [20/30], Step [600/600], Acc: 0.9700 Loss: 1.3947
 Test Accuracy of the model on the 10000 test images: 0.98
 Test Loss: {:.4f} 0.42429134249687195
 Epoch [21/30], Step [100/600], Acc: 1.0000 Loss: 0.0004
 Epoch [21/30], Step [200/600], Acc: 0.9800 Loss: 0.6793
 Epoch [21/30], Step [300/600], Acc: 0.9700 Loss: 0.1079
 Epoch [21/30], Step [400/600], Acc: 0.9900 Loss: 0.3161
 Epoch [21/30], Step [500/600], Acc: 0.9800 Loss: 0.1653
 Epoch [21/30], Step [600/600], Acc: 0.9600 Loss: 0.6421
 Test Accuracy of the model on the 10000 test images: 0.96
 Test Loss: {:.4f} 0.8857026100158691
 Epoch [22/30], Step [100/600], Acc: 0.9500 Loss: 0.9321
 Epoch [22/30], Step [200/600], Acc: 0.9700 Loss: 1.0103
 Epoch [22/30], Step [300/600], Acc: 0.9800 Loss: 0.7715
 Epoch [22/30], Step [400/600], Acc: 0.9800 Loss: 0.0560
 Epoch [22/30], Step [500/600], Acc: 0.9900 Loss: 0.2444
 Epoch [22/30], Step [600/600], Acc: 0.9400 Loss: 1.0488
 Test Accuracy of the model on the 10000 test images: 0.99
 Test Loss: {:.4f} 0.07310611009597778
 Epoch [23/30], Step [100/600], Acc: 0.9500 Loss: 0.6981
 Epoch [23/30], Step [200/600], Acc: 0.9900 Loss: 0.0084
 Epoch [23/30], Step [300/600], Acc: 0.9800 Loss: 0.8472
 Epoch [23/30], Step [400/600], Acc: 1.0000 Loss: 0.0000
 Epoch [23/30], Step [500/600], Acc: 0.9600 Loss: 0.8085
 Epoch [23/30], Step [600/600], Acc: 0.9700 Loss: 0.7574
 Test Accuracy of the model on the 10000 test images: 0.96
 Test Loss: {:.4f} 0.6194711923599243
 Epoch [24/30], Step [100/600], Acc: 0.9900 Loss: 0.0543
 Epoch [24/30], Step [200/600], Acc: 0.9900 Loss: 0.4112

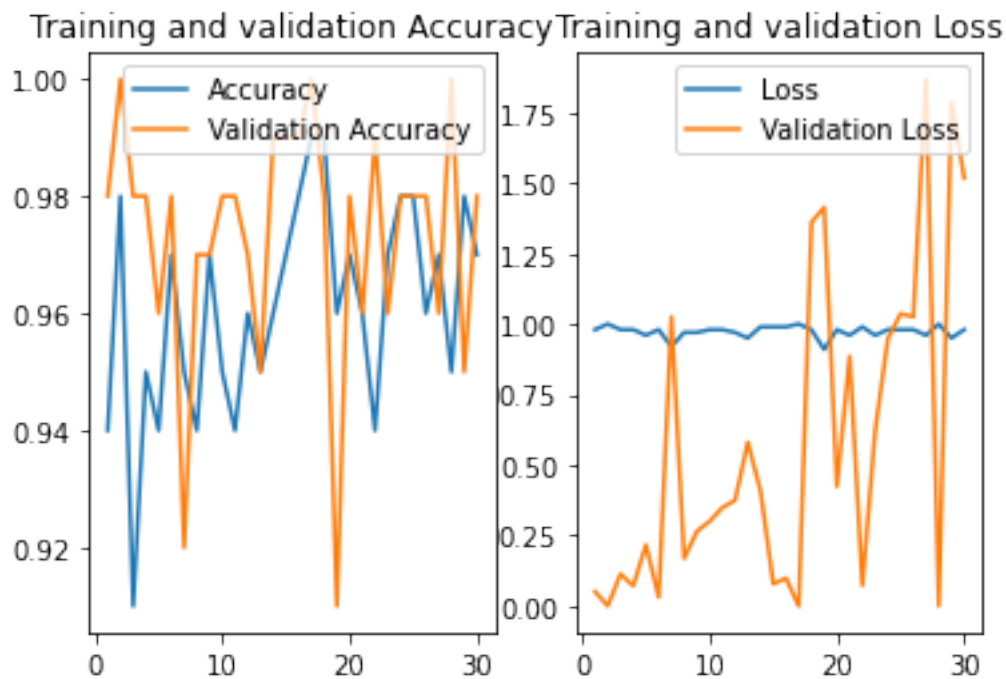
Epoch [24/30], Step [300/600], Acc: 0.9900 Loss: 0.4793
 Epoch [24/30], Step [400/600], Acc: 0.9600 Loss: 0.9340
 Epoch [24/30], Step [500/600], Acc: 0.9500 Loss: 0.8566
 Epoch [24/30], Step [600/600], Acc: 0.9800 Loss: 1.2131
 Test Accuracy of the model on the 10000 test images: 0.98
 Test Loss: {:.4f} 0.947405993938446
 Epoch [25/30], Step [100/600], Acc: 0.9500 Loss: 0.8121
 Epoch [25/30], Step [200/600], Acc: 0.9800 Loss: 0.4048
 Epoch [25/30], Step [300/600], Acc: 1.0000 Loss: 0.0062
 Epoch [25/30], Step [400/600], Acc: 0.9500 Loss: 2.3036
 Epoch [25/30], Step [500/600], Acc: 1.0000 Loss: 0.0034
 Epoch [25/30], Step [600/600], Acc: 0.9800 Loss: 0.3964
 Test Accuracy of the model on the 10000 test images: 0.98
 Test Loss: {:.4f} 1.0363484621047974
 Epoch [26/30], Step [100/600], Acc: 0.9800 Loss: 1.8558
 Epoch [26/30], Step [200/600], Acc: 1.0000 Loss: 0.0000
 Epoch [26/30], Step [300/600], Acc: 0.9900 Loss: 0.1666
 Epoch [26/30], Step [400/600], Acc: 0.9800 Loss: 0.6717
 Epoch [26/30], Step [500/600], Acc: 0.9700 Loss: 2.2457
 Epoch [26/30], Step [600/600], Acc: 0.9600 Loss: 0.2153
 Test Accuracy of the model on the 10000 test images: 0.98
 Test Loss: {:.4f} 1.02531099319458
 Epoch [27/30], Step [100/600], Acc: 0.9800 Loss: 0.7895
 Epoch [27/30], Step [200/600], Acc: 0.9600 Loss: 2.9149
 Epoch [27/30], Step [300/600], Acc: 0.9900 Loss: 0.5655
 Epoch [27/30], Step [400/600], Acc: 0.9900 Loss: 0.1530
 Epoch [27/30], Step [500/600], Acc: 0.9600 Loss: 1.9158
 Epoch [27/30], Step [600/600], Acc: 0.9700 Loss: 2.3261
 Test Accuracy of the model on the 10000 test images: 0.96
 Test Loss: {:.4f} 1.868557095527649
 Epoch [28/30], Step [100/600], Acc: 0.9600 Loss: 0.5891
 Epoch [28/30], Step [200/600], Acc: 0.9700 Loss: 1.3618
 Epoch [28/30], Step [300/600], Acc: 0.9900 Loss: 0.0225
 Epoch [28/30], Step [400/600], Acc: 1.0000 Loss: 0.0063
 Epoch [28/30], Step [500/600], Acc: 1.0000 Loss: 0.0000
 Epoch [28/30], Step [600/600], Acc: 0.9500 Loss: 0.4104
 Test Accuracy of the model on the 10000 test images: 1.00
 Test Loss: {:.4f} 0.000630711845587939
 Epoch [29/30], Step [100/600], Acc: 0.9600 Loss: 0.4753
 Epoch [29/30], Step [200/600], Acc: 0.9800 Loss: 1.1036
 Epoch [29/30], Step [300/600], Acc: 0.9700 Loss: 0.9471
 Epoch [29/30], Step [400/600], Acc: 0.9900 Loss: 0.2758
 Epoch [29/30], Step [500/600], Acc: 0.9600 Loss: 0.9599
 Epoch [29/30], Step [600/600], Acc: 0.9800 Loss: 0.1726
 Test Accuracy of the model on the 10000 test images: 0.95
 Test Loss: {:.4f} 1.787406325340271
 Epoch [30/30], Step [100/600], Acc: 1.0000 Loss: 0.0000
 Epoch [30/30], Step [200/600], Acc: 0.9700 Loss: 1.6293

Epoch [30/30], Step [300/600], Acc: 0.9800 Loss: 0.7402
 Epoch [30/30], Step [400/600], Acc: 0.9700 Loss: 1.1115
 Epoch [30/30], Step [500/600], Acc: 0.9800 Loss: 0.2950
 Epoch [30/30], Step [600/600], Acc: 0.9700 Loss: 0.5006
 Test Accuracy of the model on the 10000 test images: 0.98
 Test Loss: {:.4f} 1.5171868801116943

```
[18]: x = range(1, num_epochs+1)
acc = [i[0][0] for i in history]
val_acc = [i[1][0] for i in history]
loss = [i[1][0] for i in history]
val_loss = [i[1][1] for i in history]
plt.subplot(1, 2, 1)
plt.plot(x, acc, label="Accuracy")
plt.plot(x, val_acc, label="Validation Accuracy")
plt.legend(loc='upper right')
plt.title("Training and validation Accuracy")

plt.subplot(1, 2, 2)
plt.plot(x, loss, label="Loss")
plt.plot(x, val_loss, label="Validation Loss")
plt.legend(loc='upper right')
plt.title("Training and validation Loss")

plt.show()
```



[]:

[]: