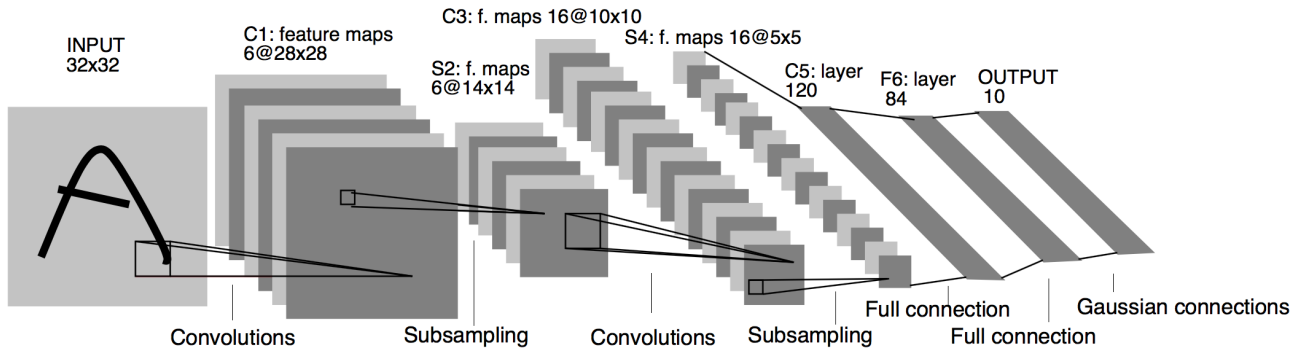


LeNet-5-Quantized

In this notebook, i want to demonstrate how i built LeNet-5 in PyTorch and Quantize it for visualization.

Network details in this [Blog post](#) and architecture view can be found below.



Requirments

- PyTorch (torch)
- torchvision
- numpy
- pillow (PIL)

In [1]:

```
import numpy as np
import torch
import torch.nn as nn
import torch.nn.functional as F
import torchvision.transforms as transforms
from torch.utils.data import DataLoader
from torch.utils.data.sampler import SubsetRandomSampler
from torchvision import datasets
from PIL import Image
```

MNIST Dataset

We will download the dataset with `torchvision` and add to it some transforms like padding so the size of the input images become 32x32.

We then split the data to `train_data` and `test_data` randomly.

We make another split in the training data for validation purposes using `SubsetRandomSampler`.

In [2]:

```
# number of subprocesses to use for data loading
num_workers = 0
# how many samples per batch to load
batch_size = 20
# validation sample
valid_sample = 0.2

transform = [transforms.Pad(2), transforms.ToTensor()]

# choose the training and test datasets
train_data = datasets.MNIST(root='data',
                             train=True,
                             download=True,
                             transform=transforms.Compose(transform))
test_data = datasets.MNIST(root='data',
                             train=False,
```

```

        train=False,
        download=True,
        transform=transforms.Compose(transform))

# Creating validation sampler
num_train = len(train_data)
indices = list(range(num_train))
np.random.shuffle(indices)
split = int(valid_sample * num_train)
train_idx, valid_idx = indices[split:], indices[:split]

# define sampler for batches
trainSampler = SubsetRandomSampler(train_idx)
validationSampler = SubsetRandomSampler(valid_idx)

# prepare data loaders
train_loader = DataLoader(train_data,
                           batch_size=batch_size,
                           sampler=trainSampler,
                           num_workers=num_workers)
validation_loader = DataLoader(train_data,
                               batch_size=batch_size,
                               sampler=validationSampler,
                               num_workers=num_workers)
test_loader = DataLoader(test_data,
                          batch_size=batch_size,
                          num_workers=num_workers)

```

LeNet-5 Network

We inherited from `nn.Module` to construct the LeNet-5 architecture in two steps

1. initialization of layers in `__init__`
2. connecting layers to build the pipeline of the network in `forward`

In [3]:

```

class LeNet(nn.Module):
    def __init__(self):
        super(LeNet, self).__init__()
        # 32 x 32 x 1
        self.conv1 = nn.Conv2d(1, 6, (5, 5), padding=0, stride=1)
        # 28 x 28 x 6
        self.pool1 = nn.AvgPool2d((2, 2), stride=2)
        # 14 x 14 x 6
        self.conv2 = nn.Conv2d(6, 16, (5, 5), padding=0, stride=1)
        # 10 x 10 x 16
        self.pool2 = nn.AvgPool2d((2, 2), stride=2)
        # 5 x 5 x 16
        self.conv3 = nn.Conv2d(16, 120, (5, 5), padding=0, stride=1)
        # 1 x 1 x 120
        self.fc1 = nn.Linear(120, 84)
        self.fc2 = nn.Linear(84, 10)

    def forward(self, x):
        x = F.relu(self.conv1(x))
        x = self.pool1(x)
        x = F.relu(self.conv2(x))
        x = self.pool2(x)
        x = F.relu(self.conv3(x))
        # Choose either view or flatten (as you like)
        x = x.view(x.size(0), -1)
        # x = torch.flatten(x, start_dim=1)
        x = F.relu(self.fc1(x))
        x = torch.softmax(self.fc2(x), dim=-1)
        return x

model = LeNet()
print(model)

```

```

LeNet(
  (conv1): Conv2d(1, 6, kernel_size=(5, 5), stride=(1, 1))
  (pool1): AvgPool2d(kernel_size=(2, 2), stride=2, padding=0)
  (conv2): Conv2d(6, 16, kernel_size=(5, 5), stride=(1, 1))
  (pool2): AvgPool2d(kernel_size=(2, 2), stride=2, padding=0)
  (conv3): Conv2d(16, 120, kernel_size=(5, 5), stride=(1, 1))
  (fc1): Linear(in_features=120, out_features=84, bias=True)
  (fc2): Linear(in_features=84, out_features=10, bias=True)
)

```

```
(conv2): Conv2d(6, 16, kernel_size=(5, 5), stride=(1, 1))
(pool2): AvgPool2d(kernel_size=(2, 2), stride=2, padding=0)
(conv3): Conv2d(16, 120, kernel_size=(5, 5), stride=(1, 1))
(fc1): Linear(in_features=120, out_features=84, bias=True)
(fc2): Linear(in_features=84, out_features=10, bias=True)
)
```

Configurations

Here, we configure the loss function to be `CrossEntropyLoss` and the optimizer to be `Stochastic Gradient Descent (SGD)`.

In [4]:

```
# specify loss function
criterion = nn.CrossEntropyLoss()

# specify optimizer
optimizer = torch.optim.SGD(model.parameters(), lr=0.01)

# Number of epochs
n_epochs = 30

# classes of MNIST
classes = list(range(10))
```

Training & Validation

We first check if a GPU is available so i can transfer the learning to it then, we put the model in training mode and after every epoch we put the model to eval mode so we check the validaiaon loss is getting better or not to save it in `model.pt`.

In [6]:

```
device = torch.device("cuda:0" if torch.cuda.is_available() else "cpu")
print("Training Device: {}".format(device))

model.to(device)

valid_loss_min = np.Inf

for epoch in range(n_epochs):

    # monitor training loss
    train_loss = 0.0
    valid_loss = 0.0

    #####
    # train the model #
    #####
    model.train() # prep model for training
    for data, target in train_loader:
        # clear the gradients of all optimized variables
        optimizer.zero_grad()
        # forward pass: compute predicted outputs by passing inputs to the model
        output = model(data.to(device))
        # calculate the loss
        loss = criterion(output, target.to(device))
        # backward pass: compute gradient of the loss with respect to model parameters
        loss.backward()
        # perform a single optimization step (parameter update)
        optimizer.step()
        # update running training loss
        train_loss += loss.item() * data.size(0)

    model.eval()
    for data, target in validation_loader:
        output = model(data.to(device))
        loss = criterion(output, target.to(device))
        valid_loss += loss.item() * data.size(0)

    # print training statistics
    # calculate average loss over an epoch
```

```

train_loss = train_loss / len(train_loader.sampler)
valid_loss = valid_loss / len(validation_loader.sampler)

print('Epoch: {} \tTraining Loss: {:.6f} \tValidation Loss: {:.6f}'.
      format(epoch + 1, train_loss, valid_loss))
if valid_loss <= valid_loss_min:
    print(
        'Validation loss decreased ({:.6f} --> {:.6f}). Saving model ...'
        .format(valid_loss_min, valid_loss))
    torch.save(model.state_dict(), 'model.pt')
    valid_loss_min = valid_loss

```

Training Device: cuda:0

```

Epoch: 1 Training Loss: 1.526873 Validation Loss: 1.504134
Validation loss decreased (inf --> 1.504134). Saving model ...
Epoch: 2 Training Loss: 1.499081 Validation Loss: 1.495360
Validation loss decreased (1.504134 --> 1.495360). Saving model ...
Epoch: 3 Training Loss: 1.493817 Validation Loss: 1.491775
Validation loss decreased (1.495360 --> 1.491775). Saving model ...
Epoch: 4 Training Loss: 1.490740 Validation Loss: 1.489847
Validation loss decreased (1.491775 --> 1.489847). Saving model ...
Epoch: 5 Training Loss: 1.488858 Validation Loss: 1.491222
Epoch: 6 Training Loss: 1.487440 Validation Loss: 1.486507
Validation loss decreased (1.489847 --> 1.486507). Saving model ...
Epoch: 7 Training Loss: 1.484747 Validation Loss: 1.488065
Epoch: 8 Training Loss: 1.484103 Validation Loss: 1.486853
Epoch: 9 Training Loss: 1.483307 Validation Loss: 1.484448
Validation loss decreased (1.486507 --> 1.484448). Saving model ...
Epoch: 10 Training Loss: 1.482461 Validation Loss: 1.492766
Epoch: 11 Training Loss: 1.481418 Validation Loss: 1.487505
Epoch: 12 Training Loss: 1.480546 Validation Loss: 1.485827
Epoch: 13 Training Loss: 1.479480 Validation Loss: 1.482752
Validation loss decreased (1.484448 --> 1.482752). Saving model ...
Epoch: 14 Training Loss: 1.478927 Validation Loss: 1.486612
Epoch: 15 Training Loss: 1.478528 Validation Loss: 1.489847
Epoch: 16 Training Loss: 1.478306 Validation Loss: 1.480082
Validation loss decreased (1.482752 --> 1.480082). Saving model ...
Epoch: 17 Training Loss: 1.477663 Validation Loss: 1.481047
Epoch: 18 Training Loss: 1.477179 Validation Loss: 1.479811
Validation loss decreased (1.480082 --> 1.479811). Saving model ...
Epoch: 19 Training Loss: 1.476587 Validation Loss: 1.480844
Epoch: 20 Training Loss: 1.476028 Validation Loss: 1.480483
Epoch: 21 Training Loss: 1.475836 Validation Loss: 1.484876
Epoch: 22 Training Loss: 1.475317 Validation Loss: 1.481178
Epoch: 23 Training Loss: 1.474498 Validation Loss: 1.478721
Validation loss decreased (1.479811 --> 1.478721). Saving model ...
Epoch: 24 Training Loss: 1.474309 Validation Loss: 1.478195
Validation loss decreased (1.478721 --> 1.478195). Saving model ...
Epoch: 25 Training Loss: 1.473834 Validation Loss: 1.478562
Epoch: 26 Training Loss: 1.473929 Validation Loss: 1.478281
Epoch: 27 Training Loss: 1.472880 Validation Loss: 1.477103
Validation loss decreased (1.478195 --> 1.477103). Saving model ...
Epoch: 28 Training Loss: 1.473116 Validation Loss: 1.478480
Epoch: 29 Training Loss: 1.472824 Validation Loss: 1.478246
Epoch: 30 Training Loss: 1.472566 Validation Loss: 1.476017
Validation loss decreased (1.477103 --> 1.476017). Saving model ...

```

In [11]:

```

# Loading weights
model.load_state_dict(torch.load("model.pt"))

```

Out[11]:

```

IncompatibleKeys(missing_keys=[], unexpected_keys=[])

```

Testing

Going through the testing dataset to get the accuracy of the model.

In [12]:

```

# initialize lists to monitor test loss and accuracy

```

```

# Evaluate model to monitor test loss and accuracy
test_loss = 0.0
class_correct = list(0. for i in range(10))
class_total = list(0. for i in range(10))

model.eval() # prep model for *evaluation*

# Disabling the gradient calculations for faster inference
with torch.no_grad():

    for data, target in test_loader:
        # forward pass: compute predicted outputs by passing inputs to the model
        output = model(data.to(device))
        # calculate the loss
        loss = criterion(output, target.to(device))
        # update test loss
        test_loss += loss.item() * data.size(0)
        # convert output probabilities to predicted class
        _, pred = torch.max(output, 1)
        # compare predictions to true label
        correct = np.squeeze(pred.eq(target.to(device).data.view_as(pred)))
        # calculate test accuracy for each object class
        for i in range(batch_size):
            label = target.data[i]
            class_correct[label] += correct[i].item()
            class_total[label] += 1

# calculate and print avg test loss
test_loss = test_loss / len(test_loader.dataset)
print('Test Loss: {:.6f}\n'.format(test_loss))

for i in range(10):
    if class_total[i] > 0:
        print('Test Accuracy of %5s: %2d%% (%2d/%2d)' %
              (str(i), 100 * class_correct[i] / class_total[i],
               np.sum(class_correct[i]), np.sum(class_total[i])))
    else:
        print('Test Accuracy of %5s: N/A (no training examples)' %
              (classes[i]))

print('\nTest Accuracy (Overall): %2d%% (%2d/%2d)' %
      (100. * np.sum(class_correct) / np.sum(class_total),
       np.sum(class_correct), np.sum(class_total)))

```

Test Loss: 1.477349

Test Accuracy of	0: 99% (973/980)
Test Accuracy of	1: 99% (1125/1135)
Test Accuracy of	2: 99% (1024/1032)
Test Accuracy of	3: 98% (994/1010)
Test Accuracy of	4: 98% (972/982)
Test Accuracy of	5: 97% (874/892)
Test Accuracy of	6: 98% (941/958)
Test Accuracy of	7: 98% (1008/1028)
Test Accuracy of	8: 97% (954/974)
Test Accuracy of	9: 97% (980/1009)

Test Accuracy (Overall): 98% (9845/10000)

Quantization

We deliver a visual representation to the feature maps generated from the learnt weights.

In [13]:

```

def quantize_arr(arr):
    ''' Quantization based on linear rescaling over min/max range. '''
    min_val, max_val = np.min(arr), np.max(arr)

    if max_val - min_val > 0:
        quantized = np.round(255 * (arr - min_val) / (max_val - min_val))
    else:
        quantized = np.zeros(arr.shape)

```

```

quantized = quantized.astype(np.uint8)
min_val = min_val.astype(np.float32)
max_val = max_val.astype(np.float32)

return quantized, min_val, max_val

example = np.random.randn(5, 5)
print(example)
quant, min_val, max_val = quantize_arr(example)
print("\n{}, Min_Val: {}, Max_Val: {}".format(quant, min_val, max_val))

```

```

[[ 0.32239952  0.6299848  0.49522384 -0.34924162 -0.06542242]
 [ 0.6983225  -1.43163343 -0.01080254 -0.3287633  -1.07295614]
 [ 0.4577306  1.20835983  0.17995941  0.50675542  0.10875256]
 [ 0.66299359  0.34143297  0.24831306 -0.93240116 -1.58395248]
 [ 0.41679823 -0.15240535 -0.18729947 -0.56203841  0.14382404]]

[[174 202 190 113 139]
 [208 14 144 115 47]
 [186 255 161 191 155]
 [205 176 167 60 0]
 [183 131 128 93 158]], Min_Val: -1.5839524269104004, Max_Val: 1.2083598375320435

```

Network Analysis

We will go through every layer and print its weights (if any) and the feature maps (outputs).

In [14]:

```

import matplotlib.pyplot as plt
%matplotlib inline

# Moving the model back to the CPU
model.to("cpu")

# parameters of the trained network
param = list(model.parameters())
for paramater in model.parameters():
    print(paramater.shape)

# Input image for analysis
input_img = next(iter(test_loader))[0][0].squeeze(0)
plt.imshow(input_img)

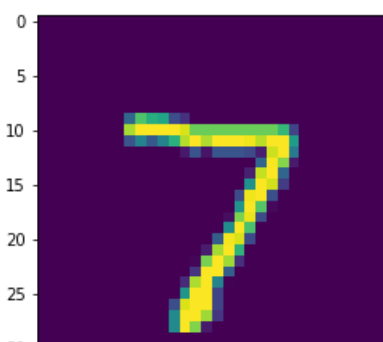
# Modifying the input image for analysis
input_img = input_img.unsqueeze(0).unsqueeze(0)

```

```

torch.Size([6, 1, 5, 5])
torch.Size([6])
torch.Size([16, 6, 5, 5])
torch.Size([16])
torch.Size([120, 16, 5, 5])
torch.Size([120])
torch.Size([84, 120])
torch.Size([84])
torch.Size([10, 84])
torch.Size([10])

```

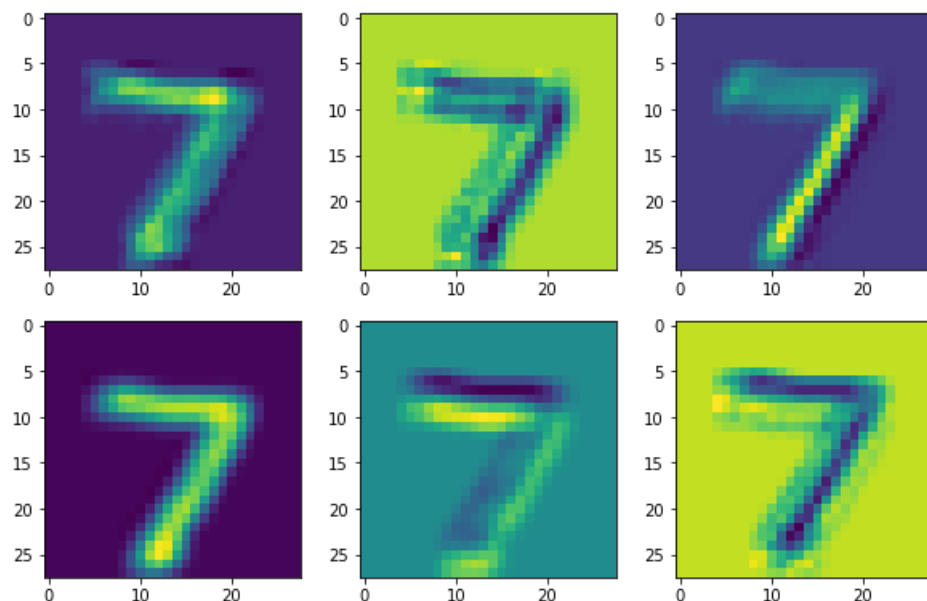




Conv1 Feature Maps

In [41]:

```
plt.figure(figsize=(10, 10))
row = 2
columns = 3
for i in range(6):
    output, min_val, max_val = quantize_arr(
        model.conv1.forward(input_img)[0][i].detach().numpy())
    plt.subplot(6 / columns + 1, columns, i + 1)
    plt.imshow(output)
```



Conv1 Weights

In [67]:

```
for i in range(6):
    print("{}\n".format(param[0][i].data, param[1][i]))
```

```
tensor([[[[-0.1392, -0.0013, -0.0764, -0.0440,  0.2024],
          [ 0.0741,  0.2391, -0.0454,  0.3111,  0.1284],
          [ 0.2625,  0.1316,  0.2938,  0.3271,  0.0010],
          [ 0.2872,  0.1272,  0.1625,  0.1558,  0.1099],
          [-0.1739, -0.0682, -0.0639,  0.1169,  0.2435]]]], Bias:  0.0021541251335293055
```

```
tensor([[[[-0.1500, -0.0917, -0.1312,  0.0719, -0.0843],
          [-0.0673, -0.1396, -0.0120,  0.0688, -0.1700],
          [-0.1610, -0.1396,  0.1279,  0.0887,  0.1595],
          [-0.0292, -0.1022, -0.1120, -0.1964, -0.1954],
          [-0.0489, -0.0901,  0.1371,  0.0966, -0.1286]]]], Bias:  0.2884324789047241
```

```
tensor([[[[-0.0940,  0.1093, -0.1816,  0.0386,  0.2490],
          [ 0.0999, -0.1599, -0.0131,  0.3524,  0.1301],
          [-0.1493, -0.1176,  0.2900,  0.3181,  0.2579],
          [-0.0556,  0.0427,  0.1739,  0.1776,  0.0317],
          [-0.0651,  0.2477,  0.2895,  0.1676, -0.0374]]]], Bias:  0.27740278840065
```

```
tensor([[[[ 0.1140,  0.4061,  0.6366,  0.3694,  0.4018],
          [ 0.8773,  1.1026,  1.1653,  0.9410,  0.6728],
          [ 1.1142,  1.3283,  1.3719,  0.8041,  0.6242],
          [ 0.7702,  0.7841,  0.8376,  0.6734,  0.1853],
          [-0.0273,  0.0558,  0.1170,  0.1564, -0.2065]]]], Bias:  0.05174165219068527
```

```
tensor([[[[ 0.3100,  0.3335,  0.3569,  0.1630,  0.4733],
          [ 0.2997,  0.4070,  0.0872,  0.3810,  0.4151],
```

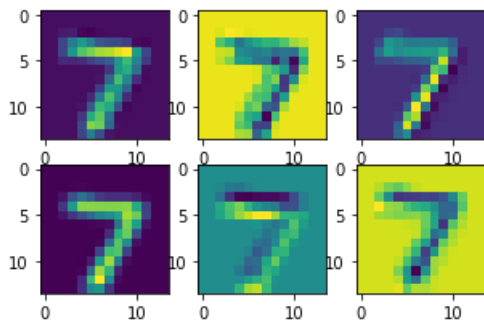
```
[ 0.0981,  0.2018, -0.1371, -0.0407,  0.0995],
[-0.2865, -0.1962, -0.4429, -0.0726, -0.2299],
[-0.2427, -0.3720, -0.5138, -0.4620, -0.2772]]]), Bias: 0.2544228136539459
```

```
tensor([[[[-0.0760,  0.0525, -0.0382, -0.0472, -0.1416],
[-0.0800,  0.0994,  0.0254, -0.0221,  0.1482],
[ 0.0828, -0.0501, -0.1878, -0.1265,  0.0927],
[-0.1192, -0.0942, -0.0388,  0.0642, -0.0893],
[-0.1917, -0.1646, -0.1277, -0.1457, -0.1457]]]), Bias: -0.10759879648685455
```

Pool1 Feature Maps

In [42]:

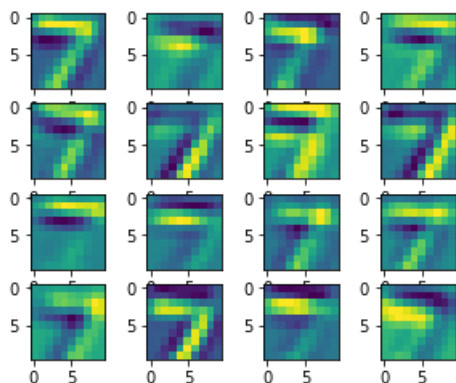
```
param = list(model.parameters())
plt.figure(figsize=(5, 5))
row = 2
columns = 3
for i in range(6):
    output, min_val, max_val = quantize_arr(
        model.pool1.forward(
            model.conv1.forward(input_img))[0][i].detach().numpy())
    plt.subplot(6 / columns + 1, columns, i + 1)
    plt.imshow(output)
```



Conv2 Feature Maps

In [43]:

```
plt.figure(figsize=(5, 5))
row = 4
columns = 4
for i in range(16):
    output, min_val, max_val = quantize_arr(
        model.conv2.forward(
            model.pool1.forward(
                model.conv1.forward(input_img)))[0][i].detach().numpy())
    plt.subplot(16 / columns + 1, columns, i + 1)
    plt.imshow(output)
```



Conv2 Weights

In [68]:

```
for i in range(16):
    print("{}, Bias: {}".format(param[2][i].data, param[3][i]))

tensor([[[ 5.7778e-02, -4.5251e-02, -6.9595e-03,  5.3545e-02, -6.0608e-02],
          [-5.0706e-02, -6.0102e-02, -1.1109e-02, -7.7673e-02, -8.4028e-02],
          [-3.4335e-02, -2.6037e-04,  4.2865e-02, -1.6815e-02,  4.4235e-02],
          [ 2.9101e-03,  5.7255e-02,  1.7985e-02,  1.1638e-01,  9.4634e-02],
          [ 2.1092e-02,  5.0036e-02, -6.0927e-02, -5.3108e-02,  5.9632e-02]],

         [[-4.4006e-02,  4.3586e-02, -7.5735e-02,  8.1297e-02,  1.4282e-02],
          [-4.3956e-02,  2.9111e-02, -1.5452e-03, -1.3034e-02, -5.5086e-02],
          [ 6.6408e-02, -3.8516e-02, -2.3768e-02, -2.9432e-02,  7.7599e-02],
          [-4.9443e-02, -6.8727e-02, -9.6019e-02, -7.0200e-02,  4.2996e-02],
          [ 1.5531e-02, -5.0869e-02,  1.6882e-02, -7.1572e-02,  3.5144e-02]],

         [[ 2.9490e-02,  4.5502e-03,  5.9413e-02, -3.5862e-02, -4.7095e-03],
          [-3.8177e-02, -6.9533e-02, -7.2539e-02,  3.9054e-02, -2.2786e-02],
          [ 5.6199e-02, -7.0299e-02,  9.3756e-02,  1.1087e-01, -7.7151e-02],
          [ 2.5112e-02,  6.4677e-02,  1.0491e-01,  3.5052e-02, -2.1491e-02],
          [-6.5784e-02, -5.6486e-02,  3.2287e-02, -1.0062e-01,  3.1084e-02]],

         [[ 5.7524e-02,  4.3424e-02, -6.8721e-02, -1.4908e-01,  3.0908e-02],
          [-1.0700e-02,  9.4359e-03, -5.3743e-02, -2.0887e-01, -1.4989e-01],
          [ 6.1284e-03, -2.0238e-02,  5.8148e-02, -5.8270e-03,  3.9046e-02],
          [-1.1567e-01,  3.9447e-02,  3.0841e-01,  3.9871e-01,  1.8737e-01],
          [-3.7253e-02,  6.2331e-02,  2.1082e-01,  6.3325e-02, -1.9389e-02]],

         [[ 1.8210e-02,  2.8358e-02,  2.9764e-02,  8.5157e-02, -3.1668e-02],
          [ 2.3125e-02,  9.3411e-02, -1.4577e-03, -6.9040e-02,  1.7456e-02],
          [ 1.5560e-02, -4.1318e-02, -8.4426e-02,  9.9826e-03, -8.8929e-02],
          [-1.0164e-02, -5.0985e-02,  1.1238e-02,  4.4172e-03, -2.9830e-02],
          [-4.0873e-02, -5.5615e-03,  1.3785e-01,  1.4888e-01,  6.3257e-02]],

         [[-4.6953e-02, -4.9853e-02,  3.2356e-02, -7.5866e-02,  1.3694e-02],
          [-3.3246e-02,  1.1142e-02,  1.0973e-02, -7.7592e-02,  2.1584e-02],
          [-1.3814e-02, -2.0476e-02,  1.5571e-02,  5.1744e-02,  3.1423e-02],
          [-8.1266e-02,  1.1416e-03,  5.9616e-02, -1.5763e-02,  4.9261e-02],
          [ 4.8213e-02,  6.4309e-02,  6.7719e-02,  2.4230e-02, -6.5173e-03]]]), Bias: 0.017579657956

957817

tensor([[[ 0.0793,  0.1113,  0.0807,  0.0356,  0.0451],
          [-0.0180, -0.0421, -0.0255,  0.0090, -0.0577],
          [-0.1463, -0.0729, -0.0215, -0.0921, -0.0075],
          [-0.0369, -0.0479, -0.1044,  0.0331,  0.0371],
          [-0.0234,  0.0301, -0.0229, -0.0578, -0.0219]],

         [[-0.0156, -0.0287,  0.0142,  0.0134, -0.0564],
          [-0.0092,  0.0517,  0.0589,  0.0747,  0.0758],
          [ 0.0519, -0.0207,  0.0029, -0.0202, -0.0173],
          [ 0.0172,  0.0055,  0.0723,  0.0035, -0.0276],
          [ 0.0470, -0.0306,  0.0054, -0.0468,  0.0327]],

         [[ 0.0108,  0.1043,  0.0948,  0.1052,  0.0117],
          [-0.0013,  0.0712,  0.0305, -0.0197,  0.1003],
          [-0.0856, -0.0709,  0.0793,  0.0892, -0.0010],
          [ 0.0248,  0.0535, -0.0508,  0.0654,  0.1079],
          [ 0.1174, -0.0284,  0.0522,  0.1258,  0.0846]],

         [[ 0.1385,  0.2449,  0.1754,  0.1490,  0.1575],
          [ 0.1117,  0.2066,  0.2519,  0.3159,  0.2029],
          [-0.3538, -0.3604, -0.2981, -0.1165, -0.0555],
          [-0.3778, -0.3337, -0.3900, -0.0905,  0.1284],
          [-0.0361, -0.1054, -0.0743, -0.0439,  0.2005]],

         [[ 0.0905, -0.0169, -0.0404,  0.0230,  0.0837],
          [ 0.1678,  0.2007,  0.1482,  0.0468,  0.0416],
          [ 0.0226,  0.1281,  0.1434,  0.1649, -0.0471],
          [ 0.0297, -0.0747,  0.0376, -0.0011,  0.0569],
          [-0.0735, -0.0327,  0.0107,  0.0319,  0.0120]],

         [[-0.0647, -0.0093,  0.0284, -0.0230, -0.0292],
          [ 0.0229, -0.0623,  0.0537,  0.0251, -0.0478],
```

```
[ 0.0460, 0.0471, -0.0077, -0.0134, -0.0476],  
[ 0.0042, -0.0661, -0.0282, 0.0514, -0.0688],  
[-0.0606, -0.0165, -0.0736, -0.0399, 0.0195]]]), Bias: 0.15275032818317413
```

```
tensor([[[ 0.0198, 0.0078, -0.0386, -0.0769, -0.1071],  
[-0.0357, 0.0866, -0.0007, -0.0180, -0.0405],  
[-0.0339, -0.0460, 0.1438, 0.1486, 0.1375],  
[ 0.0286, -0.0307, -0.0108, 0.0674, 0.0567],  
[-0.0831, -0.1001, -0.0222, -0.0372, 0.0322]],
```

```
[ [ 0.0111, -0.0543, -0.0244, -0.0480, 0.0583],  
[-0.0081, 0.0702, -0.0033, -0.1055, 0.0422],  
[-0.0037, 0.0273, -0.1175, -0.0985, -0.0643],  
[-0.0495, 0.0453, -0.0770, -0.0175, 0.0285],  
[ 0.0346, 0.0137, -0.0172, -0.0745, -0.0774]],
```

```
[ [ 0.0572, -0.0606, -0.0709, 0.0486, -0.0050],  
[-0.0172, 0.0657, 0.1075, 0.0079, 0.0560],  
[ 0.0825, 0.0086, 0.1357, 0.0431, 0.0776],  
[ 0.0467, -0.0453, 0.0174, 0.1452, 0.0595],  
[ 0.0220, -0.1080, -0.0306, 0.0935, 0.0170]],
```

```
[ [-0.0131, -0.1275, -0.2356, -0.1897, -0.1878],  
[ 0.0727, 0.0204, 0.1878, 0.1925, 0.1226],  
[ 0.1336, 0.0926, 0.3385, 0.5489, 0.4815],  
[-0.1461, -0.2255, -0.1302, 0.3148, 0.4448],  
[ 0.0229, -0.2975, -0.4117, -0.1739, 0.1857]],
```

```
[ [-0.0027, -0.0511, -0.1327, -0.1236, -0.1604],  
[ 0.0311, 0.0482, -0.1724, -0.2062, -0.2190],  
[ 0.0523, 0.2240, 0.1516, -0.0949, -0.0110],  
[ 0.1339, 0.2020, 0.1739, -0.0158, -0.0799],  
[ 0.0178, -0.0060, 0.0033, 0.0708, 0.0644]],
```

```
[ [-0.0805, 0.0158, 0.0088, -0.0298, -0.0015],  
[-0.0534, 0.0523, -0.0468, 0.0567, 0.0581],  
[ 0.0807, -0.0225, -0.0061, -0.0329, 0.0664],  
[ 0.0571, 0.0775, -0.0650, 0.0385, -0.0168],  
[ 0.0327, 0.0311, 0.0205, -0.0446, -0.0699]]]), Bias: -0.003947714809328318
```

```
tensor([[[ 4.6051e-02, -3.7995e-02, -1.0571e-02, -5.9652e-04, 1.2966e-02],  
[-7.3547e-02, 1.2780e-02, -4.2016e-02, 1.0504e-02, -3.8638e-02],  
[-8.9371e-02, -6.2232e-02, -5.5337e-02, -1.9429e-02, 2.5135e-02],  
[ 9.3721e-02, 2.0273e-02, 2.2458e-02, 9.8483e-02, 5.3165e-02],  
[-4.7266e-03, -2.6788e-02, 2.1381e-02, -4.0812e-02, 6.5005e-02]],
```

```
[ [ 5.6259e-02, -8.0266e-02, 4.1469e-03, -4.1741e-02, -3.6731e-02],  
[ 8.2087e-02, -3.4687e-02, -2.6580e-02, 2.9549e-02, 6.2074e-02],  
[ 7.8356e-02, 3.6179e-03, 8.1574e-02, 7.5267e-02, 4.6429e-02],  
[ 1.4650e-02, 2.6627e-03, -8.6857e-02, -3.3357e-02, -5.0371e-02],  
[-3.0257e-02, 5.0626e-02, -2.5525e-04, -8.8765e-02, 2.7298e-02]],
```

```
[ [-7.1026e-02, 5.1802e-02, -6.7083e-03, -3.0591e-03, 3.7327e-02],  
[-5.1631e-02, -5.6207e-02, -3.4700e-02, -3.8537e-02, 7.0107e-02],  
[ 4.4439e-02, -2.7373e-02, 6.3450e-02, 6.4772e-02, 5.6539e-02],  
[-5.1077e-02, 6.1464e-02, 9.5118e-03, -8.8235e-03, -8.1340e-02],  
[-3.7860e-02, -1.9338e-02, -5.2021e-02, -6.2133e-02, 7.7555e-02]],
```

```
[ [ 3.2942e-02, -3.1448e-02, 1.0683e-01, 1.0510e-01, 6.5256e-02],  
[-2.0053e-01, -2.9704e-01, -3.0467e-01, -1.9506e-01, 4.5759e-02],  
[-1.9362e-01, -2.1555e-01, -2.3231e-02, -4.8549e-02, -6.0409e-02],  
[ 1.3886e-01, 2.4871e-01, 2.7243e-01, 4.9278e-02, -6.0277e-02],  
[ 1.5032e-01, 1.4267e-01, 9.7356e-02, 1.5796e-02, 1.9976e-03]],
```

```
[ [ 4.9436e-02, 1.0077e-01, 6.4993e-02, 3.3851e-02, -1.7372e-02],  
[-1.8648e-02, 6.3838e-02, -5.0582e-02, 5.8279e-02, -9.2446e-03],  
[ 2.5228e-02, 9.5040e-03, -9.2374e-02, 7.1824e-02, -2.7875e-02],  
[-4.2263e-02, 7.3032e-02, 5.8825e-02, 1.2198e-01, -1.0781e-02],  
[ 1.0896e-01, 1.0024e-01, 8.9293e-02, -2.4804e-02, 5.2242e-03]],
```

```
[ [-9.7788e-03, -6.4974e-02, 4.4546e-02, 9.4868e-03, -5.3037e-02],  
[-7.8536e-03, -5.3237e-02, 4.5574e-02, 3.5923e-02, -8.0085e-03],  
[-5.9970e-02, -1.9588e-02, 5.4230e-02, -7.7135e-02, -4.3284e-02],  
[-2.7645e-02, 2.2333e-02, 6.3060e-02, 2.0115e-02, -4.5196e-03],  
[-2.8411e-02, -4.7675e-02, 4.2386e-02, 4.0160e-02, 7.4558e-03]]]), Bias: -0.03692807257
```

```
tensor([[[ 5.1582e-02, -8.3411e-02,  5.3273e-02,  7.8497e-02,  5.6439e-02],
 [ 6.3090e-02, -3.6439e-02, -8.1027e-02, -2.1682e-02, -6.4004e-02],
 [-3.3893e-03, -5.1754e-02,  1.4268e-02, -2.4148e-03,  2.4778e-02],
 [-2.0099e-02,  1.1813e-01,  1.2050e-01,  6.4038e-02, -5.0387e-02],
 [ 1.7566e-02,  9.0930e-02,  9.5390e-02, -3.6375e-02, -2.0724e-02]],

 [[-2.4843e-02,  2.6314e-02,  3.7982e-02, -3.4336e-02, -3.0902e-02],
 [ 5.9414e-02,  9.1078e-02,  6.6503e-02, -2.1410e-02, -5.5955e-02],
 [ 4.6437e-03,  2.6065e-02, -4.6269e-02, -5.2809e-02, -2.6651e-02],
 [ 7.2190e-02,  3.1630e-02, -8.4304e-02, -5.2016e-02, -5.9510e-02],
 [-5.5346e-02,  3.7327e-03,  2.4792e-02, -6.3516e-02, -7.3075e-02]],

 [[ 1.4215e-02, -1.3797e-02,  2.2033e-02,  7.7195e-02,  8.2595e-02],
 [-3.7608e-02, -1.8665e-03, -5.9396e-02,  5.2370e-02,  7.2853e-02],
 [ 7.2031e-02, -2.0729e-02,  2.3522e-02,  5.1895e-02, -3.6640e-02],
 [ 6.9671e-02,  3.7581e-02,  6.0481e-02,  5.6512e-02, -6.2840e-03],
 [-2.1173e-02,  9.4159e-02, -3.9595e-02, -1.3116e-02, -3.0963e-02]],

 [[-9.0977e-02, -1.3596e-01, -5.5957e-02,  1.1909e-01,  1.6240e-01],
 [-5.8739e-02, -2.6003e-01, -2.4646e-01, -5.3893e-02,  6.8388e-02],
 [ 9.7873e-02,  1.1350e-02, -4.8526e-02, -6.2388e-02, -2.2573e-01],
 [ 4.9676e-02,  2.1301e-01,  2.7723e-01,  1.1771e-02, -1.8666e-01],
 [-4.3314e-02,  1.4522e-01,  3.1016e-01,  2.5387e-01, -9.0142e-03]],

 [[-1.5708e-02,  1.2073e-01,  8.9246e-02,  7.9977e-03, -7.6258e-03],
 [ 4.3129e-02, -8.5259e-02, -8.1735e-02, -5.7607e-02,  1.3651e-01],
 [-9.5575e-02, -7.4576e-02, -1.3815e-01,  4.9553e-02,  9.6496e-02],
 [ 1.0849e-01,  4.2163e-02, -1.0226e-01, -1.3229e-01, -7.7109e-02],
 [ 1.3485e-01,  9.2635e-02, -1.4262e-02,  9.3119e-02,  2.8817e-02]],

 [[ 1.9186e-02, -7.1015e-02, -4.2535e-02,  5.4359e-03, -6.5383e-02],
 [-5.4766e-03, -9.8360e-03,  2.2246e-02, -2.7210e-04,  3.0880e-02],
 [-2.0207e-02,  4.7198e-02, -2.3792e-02, -5.2238e-02,  8.1760e-03],
 [-6.7036e-02,  6.9251e-02, -5.2670e-02, -3.9641e-02, -3.3103e-03],
 [ 6.3164e-02,  7.0681e-02,  4.3413e-02,  8.5309e-03, -3.4110e-02]]]), Bias: -0.01572989486
```

157894

```
tensor([[[ -4.8427e-02,  6.9937e-04, -3.7424e-02,  1.2601e-02, -3.3832e-02],
 [-7.5852e-02,  8.0000e-02,  9.7825e-02,  1.1562e-01, -1.5948e-02],
 [-9.4867e-03,  2.9845e-02, -5.3465e-02, -1.1043e-01,  4.0601e-03],
 [ 3.0218e-02, -3.5067e-02, -3.9666e-03, -1.1042e-03,  1.4589e-02],
 [-5.5627e-02, -6.0498e-02, -6.1560e-03, -8.0652e-02,  9.2817e-03]],

 [[ 7.4273e-02,  5.0472e-03, -2.2225e-02,  7.7538e-02,  7.6390e-04],
 [-4.0711e-02,  2.4887e-03,  3.6240e-02, -2.6417e-02, -2.8267e-02],
 [-6.9320e-02, -3.6703e-03,  2.0195e-02,  9.9028e-03,  7.6400e-02],
 [ 6.9468e-04, -3.0882e-02,  3.7037e-02, -3.6168e-02,  6.6721e-02],
 [-5.4922e-02,  5.1685e-02, -2.1781e-02,  6.2126e-02,  1.2657e-02]],

 [[-4.1556e-02,  1.9008e-02,  4.2533e-02,  1.2579e-01, -5.1149e-02],
 [ 5.1652e-02,  5.4274e-02,  1.2922e-01, -1.1166e-02, -4.5027e-04],
 [ 1.1370e-01,  1.3562e-01, -4.8845e-02, -3.4514e-02,  8.9613e-02],
 [ 5.1859e-02, -4.5082e-03, -7.8152e-02, -1.7221e-02,  1.3121e-01],
 [ 2.3297e-02, -5.7674e-02,  7.5401e-03,  4.7831e-02,  1.6883e-02]],

 [[-2.5230e-01, -2.5027e-01, -1.2666e-02,  1.8753e-01,  1.5416e-01],
 [-5.3919e-02,  1.2113e-02,  3.6297e-01,  2.7673e-01,  8.2768e-02],
 [ 6.7764e-02,  2.4790e-01,  2.7628e-01, -1.0730e-01, -3.8899e-01],
 [-2.2044e-02,  1.7383e-01,  3.6431e-04, -4.1925e-01, -2.6424e-01],
 [ 3.2735e-02,  1.9949e-01, -1.5434e-01, -1.9120e-01,  3.5820e-02]],

 [[-5.1652e-02,  1.4546e-02,  5.3942e-03,  1.9307e-03,  7.4479e-02],
 [-6.6395e-02,  2.3475e-02,  1.0425e-01,  2.3184e-01,  2.0436e-01],
 [-1.5322e-02, -2.9245e-02,  6.4528e-02,  7.0782e-02,  7.7475e-02],
 [-6.7744e-02,  4.9053e-02, -2.8139e-02,  4.4063e-02, -4.0149e-02],
 [-1.1369e-02, -5.1093e-02, -1.0486e-03,  1.7203e-02,  7.1767e-02]],

 [[-6.2875e-02, -6.5425e-02, -4.1716e-02, -1.0746e-02, -4.8406e-02],
 [-4.6400e-02, -3.8101e-02,  4.9045e-02, -7.6316e-02, -6.0601e-02],
 [ 3.8801e-02,  2.0096e-02,  5.1669e-02, -4.6604e-02,  7.1689e-02],
 [ 6.1000e-02,  5.0611e-02,  4.1241e-02,  5.3769e-02, -1.5251e-02],
 [ 1.4343e-02,  7.8751e-02,  3.3614e-02, -3.6088e-02,  1.0907e-02]]]), Bias: 0.197186380624
```

77112

```
tensor([[[ -0.0399, -0.0352,  0.0073,  0.1094,  0.0610],
 [ 0.0620,  0.0713, -0.0774,  0.0587, -0.0877],
 [-0.0583, -0.0880,  0.0501, -0.1120, -0.1034],
```

```
[-0.0506, 0.0249, -0.0072, 0.0537, 0.0678],
[-0.0683, 0.0506, -0.0496, -0.0017, -0.0623]],

[[ 0.0136, -0.0403, 0.0563, 0.0349, 0.0727],
[-0.0156, -0.0556, -0.0520, 0.0363, -0.0300],
[ 0.0126, 0.0387, -0.0189, 0.0580, 0.0475],
[-0.0681, -0.0321, -0.0451, -0.0474, 0.0623],
[-0.0132, -0.0786, 0.0603, -0.0253, 0.0311]],

[[ 0.0805, 0.0752, 0.0914, -0.0035, 0.0322],
[ 0.0920, -0.0087, 0.0425, 0.0700, 0.0552],
[-0.0599, -0.0225, -0.0555, -0.0057, -0.0812],
[ 0.0740, 0.0941, 0.0479, -0.0082, -0.0326],
[ 0.1008, 0.0656, 0.1013, 0.0105, 0.0191]],

[[-0.0903, -0.0295, 0.1284, 0.1968, 0.2400],
[ 0.0100, 0.0923, -0.0384, 0.1072, -0.0550],
[-0.0442, -0.0782, -0.1325, -0.2255, -0.2316],
[ 0.0242, -0.0262, 0.0808, -0.0065, -0.1338],
[ 0.1110, 0.0874, 0.2839, 0.1791, -0.0478]],

[[-0.0348, -0.0452, -0.0280, 0.0909, 0.0612],
[-0.0402, -0.0514, 0.0495, 0.0456, 0.0453],
[ 0.0558, -0.0960, -0.0668, -0.1128, 0.0347],
[-0.0815, -0.0356, -0.0693, -0.0038, -0.0880],
[-0.0146, -0.0299, 0.0619, 0.0668, -0.0380]],

[[ 0.0162, -0.0022, -0.0110, -0.0163, -0.0573],
[ 0.0545, 0.0714, -0.0442, 0.0752, 0.0292],
[ 0.0724, -0.0769, -0.0140, -0.0083, 0.0751],
[-0.0534, 0.0701, -0.0182, -0.0284, -0.0217],
[-0.0501, -0.0491, 0.0807, 0.0519, 0.0596]]], Bias: 0.023955289274454117
```

```
tensor([[[ 7.3823e-02, -3.7560e-03, 1.5194e-03, 8.2433e-02, -9.9121e-03],
[-3.4078e-02, -1.4994e-02, -3.5636e-02, 5.5156e-02, 1.0001e-01],
[ 8.7624e-02, -3.6560e-02, -8.0245e-03, 9.1086e-03, -3.6328e-02],
[ 3.2699e-02, -3.1727e-02, -8.2811e-02, -4.9057e-02, 1.5687e-02],
[ 6.0920e-03, -7.9179e-02, 2.1261e-02, 1.3083e-02, 6.3001e-02]],

[[-6.3078e-02, -1.5815e-02, 3.0207e-02, -8.1514e-02, 1.9236e-02],
[-8.7620e-02, 5.7182e-02, 5.8062e-02, 3.2621e-02, -9.2715e-02],
[ 4.4532e-02, 7.1024e-02, 4.4425e-02, -4.8028e-02, 7.0865e-02],
[-6.3218e-02, -2.7685e-04, -5.7207e-02, 4.7217e-02, -9.0523e-02],
[ 5.4052e-02, -2.3188e-02, 7.8661e-02, -5.7464e-02, -9.0109e-02]],

[[-4.6557e-02, 3.3585e-02, -8.9484e-02, -4.2020e-02, -6.6969e-03],
[-2.9363e-02, -5.0013e-02, 2.0108e-02, 1.5411e-02, 1.1718e-02],
[ 8.6515e-02, -6.2880e-03, -1.0683e-01, -7.6875e-02, -8.9958e-02],
[ 6.9443e-02, -1.3577e-01, -1.0395e-01, -6.1460e-02, 1.6761e-02],
[-2.8547e-02, -5.3956e-02, -5.7365e-02, 8.4485e-02, 1.0627e-02]],

[[ 3.7577e-02, 8.2280e-02, 3.3979e-03, 1.3647e-02, 1.3060e-01],
[ 1.0895e-01, 1.9229e-01, 3.6773e-02, 7.1435e-02, 1.9676e-01],
[ 2.0476e-01, 2.1824e-01, -4.5000e-02, -1.3571e-01, -1.1867e-03],
[ 1.6039e-01, 1.1068e-01, -3.1751e-01, -2.8206e-01, -7.2402e-02],
[ 1.7240e-01, -1.6512e-01, -2.1902e-01, 9.1926e-02, 8.7910e-02]],

[[-8.1238e-02, 8.9498e-03, -1.7635e-02, 4.6482e-02, -1.0486e-02],
[-7.9263e-02, -6.7625e-02, 6.7754e-02, 6.5283e-02, 1.2516e-01],
[-8.8458e-03, -2.4217e-02, 1.3423e-01, 1.4329e-01, 5.0120e-03],
[-6.8751e-02, 7.0109e-02, 4.6773e-02, 2.4631e-02, -8.5311e-03],
[-5.5111e-02, -6.4089e-02, -8.4773e-02, 3.0015e-02, -5.3265e-02]],

[[-4.2692e-02, -8.1266e-02, 2.4884e-02, -7.8158e-02, 1.0354e-03],
[ 7.7118e-02, -2.8095e-02, -5.3921e-02, -7.2643e-02, -5.8140e-03],
[ 1.3552e-03, 9.6538e-03, 1.0933e-02, 8.0687e-02, -6.0754e-02],
[ 7.6028e-02, -6.8588e-02, -6.0098e-03, -6.1154e-02, 3.1806e-02],
[-3.7070e-03, 7.9553e-02, 6.6469e-02, 5.7750e-02, 4.3079e-02]]]), Bias: -0.00397599115
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96775055

```
tensor([[[ -7.6439e-02, -2.1369e-02, 2.1890e-02, -7.1222e-02, 5.5283e-02],
[-7.8854e-02, -7.7195e-02, -2.9002e-03, -2.2390e-02, -2.2562e-02],
[ 9.4521e-02, -4.9351e-02, 7.0109e-02, 9.8980e-02, -3.9655e-02],
[-7.6235e-03, 6.6541e-02, -7.2871e-03, -4.3814e-03, 9.4990e-02],
[-3.1289e-03, -3.4067e-02, 4.2216e-02, 1.6600e-02, -5.8708e-02]],

[[-2.6642e-02, 4.9081e-02, -1.3354e-03, -3.7627e-02, -9.7365e-03],
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[-7.7330e-02, -6.3619e-02, -2.6967e-02, 5.1495e-04, 4.7568e-02],
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[-6.9064e-02, -1.0662e-01, -9.5487e-02, -4.5266e-02, -1.4798e-03],
[ 5.7097e-02, 2.3855e-02, 3.9972e-02, 1.5879e-02, -8.9866e-02]],

[[ 4.3069e-02, -3.4926e-02, 1.4916e-02, 1.4614e-02, -5.9268e-02],
[-8.7057e-02, -8.1197e-02, 3.2079e-02, 7.6943e-05, 7.6613e-02],
[-1.1329e-02, 1.9138e-02, 6.6148e-05, -9.6765e-03, 5.8020e-02],
[ 2.9703e-02, 3.3706e-02, -7.6335e-02, 5.6349e-02, -3.9655e-02],
[ 5.3809e-02, -3.5260e-02, -8.1870e-02, 6.5647e-03, -6.8239e-02]],

[[ 5.2929e-02, -5.7386e-02, -8.6870e-02, 9.0515e-02, 3.1668e-03],
[-9.8109e-02, -3.2221e-01, -4.9690e-01, -2.3243e-01, -1.2545e-01],
[ 1.3849e-01, -5.2902e-02, -1.8464e-01, -2.1845e-02, 8.8058e-02],
[ 4.4413e-01, 5.3480e-01, 3.2766e-01, 1.3170e-01, 9.6921e-02],
[ 7.3647e-02, 2.2026e-01, 5.3078e-03, -1.6206e-01, -3.2851e-02]],

[[-5.4241e-02, 7.9586e-02, 1.2140e-01, 1.1233e-01, 6.1107e-02],
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[-3.2246e-02, -1.5031e-01, -4.2731e-02, 1.3989e-02, 7.9966e-02],
[ 7.2689e-02, 9.8580e-02, 5.7975e-02, 1.3374e-01, 1.4349e-01],
[ 1.6023e-01, 7.8642e-02, 1.2399e-01, 1.5637e-01, 1.1359e-01]],

[[-2.7491e-02, 6.6668e-04, -2.1341e-02, 6.6524e-02, 6.8391e-03],
[ 4.2756e-02, 8.1121e-02, 3.1900e-02, -4.4677e-02, -4.9097e-02],
[ 2.9673e-02, 8.0544e-02, -6.7941e-02, -1.5184e-02, -3.9005e-02],
[ 1.6428e-02, -4.3097e-02, -7.2581e-02, 3.9712e-02, -3.3387e-02],
[-5.6688e-02, -7.2654e-02, 7.1550e-02, 4.3835e-02, 6.0989e-02]]], Bias: 0.050484552979

```

4693

```

tensor([[[ 0.0462, -0.0575, -0.0101, -0.0173, -0.0013],
[-0.0170, 0.0419, 0.0606, 0.0707, 0.1376],
[ 0.0045, 0.0019, 0.0971, -0.0061, -0.0273],
[-0.1093, -0.0254, -0.1174, -0.1192, -0.1127],
[-0.0733, 0.0267, -0.0464, -0.0403, -0.0186]],

[[ 0.0147, -0.0317, -0.0552, -0.0642, -0.0125],
[-0.0511, -0.0908, 0.0019, 0.0245, -0.0363],
[-0.0108, -0.0463, -0.0092, -0.0258, -0.0882],
[-0.0659, -0.0618, 0.0763, 0.0344, 0.0431],
[-0.0099, 0.0397, 0.0404, -0.0200, -0.0495]],

[[ 0.0012, 0.0684, 0.0433, -0.0236, 0.0478],
[ 0.0893, 0.0813, 0.1167, -0.0483, 0.0263],
[ 0.0268, 0.0675, -0.0067, -0.0287, -0.0660],
[-0.0631, -0.0136, -0.0938, -0.0290, -0.0247],
[-0.0882, -0.0099, 0.0219, 0.0257, 0.0601]],

[[-0.1788, -0.2014, -0.1234, -0.2166, -0.2462],
[ 0.1288, 0.2949, 0.3677, 0.3942, 0.2600],
[ 0.3977, 0.3011, 0.2666, 0.1381, 0.0491],
[-0.1118, -0.3799, -0.4575, -0.3131, -0.1930],
[-0.2311, -0.1567, -0.1437, 0.0178, 0.1222]],

[[-0.0857, -0.0949, -0.0866, -0.1504, -0.0154],
[-0.0441, 0.0971, 0.0578, 0.0380, 0.0714],
[ 0.2089, 0.2355, 0.2832, 0.2003, 0.1079],
[ 0.0831, 0.1038, 0.0586, -0.0248, 0.0642],
[-0.0062, -0.0679, -0.1026, -0.0929, 0.0301]],

[[-0.0221, 0.0013, -0.0082, -0.0513, -0.0449],
[-0.0472, -0.0552, -0.0444, 0.0256, 0.0777],
[-0.0044, 0.0332, 0.0174, -0.0727, 0.0645],
[-0.0393, 0.0763, -0.0760, 0.0808, -0.0625],
[ 0.0413, 0.0653, -0.0276, -0.0289, 0.0456]]]), Bias: -0.01143634133040905

```

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tensor([[[ -0.0563, 0.0251, -0.1038, -0.0410, -0.0345],
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[ 0.0657, -0.0107, -0.0253, -0.0345, -0.0523],
[-0.0029, 0.0497, -0.0080, -0.0819, 0.0068],
[ 0.0537, -0.0211, 0.0167, -0.0090, 0.0306]],

[[ 0.0428, 0.0820, 0.0444, 0.0052, 0.0147],
[-0.0403, 0.0809, -0.0474, -0.0458, 0.0005],
[-0.0666, -0.0788, -0.0775, -0.0425, 0.0383],
[-0.0255, 0.0245, -0.0403, 0.0427, -0.0030],
[-0.0362, -0.0140, -0.0630, 0.0352, -0.0068]],

```

```
[[[-0.0625, -0.0211, 0.0426, -0.0173, -0.0300],
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 [-0.0131, 0.1020, 0.0403, -0.0066, -0.0679],
 [-0.0528, 0.0802, 0.0231, -0.0038, 0.0458],
 [ 0.0180, -0.0396, 0.1046, 0.0632, -0.0194]],

 [[-0.1521, -0.1500, -0.1274, -0.0575, -0.0226],
 [ 0.0188, 0.0345, 0.0478, 0.1222, -0.0104],
 [ 0.1839, 0.2153, 0.2039, 0.0645, -0.0823],
 [ 0.0098, 0.0291, 0.1576, 0.0989, -0.1020],
 [-0.1054, -0.0716, 0.1588, 0.0121, -0.1430]],

 [[-0.0418, -0.0769, -0.0526, -0.0064, -0.0290],
 [ 0.0008, -0.0440, -0.1105, -0.0232, 0.0649],
 [ 0.0884, 0.0267, 0.0542, 0.0447, 0.1275],
 [ 0.0400, 0.0325, 0.0961, 0.0362, 0.0859],
 [-0.0435, 0.0198, 0.0634, -0.0538, -0.0566]],

 [[-0.0766, -0.0315, 0.0806, 0.0609, 0.0020],
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 [ 0.0218, 0.0467, 0.0776, 0.0576, -0.0008],
 [ 0.0116, -0.0286, 0.0039, 0.0656, 0.0555],
 [ 0.0429, 0.0469, -0.0792, 0.0557, -0.0157]]], Bias: -0.021181698888540268
```

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 [-0.0139, 0.1174, 0.1269, 0.0511, 0.0115],
 [ 0.0423, 0.0945, 0.0495, 0.0079, -0.0523],
 [-0.0737, 0.0628, -0.0250, -0.0192, -0.0684]],

 [[ 0.0096, 0.0565, -0.0360, 0.0840, 0.0105],
 [ 0.0721, -0.0786, 0.0264, -0.0274, -0.0760],
 [-0.0497, 0.0296, 0.0245, 0.0225, -0.0259],
 [-0.0270, 0.0538, 0.0341, -0.0874, -0.0148],
 [-0.0413, -0.0388, 0.0034, 0.0461, 0.0281]],

 [[-0.0273, -0.0840, -0.0129, -0.0146, 0.1137],
 [-0.0608, -0.0865, -0.0361, 0.1164, 0.0056],
 [ 0.0049, -0.0462, 0.0474, 0.0904, 0.0172],
 [ 0.0229, -0.0304, 0.0040, -0.0301, -0.1184],
 [ 0.0647, 0.0356, 0.1038, 0.0377, -0.0149]],

 [[-0.0490, -0.2150, -0.3547, -0.3210, -0.0917],
 [-0.0244, -0.1297, -0.3119, -0.0480, 0.1504],
 [ 0.1437, 0.1214, 0.3488, 0.2927, 0.1688],
 [ 0.0559, 0.2405, 0.3309, 0.1948, -0.1331],
 [-0.0471, -0.0493, -0.0325, -0.1330, -0.2810]],

 [[ 0.0839, -0.0150, 0.0198, 0.0222, -0.0438],
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 [ 0.0219, -0.0091, -0.0664, -0.0195, 0.0335]],

 [[-0.0813, -0.0058, 0.0141, -0.0520, -0.0153],
 [-0.0191, -0.0140, 0.0179, -0.0592, 0.0626],
 [ 0.0773, 0.0119, 0.0751, 0.0023, -0.0686],
 [-0.0488, 0.0401, -0.0531, 0.0014, -0.0808],
 [-0.0692, -0.0006, 0.0078, 0.0719, -0.0425]]], Bias: 0.016987506300210953
```

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tensor([[[ 3.3429e-02, -4.1713e-02, -8.6021e-02, -1.2642e-02, -7.7567e-02],
 [ 5.3687e-02, 2.4038e-02, -2.9381e-02, 5.1085e-02, -4.5726e-02],
 [ 2.5196e-02, 1.8729e-02, -6.4056e-02, 1.6867e-02, -1.0397e-02],
 [ 3.5434e-02, -6.1682e-02, 2.2964e-02, 2.5373e-02, -1.0479e-02],
 [ 4.5945e-03, 5.6619e-02, -3.1952e-02, 1.7397e-02, -3.9199e-02]],

 [[ 5.5552e-02, -9.4257e-03, 4.8942e-02, 3.1883e-02, -3.7638e-02],
 [-5.0963e-02, -2.9214e-03, 1.2468e-02, -3.8327e-02, 3.8745e-02],
 [-7.9513e-02, -4.6212e-02, -5.0612e-02, -2.9309e-02, 2.2234e-02],
 [-8.1922e-02, 3.0964e-03, 1.7924e-02, 1.6525e-02, -2.7442e-02],
 [-1.9106e-02, 5.0522e-02, 1.1628e-02, 8.7209e-02, 7.1591e-02]],

 [[-6.8697e-02, -1.3425e-02, -3.2204e-02, -1.3966e-02, 5.0708e-02],
 [-3.2566e-02, 2.8212e-02, -4.9474e-02, -5.6874e-02, -6.7563e-02],
 [ 4.2852e-02, 6.0379e-02, -4.5115e-02, -3.8460e-02, 4.7070e-02],
 [ 3.5446e-02, -5.4088e-02, -5.3256e-02, -7.0060e-02, 2.7427e-02],
```

```

[ 6.8489e-02, 6.6246e-02, -2.9036e-02, -6.7595e-02, -2.5310e-02]],
[[ 3.0947e-03, -1.1417e-01, -1.6700e-01, -1.6716e-01, -1.1926e-01],
[-2.6555e-02, 9.4818e-02, -6.5863e-02, -7.0519e-02, -1.4761e-01],
[ 1.4706e-01, 2.0136e-01, 3.7867e-02, -1.4260e-01, -1.9075e-02],
[ 8.6464e-02, 1.4483e-01, 8.5014e-02, -1.0778e-02, -7.9668e-02],
[-2.5415e-02, 7.8986e-02, -2.6166e-02, -9.3313e-02, -8.1579e-03]],

[[-5.0265e-02, -7.0348e-02, 2.6041e-02, -7.9730e-02, -5.0276e-02],
[ 6.4874e-02, -1.0193e-01, -4.5821e-03, 2.9269e-02, -5.7438e-02],
[ 1.8309e-02, 4.1546e-02, 3.9656e-02, -8.8462e-02, -1.6929e-02],
[ 6.6189e-02, 6.7830e-02, 4.6251e-02, 1.7144e-02, -5.5947e-03],
[ 2.2476e-03, 8.2077e-03, -2.3120e-02, -3.3494e-02, 2.3552e-03]],

[[ 7.4646e-02, -1.3342e-02, -7.0199e-02, -1.1842e-02, 4.4549e-02],
[ 4.6421e-02, -7.5934e-02, -4.4034e-02, 4.4063e-02, 2.4593e-03],
[ 7.4761e-05, 6.7603e-02, 1.9531e-02, 7.6895e-02, -1.2183e-02],
[ 5.2067e-02, 2.5139e-02, 1.0971e-02, 7.3577e-02, -2.8077e-02],
[-1.2900e-02, 5.1089e-02, 5.1174e-02, 7.5252e-02, 7.6639e-02]]], Bias: -0.02352021075

```

78516

```

tensor([[[ 0.0137, -0.0421, 0.1142, 0.0259, -0.0711],
[-0.0856, 0.0586, 0.0562, 0.0647, -0.0209],
[-0.0508, 0.0367, 0.0136, -0.0116, 0.0683],
[-0.0557, -0.0038, -0.0412, -0.0704, -0.0159],
[ 0.0892, -0.0367, -0.1097, -0.0149, 0.0033]],

[[-0.0779, 0.0027, -0.0736, -0.0680, -0.0188],
[ 0.0378, 0.0140, 0.0269, -0.0543, 0.0245],
[-0.0238, -0.0546, -0.0911, -0.0552, 0.0419],
[ 0.0785, 0.0515, 0.0418, -0.0558, -0.0291],
[ 0.0763, 0.0213, 0.0297, 0.0095, 0.0187]],

[[-0.0043, 0.0348, 0.0963, 0.0166, -0.0689],
[-0.0051, 0.0498, 0.1955, 0.0294, -0.0402],
[ 0.0128, 0.0634, 0.0757, -0.0942, -0.0076],
[ 0.0919, -0.0540, 0.0159, -0.0547, 0.0041],
[ 0.0502, -0.0355, -0.0574, -0.0308, 0.1174]],

[[-0.0835, -0.2145, 0.0662, 0.2603, -0.1004],
[-0.0966, -0.1591, 0.5958, 0.6987, 0.1488],
[-0.1591, 0.1075, 0.5471, 0.4418, 0.0135],
[ 0.1048, 0.0318, -0.0306, -0.2503, -0.2056],
[ 0.1624, -0.1090, -0.4072, -0.2432, 0.1231]],

[[ 0.0606, -0.1038, -0.2649, -0.2156, 0.0202],
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[ 0.0581, 0.0500, 0.0530, 0.1804, 0.1301],
[ 0.0579, 0.0649, 0.1073, 0.1247, 0.0658],
[-0.0209, 0.0143, -0.0333, 0.0093, -0.0342]],

[[-0.0377, -0.0455, -0.0498, -0.0753, -0.0176],
[-0.0480, 0.0210, 0.0226, 0.0269, -0.0108],
[ 0.0421, 0.0468, -0.0289, 0.0286, -0.0089],
[ -0.0512, 0.0321, 0.0434, 0.0580, -0.0811],
[-0.0372, -0.0194, -0.0490, -0.0671, -0.0087]]]), Bias: 0.008656110614538193

```

```

tensor([[[ -5.1900e-02, -8.5388e-02, -1.0182e-01, 3.9653e-02, -5.7161e-03],
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[ 1.7333e-02, 8.1236e-02, 1.2218e-01, 1.3073e-01, 6.6016e-03],
[-8.1499e-02, 5.3269e-02, 2.7006e-02, -4.4551e-02, 3.2341e-02],
[-2.4405e-02, -2.6670e-02, -1.0958e-01, -1.2461e-02, -1.5924e-02]],

[[ 4.3215e-02, -2.7930e-02, -7.7699e-04, -2.8401e-02, -7.2313e-02],
[-9.1371e-02, -6.0262e-02, 7.4147e-03, -1.0825e-01, -5.8049e-02],
[-3.6804e-02, -1.8019e-03, -4.3792e-02, 2.8193e-02, 3.6500e-02],
[ 1.8307e-02, -4.5456e-02, -1.6886e-02, -9.1698e-03, 6.1241e-02],
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[[-5.7455e-02, -5.1800e-02, 3.1411e-02, -4.8152e-02, 1.0769e-02],
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[-7.3900e-02, -1.4465e-02, 4.2221e-02, 5.3703e-02, -5.2518e-03]],

[[ 4.7095e-02, -1.9398e-01, -3.6929e-01, -3.1421e-01, -3.6360e-02],
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[ 1.3983e-01,  2.8373e-01,  4.7736e-01,  4.1954e-01,  2.8181e-01],
[ 4.2893e-02, -1.2934e-02, -1.8467e-01, -3.0796e-01, -7.3396e-02],
[-4.8100e-02, -1.5632e-01, -3.0813e-01, -2.2963e-01, -6.9764e-02]],

[[ 6.3520e-03,  3.1770e-02, -1.0538e-01, -1.4703e-01, -1.4461e-01],
[ 5.4416e-02, -6.5882e-02, -6.8216e-02, -1.7112e-02,  1.3144e-02],
[ 5.7015e-02,  1.8484e-01,  1.3896e-01,  2.5589e-01,  1.6475e-01],
[ 1.3672e-01,  2.0153e-01,  1.5067e-01,  1.0116e-01,  1.0022e-01],
[-6.1680e-02,  3.6370e-02, -7.0030e-02, -1.3717e-01, -1.3944e-01]],

[[ 6.7784e-02, -1.6585e-02,  2.3329e-02,  5.9816e-02, -3.1508e-02],
[ 3.9702e-02, -2.7612e-02, -5.8507e-02, -5.3248e-02,  1.3201e-02],
[-7.9194e-02,  5.4949e-02, -2.3745e-02,  4.2017e-03,  4.5941e-02],
[-4.8846e-02, -4.5086e-02,  1.3858e-02, -5.5056e-02,  3.3616e-02],
[ 5.7257e-02,  6.3589e-02, -2.3127e-02, -7.7861e-02, -5.5858e-02]]], Bias: 0.013983080163
```

59806

```
tensor([[[[ 0.0751,  0.0613, -0.0134,  0.0534,  0.0735],
[ 0.0091,  0.0224,  0.0886,  0.0780,  0.0212],
[-0.0316,  0.0130, -0.0251, -0.0253, -0.0392],
[-0.0236, -0.0433, -0.0987, -0.1088, -0.0749],
[-0.0655,  0.0430, -0.0486, -0.0104, -0.0661]],

[[ 0.0101,  0.0070, -0.0819,  0.0191, -0.0128],
[ 0.0546, -0.0386, -0.0241, -0.0282, -0.0060],
[-0.0040,  0.0653,  0.0924, -0.0519, -0.0229],
[ 0.0385,  0.0295,  0.0519,  0.0668,  0.0134],
[-0.0250,  0.0473, -0.0382, -0.0393, -0.0495]],

[[ 0.0290,  0.0398, -0.0344,  0.0116, -0.0028],
[-0.0227, -0.0182,  0.0602,  0.0371,  0.0408],
[ 0.0275,  0.0509, -0.0141,  0.0492,  0.0248],
[-0.0422, -0.0868, -0.0213, -0.0258,  0.0371],
[ 0.0036,  0.0531,  0.0751,  0.0160, -0.0420]],

[[ 0.0137, -0.0097,  0.1408,  0.2474,  0.2074],
[-0.0560,  0.0287, -0.0232,  0.1000,  0.3248],
[-0.1873, -0.1373, -0.1368, -0.0065,  0.3102],
[-0.1383, -0.2378, -0.2678, -0.2076, -0.0741],
[-0.1641, -0.1136, -0.1550, -0.1566, -0.0520]],

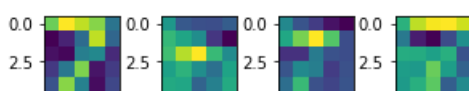
[[-0.0536,  0.0173,  0.0316,  0.0113, -0.0081],
[ 0.0516,  0.0084,  0.0141, -0.0189, -0.0222],
[ 0.0633,  0.0299,  0.1194,  0.1476,  0.1372],
[-0.0565, -0.0514, -0.0340,  0.1140,  0.1649],
[ 0.0641, -0.0839,  0.0450,  0.0509, -0.0599]],

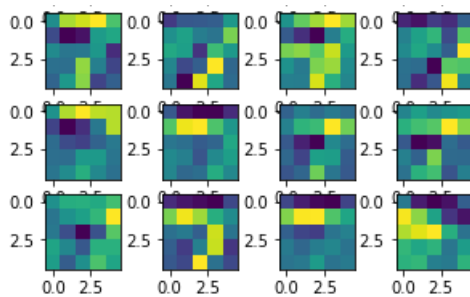
[[ 0.0361,  0.0694,  0.0247, -0.0387, -0.0705],
[-0.0332,  0.0486,  0.0759,  0.0759, -0.0271],
[ 0.0434, -0.0601, -0.0681,  0.0552,  0.0337],
[-0.0178,  0.0378, -0.0283,  0.0027,  0.0030],
[-0.0698,  0.0348,  0.0647,  0.0465,  0.0813]]]), Bias: 0.09745395928621292
```

Pool2 Feature Maps

In [44]:

```
plt.figure(figsize=(5, 5))
row = 4
columns = 4
for i in range(16):
    output, min_val, max_val = quantize_arr(
        model.pool2.forward(
            model.conv2.forward(
                model.pool1.forward(
                    model.conv1.forward(input_img))))[0][i].detach().numpy())
    plt.subplot(16 / columns + 1, columns, i + 1)
    plt.imshow(output)
```





Conv3 Outputs

In [56]:

```
param = list(model.parameters())

for i in range(120):
    output = model.conv3.forward(
        model.pool2.forward(
            model.conv2.forward(
                model.pool1.forward(
                    model.conv1.forward(input_img)))))[0][i].detach().numpy()

    print(output)
```

```
[1.7074544]]
[-3.9037673]]
[15.228414]]
[-4.953825]]
[-3.7347734]]
[12.93525]]
[-10.66523]]
[-0.7890335]]
[3.5590482]]
[-7.3774443]]
[7.472332]]
[10.706018]]
[-0.68280405]]
[7.6377826]]
[18.717142]]
[-1.897709]]
[8.94978]]
[-2.823596]]
[-11.659865]]
[-3.3671343]]
[-2.6689727]]
[2.4460337]]
[1.0372016]]
[13.95205]]
[-5.290026]]
[0.3682692]]
[16.485931]]
[11.5865555]]
[-3.1836827]]
[-1.2123958]]
[-4.8335595]]
[5.3528113]]
[-9.069135]]
[-1.2165319]]
[-1.6820621]]
[2.5146565]]
[17.722094]]
[-14.214275]]
[-3.9055388]]
[11.745384]]
[-8.200189]]
[12.8986]]
[4.2037463]]
[-2.040829]]
[-9.050166]]
[2.4366832]]
[5.5582933]]
[-4.8063583]]
[-2.6098325]]
```

```
[[ -1.00000000]]  
[[-0.44499868]]  
[[3.1810777]]  
[[0.6736256]]  
[[2.0751703]]  
[[-2.6165264]]  
[[12.174245]]  
[[5.2310805]]  
[[-1.21496]]  
[[3.9644508]]  
[[16.971853]]  
[[-10.992371]]  
[[-10.789655]]  
[[17.047194]]  
[[7.6422267]]  
[[-12.129458]]  
[[-4.003141]]  
[[4.385137]]  
[[2.4341068]]  
[[-1.2280929]]  
[[-1.5800779]]  
[[-0.5766215]]  
[[2.828148]]  
[[1.4808253]]  
[[3.4721816]]  
[[7.480186]]  
[[1.7635757]]  
[[-6.220523]]  
[[7.6992683]]  
[[10.246816]]  
[[-2.9629397]]  
[[-6.106389]]  
[[-4.999632]]  
[[1.9313304]]  
[[-2.080364]]  
[[-2.524345]]  
[[3.388479]]  
[[-8.805146]]  
[[-9.408795]]  
[[-1.2840399]]  
[[-0.35911527]]  
[[-8.783601]]  
[[0.76516557]]  
[[-4.4929]]  
[[-0.9823069]]  
[[-9.845129]]  
[[0.64066184]]  
[[3.2156718]]  
[[11.0119505]]  
[[-8.77599]]  
[[-2.9009745]]  
[[3.875734]]  
[[10.110293]]  
[[4.640452]]  
[[4.1117887]]  
[[-1.8194532]]  
[[0.63975775]]  
[[13.1727705]]  
[[-0.78668183]]  
[[-1.8089632]]  
[[2.268292]]  
[[0.5766347]]  
[[16.823195]]  
[[-8.620449]]  
[[-7.5530663]]  
[[2.0006087]]  
[[-1.3553958]]  
[[5.7188997]]  
[[-12.364121]]  
[[1.7508997]]  
[[-4.4865837]]  
[[-2.4122393]]
```

Conv3 Weights

In [69]:

```
for i in range(120):  
    print("{}, Bias: {}".format(param[4][i].data, param[5][i]))
```

```
tensor([[-0.0329,  0.0264,  0.0235, -0.0558, -0.0590],  
        [-0.0218,  0.0106, -0.0520,  0.0306, -0.0450],  
        [-0.0056, -0.0164,  0.0492,  0.0266,  0.0093],  
        [ 0.0581,  0.0167, -0.0135,  0.0160, -0.0078],  
        [-0.0281,  0.0270, -0.0075,  0.0563,  0.0031]],  
  
        [[-0.0367, -0.0417, -0.0060, -0.0339,  0.0058],  
        [-0.0163,  0.0210,  0.0084, -0.0335,  0.0065],  
        [ 0.0062,  0.0667, -0.0323, -0.0618, -0.0204],  
        [ 0.0233,  0.0439, -0.0301,  0.0076, -0.0082],  
        [-0.0637, -0.0127, -0.0591, -0.0251, -0.0141]],  
  
        [[ 0.0171, -0.0011,  0.1530,  0.0266,  0.0120],  
        [-0.0427, -0.0034, -0.0555, -0.0262, -0.1010],  
        [-0.0909,  0.0334,  0.0455,  0.0016, -0.0125],  
        [-0.0161,  0.0327,  0.0034, -0.0177, -0.0168],  
        [ 0.0330,  0.0665,  0.0498, -0.0044,  0.0469]],  
  
        [[-0.0345,  0.0351, -0.0328, -0.0530, -0.0668],  
        [-0.0339, -0.0043, -0.0331, -0.0547, -0.0376],  
        [ 0.0039, -0.0459,  0.0396,  0.0442,  0.0128],  
        [ 0.0155,  0.0179, -0.0245,  0.0251,  0.0252],  
        [-0.0267,  0.0538,  0.0534, -0.0168,  0.0595]],  
  
        [[-0.0364,  0.0107, -0.0173,  0.0264, -0.0280],  
        [-0.0622,  0.0024, -0.0278, -0.0327, -0.0414],  
        [ 0.0120, -0.0520, -0.0063,  0.0640,  0.0045],  
        [ 0.0258,  0.0180, -0.0393, -0.0297, -0.0271],  
        [ 0.0331,  0.0069, -0.0127,  0.0410,  0.0638]],  
  
        [[ 0.0157, -0.0013, -0.0265, -0.0456, -0.0237],  
        [-0.0209, -0.0463,  0.0148,  0.0073, -0.0147],  
        [-0.0033, -0.0146,  0.0550, -0.0006, -0.0069],  
        [-0.0229, -0.0437, -0.0301,  0.0225, -0.0066],  
        [-0.0091,  0.0207, -0.0178, -0.0022,  0.0077]],  
  
        [[-0.0421, -0.0380,  0.0050, -0.0251, -0.0247],  
        [-0.0467, -0.0498, -0.0089,  0.0662,  0.0311],  
        [-0.0283,  0.0179, -0.0244, -0.0541,  0.0234],  
        [ 0.0194,  0.0338,  0.0467,  0.0601, -0.0316],  
        [-0.0430,  0.0367,  0.0274, -0.0382, -0.0314]],  
  
        [[-0.0281, -0.0147, -0.0616,  0.0012,  0.0428],  
        [-0.0103, -0.0271, -0.0361, -0.0234,  0.0403],  
        [ 0.0373, -0.0244, -0.0224, -0.0349,  0.0196],  
        [ 0.0301, -0.0507, -0.0666, -0.0352,  0.0561],  
        [ 0.0138, -0.0148, -0.0234, -0.0139,  0.0384]],  
  
        [[ 0.0182,  0.0319,  0.0166,  0.0037, -0.0592],  
        [-0.0043, -0.0328, -0.0550, -0.0852,  0.0357],  
        [-0.0112, -0.0087,  0.0350,  0.0888, -0.0249],  
        [ 0.0202,  0.0033,  0.0137, -0.0423,  0.0222],  
        [-0.0127, -0.0070, -0.0099, -0.0118,  0.0229]],  
  
        [[-0.0278,  0.0246,  0.0597, -0.0274, -0.0344],  
        [ 0.0114,  0.0727,  0.0615,  0.0285, -0.0771],  
        [ 0.0370,  0.0157,  0.0174, -0.0196,  0.0592],  
        [-0.0072,  0.0015, -0.0398, -0.0264,  0.0176],  
        [ 0.0002,  0.0499,  0.0556,  0.0412, -0.0217]],  
  
        [[-0.0351,  0.0099,  0.0034,  0.0823,  0.0029],  
        [ 0.0367, -0.0083, -0.0283,  0.0046, -0.0269],  
        [ 0.0067,  0.0066,  0.0529,  0.0035, -0.0354],  
        [ 0.0125, -0.0253,  0.0108, -0.0005,  0.0033],  
        [ 0.0004,  0.0243,  0.0468,  0.0572,  0.0177]],  
  
        [[-0.0018,  0.0055,  0.0433,  0.0626, -0.0522],  
        [-0.0088, -0.0458, -0.0178, -0.0511, -0.0215],  
        [-0.0442, -0.0121,  0.0041,  0.0065,  0.0214],  
        [ 0.0164, -0.0263, -0.0252,  0.0062, -0.0127],  
        [-0.0039,  0.0515,  0.0467,  0.0493,  0.0459]]],
```

```
[[[-0.0065, 0.0005, -0.0271, 0.0313, -0.0042],
  [-0.0395, -0.0361, -0.0442, -0.0296, 0.0343],
  [-0.0005, 0.0305, -0.0441, 0.0385, 0.0398],
  [-0.0191, 0.0035, -0.0321, -0.0530, 0.0373],
  [0.0119, -0.0408, 0.0454, 0.0139, 0.0021]],

[[0.0452, 0.0596, 0.0672, 0.0896, -0.0393],
 [0.0336, 0.0482, -0.0016, -0.0045, -0.0229],
 [-0.0004, -0.0395, -0.0397, -0.0135, -0.0089],
 [-0.0769, -0.0819, 0.0525, -0.0165, -0.0645],
 [0.0463, 0.0612, 0.0877, 0.0441, 0.0620]],

[[-0.0261, 0.0660, 0.0575, 0.0522, 0.0117],
 [0.0033, 0.0841, -0.0052, -0.0835, -0.0837],
 [0.0225, -0.0374, 0.0514, 0.0551, -0.0366],
 [-0.0539, -0.0403, 0.0035, 0.0331, -0.0154],
 [0.0545, 0.0327, 0.0373, 0.0113, 0.0670]],

[[-0.0413, 0.0363, 0.0035, 0.0355, 0.0069],
 [0.0048, -0.0611, 0.0404, -0.0222, -0.0123],
 [0.0137, -0.0307, 0.0215, 0.0097, -0.0522],
 [-0.0839, -0.0066, 0.0036, -0.0297, 0.0285],
 [-0.0446, -0.0102, 0.0316, -0.0361, -0.0026]]], Bias: -0.04182486608624458
```

```
tensor([[[[-1.7410e-02, -3.0060e-02, 3.0720e-02, 1.3232e-02, 1.1006e-02],
  [2.7937e-02, -4.6173e-03, -5.8002e-02, -3.9332e-02, 4.1370e-02],
  [-3.1658e-02, -4.1804e-02, 2.1559e-02, -1.2653e-02, -4.4186e-02],
  [2.9523e-02, 3.5124e-02, -2.5609e-02, 3.2453e-02, 5.5519e-02],
  [-2.6972e-02, 2.3535e-02, -1.7318e-02, -2.7030e-02, 4.1678e-02]],

[[-3.5055e-02, -5.2197e-02, 6.2384e-02, 2.5443e-02, 2.1062e-02],
 [-1.6164e-02, 3.0061e-02, 5.7771e-02, 2.6933e-02, -4.8151e-02],
 [1.8319e-02, 7.4792e-02, 3.8810e-02, -1.4562e-02, 3.9966e-02],
 [-3.3094e-02, -3.3363e-02, -1.8892e-02, -4.4120e-03, -4.7625e-02],
 [2.5141e-02, 6.0739e-03, -4.7880e-02, 5.2132e-02, -2.5730e-02]],

[[-2.2006e-02, 5.3673e-02, 7.1479e-02, 4.4850e-02, -1.3719e-02],
 [-3.0641e-02, -4.7391e-02, -4.3373e-02, -3.5418e-02, -3.6582e-02],
 [-7.3464e-02, 4.1423e-02, 3.1125e-02, -7.2853e-02, 2.1142e-02],
 [-3.8342e-02, 3.9738e-02, 6.5050e-02, -3.4770e-02, 1.7750e-02],
 [-2.6198e-02, 1.3820e-02, 3.3750e-02, -2.3173e-02, 6.9060e-02]],

[[7.9268e-03, 3.0332e-02, 6.3500e-03, 9.5566e-03, 1.3701e-02],
 [-4.9530e-02, 3.1349e-02, 6.4610e-03, -1.6019e-02, 1.8101e-02],
 [2.5062e-02, -4.1305e-02, -2.5765e-02, -3.8788e-02, 3.2496e-03],
 [-1.0869e-02, -1.2782e-02, 1.7321e-02, 1.1821e-04, -2.1841e-02],
 [-4.0416e-02, 4.5103e-02, 1.9360e-02, 4.3137e-02, 2.4815e-02]],

[[-5.7096e-02, 2.4175e-02, 4.9257e-02, -4.4496e-02, -5.5051e-02],
 [-4.2778e-02, -3.9268e-03, 4.4030e-02, 1.4911e-02, 3.5402e-02],
 [-1.4458e-02, -6.7022e-03, 4.9831e-02, 1.2359e-02, -5.9607e-03],
 [-1.9412e-02, 5.0847e-02, -1.0303e-02, -2.2048e-02, -3.1399e-02],
 [2.5083e-04, 3.9469e-02, 3.1913e-04, -1.5697e-02, -1.2800e-02]],

[[1.0421e-02, -2.4249e-02, -2.3249e-02, 7.5597e-03, 4.1297e-02],
 [-3.1814e-03, -5.1126e-02, 4.4184e-04, -5.4461e-02, -1.3193e-02],
 [-2.5235e-02, -6.3605e-02, 1.5915e-03, 5.3408e-02, 2.8882e-02],
 [-6.2323e-03, 1.1802e-02, 7.2037e-03, 2.3120e-02, -3.6161e-02],
 [4.3498e-02, 2.2783e-02, 1.6380e-02, 4.4353e-02, -4.4136e-02]],

[[-1.2383e-02, 7.7097e-03, 4.3540e-02, 1.5162e-03, 4.8234e-02],
 [2.2883e-02, 3.4046e-02, 3.6020e-03, 2.9084e-02, -4.7655e-02],
 [-6.2559e-03, 6.5284e-05, 2.7294e-03, 9.8782e-03, 1.1466e-03],
 [4.7257e-02, 4.3748e-02, 3.2428e-02, -1.0918e-02, -2.0033e-03],
 [-2.9727e-02, -1.8150e-02, -5.0234e-02, 1.3926e-02, 8.9921e-03]],

[[9.8064e-03, -1.7531e-02, -2.3044e-02, -5.8833e-02, -5.7825e-02],
 [1.6119e-02, 1.9908e-02, 9.0522e-03, -1.9387e-02, 4.6472e-02],
 [5.6299e-02, 2.2128e-02, -3.2722e-02, 3.4469e-02, 9.7884e-03],
 [-6.7920e-03, -8.3829e-03, -3.7747e-02, -3.3219e-03, 1.3810e-02],
 [2.0193e-02, -2.4495e-02, -9.7058e-03, 4.5458e-02, 2.8435e-02]],

[[-3.9731e-02, -1.4237e-03, 4.0888e-02, 4.6107e-02, -2.9201e-02],
 [4.3501e-02, 1.3410e-02, -4.8616e-02, -3.2419e-02, -4.6846e-02],
 [1.4749e-02, -2.5565e-02, 3.9864e-02, 1.5852e-02, -1.0650e-03],
 [3.6281e-02, 2.5745e-02, 1.9019e-02, 3.8697e-02, 7.4747e-02],
 [0.1407e-02, 1.1550e-02, 1.0025e-02, 4.7507e-02, 0.0414e-02]]]
```

```
[ 9.1487e-05, 1.1550e-02, 1.2035e-02, 4.7597e-02, -2.0414e-02]],

[[ 5.6352e-03, 5.2114e-02, 6.5336e-02, -1.9923e-02, -5.5468e-02],
 [ 5.3873e-02, 7.3572e-02, -1.4708e-02, -3.7314e-02, -3.9663e-02],
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4401245

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127594

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900055

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652664

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76677

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309677

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130089

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[[ 0.0324, -0.0015, 0.0638, 0.1245, -0.0080],
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[-8.9879e-04, -3.9861e-02, 5.0245e-03, 9.3606e-03, 1.4419e-02],
[-1.0447e-03, 1.8465e-03, 3.9053e-02, 4.0206e-02, -3.2502e-02],
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[ 0.7522e-02, 4.2721e-02, 0.1886e-02, 4.0746e-02, 0.7241e-02]

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6207275

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4830875

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820709

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[ 0.0649, -0.0344, 0.0411, 0.0035, -0.0033]],

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[-0.0423, 0.0301, -0.0278, 0.0274, -0.0176]],

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[-0.0133, -0.0228, 0.0293, -0.0144, -0.0953],
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[ 0.0155, -0.0426, -0.0657, 0.0540, -0.0367],
[-0.0066, 0.0348, -0.0229, -0.0397, -0.0386],
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```

```

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[ 4.3258e-02, -3.4707e-02, 9.1212e-03, 4.2722e-02, 5.2409e-03],
[-8.3731e-02, 2.4270e-02, 2.6819e-02, 1.9350e-02, -9.0399e-03],
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```

```
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 [ 2.7202e-02, 5.5389e-02, 2.2658e-03, -1.5217e-02, 8.5249e-02],
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[[ 2.7255e-02, -6.6057e-02, -2.7471e-02, -5.3161e-02, 3.0339e-02],
 [ 4.1996e-02, -1.3610e-03, -2.7825e-04, -1.8905e-02, -1.9675e-02],
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[[ 5.5776e-02, 1.5603e-02, 4.5612e-02, 4.2797e-03, -2.1109e-02],
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 [ 3.5264e-02, 2.4333e-02, -7.5953e-02, -5.4821e-02, -3.7135e-02]],

[[ 4.1914e-02, 7.1099e-02, -2.5803e-02, -2.4391e-03, 2.2581e-02],
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 [ 3.9410e-02, -2.0232e-02, -5.2033e-02, 4.0251e-02, -3.3108e-02],
 [ 7.5130e-04, -1.6654e-02, 2.9049e-02, 4.6485e-02, -3.6995e-02],
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[[ 2.3940e-02, 1.7436e-02, 5.6575e-02, 2.2351e-02, -2.1865e-02],
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 [ 5.3348e-02, 4.6040e-02, 3.6501e-03, 3.9702e-04, -4.2084e-02],
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[[ 5.3262e-02, -3.5415e-02, 1.6148e-02, -5.1699e-02, 9.0412e-04],
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 [ 4.3392e-02, -5.9541e-02, -6.9579e-03, -2.2408e-02, -5.9075e-02],
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 [ 1.2244e-03, -1.9115e-02, -1.2255e-01, -7.8232e-02, -1.8625e-02],
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 [-6.3955e-02, 9.5288e-03, 5.6203e-02, -3.8636e-02, 5.1138e-02]],

 [[ 9.5075e-03, -7.9580e-03, 1.1131e-02, 2.7920e-02, 2.9665e-02],
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71547

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[-0.0110, -0.0227, -0.0226, 0.0212, 0.0222]],

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[[ 0.0395, 0.0143, -0.0376, 0.0278, 0.0021],
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[ 0.0211, -0.0065, 0.0175, -0.0315, -0.0265],
[-0.0285, 0.0336, -0.0173, 0.0107, 0.0128],
[-0.0426, 0.0079, 0.0105, 0.0202, 0.0054]],

[[ 0.0011, 0.0395, -0.0141, -0.0359, -0.0425],
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[-0.0246, 0.0198, -0.0180, -0.0241, -0.0408],
[ 0.0266, 0.0292, -0.0307, -0.0219, 0.0238],
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[[ 0.0183, 0.0225, 0.0066, 0.0259, 0.0377],
[-0.0450, 0.0334, -0.0111, 0.0356, 0.0345],
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[ 0.0374, -0.0053, 0.0185, 0.0056, 0.0448],
[-0.0481, 0.0228, -0.0164, 0.0362, 0.0213]],

[[ 0.0333, 0.0022, -0.0393, -0.0231, -0.0338],
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[[ 0.0378, -0.0048, 0.0312, 0.0084, -0.0143],
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[-0.0096, -0.0025, 0.0273, 0.0256, -0.0129],
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[-0.0261, -0.0102, -0.0263, -0.0414, -0.0436]],

[[ 0.0080, 0.0237, -0.0199, 0.0474, -0.0299],
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[-0.0222, 0.0287, 0.0390, 0.0540, -0.0097],
[ 0.0288, 0.0024, 0.0141, -0.0140, 0.0064]],

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[-0.0041, 0.0439, 0.0168, 0.0354, -0.0268],
[-0.0326, 0.0261, 0.0207, 0.0116, 0.0015]]], Bias: 0.040384385734796524

```

```

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[ 5.4230e-02, 2.5113e-03, 8.6674e-02, 1.0723e-01, -1.9640e-02],
[ 3.2413e-02, -1.9671e-02, 2.0419e-02, -4.6138e-02, -1.5041e-02],
[-8.7930e-03, -6.6212e-02, -2.0767e-02, 3.8118e-02, 1.1174e-02]],

[[-1.0667e-02, -5.9338e-02, 5.4888e-02, 5.1735e-02, 1.2802e-02],
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[ 2.6948e-02, 1.7023e-02, 6.5810e-02, -3.2230e-02, -7.4216e-02],
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[-1.4272e-02, -5.8717e-02, 3.6501e-02, 7.6738e-05, 1.1102e-02]],

[[ 7.2539e-02, 9.2841e-03, 8.2748e-03, -3.9314e-02, -1.1826e-02],
[ 3.1607e-02, -7.7337e-02, 4.7847e-02, 3.3022e-02, -2.8574e-02],
[ 4.7946e-03, -1.2755e-01, 8.3207e-02, 2.6789e-02, -2.5937e-02],
[-7.2684e-02, -1.2717e-02, 9.7046e-02, -2.1780e-02, 6.4247e-02],
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[[-3.1968e-02, 2.4500e-02, -4.1991e-03, 2.5177e-02, 4.6466e-02],
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[-2.0333e-02, -5.4791e-03, -4.0474e-02, 7.8417e-02, 3.0814e-02],
[ 1.7553e-02, -2.6469e-02, 5.5438e-03, 2.9013e-02, -3.4094e-02],
[-4.8473e-02, -3.2769e-02, -1.7576e-02, -6.5441e-02, -3.0578e-02]],

[[ -2.5213e-02, -4.8213e-03, -5.5804e-02, 2.6629e-02, -1.5393e-02]

```

```

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 [ 5.3280e-02,  4.7484e-02,  4.0593e-02,  9.4860e-02, -1.7091e-02],
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[[ 6.1233e-03,  5.2266e-02, -6.4354e-02, -6.1168e-02, -5.2459e-02],
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```

249733

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 [-0.0135,  0.0312, -0.0150,  0.0538,  0.0236],
 [-0.0034, -0.0312, -0.0060,  0.0107,  0.0187]]])

```

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[[-0.0434, -0.0055, 0.0411, 0.0513, -0.0832],  
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[0.0926, -0.0686, -0.0571, 0.0136, -0.0329],  
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[ 0.0249, 0.0235, 0.0136, 0.0119, -0.0236],  
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[ 0.0436, -0.0404, -0.0075, -0.0127, -0.0397],  
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tensor([[[ 7.6089e-03, -4.4042e-02, -5.4086e-02, 3.8953e-02, 7.1130e-04],  
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[ 3.4045e-02, -3.9630e-02, -1.1144e-02, -2.3648e-02, 6.0016e-02],  
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[ 4.0224e-02, 4.9598e-02, -4.6813e-03, -4.6869e-02, -7.4320e-02],  
[-7.3069e-02, -5.4277e-02, -2.7705e-02, -2.3419e-02, 2.3552e-02],  
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32082593

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90944

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85222

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93445

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[-1.6008e-02, 2.1520e-02, -2.4802e-02, 7.3041e-02, -1.1996e-02]],

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[[ 4.3073e-02, 2.5134e-03, 3.3362e-02, -1.1777e-02, -6.7182e-02],

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[[-1.8767e-02, 8.2773e-02, 4.2355e-02, -5.5222e-03, 2.1902e-02],
[ 2.9373e-02, 6.5823e-03, -1.2848e-02, -5.2096e-03, -5.7181e-02],
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[-5.1408e-02, -2.0963e-03, 5.1374e-02, 2.5526e-02, 4.1489e-02],
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68442

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[[ 0.0682, 0.0806, 0.0214, 0.0378, -0.0262],
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[-0.0677, 0.0148, -0.0150, 0.0082, 0.0179],
[-0.0009, 0.0537, 0.0156, -0.0115, -0.0028],
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```

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[[-0.0204, -0.0503, -0.0338, -0.0038, -0.0583],
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 [ 3.0932e-02, -3.6585e-02, -2.3345e-02, -3.3159e-02, 4.0727e-02],
 [-6.9146e-02, -1.4096e-03, -1.0231e-02, -2.8178e-03, -7.8172e-02],
 [-4.6758e-02, -6.4451e-02, -4.3977e-02, -4.0468e-02, -3.4811e-02]],

[[-4.8863e-02, -3.5630e-02, -3.8836e-03, -1.8986e-02, 2.2414e-02],
 [-5.7660e-02, -8.1305e-03, -3.1759e-02, -9.0678e-02, 7.2042e-02],
 [-3.3390e-02, 1.2568e-02, 1.0619e-04, -1.2170e-02, 9.9061e-03],
 [ 3.1693e-02, 7.3576e-03, -8.7663e-03, 6.1064e-02, 4.3943e-02],
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 [-2.6634e-02, 1.1007e-02, 6.7478e-03, -1.1606e-01, 4.8245e-03],
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 [-4.7373e-02, -2.9117e-02, 8.6582e-02, 3.4074e-02, 8.0514e-03]],

[[-1.7662e-02, -1.7189e-02, -7.4259e-02, 2.6206e-03, -3.2761e-02],
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401451

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 [[ 5.2941e-02, 1.3844e-02, 1.5068e-03, -2.2568e-02, -1.8157e-02],
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[[ 0.0341, 0.0224, -0.0643, -0.0214, -0.0350],
[ 0.0026, -0.0072, -0.0204, 0.0304, 0.0398],
[ 0.0212, 0.0316, -0.0123, -0.0336, 0.0456],
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[[-0.0214, 0.0016, 0.0020, -0.0177, -0.0042],
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[[ 0.0133, -0.0134, -0.0259, 0.0689, 0.0048],
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[[ 0.0226, -0.0550, 0.0164, -0.0250, -0.0103],
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[ 0.0356, -0.0316, 0.0230, 0.0729, -0.0378],
[ 0.0421, -0.0564, 0.0125, 0.0153, -0.0634],
[ 0.0309, 0.1102, 0.0948, 0.0449, 0.0191],
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[[-0.0634, -0.0289, 0.0147, 0.0038, 0.0759],
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[-0.0595, -0.0726, 0.0123, 0.0093, -0.0460]],

[[ 0.0189, -0.0327, 0.0694, 0.0613, 0.0490],
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[ 0.0663, 0.1247, 0.0379, -0.0023, -0.0388]],

[[-0.0337, 0.0312, -0.0067, 0.0354, 0.0169],
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[-0.0339, -0.0629, -0.0703, 0.0462, 0.0237],
[ 0.0859, 0.1138, 0.0257, -0.0245, -0.0236]],

[[ 0.0042, -0.0459, -0.0010, -0.0016, -0.0082],
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[[ 0.0211, -0.0253, -0.0210, 0.0126, -0.0150],
[ 0.0040, 0.0227, 0.0506, 0.0045, 0.0214]]], Bias: 0.048610005527734756

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[ 6.7238e-02, 1.4828e-02, 5.3958e-02, 1.8342e-04, 6.6950e-03],
[-2.1029e-03, 3.1190e-02, -5.4382e-03, -3.2872e-02, -3.2036e-02],
[-5.7923e-02, 3.1739e-02, 6.0290e-02, 4.7026e-02, 3.6843e-02]],

[[-7.4876e-03, 1.8604e-02, -3.5715e-02, 3.1753e-02, 3.9868e-04],
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[ 5.5057e-03, -4.7379e-02, 2.3581e-02, 6.6260e-02, 9.9323e-03],
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[[ 6.7192e-02, 1.3164e-02, -1.2629e-02, 1.1983e-02, 5.6613e-02],
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[ 1.3184e-02, -3.8331e-02, -9.4428e-02, 5.2958e-02, 1.6581e-02],
[ 8.1958e-02, 3.8898e-02, -4.0722e-02, 5.6647e-02, 7.4203e-03],
[ 8.5163e-03, 1.0183e-01, 2.4905e-02, -4.3851e-02, -7.4087e-03]]],

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[[-3.1192e-02, -2.1993e-02, 9.2844e-02, -3.7237e-02, -6.1982e-05],
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 [ 2.6302e-02, -5.3729e-02, 9.5870e-03, 2.0964e-02, -2.4803e-03],
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[[ 3.0385e-02, -1.7539e-02, 7.6523e-03, 2.1054e-02, 3.4860e-02],
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```



```

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          [-3.4987e-02, -3.8312e-02,  2.1358e-02, -4.3430e-02,  4.1693e-02],
          [-1.8107e-03, -1.9484e-03, -4.8905e-02,  2.2665e-02,  2.9565e-02],
          [ 1.8447e-02, -2.0904e-02, -4.5903e-02,  3.6212e-03, -4.8624e-03]]],

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5948429

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4993551

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81012

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 [-0.0061,  0.0405, -0.0681,  0.0119, -0.0575]],

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```

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 [-0.0021, -0.0527, 0.0701, -0.0239, -0.0573],
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 [-0.0684, -0.0272, 0.0827, -0.0023, -0.0621],
 [-0.0200, 0.0683, 0.0208, -0.1331, -0.0889]],

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 [-0.0348, 0.0203, -0.0470, -0.1089, -0.0074]],

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 [ 4.1682e-02, 9.7880e-03, 2.1208e-02, -4.0754e-02, -1.8064e-02],
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[[-5.3448e-02, -3.6820e-02, 3.3225e-02, 5.2417e-02, 3.7335e-02],
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[[ 2.4099e-02, -6.3288e-02, -2.8143e-02, 4.2988e-03, 2.4810e-02],
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 [ 1.5352e-02, -3.1654e-02, -1.4864e-04, -1.5684e-02, -9.5238e-03],
 [ 1.9513e-02,  2.0753e-02,  2.3559e-02, -1.9140e-02,  2.7156e-02],
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 [ 6.1593e-02,  7.7102e-04,  9.3306e-02, -1.8199e-02,  1.1831e-02],
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69745

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360649

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85834

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2680092

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024132

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83734

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9203033

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[[-3.3329e-02, 1.3096e-02, -9.1004e-03, -1.4000e-02, 2.5128e-02],
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[[-3.9633e-02, -1.0345e-02, -3.8172e-02, 2.3253e-03, -5.0331e-02],
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[-4.3980e-02, 1.7824e-02, 9.8011e-04, 6.7065e-02, -8.1158e-03],
[-4.7505e-02, 2.3171e-02, 3.8345e-02, 4.9353e-02, 2.3592e-02],
[-2.5786e-02, -3.2565e-02, -1.5494e-02, 1.9780e-02, 2.8084e-03]],

[2.1738e-03, -3.3111e-02, -3.8028e-02, 1.3261e-02, 1.3704e-02],
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[-1.1260e-01, -1.9646e-02, -2.2081e-02, -3.8922e-02, -1.8489e-02],
[4.3535e-02, 1.3731e-01, -8.5921e-02, 7.9745e-02, -3.5721e-02],
[-5.4177e-02, -6.4476e-02, 9.0614e-03, -3.5575e-02, -4.0038e-02]],

[1.1092e-02, -3.2996e-02, -2.9193e-02, -3.1264e-02, 2.0871e-02],
[5.7595e-02, 1.3714e-01, 1.4765e-01, -1.1168e-02, 6.8453e-03],
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[ 6.5701e-02,  4.3407e-02,  6.0975e-02,  6.5944e-03,  2.9059e-02],  
[-4.4292e-02, -1.2610e-02, -1.4341e-02, -7.2025e-02, -3.8091e-02]],
```

```
[[ 2.2595e-02, -3.3355e-02,  3.1799e-02,  2.8730e-02, -4.2565e-02],  
[ 7.6196e-03,  4.3400e-02,  3.3151e-02, -3.1755e-02, -3.0723e-03],  
[-4.3394e-02, -3.4902e-02,  4.0883e-02,  8.3490e-02,  5.2002e-02],  
[ 5.3228e-02, -3.4578e-02,  2.7030e-02, -9.3548e-04,  4.0656e-02],  
[-4.2430e-02, -8.8989e-03, -3.3148e-02, -4.4792e-02,  4.5956e-02]]), Bias: 0.070396110415
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45868

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        [-0.0306,  0.0008, -0.0331, -0.0032, -0.0278],  
        [ 0.0286,  0.0531, -0.0290, -0.0122,  0.0042],  
        [ 0.0241, -0.0079, -0.0883, -0.0184, -0.0571]],
```

```
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[ 0.0202,  0.0785, -0.0095, -0.0204, -0.0308],  
[ 0.0056, -0.0265,  0.0483,  0.0605,  0.0269],  
[ 0.0279, -0.0020, -0.0447,  0.0395,  0.0234]],
```

```
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[-0.0283,  0.0253, -0.0207, -0.0282,  0.0185],  
[ 0.0291,  0.0044, -0.0043, -0.0182,  0.0647],  
[ 0.0415, -0.0299, -0.0138,  0.0693,  0.0023]],
```

```
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[ 0.0562,  0.0707, -0.0020, -0.0324,  0.0612],  
[-0.0350,  0.0119, -0.0328, -0.0333,  0.0399],  
[-0.0502, -0.0466, -0.0422, -0.0297,  0.0356]],
```

```
[[ 0.0009,  0.0193,  0.0473,  0.0304,  0.0239],  
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[ 0.0309,  0.0141,  0.0321, -0.0699, -0.0309],  
[ 0.0333,  0.0072, -0.0168, -0.0236,  0.0523],  
[ 0.0040, -0.0608, -0.0252, -0.0692, -0.0257]],
```

```
[[ 0.0241, -0.0021, -0.0316,  0.0766, -0.0300],  
[ 0.0426, -0.0658,  0.0149,  0.0319, -0.0398],  
[-0.0023,  0.0497,  0.0700, -0.0378,  0.0246],  
[ 0.0476,  0.0453,  0.0504, -0.0324, -0.0016],  
[-0.0035,  0.0329,  0.0472,  0.0366, -0.0215]],
```

```
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[ 0.0206,  0.0145,  0.0320, -0.0232, -0.0287],  
[-0.0191, -0.0278, -0.0158, -0.0098, -0.0333],  
[-0.0108, -0.0088, -0.0097, -0.0627,  0.0406]],
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```
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[-0.0035,  0.0578, -0.0428,  0.0593, -0.0657],  
[-0.0228,  0.0789,  0.0469,  0.0106, -0.0074],  
[-0.0110,  0.0336, -0.0266,  0.0384, -0.0011]],
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```
[[ 0.0394, -0.0147, -0.1068,  0.0113, -0.0634],  
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[ 0.0203,  0.0583, -0.0599,  0.0016, -0.0019],  
[ 0.0172,  0.0125, -0.0273,  0.0549,  0.0146],  
[-0.0137,  0.0248, -0.0297,  0.0061,  0.0220]],
```

```
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[ 0.0256, -0.0817,  0.0510, -0.0181, -0.0250],  
[-0.0415,  0.0446,  0.0777,  0.0092,  0.0591]],
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```
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```

```
[[ 0.0206, -0.0499, -0.0351,  0.0264,  0.0301],
```

```
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[-0.0343, -0.0272, 0.0516, -0.0116, -0.0491],
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[ 0.0093, -0.0019, -0.0658, -0.0207, -0.0319]],

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[ 0.0087, 0.0265, 0.0243, 0.0690, -0.0131]],

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3069954

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8341675

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[[ 0.0011, 0.0388, -0.0486, -0.0219, -0.0161],
[-0.0136, -0.0148, 0.0393, 0.0514, 0.0041]],

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[-0.0303, -0.0083, -0.0265, 0.0538, -0.0372]],

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[[ 0.0298, 0.0769, -0.0312, -0.0260, -0.0440],

```

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[[-0.0342, -0.0230, -0.0404,  0.0155, -0.0312],
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[[ 0.0294,  0.0034, -0.0063,  0.0163,  0.0362],
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 [ 0.0509, -0.0162,  0.0409,  0.0281,  0.0152]],

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[[-0.0186, -0.0394, -0.0265, -0.0327, -0.0537],
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[[ 0.0064, -0.0200,  0.0235, -0.0361, -0.0076],
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  [-0.0370, 0.0500, -0.0418, 0.0261, -0.0257]]], Bias: -0.02282019890844822
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  [-0.0732, 0.0111, 0.0453, 0.0373, 0.0332],
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  [-0.0380, 0.0284, 0.0131, 0.0097, 0.0135],
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  [-0.0529, 0.0510, 0.0401, -0.0527, 0.0312]],

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```



```

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[[ 0.0178, -0.0329, -0.0452, -0.0293, -0.0429],
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```

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 [ 1.9876e-02, -3.4337e-02, -2.9476e-03, -3.7206e-02, -2.2646e-02],
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[[ 6.0772e-02, 7.8870e-02, -3.1817e-02, 2.5436e-02, -3.2655e-03],
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 [ 5.6151e-02, -6.4546e-02, 2.4595e-03, 3.3208e-02, -7.5365e-02],
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 [ 6.8424e-02, 3.1492e-03, -4.8327e-02, -7.7625e-02, -4.7561e-02],
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0805168

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4317856

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97818

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9499626

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492731

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154816

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914566

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[  1.2971e-02,  3.2746e-02,  3.7669e-02,  1.9436e-02,  1.4077e-02],
[  2.7909e-02,  5.4819e-02, -1.3225e-04,  1.0219e-01,  6.0017e-02]],

[[ -2.3232e-02, -1.5175e-02, -1.0073e-02, -4.5438e-02,  1.2376e-02],
[  1.7623e-02,  1.2651e-02, -2.3322e-02, -3.2155e-02, -2.7582e-02],
[  8.3606e-03,  1.0956e-01,  4.7018e-02, -5.2182e-02,  3.8019e-02],
[  4.1275e-02,  6.2118e-02, -5.3352e-02, -7.1726e-03,  4.5961e-02],
```

```
tensor([[[[-0.0172, -0.0173, -0.0602, -0.0110, -0.0053],
           [-0.0461,  0.0495,  0.0285,  0.0096, -0.0067],
           [ 0.0435,  0.0087, -0.0261,  0.0244,  0.0260],
           [-0.0138,  0.0545,  0.0297,  0.0169,  0.0230],
           [-0.0353, -0.0581, -0.0506,  0.0179, -0.0548]],

          [[ 0.0117,  0.0421,  0.0531, -0.0060,  0.0117],
           [ 0.0032,  0.0102, -0.0794,  0.0011,  0.0101],
           [-0.0702, -0.0402, -0.0250,  0.0191,  0.0134],
           [ 0.0245,  0.0585, -0.0322,  0.0076, -0.0274],
           [ 0.0167,  0.0836,  0.1026,  0.1024,  0.0051]],

          [[-0.0274, -0.0099, -0.0137, -0.0382,  0.0328],
           [ 0.0036, -0.0437, -0.0080,  0.0330,  0.0515],
           [-0.0178,  0.0106,  0.0491,  0.0586,  0.0004],
           [ 0.0361,  0.0283,  0.0148,  0.0370, -0.0013],
           [-0.0573, -0.0622, -0.0364, -0.0228,  0.0247]],

          [[ 0.0112, -0.0074,  0.0221,  0.0299,  0.0007],
           [-0.0201,  0.0196, -0.0141,  0.0483,  0.0200],
           [-0.0433, -0.0505, -0.0589,  0.0280, -0.0110],
           [-0.0373, -0.0403, -0.0087, -0.0320, -0.0506],
           [ 0.0107,  0.0130,  0.0171,  0.0094,  0.0424]],

          [[-0.0197, -0.0662, -0.0403, -0.0168,  0.0173],
           [ 0.0237,  0.0029,  0.0471,  0.0557,  0.0499],
           [ 0.0160, -0.0161,  0.0080, -0.0144,  0.0158],
           [-0.0428,  0.0120, -0.0143, -0.0210,  0.0250],
           [ 0.0012, -0.0042,  0.0257, -0.0005, -0.0296]],

          [[-0.0402,  0.0433,  0.0338,  0.0520,  0.0355],
           [-0.0414, -0.0300, -0.0182,  0.0090, -0.0033],
           [-0.0148,  0.0113,  0.0409, -0.0080, -0.0581],
           [-0.0129, -0.0580, -0.0023,  0.0389,  0.0508],
           [-0.0031,  0.0451,  0.0471, -0.0378, -0.0378]],

          [[ 0.0061,  0.0378, -0.0148, -0.0018,  0.0457],
           [-0.0141, -0.0354,  0.0160,  0.0233, -0.0561],
           [ 0.0028,  0.0235, -0.0245,  0.0170, -0.0171],
           [-0.0342,  0.0574,  0.0019, -0.0790, -0.0136],
           [ 0.0105,  0.0085,  0.0247, -0.0368, -0.0267]],

          [[ 0.0129,  0.0181, -0.0155, -0.0033, -0.0200],
           [-0.0049, -0.0393, -0.0530,  0.0677, -0.0370],
           [-0.0342,  0.0370,  0.0239, -0.0008,  0.0328],
           [-0.0332,  0.0162,  0.0584,  0.0061,  0.0407],
           [ 0.0381, -0.0091,  0.0612, -0.0246,  0.0091]],

          [[-0.0396, -0.0534, -0.0066,  0.0067, -0.0852],
           [ 0.0025,  0.0179, -0.0255,  0.0218, -0.0058],
           [ 0.0595,  0.0100, -0.0094, -0.0508,  0.0188],
           [ 0.0397, -0.0371,  0.0105,  0.0222, -0.0684],
           [-0.0301, -0.0285, -0.0482,  0.0202, -0.0113]],

          [[ 0.0201, -0.0012, -0.0078, -0.0597, -0.0078],
           [ 0.0149, -0.0265,  0.0021,  0.0026,  0.0403],
           [ 0.0175, -0.0403, -0.0160, -0.0310,  0.0014],
           [ 0.0096, -0.0192,  0.0019,  0.0144,  0.0198],
           [ 0.0228,  0.0073,  0.0907,  0.0143,  0.0030]],

          [[-0.0385,  0.0144, -0.0343, -0.0685, -0.0185],
           [ 0.0416, -0.0625,  0.0344,  0.0447,  0.0296],
           [-0.0395,  0.0354,  0.0477, -0.0037, -0.0158],
           [-0.0157, -0.0380,  0.0217, -0.0294, -0.0510],
           [ 0.0134,  0.0131, -0.0032,  0.0184, -0.0575]],

          [[-0.0196,  0.0101,  0.0106, -0.0376, -0.0402],
           [-0.0403,  0.0117,  0.0222,  0.0158,  0.0565],
           [-0.0494,  0.0521, -0.0497, -0.0227,  0.0204],
           [-0.0411, -0.0049, -0.0241,  0.0100, -0.0424],
           [ 0.0078, -0.0066,  0.0088, -0.0004,  0.0200]],

          [[-0.0482, -0.0021, -0.0028,  0.0057, -0.0605],
           [-0.0185,  0.0208,  0.0597, -0.0345, -0.0297],
```

```

[-0.0325, 0.0127, 0.0246, 0.0212, 0.0083],
[-0.0149, 0.0466, -0.0198, 0.0458, 0.0284],
[-0.0288, -0.0135, -0.0203, 0.0038, -0.0034]],

[[ 0.0420, 0.0040, -0.0577, -0.0007, 0.0287],
[-0.0219, -0.0830, -0.0511, -0.0488, -0.0722],
[-0.0081, 0.0571, 0.0917, -0.0243, 0.0120],
[ 0.0355, 0.0293, 0.0140, 0.0863, 0.0484],
[-0.0561, -0.0098, 0.0024, -0.0333, -0.0301]],

[[ 0.0618, 0.0185, -0.0300, -0.0054, 0.0512],
[-0.0529, -0.0527, -0.0559, 0.0511, 0.0038],
[-0.0031, 0.0516, 0.0318, -0.0415, -0.0049],
[-0.0091, -0.0417, 0.0051, 0.0500, -0.0119],
[ 0.0158, 0.0696, -0.0136, -0.0611, -0.0042]],

[[-0.0293, 0.0143, -0.0320, 0.0166, 0.0075],
[-0.0071, -0.0160, -0.0239, -0.0249, -0.0348],
[ 0.0154, 0.0163, -0.0238, 0.0188, 0.0354],
[ 0.0049, 0.0224, -0.0249, 0.0551, 0.0362],
[ 0.0270, 0.0621, 0.0375, 0.0549, 0.0198]]], Bias: -0.03851422294974327

tensor([[[[-0.0360, 0.0728, 0.0176, 0.0110, -0.0360],
[-0.0900, -0.0123, 0.0013, 0.0122, 0.0427],
[-0.0629, -0.0411, 0.0763, -0.0052, 0.0420],
[-0.0145, -0.0091, 0.0094, 0.0233, 0.0205],
[-0.0049, -0.0047, 0.0357, -0.0598, 0.0101]],

[[ 0.0557, 0.0177, 0.0084, -0.0464, -0.0227],
[-0.0406, 0.0431, 0.0149, -0.0345, 0.0756],
[-0.0547, 0.0355, -0.0018, -0.0120, 0.0022],
[-0.0192, 0.0355, -0.0107, -0.0362, 0.0259],
[ 0.0061, -0.0243, -0.0134, -0.0142, 0.0227]],

[[ 0.0025, 0.0821, -0.0682, 0.0173, -0.0005],
[-0.1057, 0.0942, -0.1083, 0.0114, 0.0027],
[-0.1559, 0.0861, 0.0310, 0.0339, -0.0104],
[-0.0208, -0.0613, -0.0057, 0.0236, -0.0483],
[ 0.0439, -0.0082, 0.0793, 0.0461, -0.0186]],

[[[-0.0183, -0.0592, -0.0070, -0.0176, 0.0427],
[-0.0053, -0.0141, 0.0164, 0.0327, -0.0029],
[ 0.0373, -0.0446, -0.0617, 0.0470, -0.0502],
[-0.0296, -0.0045, 0.0016, -0.0092, 0.0254],
[ 0.0173, -0.0049, -0.0272, -0.0351, -0.0002]],

[[[-0.0662, -0.0009, -0.0230, -0.0237, 0.0487],
[-0.0565, 0.0126, 0.0075, 0.0245, 0.0015],
[ 0.0185, -0.0458, 0.0159, -0.0206, -0.0416],
[ 0.0069, -0.0007, 0.0316, -0.0115, -0.0341],
[-0.0171, 0.0030, -0.0384, -0.0503, -0.0053]],

[[ 0.0437, 0.0101, 0.0261, -0.0147, -0.0013],
[ 0.0054, -0.0003, 0.0638, -0.0224, -0.0295],
[ 0.0405, 0.0068, -0.0115, -0.0818, 0.0145],
[ 0.0074, -0.0311, -0.0664, -0.0138, 0.0126],
[-0.0309, -0.0618, 0.0451, 0.0481, 0.0256]],

[[[-0.0326, -0.0493, 0.0282, -0.0105, -0.0232],
[-0.0326, -0.0036, 0.0322, 0.0418, -0.0059],
[ 0.0417, -0.1021, -0.0406, -0.0166, -0.0243],
[ 0.0306, -0.0088, -0.0126, -0.0143, -0.0401],
[ 0.0126, -0.0432, 0.0285, 0.0310, -0.0363]],

[[ 0.0244, -0.0543, 0.0739, 0.0160, -0.0080],
[ 0.0199, -0.0300, -0.0252, -0.0062, -0.0275],
[ 0.0244, -0.0618, 0.0142, -0.0104, -0.0603],
[-0.0478, 0.0067, -0.0338, -0.0451, -0.0039],
[ 0.0135, -0.0037, -0.0319, 0.0214, 0.0277]],

[[[-0.0215, -0.0602, 0.0218, 0.0413, -0.0044],
[-0.0121, -0.0596, -0.0197, -0.0096, -0.0256],
[-0.0394, -0.0384, -0.0014, 0.1131, -0.0127],
[ 0.0299, 0.0352, -0.0581, 0.0729, 0.0167],
[-0.0002, 0.0601, -0.0136, 0.0490, -0.0071]],

[[ 0.0273, -0.0930, -0.0274, 0.0597, 0.0708],

```



```

[-0.0144, -0.0376, 0.0796, -0.0345, 0.0497],
[-0.0135, -0.0772, 0.0108, -0.0327, 0.0150],
[-0.0113, -0.0363, -0.0044, 0.0075, -0.0180],
[ 0.0839, -0.0196, 0.0362, 0.0568, 0.0302]],

[[-0.0213, -0.0308, 0.0048, 0.0115, 0.0225],
[-0.0701, -0.0050, 0.0188, -0.0604, -0.0350],
[-0.0619, -0.0268, 0.0235, -0.0014, 0.0180],
[ 0.0376, -0.0273, 0.0223, -0.0354, -0.0459],
[ 0.0380, 0.0491, 0.0133, 0.0157, 0.0082]],

[[-0.0721, -0.0170, 0.0037, -0.0046, 0.0597],
[ 0.0166, -0.0135, 0.0067, -0.0428, -0.0178],
[-0.0149, -0.0908, -0.0351, -0.0096, 0.0292],
[ 0.0246, -0.0291, -0.0355, 0.0063, 0.0159],
[-0.0254, -0.0065, 0.0107, -0.0458, 0.0139]],

[[-0.0291, -0.0063, 0.0158, 0.0349, 0.0214],
[ 0.0370, 0.0433, -0.0361, 0.0031, 0.0175],
[-0.0378, -0.0509, 0.0098, 0.0493, -0.0312],
[-0.0430, 0.0004, 0.0307, -0.0004, 0.0484],
[-0.0013, -0.0343, -0.0132, 0.0423, 0.0139]],

[[-0.0264, -0.0482, 0.1137, 0.0420, 0.0265],
[-0.0759, 0.0874, -0.0350, -0.0690, -0.0181],
[-0.1502, -0.0536, 0.0219, -0.0343, -0.0628],
[-0.0575, -0.0671, 0.0340, 0.0206, 0.0027],
[ 0.0409, -0.0827, 0.0382, 0.0801, -0.0168]],

[[-0.0724, -0.0254, 0.0822, 0.0629, 0.0960],
[-0.0245, 0.0629, -0.0202, 0.0508, -0.0221],
[-0.0028, 0.0025, -0.0339, -0.0222, -0.0242],
[ 0.0107, -0.0261, 0.0029, -0.0256, -0.0026],
[ 0.0381, -0.0286, 0.0213, -0.0239, -0.0603]],

[[ 0.0029, -0.0534, -0.0589, 0.0430, 0.0162],
[-0.0003, 0.0505, 0.0165, 0.0166, -0.0218],
[-0.0611, 0.0277, -0.0296, 0.0182, 0.0249],
[-0.0725, 0.0527, 0.0173, -0.0133, 0.0187],
[ 0.0171, -0.0405, 0.0292, -0.0255, -0.0177]]], Bias: -0.02095237374305725

```

```

tensor([[[[-0.0335, -0.0137, -0.0174, -0.0061, 0.0101],
[ 0.0082, -0.0150, 0.0495, -0.0201, -0.0203],
[ 0.0457, -0.0271, -0.0359, 0.0083, -0.0240],
[ 0.0220, 0.0260, -0.0436, 0.0211, -0.0330],
[-0.0035, 0.0057, -0.0331, -0.0353, 0.0443]],

[[ 0.0248, 0.0167, 0.0190, -0.0271, 0.0107],
[ 0.0068, -0.0445, -0.0028, 0.0122, 0.0023],
[-0.0359, 0.0389, -0.0178, -0.0036, 0.0293],
[-0.0246, -0.0215, 0.0040, -0.0010, 0.0111],
[ 0.0063, -0.0475, -0.0196, 0.0185, -0.0059]],

[[[-0.0275, -0.0292, 0.0105, -0.0081, 0.0460],
[-0.0455, -0.0021, -0.0326, 0.0502, -0.0375],
[-0.0023, -0.0161, -0.0388, 0.0269, 0.0243],
[-0.0188, -0.0011, 0.0041, 0.0132, -0.0439],
[-0.0395, -0.0138, -0.0261, -0.0267, 0.0279]],

[[[-0.0027, 0.0198, -0.0193, 0.0382, -0.0237],
[ 0.0347, 0.0155, -0.0114, 0.0385, -0.0169],
[-0.0133, -0.0293, -0.0172, -0.0239, 0.0040],
[-0.0283, 0.0010, 0.0114, 0.0109, -0.0274],
[ 0.0081, 0.0327, -0.0333, 0.0395, 0.0265]],

[[[ 0.0162, -0.0137, 0.0292, 0.0042, 0.0062],
[ 0.0169, -0.0379, -0.0245, 0.0241, -0.0479],
[-0.0248, -0.0276, -0.0240, 0.0005, 0.0218],
[-0.0266, 0.0497, 0.0360, 0.0181, 0.0491],
[ 0.0236, -0.0222, -0.0321, 0.0012, 0.0120]],

[[[-0.0256, 0.0123, 0.0317, 0.0051, -0.0457],
[-0.0132, -0.0016, -0.0235, 0.0182, 0.0164],
[ 0.0121, -0.0237, 0.0029, 0.0239, -0.0334],
[ 0.0293, 0.0215, -0.0444, 0.0494, -0.0358],
[-0.0307, 0.0179, -0.0201, 0.0166, -0.0083]]],

```

```

[[-0.0211, 0.0404, 0.0288, 0.0417, 0.0138],
 [ 0.0347, 0.0133, -0.0348, -0.0349, -0.0017],
 [-0.0369, 0.0007, -0.0367, -0.0302, 0.0037],
 [-0.0381, -0.0270, 0.0420, -0.0137, 0.0031],
 [ 0.0027, -0.0303, 0.0297, -0.0322, 0.0372]],

[[-0.0413, 0.0072, -0.0093, -0.0276, 0.0063],
 [-0.0331, 0.0095, 0.0450, 0.0328, -0.0357],
 [-0.0155, 0.0489, 0.0218, 0.0431, 0.0179],
 [-0.0243, 0.0279, -0.0009, 0.0478, -0.0350],
 [ 0.0481, 0.0120, -0.0372, -0.0019, 0.0136]],

[[-0.0130, 0.0073, -0.0273, -0.0145, -0.0090],
 [-0.0103, -0.0444, -0.0055, -0.0142, -0.0406],
 [-0.0042, 0.0282, -0.0111, 0.0003, 0.0483],
 [ 0.0104, -0.0439, 0.0209, -0.0097, 0.0080],
 [ 0.0442, 0.0289, -0.0270, -0.0137, 0.0474]],

[[ 0.0235, -0.0059, 0.0307, -0.0402, -0.0326],
 [ 0.0442, 0.0020, 0.0036, -0.0499, 0.0427],
 [-0.0098, 0.0275, 0.0247, 0.0098, 0.0343],
 [-0.0121, 0.0221, 0.0064, 0.0386, 0.0217],
 [-0.0128, 0.0281, 0.0066, -0.0443, 0.0225]],

[[ 0.0017, -0.0069, -0.0295, 0.0210, -0.0162],
 [-0.0064, -0.0211, 0.0267, 0.0204, 0.0500],
 [ 0.0091, -0.0490, -0.0352, 0.0241, 0.0388],
 [-0.0415, 0.0341, 0.0163, -0.0306, -0.0110],
 [ 0.0211, -0.0193, 0.0055, 0.0418, 0.0065]],

[[-0.0099, -0.0266, -0.0462, -0.0285, 0.0395],
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 [ 0.0424, 0.0276, 0.0393, 0.0006, -0.0302],
 [-0.0062, 0.0306, -0.0083, 0.0315, 0.0103],
 [-0.0429, 0.0231, -0.0335, -0.0391, 0.0358]],

[[-0.0159, 0.0017, 0.0478, -0.0228, -0.0147],
 [-0.0329, -0.0016, -0.0262, 0.0004, -0.0292],
 [ 0.0213, -0.0267, -0.0325, -0.0392, -0.0234],
 [ 0.0407, 0.0117, 0.0156, -0.0329, 0.0474],
 [ 0.0065, 0.0165, 0.0347, 0.0005, -0.0414]],

[[-0.0044, -0.0495, -0.0250, 0.0139, 0.0367],
 [-0.0403, -0.0248, -0.0247, 0.0177, -0.0399],
 [ 0.0326, 0.0469, -0.0429, 0.0340, -0.0257],
 [-0.0277, -0.0179, -0.0126, -0.0206, 0.0274],
 [-0.0106, -0.0271, 0.0124, -0.0325, 0.0119]],

[[-0.0375, -0.0379, -0.0274, 0.0432, 0.0035],
 [-0.0093, 0.0109, -0.0032, 0.0394, -0.0058],
 [ 0.0363, -0.0395, -0.0288, -0.0461, 0.0063],
 [ 0.0287, -0.0020, 0.0026, -0.0038, 0.0109],
 [-0.0295, -0.0314, 0.0231, -0.0169, -0.0267]],

[[ 0.0484, 0.0423, -0.0361, -0.0342, 0.0259],
 [-0.0046, 0.0193, -0.0201, 0.0070, -0.0089],
 [ 0.0018, 0.0389, -0.0465, -0.0491, -0.0133],
 [ 0.0027, 0.0142, 0.0373, -0.0494, -0.0478],
 [-0.0458, 0.0014, 0.0080, -0.0362, -0.0451]]], Bias: -0.01254481915384531

```

```

tensor([[[ 1.1100e-02, 5.6635e-02, 2.0847e-02, -7.6857e-02, -6.9772e-02],
 [ 3.5159e-02, 2.4266e-02, 3.0609e-02, -5.2984e-02, -5.0174e-04],
 [-4.5361e-02, 4.4815e-02, 1.7618e-02, -9.2382e-04, 8.9101e-03],
 [-6.0234e-03, -1.0171e-02, -4.2101e-02, 3.0426e-02, 2.9684e-02],
 [ 1.2090e-02, -1.9611e-02, -4.8969e-02, -9.1821e-03, 4.8852e-03]],

 [[-5.2987e-02, -2.8913e-02, 4.0768e-03, 8.4525e-03, 2.7278e-02],
 [ 2.7787e-02, 2.4082e-02, -2.1727e-02, 2.0962e-02, 3.6003e-03],
 [ 3.9110e-02, 7.2762e-03, -4.2637e-02, -3.4288e-02, -1.5037e-02],
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 [ 3.1335e-03, -3.8886e-02, 2.0582e-03, 1.4850e-02, 5.2821e-02]],

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044983

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395687

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 [-1.5126e-02, 2.1354e-02, -2.4824e-02, -2.9031e-02, 4.9942e-02],
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[[ 1.3553e-02, 1.9833e-02, 2.7711e-02, 4.3268e-02, -1.9589e-02],
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84755

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 [[-0.0388,  0.0022,  0.0104,  0.0155, -0.0695],
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1151924

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36484

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[[-0.0473, 0.0295, -0.0049, -0.0623, -0.0130],

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079025

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19156718

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6546268

```
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[[ 4.1865e-03, -7.6041e-03, -6.2763e-02, -8.0148e-02, -2.5716e-02],
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 [-6.7606e-02, -4.0743e-03, -4.4381e-03, -4.4872e-02, 2.9590e-02]],

[[ 7.2245e-03, 2.4743e-02, -9.3104e-03, -2.7267e-02, 3.9502e-02],
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217316

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[-0.0469,  0.0170,  0.0224, -0.0043,  0.0503]],

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[[-0.0630,  0.0010,  0.0064,  0.0031, -0.0142],
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[-0.0491, 0.0425, -0.0034, -0.0653, -0.0546],
[-0.0903, -0.0536, 0.0032, -0.0029, -0.0284]],

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```

```

[[-0.0527, -0.0435, -0.0011, -0.0840, 0.0541],
[ 0.0244, -0.0146, 0.0238, 0.0405, 0.0051],
[ 0.0354, 0.0350, -0.0545, 0.0095, 0.0206],
[-0.0385, -0.0103, 0.0192, -0.0283, 0.0435],
[-0.0050, -0.0696, -0.0053, -0.0171, 0.0310]],

```

```

[[-0.0313, 0.0170, -0.0697, -0.0831, -0.0405],
[ 0.0342, 0.0146, 0.0115, 0.0547, 0.0494],
[ 0.0172, 0.0285, 0.0285, 0.0451, -0.0285],
[-0.0361, -0.0025, 0.0541, 0.0343, -0.0228],
[ 0.0093, -0.0871, -0.0197, 0.0143, -0.0639]],

```

```

[[-0.0343, 0.0619, 0.0505, 0.0291, 0.0321],
[ 0.0111, -0.0508, -0.0643, 0.0495, 0.0628],
[-0.0342, -0.0099, 0.0497, 0.0695, 0.0119],
[-0.0308, 0.0397, -0.0134, 0.0624, -0.0038],
[ 0.0444, -0.0532, 0.0087, 0.0606, 0.0298]],

```

```

[[-0.0275, -0.0017, 0.0126, -0.0028, 0.0388],
[-0.0371, 0.0799, 0.0242, -0.0662, 0.0180],
[ 0.0356, 0.0164, -0.0255, -0.0330, 0.0382],
[ 0.0241, -0.0380, 0.0007, 0.0684, -0.0289],
[ 0.0198, -0.0022, -0.0464, -0.0200, 0.0078]],

```

```

[[ 0.0227, 0.0338, 0.0383, 0.0732, 0.0491],
[ 0.0308, -0.0708, 0.0403, -0.0394, 0.0142],
[ 0.0192, 0.0192, -0.0267, 0.0198, -0.0391],
[-0.0313, -0.0270, -0.0150, -0.0108, 0.0221],
[-0.0148, 0.0324, -0.0284, 0.0552, -0.0458]],

```

```

[[ 0.0057, -0.0706, -0.0183, -0.1540, -0.0043],

```

```
[[ 0.0007, 0.0700, 0.0100, 0.1040, 0.0020],
 [ 0.0412, -0.0957, 0.0238, 0.0410, 0.0692],
 [-0.0254, -0.0219, -0.0048, -0.0193, -0.0401],
 [ 0.0073, -0.0348, -0.0194, 0.0151, -0.0141],
 [-0.0155, -0.0189, 0.0027, 0.0332, -0.0237]],

[[ 0.0366, 0.0027, -0.0519, -0.0428, 0.0147],
 [-0.0400, -0.1000, -0.1440, -0.1087, -0.0402],
 [ 0.0098, 0.0462, -0.0208, -0.0155, 0.0160],
 [ 0.0050, -0.0433, 0.0314, -0.0216, 0.0326],
 [-0.0403, 0.0498, 0.0421, -0.0284, -0.0011]],

[[ 0.0171, -0.0053, -0.0409, -0.0874, 0.0280],
 [ 0.0140, 0.0187, -0.0140, -0.0415, 0.0782],
 [ 0.0124, 0.0104, 0.0144, -0.0390, -0.0002],
 [-0.0272, -0.0233, 0.0201, 0.0389, -0.0385],
 [-0.0173, -0.0272, 0.0656, -0.0455, -0.0149]],

[[ 0.0239, 0.0575, -0.0899, -0.0754, -0.0328],
 [ 0.0240, -0.0104, 0.0043, 0.0366, -0.0146],
 [ 0.0078, -0.0577, 0.0262, 0.0388, -0.0331],
 [ 0.0370, 0.0378, -0.0340, -0.0175, -0.0445],
 [ 0.0115, -0.0106, 0.0355, -0.0279, -0.0437]],

[[ 0.0156, 0.0091, 0.0355, 0.0063, -0.0381],
 [-0.0473, -0.0371, 0.0100, 0.0148, -0.0207],
 [ 0.0183, 0.0160, 0.0175, 0.0020, 0.0232],
 [-0.0324, 0.0192, -0.0465, -0.0193, -0.0288],
 [ 0.0096, -0.0260, 0.0266, -0.0077, 0.0339]],

[[-0.0214, 0.0251, -0.0684, -0.0924, 0.0070],
 [-0.0005, 0.0656, -0.1376, -0.0035, 0.0415],
 [-0.0038, 0.0732, -0.0187, 0.0833, 0.0568],
 [ 0.0350, -0.0468, 0.0382, -0.0180, 0.0534],
 [-0.0072, -0.0271, 0.1004, -0.0626, -0.0092]],

[[ 0.0342, -0.0481, -0.1223, -0.0727, 0.0431],
 [ 0.0233, -0.0650, -0.1887, 0.0271, -0.0198],
 [ 0.0378, -0.0233, 0.0166, 0.0897, 0.0394],
 [-0.0536, -0.0020, 0.0655, 0.0007, 0.0579],
 [ 0.0495, 0.0946, -0.0058, -0.0362, -0.0198]],

[[ 0.0117, -0.0377, 0.0154, 0.0126, -0.0138],
 [ 0.0244, -0.0264, 0.0274, 0.0019, 0.0135],
 [-0.0005, -0.0148, -0.0403, 0.0309, 0.0095],
 [-0.0516, 0.0456, -0.0275, 0.0061, -0.0198],
 [-0.0118, 0.0537, 0.0427, -0.0146, -0.0429]]], Bias: -0.02262868359684944
```

```
tensor([[[[-0.0240, 0.0098, -0.0353, 0.0228, -0.0249],
 [-0.0384, -0.0186, -0.0153, 0.0232, 0.0479],
 [-0.0260, -0.0151, 0.0188, 0.0042, -0.0107],
 [-0.0302, -0.0108, -0.0469, -0.0173, -0.0141],
 [ 0.0369, 0.0037, -0.0382, -0.0127, 0.0390]],

[[ 0.0109, 0.0342, -0.0182, 0.0446, -0.0205],
 [ 0.0100, -0.0229, 0.0339, -0.0485, -0.0260],
 [ 0.0104, -0.0174, 0.0192, 0.0040, -0.0061],
 [-0.0065, -0.0103, 0.0308, 0.0450, -0.0183],
 [ 0.0209, -0.0238, -0.0409, -0.0175, 0.0078]],

[[ 0.0518, 0.0369, -0.0266, -0.0505, -0.0193],
 [ 0.0448, 0.0087, -0.0214, -0.0197, 0.0177],
 [-0.0290, -0.0473, -0.0237, -0.0418, -0.0238],
 [ 0.0355, -0.0318, 0.0342, 0.0203, 0.0347],
 [ 0.0098, 0.0035, -0.0223, 0.0294, 0.0198]],

[[ 0.0161, -0.0277, 0.0234, 0.0170, -0.0251],
 [ 0.0388, 0.0351, -0.0449, -0.0122, 0.0463],
 [ 0.0474, -0.0075, 0.0455, -0.0280, 0.0224],
 [ 0.0004, 0.0188, 0.0282, 0.0052, 0.0098],
 [-0.0205, 0.0285, 0.0007, 0.0281, -0.0230]],

[[ -0.0087, 0.0041, 0.0072, 0.0218, 0.0110],
 [-0.0345, 0.0428, 0.0133, -0.0174, 0.0025],
 [-0.0358, 0.0202, 0.0385, 0.0194, -0.0053],
 [ 0.0225, 0.0022, -0.0320, -0.0060, -0.0218],
 [ 0.0277, -0.0044, -0.0030, -0.0352, -0.0051]]],
```

```

[[-0.0096, -0.0086, 0.0003, -0.0334, -0.0307],
 [ 0.0371, -0.0236, 0.0445, -0.0468, 0.0332],
 [-0.0409, 0.0284, 0.0440, -0.0085, -0.0177],
 [-0.0246, 0.0462, -0.0451, -0.0278, 0.0018],
 [ 0.0080, 0.0251, -0.0071, 0.0383, -0.0446]],

[[-0.0449, -0.0444, -0.0478, 0.0088, 0.0009],
 [-0.0128, -0.0426, -0.0063, -0.0312, -0.0471],
 [ 0.0216, 0.0359, 0.0343, -0.0142, -0.0135],
 [ 0.0112, 0.0158, 0.0017, -0.0177, 0.0316],
 [ 0.0130, 0.0192, 0.0190, 0.0240, 0.0307]],

[[-0.0411, -0.0122, 0.0207, 0.0293, 0.0327],
 [-0.0243, -0.0310, -0.0353, -0.0089, -0.0424],
 [-0.0317, 0.0391, -0.0291, -0.0335, 0.0123],
 [-0.0074, 0.0370, 0.0421, -0.0207, 0.0359],
 [-0.0011, -0.0411, -0.0149, -0.0217, -0.0267]],

[[-0.0467, 0.0050, -0.0196, 0.0209, -0.0152],
 [-0.0025, -0.0003, 0.0307, 0.0137, -0.0079],
 [ 0.0089, 0.0254, -0.0061, -0.0071, 0.0032],
 [ 0.0210, -0.0133, 0.0452, -0.0494, 0.0317],
 [-0.0384, -0.0158, 0.0231, 0.0060, -0.0243]],

[[-0.0387, -0.0089, 0.0197, 0.0345, -0.0355],
 [-0.0105, 0.0449, 0.0304, 0.0452, 0.0424],
 [-0.0112, 0.0418, 0.0321, 0.0068, -0.0433],
 [-0.0196, -0.0237, -0.0054, -0.0308, 0.0059],
 [-0.0080, -0.0172, -0.0356, 0.0170, -0.0293]],

[[ 0.0378, -0.0428, -0.0460, 0.0355, -0.0291],
 [-0.0147, -0.0363, 0.0109, 0.0063, 0.0428],
 [-0.0259, -0.0212, -0.0256, -0.0217, 0.0417],
 [ 0.0500, -0.0345, 0.0240, -0.0492, -0.0439],
 [-0.0191, 0.0129, -0.0076, -0.0206, 0.0348]],

[[ 0.0051, -0.0050, 0.0076, -0.0337, -0.0499],
 [-0.0477, -0.0424, -0.0233, -0.0062, -0.0043],
 [-0.0339, 0.0376, -0.0093, 0.0502, -0.0468],
 [ 0.0233, -0.0310, 0.0377, 0.0383, 0.0348],
 [-0.0353, -0.0060, -0.0377, -0.0215, -0.0153]],

[[ 0.0286, 0.0401, -0.0153, 0.0073, -0.0294],
 [ 0.0059, 0.0056, 0.0492, -0.0220, -0.0406],
 [-0.0097, -0.0468, -0.0300, -0.0346, -0.0462],
 [ 0.0168, -0.0111, -0.0285, 0.0346, 0.0306],
 [ 0.0253, 0.0157, -0.0073, 0.0077, -0.0124]],

[[ 0.0204, -0.0211, -0.0439, -0.0171, 0.0345],
 [-0.0116, 0.0533, -0.0339, 0.0040, 0.0124],
 [ 0.0399, 0.0441, 0.0031, 0.0320, 0.0384],
 [-0.0261, -0.0473, 0.0275, -0.0224, 0.0347],
 [-0.0317, -0.0216, 0.0111, -0.0413, 0.0325]],

[[ 0.0207, 0.0134, 0.0308, -0.0048, -0.0492],
 [ 0.0141, 0.0033, -0.0322, 0.0425, -0.0201],
 [ 0.0022, 0.0322, -0.0316, -0.0322, 0.0220],
 [ 0.0274, -0.0384, -0.0397, -0.0220, -0.0404],
 [-0.0434, -0.0461, 0.0019, 0.0150, 0.0038]],

[[ 0.0014, -0.0263, 0.0256, -0.0171, 0.0388],
 [ 0.0436, -0.0168, 0.0377, 0.0334, -0.0044],
 [ 0.0061, -0.0122, 0.0450, 0.0080, -0.0130],
 [ 0.0464, 0.0439, 0.0150, -0.0187, 0.0029],
 [-0.0301, 0.0220, 0.0138, 0.0093, 0.0310]]], Bias: -0.04374094307422638

```

```

tensor([[[ 0.0030, -0.0135, 0.0161, 0.0225, -0.0323],
 [-0.0261, -0.0118, -0.0235, 0.0481, -0.0601],
 [-0.0094, 0.0509, 0.0008, -0.0186, 0.0159],
 [-0.0384, 0.0219, 0.0194, -0.0515, 0.0570],
 [ 0.0090, -0.0332, 0.0087, 0.0326, 0.0494]],

 [[-0.0294, -0.0260, 0.0468, -0.0180, -0.0249],
 [ 0.0436, 0.0205, 0.0121, -0.0488, -0.0795],
 [ 0.0077, 0.0818, 0.0286, -0.0944, -0.0394],
 [-0.0068, 0.0252, 0.0408, 0.0874, -0.0180],
 [ 0.0275, 0.0441, 0.0086, 0.0288, 0.0100]]])

```

```
[ 0.0273, -0.0041, -0.0088, 0.0299, 0.0100]],

[[-0.0440, 0.0912, 0.0447, -0.0350, 0.0140],
 [-0.0173, -0.0053, 0.0404, -0.0170, -0.0471],
 [-0.0368, 0.0494, -0.0221, -0.0787, -0.0678],
 [ 0.0507, 0.0703, -0.0036, -0.0514, 0.0241],
 [ 0.0105, -0.0299, -0.0474, 0.0613, 0.0265]],

[[ 0.0116, 0.0382, 0.0028, -0.0234, -0.0687],
 [ 0.0201, 0.0620, 0.0210, -0.0194, 0.0053],
 [-0.0035, 0.0647, 0.0364, -0.0092, 0.0006],
 [-0.0240, -0.0409, -0.0146, 0.0105, 0.0028],
 [-0.0300, -0.0439, -0.0213, -0.0446, -0.0134]],

[[ 0.0220, 0.0051, -0.0165, -0.0124, -0.0135],
 [-0.0511, 0.0393, 0.0101, -0.0028, 0.0098],
 [-0.0448, -0.0274, 0.0296, -0.0253, -0.0685],
 [ 0.0495, 0.0456, 0.0020, -0.0032, 0.0365],
 [ 0.0147, 0.0295, -0.0131, 0.0037, 0.0560]],

[[ 0.0322, -0.0348, -0.0146, 0.0919, 0.0224],
 [-0.0038, -0.0359, 0.0251, -0.0094, 0.0219],
 [ 0.0420, 0.0320, 0.0548, 0.0414, 0.0297],
 [ 0.0535, -0.0167, 0.0234, 0.0457, -0.0031],
 [ 0.0271, -0.0362, -0.0033, -0.0031, -0.0179]],

[[-0.0027, 0.0419, 0.0100, 0.0651, 0.0245],
 [ 0.0042, 0.0209, 0.0098, 0.0305, 0.0065],
 [-0.0010, -0.0417, 0.0147, 0.0242, -0.0430],
 [ 0.0194, 0.0349, 0.0709, 0.0377, 0.0499],
 [-0.0300, -0.0417, -0.0219, -0.0658, -0.0084]],

[[-0.0344, -0.0320, 0.0076, 0.0509, 0.0202],
 [ 0.0117, -0.0007, -0.0452, 0.0433, 0.0014],
 [ 0.0110, -0.0149, -0.0348, 0.0237, 0.0264],
 [-0.0345, -0.0232, -0.0052, -0.0300, 0.0256],
 [-0.0623, 0.0104, 0.0264, 0.0118, 0.0435]],

[[-0.0404, 0.0184, 0.0054, 0.0150, -0.0199],
 [ 0.0182, -0.0199, -0.0091, -0.0113, -0.0805],
 [-0.0306, -0.0262, 0.0592, 0.0377, 0.0117],
 [-0.0483, -0.0584, 0.0409, -0.0181, 0.0595],
 [ 0.0449, 0.0330, -0.0517, -0.0509, -0.0219]],

[[ 0.0377, 0.0566, -0.0153, -0.0728, -0.0271],
 [ 0.0407, -0.0458, -0.0918, -0.0542, -0.0830],
 [-0.0124, -0.0005, 0.0262, -0.0280, 0.0393],
 [-0.0260, 0.0183, 0.0268, -0.0258, -0.0102],
 [-0.0087, -0.0514, -0.0029, 0.0203, 0.0743]],

[[ 0.0163, -0.0086, 0.0669, -0.0136, -0.0328],
 [-0.0326, 0.0101, -0.0118, -0.0107, -0.0053],
 [-0.0335, 0.0060, -0.0316, 0.0041, -0.0125],
 [ 0.0085, 0.0516, 0.0389, -0.0343, 0.0418],
 [ 0.0257, -0.0228, -0.0587, -0.0316, 0.0434]],

[[ 0.0068, 0.0066, -0.0220, 0.0276, 0.0416],
 [-0.0167, 0.0380, 0.0331, 0.0220, 0.0177],
 [ 0.0298, 0.0038, 0.0651, -0.0200, -0.0456],
 [-0.0072, 0.0343, -0.0376, 0.0069, -0.0181],
 [ 0.0365, -0.0092, -0.0518, -0.0335, 0.0029]],

[[-0.0415, 0.0223, -0.0521, 0.0048, -0.0238],
 [-0.0108, 0.0240, -0.0007, -0.0172, -0.0322],
 [ 0.0072, -0.0185, 0.0315, 0.0180, -0.0158],
 [-0.0308, 0.0309, -0.0371, -0.0588, 0.0317],
 [ 0.0015, 0.0163, 0.0162, 0.0150, -0.0227]],

[[ 0.0287, 0.0329, -0.0437, -0.0291, 0.0150],
 [ 0.0224, -0.0441, 0.0654, 0.0213, 0.0134],
 [-0.0182, 0.0312, 0.0219, 0.0629, -0.0436],
 [ 0.0242, -0.0495, 0.0854, -0.0772, -0.0308],
 [ 0.0461, 0.0101, 0.0492, -0.0208, 0.0615]],

[[ 0.0394, -0.0120, -0.0028, -0.0862, -0.0474],
 [ 0.0076, -0.0438, -0.0267, -0.1141, -0.0874],
 [-0.0083, 0.0447, 0.0067, 0.0523, -0.0185],
 [ 0.0011, 0.0400, 0.0252, 0.0450, 0.0027]
```

```
[-0.0211, 0.0429, 0.0353, 0.0458, 0.0037],  
[-0.0349, 0.0268, -0.0288, 0.0121, 0.0701]],
```

```
[[ 0.0292, 0.0339, 0.0310, -0.0376, -0.0153],  
[ 0.0074, -0.0330, -0.0002, 0.0267, -0.0448],  
[-0.0123, 0.0472, -0.0028, 0.0034, -0.0607],  
[ 0.0177, 0.0135, -0.0017, -0.0243, 0.0337],  
[-0.0043, 0.0367, -0.0240, 0.0303, 0.0471]]]), Bias: 0.01137086097151041
```

```
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[-3.8082e-03, -1.8225e-02, -3.1812e-02, 2.0497e-02, 2.1893e-03],  
[ 3.9036e-02, -1.8879e-02, -7.7040e-03, 8.0920e-02, -1.8316e-03],  
[-5.9613e-02, -3.1996e-02, 4.7054e-02, -5.0279e-02, -2.2693e-02],  
[-3.5291e-02, 2.8823e-02, 4.1884e-02, -4.0867e-02, -4.2988e-02]],  
  
[[ -6.4506e-03, -4.9656e-02, -3.8124e-02, -1.0988e-02, -2.2470e-02],  
[ 7.3835e-02, -1.0160e-02, -2.4599e-02, 8.5275e-02, -3.4650e-03],  
[ 3.9920e-02, -8.3903e-02, 3.2820e-02, 1.0987e-01, -5.8123e-02],  
[ 9.5290e-03, 5.5914e-03, -1.3794e-02, 1.3603e-02, 5.3343e-02],  
[-5.3339e-02, -3.2525e-02, 5.2407e-02, -7.9322e-02, -2.1891e-02]],  
  
[[ 8.2255e-02, -2.9870e-02, -1.0502e-02, 6.0947e-03, -3.2205e-02],  
[ 1.0628e-01, -1.2034e-01, 9.8139e-02, 5.1507e-02, 4.4466e-02],  
[ 1.3292e-01, -1.0637e-01, 3.1740e-03, -3.8978e-03, -1.3317e-03],  
[-4.7952e-02, -1.7904e-02, 8.8920e-02, -9.4933e-03, -2.6589e-02],  
[-1.7597e-03, 1.4154e-02, 6.8659e-02, -7.2844e-02, -8.1352e-02]],  
  
[[ 1.8394e-02, 5.4331e-02, -6.2535e-02, 7.8487e-03, -2.6679e-02],  
[ 4.6451e-02, 2.7045e-02, 3.6809e-02, -4.3341e-03, 1.2681e-02],  
[ 2.8156e-02, 1.4837e-03, -7.3154e-02, -1.2146e-02, 2.4261e-02],  
[ 1.1963e-02, -8.3790e-03, -2.1497e-02, 2.3484e-02, 7.8367e-03],  
[ 4.1275e-02, -4.7977e-02, -6.7458e-02, -1.0506e-02, 2.2144e-02]],  
  
[[ 8.4574e-02, 2.4852e-03, -6.4354e-02, 1.8913e-03, 7.3403e-03],  
[ 7.1216e-02, 1.1312e-01, -3.9283e-02, 7.2991e-02, 3.0792e-02],  
[ 5.7412e-03, -2.7204e-02, -6.9403e-02, 8.4927e-03, -5.2844e-03],  
[-7.4772e-02, -9.3726e-02, 7.4841e-02, -1.5416e-02, 8.1508e-03],  
[ 7.9017e-03, 7.1085e-03, 1.4579e-02, 2.7761e-02, -8.4284e-03]],  
  
[[ 4.3399e-03, -3.0798e-04, 4.4958e-03, 4.0536e-03, -5.4054e-03],  
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135635

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882294

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743229

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[[-4.8471e-03, -7.3475e-02, -8.8916e-03, -2.0789e-02, -5.4161e-03],
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779297

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[[ 0.0071, -0.0073, -0.0504, -0.0665, 0.0477],
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 [[ 5.4696e-02, -5.6975e-02, 2.2283e-02, 4.7325e-02, -7.2908e-03],
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910423

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865145

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[[-3.4291e-02,  2.5947e-02, -3.3296e-02,  3.0546e-02, -4.5561e-02],
[ 1.3972e-02, -6.1544e-03,  2.0418e-02,  2.4667e-02, -2.1636e-03],
[-3.1734e-02,  2.0379e-02,  3.8315e-02, -4.4502e-02,  1.6179e-02],
[-2.6300e-02,  4.9407e-02, -3.5297e-02,  4.4746e-02, -2.1250e-02],
[-3.0955e-02, -2.0196e-02, -3.4091e-02,  8.1836e-03,  4.4698e-02]],

[[-5.4841e-03, -7.9762e-04, -2.1501e-02,  4.1827e-02,  1.4575e-02],
[-2.5329e-02, -4.4879e-02, -3.9033e-02, -6.1567e-03,  3.2992e-02],
[ 3.2736e-02, -1.7437e-02,  1.9176e-02, -4.6863e-02, -3.5772e-02],
[-6.2769e-03, -2.5734e-02,  3.3322e-02, -4.1694e-02, -2.7134e-02],
[ 4.0802e-02,  3.7985e-02, -3.5353e-02, -5.8874e-03, -5.3092e-03]],

[[-2.3973e-02,  2.1255e-02, -3.0599e-02, -4.0651e-02,  3.3749e-02],
[-4.2304e-02,  1.1857e-02,  4.1531e-02, -1.8848e-02, -5.2562e-02],
[ 1.9347e-03, -4.5688e-03,  4.0765e-02,  3.0542e-02,  1.0614e-02],
[-4.7256e-02, -3.6722e-02, -4.7888e-02,  3.9136e-02, -3.8313e-02],
[-4.8762e-02,  4.2705e-02,  4.5471e-03,  3.2539e-02,  2.7328e-02]],

[[-4.4957e-02,  1.5957e-02,  2.2473e-02, -9.8734e-03, -2.7133e-02],
[-4.1965e-02,  2.0815e-02, -3.9559e-02, -4.4582e-02, -2.4735e-02],
[-4.0252e-02, -2.0872e-02, -4.8885e-03, -2.9149e-02, -5.0041e-02],
[-3.6371e-04,  3.0821e-02,  7.5017e-03,  4.4256e-02, -1.0083e-02],
[-3.1262e-02, -1.1883e-03,  2.8141e-03, -3.1129e-02,  1.6458e-03]]], Bias: 0.004647311288
```

8634205

FC1 Outputs

In [61]:

```
output = model.fc1.forward(torch.flatten(
    model.conv3.forward(
        model.pool2.forward(
            model.conv2.forward(
                model.pool1.forward(
                    model.conv1.forward(input_img))))), start_dim=1))[0].detach().numpy()

print(output)
```

```
[ 17.052557   -7.235403   -3.6454833    2.3655057   18.160534
   5.107145    8.610383   -0.6661482    9.172992   -5.848117
   2.7296278   20.40245   -9.28049    9.339558   13.761778
   3.8329084   -4.3581643    5.477696    0.15404093    9.3164625
  13.526836   14.346575   -3.9229755   11.003507    9.0602865
 -13.932806    6.7081037    3.8567045   -4.1894355   -5.949504
 -2.5642912    0.39991692    6.6550145  -13.364462   -3.2279844]
```

```

-2.3942912      0.39991092      0.0930149      -13.394402      -3.2279044
 8.049945      -7.722157      9.204617      -20.90334      -6.579002
-1.9639748      -3.9345443      11.661445      1.3674448      -3.0023632
-5.89906      6.9045625      4.4984126      -17.89018      11.466324
17.616102      4.260994      7.4242053      1.0693616      -5.722455
-2.220241      -1.873821      -1.7719783      2.884684      -1.0229753
-15.74398      1.6553037      21.571533      -4.4592004      25.772303
 4.587804      12.146106      12.4637165      2.4061997      16.633615
 8.829457      4.1301003      11.76523      6.044397      16.766531
 3.7532063      -0.31100765      -5.99403      -2.8386545      10.010695
-9.93585      -11.789448      4.568826      -0.7245721 ]

```

FC1 Weights

In [71]:

```

for i in range(84):
    print("{}, Bias: {}".format(param[6][i].data, param[7][i]))

```

```

tensor([[-0.0462,  0.0337, -0.0027, -0.0442,  0.0160,  0.0376, -0.0812, -0.0858,
          0.0147, -0.0721,  0.0610,  0.0065, -0.0402,  0.0733, -0.0142, -0.0468,
          0.0746, -0.0634,  0.0004,  0.0694, -0.0013, -0.0774,  0.1980,  0.0619,
         -0.0387,  0.0180, -0.0716, -0.0145,  0.0098, -0.0368,  0.0990,  0.0093,
          0.0217, -0.1558, -0.0416,  0.0002,  0.1141, -0.0091, -0.0387,  0.0397,
         -0.0284, -0.0650,  0.0368, -0.0087, -0.0159,  0.0796, -0.0707, -0.1152,
          0.0546,  0.1128, -0.0649,  0.0574, -0.0287, -0.0402,  0.0513,  0.0604,
         -0.0599, -0.0455, -0.0705, -0.1111,  0.0042,  0.0238, -0.0683, -0.0485,
          0.0098,  0.0948,  0.0643, -0.1031,  0.0070,  0.0693,  0.0772,  0.0251,
          0.0379,  0.0680,  0.0163, -0.0510, -0.0161,  0.0409,  0.0096,  0.0548,
         -0.0417, -0.0967, -0.1298, -0.0688,  0.0148, -0.0370, -0.0037, -0.0112,
          0.0774, -0.0550, -0.0820,  0.0692,  0.0793, -0.0971, -0.0638,  0.0888,
          0.0723, -0.0357, -0.0622,  0.0649,  0.1458,  0.0772, -0.0590, -0.0150,
          0.0356,  0.0829,  0.0084, -0.1179, -0.0863, -0.0958,  0.0989, -0.0213,
         -0.0681,  0.0592, -0.0196,  0.0564,  0.0678, -0.0421, -0.0593, -0.0396]), Bias:
0.012851024977862835

```

```

tensor([ 0.1143,  0.0612,  0.1344,  0.0005,  0.0301,  0.0027,  0.0811,  0.0414,
        -0.0560,  0.0021,  0.0540,  0.0642, -0.0691,  0.0257,  0.1056, -0.0872,
          0.1038, -0.0659,  0.0100, -0.0429,  0.0811, -0.0304,  0.0746, -0.0541,
          0.0192,  0.0800, -0.0317, -0.0459,  0.0306,  0.1029,  0.1182,  0.0190,
          0.0053, -0.0890, -0.0254,  0.1055, -0.0649,  0.0795, -0.0426,  0.0263,
          0.0275,  0.0017, -0.0977,  0.0874,  0.1048,  0.0180,  0.0107, -0.0195,
          0.0011,  0.1429, -0.0247, -0.0158, -0.0943,  0.0802, -0.0581,  0.0030,
         -0.0390,  0.0668, -0.0952, -0.0004,  0.0847, -0.0795, -0.0499, -0.0077,
          0.0138,  0.0543, -0.0426,  0.0763,  0.0155, -0.0413,  0.0373, -0.0157,
         -0.0561, -0.0788,  0.0015,  0.0427,  0.0290, -0.0424, -0.0961,  0.0097,
          0.0378, -0.0640, -0.1156, -0.0844,  0.0093, -0.0278,  0.1019, -0.1151,
          0.0892,  0.1600, -0.0812, -0.0039, -0.0782, -0.0450,  0.0311, -0.0430,
          0.0919, -0.0797,  0.0052, -0.0748,  0.0772, -0.0120,  0.0495,  0.0589,
         -0.0616,  0.0962, -0.0565,  0.0710,  0.0713,  0.0480, -0.1392,  0.0316,
         -0.1340,  0.0651,  0.0479,  0.0315,  0.0685,  0.0164,  0.1171,  0.0707]), Bias: -0.04207097
738981247

```

```

tensor([[-0.0488,  0.0020, -0.0651, -0.0043,  0.0515,  0.1082,  0.0761, -0.0882,
          0.0676, -0.0251,  0.0578, -0.0696, -0.0022, -0.0304, -0.0648, -0.0437,
         -0.0735, -0.0313, -0.0960, -0.0002, -0.0735, -0.0546, -0.0472,  0.0069,
          0.0602,  0.0841, -0.0693,  0.0562,  0.0179, -0.0120, -0.1231, -0.0846,
          0.0432,  0.0984, -0.0235, -0.0772,  0.0979,  0.1291, -0.0014, -0.0217,
         -0.0484, -0.0048,  0.0207,  0.0085,  0.0881,  0.0784,  0.0743, -0.0102,
          0.0513, -0.0585,  0.0249,  0.0603, -0.0099,  0.0700, -0.0049, -0.0481,
         -0.0980, -0.0702,  0.0829, -0.0337,  0.0341, -0.0149,  0.0357,  0.0971,
          0.0442,  0.0277, -0.0830, -0.0363, -0.0680,  0.0624, -0.0772, -0.0092,
         -0.0433, -0.0582,  0.0442, -0.0896,  0.0326, -0.0243,  0.0257,  0.0225,
          0.0965,  0.0829, -0.0253, -0.0570, -0.0123,  0.0925,  0.0410, -0.0231,
          0.0021,  0.0653, -0.0535, -0.0262,  0.0779, -0.0133,  0.0057,  0.0938,
         -0.0417,  0.0064,  0.0260, -0.0019,  0.0019,  0.0899,  0.0441, -0.0976,
         -0.0025, -0.0073,  0.0882, -0.0326, -0.0346, -0.0310,  0.0931, -0.0210,
          0.0782, -0.0192, -0.0715,  0.0646,  0.0034, -0.0029,  0.0122,  0.0738]), Bias: 0.100352473
55699539

```

```

tensor([ 0.1495,  0.1050,  0.1244,  0.0670,  0.0613, -0.0337,  0.1191,  0.0065,
          0.0273,  0.0626, -0.0765, -0.0323,  0.0249,  0.1523,  0.1362,  0.0821,
          0.0628,  0.1110,  0.0886, -0.0343,  0.0343,  0.0435,  0.1590, -0.1468,
         -0.1016,  0.0652, -0.0385,  0.1080,  0.0434,  0.1673, -0.0318, -0.0137,
          0.0245,  0.0507,  0.0657,  0.0241,  0.0200,  0.0540,  0.0511,  0.0200

```

-0.0345, -0.0591, 0.0051, 0.0841, -0.0300, -0.0549, -0.0511, 0.0089,
0.1107, 0.0323, -0.0992, -0.0110, 0.0220, 0.0319, -0.0145, 0.0212,
-0.1561, 0.0966, 0.0926, -0.0778, 0.0494, 0.0417, -0.0126, -0.0620,
0.0078, 0.0231, 0.1802, -0.0036, -0.1169, -0.0096, -0.0934, -0.0626,
0.0030, 0.0710, 0.0436, -0.0261, 0.0771, -0.0816, 0.0194, 0.0678,
0.0970, -0.0166, -0.0530, 0.1064, 0.0793, -0.0385, -0.1495, 0.1599,
-0.0601, 0.0039, 0.1422, 0.0648, -0.0119, -0.0742, 0.0829, 0.0373,
0.0408, 0.1403, -0.0687, -0.1421, -0.0506, 0.0507, 0.0474, -0.0517,
0.1523, -0.0620, -0.0520, -0.0659, 0.0968, -0.0219, -0.1107, 0.1139,
-0.0101, 0.1069, -0.0645, -0.0370, -0.0478, 0.0240, -0.1131, 0.1176,
-0.0861, 0.0539, 0.1370, 0.0018, 0.0936, -0.0358, 0.0662, -0.0028]], Bias: -0.09034633

63647461

tensor([0.1303, 0.0249, -0.0286, 0.0404, 0.0438, 0.0903, -0.0228, 0.0636,
-0.0387, -0.0483, 0.0812, 0.0029, 0.0345, 0.0154, 0.2018, 0.0021,
-0.0467, 0.0899, -0.0892, 0.0738, 0.0440, 0.0083, 0.1792, -0.1146,
0.0504, 0.0530, -0.0308, 0.0611, -0.0392, 0.0646, 0.1009, 0.0293,
-0.0638, -0.1095, -0.0515, 0.1056, 0.1382, -0.0703, 0.0526, -0.0603,
-0.0165, -0.0116, -0.0761, 0.0138, -0.0079, 0.0763, -0.0118, -0.0870,
-0.0092, -0.0462, -0.0123, -0.1007, 0.0909, 0.0556, -0.0867, 0.0716,
-0.0149, 0.1211, 0.0858, -0.0222, -0.0348, 0.0286, 0.0155, -0.0404,
0.0212, 0.0146, 0.1063, 0.0081, -0.1573, -0.0740, 0.0740, 0.0813,
-0.0175, 0.0368, 0.0910, 0.0253, 0.0622, -0.0570, 0.0460, 0.0630,
-0.1100, -0.0477, -0.0943, -0.0160, 0.0617, -0.1037, -0.0341, 0.0406,
0.0360, 0.0561, 0.0313, -0.0706, -0.0791, -0.0795, 0.0483, 0.0373,
0.0281, -0.0186, -0.0645, 0.0073, 0.0335, 0.0302, -0.0788, -0.0665,
-0.0560, -0.0024, -0.0389, -0.1326, -0.0736, 0.1351, 0.0475, -0.0606,
-0.1450, 0.0702, 0.0750, -0.0108, -0.0273, 0.0181, -0.0368, -0.0826]], Bias:

0.07588954269886017

tensor([0.1282, 0.0343, 0.0201, 0.0453, 0.0094, 0.0223, -0.0416, 0.0077,
0.0087, 0.0266, -0.0995, -0.0959, -0.0712, 0.0336, 0.1091, 0.0561,
-0.0692, 0.0066, 0.0369, 0.0824, 0.0500, 0.0291, -0.0166, -0.0405,
-0.0948, 0.0478, -0.0782, -0.0377, -0.0172, -0.0750, -0.0401, 0.0832,
-0.1677, 0.0398, -0.0013, -0.0145, 0.0017, -0.0171, 0.1424, -0.0512,
-0.0287, 0.0982, -0.0610, 0.0770, -0.0729, -0.0732, 0.1129, -0.0206,
-0.0126, 0.0494, -0.0009, 0.0299, 0.0589, -0.0142, 0.0485, -0.0100,
-0.0061, -0.0532, 0.0133, 0.0511, 0.1075, 0.0332, -0.1065, -0.0985,
-0.0023, 0.0984, -0.0761, 0.0740, 0.1000, -0.1108, -0.0763, 0.0623,
0.0159, -0.0725, -0.0174, 0.1493, 0.1487, 0.0173, -0.0142, -0.0832,
0.0496, -0.0315, 0.0352, -0.0901, 0.0899, 0.1952, -0.0455, 0.1004,
-0.0103, 0.0895, -0.0072, -0.1262, 0.0074, -0.0734, 0.0656, -0.0821,
0.0877, -0.0782, 0.0645, -0.0826, 0.0143, -0.0343, 0.1048, 0.0792,
0.0867, -0.0268, -0.0697, 0.0207, 0.0330, -0.0121, -0.0076, -0.0974,
-0.1452, -0.0677, -0.0036, 0.0457, -0.0624, -0.0596, -0.0193, -0.0632]], Bias:

0.10878816246986389

tensor([0.0591, 0.0513, 0.0616, 0.0447, -0.0017, 0.0521, 0.1249, 0.0886,
-0.0767, -0.0916, -0.0629, 0.0284, -0.0357, 0.0595, 0.1346, -0.0892,
0.1077, 0.0579, -0.0338, -0.0646, -0.0603, 0.0562, 0.0923, 0.0409,
-0.0157, -0.0206, 0.0574, 0.0304, -0.0327, 0.0085, 0.0762, -0.0486,
-0.1829, -0.0317, 0.1280, -0.0351, -0.0927, 0.0854, -0.0444, 0.0766,
-0.0650, 0.1400, -0.0144, -0.0137, -0.0775, -0.1047, 0.0350, -0.1341,
-0.0172, -0.0201, -0.0678, -0.0030, 0.0677, -0.0035, 0.0518, 0.0375,
0.0325, 0.0637, 0.0926, 0.1320, 0.1625, 0.0486, -0.0619, -0.1051,
0.0500, 0.0505, 0.0275, -0.0368, 0.0626, -0.0040, 0.0169, -0.0586,
-0.0079, -0.0268, 0.0649, 0.0741, 0.0909, 0.0359, -0.0027, 0.0591,
0.0715, 0.0800, 0.1069, -0.0757, -0.0093, 0.0655, 0.0588, 0.0473,
-0.0574, 0.1206, 0.0781, 0.0703, 0.0642, 0.0268, -0.0675, -0.0107,
0.1564, 0.0052, 0.0076, -0.1175, 0.0309, 0.1029, -0.0067, 0.0624,
-0.0821, 0.0991, -0.1491, -0.0184, 0.0680, 0.1185, -0.1357, 0.0370,
-0.1902, -0.0340, 0.0517, -0.1125, 0.0787, 0.0372, -0.0166, -0.0862]], Bias: -

0.011150558479130268

tensor([-0.0420, -0.0437, 0.0488, -0.0317, -0.0205, 0.0222, 0.0353, -0.0069,
0.0594, 0.0035, -0.0055, -0.0041, 0.0721, 0.0686, 0.0719, -0.0223,
0.0565, 0.0675, -0.0600, -0.0136, 0.0698, 0.0035, 0.0894, 0.0471,
-0.0511, 0.0158, -0.0492, 0.0114, 0.0767, -0.0795, 0.0492, -0.0715,
0.0457, -0.0384, 0.0763, 0.0859, 0.0061, 0.0069, 0.0500, -0.0200,
0.0421, -0.0823, -0.0758, -0.0617, 0.1098, -0.0037, 0.0784, -0.0299,
-0.1021, -0.0377, 0.0165, -0.0880, 0.0119, 0.0255, 0.0471, 0.0092,
-0.0593, 0.0939, -0.0631, 0.0526, 0.1083, -0.0300, 0.1054, 0.0655,
-0.0659, 0.1089, 0.1008, 0.0199, -0.1231, -0.0796, 0.0724, -0.0068,
0.0578, -0.0166, 0.0648, 0.0375, -0.0774, -0.0734, -0.0902, -0.0419,
0.0864, -0.0596, -0.0852, 0.0186, 0.0393, -0.0591, 0.0633, -0.0245,
0.0475, 0.1061, 0.0360, -0.0096, -0.0543, -0.0091, 0.0228, -0.0616,
0.0861, 0.0678, -0.0092, -0.0022, 0.0140, 0.0034, -0.0304, 0.0753,

0.0178, -0.0025, -0.0275, -0.0323, -0.0394, -0.0337, -0.0016, -0.0105,
-0.1020, 0.1123, -0.0317, -0.0580, -0.0585, 0.0604, 0.0583, 0.0589]], Bias: -0.04055274
277925491

tensor([5.4651e-03, -5.1129e-02, -8.3219e-02, -2.0849e-02, 8.1842e-02,
-2.7589e-02, -6.9142e-03, 5.3227e-02, -1.2983e-01, -3.2781e-02,
-5.6702e-02, 1.4087e-01, -4.8076e-02, 1.0789e-01, -2.3565e-03,
7.2524e-02, -6.1163e-02, 4.0687e-02, -7.8914e-02, 6.2908e-02,
5.3997e-02, 2.4428e-03, -9.5995e-03, 8.3667e-02, -2.3983e-02,
-5.1823e-02, -9.2062e-02, 3.3046e-02, -1.1364e-01, -5.6280e-02,
-4.7768e-02, 7.4558e-02, -5.9427e-02, 1.9108e-01, -1.1339e-02,
1.5849e-02, 1.4544e-01, -5.6419e-02, 8.2511e-02, 2.9414e-02,
5.8330e-02, -8.0676e-03, 1.3381e-01, -7.6197e-02, 1.2376e-04,
1.0691e-01, -1.1659e-01, 3.5207e-02, 1.0524e-01, -9.5518e-02,
4.3443e-02, 5.6143e-02, -6.0193e-02, 5.1661e-02, 1.5993e-01,
6.9655e-02, 1.6261e-02, 1.2469e-02, 4.7325e-03, -1.3672e-02,
-5.7303e-02, 1.4045e-01, 7.1067e-03, 1.3601e-02, -1.3400e-01,
1.0884e-04, 7.6485e-03, -6.0162e-02, 3.3739e-02, 8.6071e-02,
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0.010396870784461498

tensor([-0.0828, -0.0150, 0.0365, -0.0350, -0.0105, 0.0627, 0.0692, -0.0467,
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557678223

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0.04597868025302887

tensor([0.1176, 0.0097, 0.1155, -0.0874, -0.1523, 0.1161, -0.1635, 0.0685,
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936003685

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2615242

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10208893

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06752014

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74

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0.0866, 0.0726, 0.1078, 0.0673, -0.0238, 0.0430, -0.0831, -0.0489,
0.1085, 0.0522, -0.0027, 0.0399, 0.0294, 0.0233, -0.0677, 0.0848]), Bias: -0.05377526
953816414

tensor([0.0429, -0.0353, -0.0109, -0.0331, 0.0132, -0.0221, 0.0625, -0.0521,
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-0.0199, 0.0716, -0.0531, 0.0698, 0.0343, 0.0997, -0.0017, 0.0254,
-0.0218, -0.0656, 0.0418, -0.0029, 0.0689, 0.0142, 0.0332, 0.0446,
0.0493, 0.0102, 0.0890, -0.0981, -0.0812, -0.0868, -0.0894, -0.0796,
-0.0059, 0.0558, 0.0252, 0.0507, -0.0145, -0.0753, 0.0381, 0.0107,

```

-0.0738, 0.0939, 0.0612, 0.0176, 0.0099, -0.0723, -0.1033, -0.0926,
-0.0966, -0.0832, -0.0647, 0.0441, -0.0686, 0.0658, 0.0686, 0.0127,
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0.0666, 0.0099, -0.0645, 0.0285, 0.0774, 0.0752, 0.0637, -0.0263,
0.0804, -0.0538, 0.0152, -0.0642, -0.0184, -0.0147, 0.0477, -0.0849,
-0.0813, 0.0002, -0.0186, 0.0930, -0.0241, -0.0742, 0.0105, 0.0801,
-0.0769, 0.0636, -0.1028, -0.0445, 0.0149, 0.0824, 0.0786, 0.0631,
0.0073, 0.0422, 0.0663, -0.0533, 0.0743, -0.0244, -0.0251, 0.0023,
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0.07000814378261566

tensor([-0.0307, 0.0367, -0.0643, 0.0670, -0.0629, -0.0263, -0.0305, -0.0811,
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0.0634, 0.0838, 0.0220, -0.0320, -0.0472, 0.0344, -0.0002, -0.0863,
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0.0426, -0.0716, 0.0550, -0.0130, -0.0070, 0.0813, 0.0091, 0.0191,
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0.0589, 0.0768, 0.0112, -0.0672, -0.0024, -0.0739, 0.0782, 0.0815,
-0.0012, 0.0859, 0.0510, 0.0299, 0.0216, 0.0361, -0.0536, -0.0411,
0.0725, -0.0556, 0.0125, 0.0313, 0.0195, 0.0325, 0.0749, -0.0038,
-0.0642, -0.0773, -0.0199, 0.0912, -0.0085, -0.0573, 0.0736, -0.0245,
0.0482, 0.0591, -0.0529, -0.0560, 0.0825, 0.0700, -0.0525, 0.0130,
-0.0771, 0.0098, -0.0915, -0.0215, -0.0446, -0.0823, 0.0618, 0.0586,
0.0430, 0.0250, -0.0339, -0.0415, 0.0452, -0.0317, 0.0486, -0.0781,
-0.0043, -0.0068, -0.0452, -0.0322, -0.0696, 0.0684, -0.0506, 0.0287]), Bias: -
0.01958654075860977

tensor([ 0.0790, 0.1013, 0.0745, -0.0812, -0.1102, 0.0680, -0.0109, -0.0141,
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0.0277, 0.0995, -0.1638, 0.0586, 0.0447, 0.0392, 0.1330, -0.1273,
-0.0696, 0.0746, -0.0885, 0.0322, -0.0036, -0.0012, 0.0030, -0.0042,
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0.0904, -0.0071, 0.0909, -0.1409, -0.0716, 0.0027, 0.0552, -0.1232,
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174695969

tensor([-0.0658, 0.0045, -0.0061, -0.0213, -0.0298, -0.0319, 0.0253, -0.0657,
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-0.0639, -0.0357, 0.0825, -0.0569, 0.0701, -0.0636, 0.0034, -0.0256,
-0.0780, -0.0329, -0.0289, -0.0037, 0.0613, 0.0558, -0.0714, 0.0629,
0.0075, -0.0400, -0.0497, 0.0704, -0.0232, 0.0050, -0.0718, -0.0093,
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0.0633, -0.0599, 0.0687, -0.0544, 0.0365, -0.0111, -0.0702, -0.0552,
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0.0443, 0.0017, 0.0797, -0.0824, -0.0400, -0.0369, 0.0660, -0.0848,
0.0827, -0.0114, 0.0758, -0.0283, -0.0780, -0.0866, -0.0076, -0.0683,
-0.0063, -0.0677, -0.0821, 0.0264, 0.0378, 0.0166, 0.0295, -0.0304,
0.0225, 0.0686, 0.0463, 0.0346, -0.0116, 0.0317, -0.0553, -0.0763,
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470094681

tensor([-1.4276e-02, -9.4616e-03, 2.2345e-02, 1.6042e-02, 6.8439e-02,
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8.2651e-02, -1.4841e-01, 1.8434e-02, 8.4204e-02, 4.9427e-02,
1.1909e-01, -6.2571e-02, 1.2698e-02, 4.3792e-02, 2.5786e-02,
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6.9872e-02, 6.5679e-02, 5.7525e-02, -1.6039e-01, 7.8661e-02,
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-4.1440e-02, -1.1402e-01, -4.8866e-02, 1.4096e-01, -7.0733e-02,
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1.3158e-01, 7.8357e-05, 9.4849e-02, 4.2351e-03, 1.3007e-01,
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```

```
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1.1067e-02, 1.0039e-01, 9.7713e-02, -1.0701e-02, -6.9099e-02,  
-3.6343e-02, 3.6977e-02, 4.0221e-02, -7.8431e-03, -8.1477e-02,  
1.6008e-03, 5.1479e-02, -7.0858e-02, 3.7715e-02, 9.3990e-02,  
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-3.8443e-02, 6.9290e-02, 1.7328e-03, -1.6039e-02, -6.5729e-02,  
-7.9583e-02, -1.3667e-01, 5.0747e-02, -1.0847e-01, 1.1685e-01,  
-1.0757e-02, -2.4708e-01, 1.1220e-01, 1.0399e-01, 2.9646e-02]], Bias: -0.013527973555028
```

439

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0.0220, 0.0850, 0.0428, -0.0250, -0.0319, -0.0054, -0.0189, -0.0691,  
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0.0336, 0.0965, 0.0344, -0.0380, 0.0466, 0.0006, 0.0432, 0.1132,  
0.1028, 0.0810, -0.0140, -0.0604, 0.0364, -0.0636, -0.0305, -0.0313,  
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0.0184, -0.0847, -0.0444, 0.0019, 0.0188, 0.0438, -0.0542, 0.0266,  
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0.0045, 0.0501, 0.0896, -0.0922, 0.0406, 0.0685, 0.0485, -0.0243]), Bias: -0.06448799  
37171936
```

```
tensor([-0.0482, -0.0383, 0.0373, -0.0507, 0.0587, -0.0173, 0.1041, -0.0076,  
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-0.1130, 0.0312, -0.0658, 0.1295, -0.0822, 0.0275, 0.0927, 0.0947,  
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0.0946, 0.1707, -0.0277, -0.0791, 0.0726, 0.0578, 0.0971, -0.1368,  
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-0.0798, -0.0496, -0.1589, 0.0321, -0.0779, -0.0431, -0.1514, 0.0936,  
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0.11670535802841187
```

```
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1.6735e-02, 1.3075e-01, -8.3999e-02, 1.6375e-01, -6.5542e-02,  
-9.5048e-02, -8.8514e-02, -1.8510e-02, -7.8380e-03, -2.7681e-02,  
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1.5116e-02, 8.7564e-02, 1.7087e-02, 5.9963e-02, 1.7393e-02,  
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5.3425e-02, -5.1935e-02, 8.8369e-02, -1.6501e-01, 1.9461e-01,  
3.7229e-02, -8.0093e-02, -3.7190e-03, -2.8758e-05, 5.2160e-02,  
1.0278e-01, 6.4375e-02, 4.4947e-02, 1.2995e-02, -2.1225e-02,  
1.2120e-01, 2.5681e-02, -4.3417e-02, 2.1441e-02, 3.0505e-02,  
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0.07653781026601791
```

```
tensor([ 0.0424, 0.0199, -0.0998, -0.0289, -0.0356, -0.0118, -0.0325, -0.0689,  
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0.0660, -0.0994, 0.1752, 0.0534, -0.1118, 0.0599, -0.0043, 0.0464,  
0.1012, -0.0533, 0.0499, 0.0328, 0.0329, 0.0395, 0.0006, -0.0082,  
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0.0181, -0.0373, -0.0134, -0.0702, 0.0603, 0.0425, -0.0175, 0.0105.
```

```
0.1087, 0.0542, 0.1280, -0.0425, 0.0628, 0.0281, -0.0969, -0.0821,
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-0.0201, 0.1042, -0.0561, 0.0385, -0.0424, -0.0647, -0.0669, 0.0074,
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0.0412, 0.1071, 0.0523, 0.1207, 0.0812, 0.0873, -0.0400, 0.0953,
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-0.0422, 0.0392, 0.0130, 0.0251, -0.0211, 0.0041, -0.0491, 0.0041]], Bias: 0.166646957
```

39746094

```
tensor([ 0.1221, 0.0342, 0.0629, 0.0825, -0.0011, 0.0542, -0.0618, 0.0665,
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0.0581, -0.0212, 0.0403, 0.0337, -0.0177, -0.0294, 0.0411, -0.0198,
-0.0147, -0.0810, 0.0200, -0.0171, -0.0566, 0.1047, -0.0371, 0.0346,
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-0.0315, -0.0410, 0.1783, -0.0274, -0.0555, 0.0498, -0.1169, -0.0434,
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0.0067, -0.0509, -0.0341, 0.0449, -0.0448, 0.0505, -0.0887, 0.0316,
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0.1117, 0.0735, -0.0337, 0.0848, 0.0846, -0.0788, -0.0294, 0.1470,
0.0215, 0.0793, 0.0377, -0.0987, 0.0439, -0.0535, 0.0748, 0.0367,
0.0402, -0.0764, -0.0021, -0.0305, -0.0548, -0.0218, -0.0532, 0.0265]), Bias: -
```

0.08289102464914322

```
tensor([ 0.0590, -0.0232, 0.0481, -0.0742, -0.0114, 0.1303, 0.0646, 0.0076,
-0.0459, -0.0826, 0.1001, 0.0018, -0.1087, 0.0541, 0.1328, 0.0115,
0.0450, 0.0711, -0.1812, 0.0398, 0.0721, -0.0279, 0.0410, -0.1165,
-0.0608, -0.0267, 0.0762, -0.0995, -0.0989, 0.0509, 0.0197, 0.1396,
-0.0806, 0.1283, 0.0567, 0.0252, -0.0030, -0.0594, 0.0262, -0.0732,
0.0580, 0.0575, 0.0070, -0.0009, -0.0019, 0.0689, -0.1128, 0.0013,
0.0696, 0.0443, -0.0810, -0.0318, -0.0376, -0.0901, 0.0984, -0.0499,
-0.1439, -0.0235, 0.0412, 0.0712, 0.0279, -0.0267, 0.1161, -0.0056,
-0.1205, 0.0599, 0.0234, 0.0227, -0.1047, 0.0877, -0.0098, -0.0395,
-0.0369, 0.0052, 0.0697, -0.0281, 0.0994, 0.1047, 0.0242, 0.0734,
-0.0907, 0.0314, -0.0131, -0.1003, -0.0331, -0.0448, 0.0322, -0.1024,
-0.0840, 0.1104, 0.0956, -0.1003, -0.0741, 0.0381, 0.0581, -0.1130,
0.0770, -0.0356, 0.0055, -0.0546, 0.1078, 0.0482, -0.0074, 0.0346,
0.0192, -0.0700, -0.0376, -0.0390, 0.0719, 0.1157, 0.1207, -0.0638,
-0.0844, 0.0409, 0.0430, 0.0886, -0.0788, -0.0343, -0.0418, 0.0560]), Bias: -0.04241120
```

07021904

```
tensor([ 0.0642, 0.0093, 0.0561, -0.0481, 0.0485, 0.1336, -0.0508, 0.0790,
0.0542, 0.0012, -0.0164, -0.0626, -0.0439, 0.0833, 0.0631, -0.0298,
0.1243, 0.0915, -0.0676, 0.0353, 0.0511, 0.0285, 0.1304, -0.1132,
-0.0855, 0.0198, -0.0198, -0.0385, 0.0190, 0.0354, 0.0478, 0.0288,
0.0472, -0.0390, 0.1161, 0.0082, 0.1536, -0.0984, -0.0973, 0.0220,
-0.1038, 0.0382, -0.0941, -0.0408, -0.0249, -0.0866, -0.0383, 0.0631,
-0.0554, -0.0607, 0.0574, -0.0398, -0.0600, -0.0929, -0.0002, 0.0582,
-0.0158, 0.0048, 0.0277, 0.0808, 0.0174, 0.0952, -0.0464, 0.0067,
-0.1203, -0.0498, 0.1224, -0.0430, 0.0620, -0.0511, -0.0407, -0.0601,
0.0837, -0.0386, -0.0188, 0.1668, 0.0521, 0.0169, -0.1468, 0.0260,
0.0096, -0.0577, 0.1155, 0.0755, 0.1416, -0.0245, 0.0316, -0.0472,
0.0656, 0.0205, -0.0649, -0.1412, -0.0597, -0.0629, 0.0184, -0.1126,
0.1025, 0.0088, 0.1109, -0.1279, 0.0214, -0.1198, -0.0037, 0.1156,
0.0024, -0.0480, 0.0880, -0.0386, 0.0480, 0.0909, -0.0242, 0.0575,
0.0599, -0.0431, 0.0457, -0.0865, 0.0477, 0.0237, 0.0608, -0.0078]), Bias: 0.026337774
```

470448494

```
tensor([ 0.0053, 0.1145, -0.0284, -0.0531, 0.0079, 0.1079, 0.0856, 0.0911,
-0.0340, -0.0862, -0.0017, -0.0958, -0.0758, 0.0551, 0.0724, -0.0163,
-0.0730, 0.0138, -0.0523, 0.0689, -0.0355, 0.0789, -0.0165, 0.0218,
-0.0189, 0.0607, 0.0520, -0.1009, 0.0417, -0.0862, -0.0586, -0.0013,
-0.0481, 0.0372, 0.0461, -0.0542, 0.0994, -0.0447, 0.0236, 0.0373,
0.0498, -0.0400, -0.0430, 0.0331, -0.0488, -0.0166, 0.0490, -0.0037,
-0.0393, -0.0423, 0.0400, -0.0727, -0.0641, 0.0804, -0.0124, 0.0199,
0.0938, 0.0765, -0.0626, 0.1159, 0.0194, 0.1287, -0.0084, -0.0018,
-0.0167, 0.1170, -0.0623, -0.0548, -0.0742, -0.1065, -0.0700, 0.0543,
-0.0057, 0.0517, 0.0177, -0.0127, 0.1091, 0.0678, -0.0666, 0.0023,
0.0723, 0.0139, -0.0919, -0.0272, 0.0295, 0.0573, -0.0414, -0.0134,
-0.0268, -0.0827, -0.0660, -0.0718, -0.0876, -0.0494, 0.0759, 0.0279,
0.0924, 0.0142, 0.0184, 0.1032, -0.0552, 0.1007, 0.0030, -0.0794,
0.0350, -0.0219, -0.0925, 0.0718, 0.0082, -0.0127, -0.0521, 0.0632,
-0.0582, -0.0933, 0.0645, 0.0359, 0.0606, -0.0843, -0.0559, -0.0718]), Bias:
```

0.08673447370529175

```
tensor([ 0.0059,  0.0443, -0.0176,  0.0628,  0.0830, -0.0280,  0.1021,  0.0755,
         0.0521, -0.0047,  0.0088,  0.0043,  0.0036,  0.0954, -0.0740,  0.0662,
        -0.0148, -0.0060,  0.0548, -0.0202,  0.0144,  0.0022, -0.1131,  0.0167,
         0.0638,  0.0741, -0.1135,  0.0384,  0.0615, -0.0558,  0.0669,  0.0057,
         0.0243,  0.0895,  0.0053, -0.0112,  0.1293, -0.0804,  0.0806,  0.0482,
         0.0167, -0.0639,  0.0347,  0.0862,  0.0830,  0.0526, -0.0417, -0.0115,
         0.0675, -0.0447,  0.1059, -0.0387,  0.0148,  0.0593, -0.0396, -0.0572,
         0.0673,  0.0576,  0.0716, -0.0120, -0.1117,  0.1541,  0.0279, -0.1190,
         0.0621,  0.0664,  0.0332, -0.0475,  0.0708, -0.0411, -0.0804,  0.0509,
        -0.0080,  0.0825,  0.0163,  0.0512, -0.0315,  0.0241,  0.0406,  0.0764,
        -0.0138,  0.0225,  0.1514, -0.0153,  0.0724,  0.0564,  0.0012, -0.0300,
         0.0042, -0.1030,  0.0082, -0.1079,  0.0387,  0.0305, -0.0891,  0.0704,
        -0.0355, -0.0630,  0.0549, -0.0458,  0.0590, -0.0490,  0.0207,  0.0498,
        -0.0662,  0.0078,  0.0998,  0.0462, -0.0863, -0.0366, -0.0385, -0.0139,
         0.0296, -0.0370, -0.1040, -0.0584,  0.0150,  0.0065,  0.0513, -0.0593]), Bias: 0.000759424
3506900966
```

```
tensor([-8.2468e-02, -2.4697e-02, -1.3296e-01,  1.6729e-02, -3.7289e-03,
        -6.2571e-03, -1.1468e-01,  1.8904e-02, -7.3588e-03,  1.1410e-01,
         7.6020e-03,  9.0602e-02,  7.6443e-02, -8.3343e-02, -6.3490e-03,
         4.1483e-02, -6.5003e-02, -3.6872e-03,  1.0003e-01, -5.4497e-02,
         2.9385e-02,  1.1699e-01, -1.3546e-01, -5.9441e-02,  4.1261e-02,
         1.5884e-02,  3.8564e-02, -2.0294e-02, -4.1316e-05, -7.1477e-02,
        -5.4444e-02,  4.5471e-02,  3.3113e-02, -6.1368e-02,  6.6570e-02,
         8.6774e-02, -4.3798e-02, -1.7694e-02,  1.0866e-01,  1.7925e-02,
         2.1489e-02,  1.0456e-01, -1.1084e-01,  3.2071e-02,  4.7327e-02,
         2.9803e-02,  7.0056e-02,  8.1925e-02, -1.2002e-02,  1.1388e-02,
         1.3194e-01,  3.4430e-02,  1.7746e-02, -5.0489e-02,  1.4369e-03,
        -3.0388e-03, -5.2357e-02, -6.3521e-02, -6.4644e-02, -5.5317e-03,
        -4.2099e-02, -7.4835e-02,  6.3648e-02,  8.0283e-02,  7.1560e-02,
         8.9082e-02, -1.4891e-04,  7.0877e-02, -4.1261e-02,  4.5061e-02,
        -4.3141e-02,  2.0354e-02, -3.3213e-02, -4.8786e-02,  4.1181e-02,
         5.0084e-02,  7.6040e-02,  5.7703e-02,  5.4629e-02,  7.3107e-02,
        -2.3632e-02, -4.5186e-02,  1.2713e-01, -6.5886e-02, -5.7195e-02,
         1.1156e-01, -1.5970e-02,  8.1375e-02, -8.0146e-02,  3.3574e-02,
        -7.1144e-02,  4.5932e-02,  1.2150e-02,  4.9556e-02,  5.4280e-04,
         1.0147e-01,  9.6822e-02,  7.9433e-03,  5.0165e-02, -1.9581e-02,
        -6.3842e-02,  8.1384e-02, -3.9866e-02, -3.8360e-02,  5.7475e-02,
        -1.0012e-01,  2.5549e-02, -2.9755e-02, -7.9731e-06,  1.1382e-01,
        -9.7177e-02, -9.7202e-02, -7.6479e-02,  9.9134e-03,  5.6201e-02,
         6.4954e-02, -1.7149e-01,  1.2504e-02, -1.0812e-01, -7.2274e-02]), Bias: -0.022214902564883
```

232

```
tensor([-0.0846, -0.0421,  0.1035, -0.0021,  0.0352, -0.0877,  0.1058,  0.0839,
        -0.0290,  0.1336,  0.1381,  0.1206,  0.0248,  0.0830,  0.0723,  0.1264,
        -0.0261, -0.1003, -0.0785,  0.0910,  0.0595, -0.1041,  0.0641,  0.0784,
         0.0189, -0.0771,  0.0497,  0.0007, -0.0149, -0.1087,  0.0753,  0.0822,
         0.0656,  0.0225, -0.0446, -0.0050,  0.0546,  0.0145, -0.0809,  0.0189,
         0.0650, -0.1546,  0.1998, -0.0194,  0.0778,  0.1595, -0.0845,  0.0934,
        -0.0518,  0.0328,  0.0319, -0.0652, -0.2557,  0.0805,  0.1001,  0.0639,
         0.1417, -0.0916, -0.0910,  0.0751,  0.0888, -0.0495,  0.0595,  0.0665,
        -0.0958,  0.1170,  0.0011, -0.0399, -0.1659,  0.0849,  0.0057, -0.0320,
        -0.0096,  0.1155,  0.0404,  0.0108, -0.1586, -0.0751, -0.0094, -0.0856,
        -0.0347,  0.0785, -0.1088,  0.1620, -0.0425, -0.0036, -0.0754, -0.0186,
         0.0135,  0.0182,  0.0980, -0.1518,  0.0236,  0.0328, -0.0754,  0.0350,
        -0.1545, -0.0308, -0.0593,  0.1256,  0.0378,  0.0099, -0.0429, -0.1281,
         0.0233, -0.0717, -0.0269,  0.1120,  0.0236, -0.0285,  0.0216,  0.0653,
         0.0104,  0.0707, -0.0932, -0.1178, -0.0869, -0.1401,  0.1809,  0.0338]), Bias: 0.032687138
76605034
```

```
tensor([-0.0339,  0.0016, -0.0251, -0.0310,  0.0954,  0.0207,  0.0093, -0.0785,
         0.0622, -0.0198, -0.0027,  0.0009,  0.0950, -0.1608,  0.0607, -0.1013,
         0.0827, -0.0919, -0.0092,  0.0621, -0.1157, -0.0843, -0.2740,  0.0202,
        -0.0779,  0.0863,  0.1672, -0.1242,  0.1905,  0.0126, -0.1069,  0.1284,
         0.0829,  0.1423, -0.0873,  0.1040, -0.0553,  0.1340,  0.0204, -0.0470,
        -0.0506,  0.0540, -0.0461, -0.0175,  0.0280, -0.0989, -0.0565,  0.0440,
        -0.0241, -0.0976,  0.0831,  0.0813,  0.1184, -0.0430, -0.0353, -0.0938,
        -0.0208,  0.0663, -0.0511,  0.1357,  0.0261, -0.0834,  0.0276, -0.0239,
        -0.0304, -0.0269, -0.0949,  0.0969,  0.0460, -0.0818,  0.0596, -0.0397,
        -0.0425,  0.0147, -0.0036, -0.0542, -0.0592,  0.0195, -0.0126, -0.1626,
         0.0227, -0.0313, -0.0847, -0.0901,  0.0673, -0.0147, -0.0221,  0.0438,
         0.0578, -0.0162, -0.0137, -0.0332, -0.0552, -0.0235, -0.0242, -0.0362,
        -0.0961, -0.0305,  0.1254, -0.1315,  0.0599,  0.0501,  0.1763, -0.1090,
        -0.0592,  0.0147,  0.0029,  0.1295, -0.0370,  0.1335,  0.0838,  0.0421,
        -0.0392, -0.0393, -0.0746,  0.0924,  0.1538,  0.0136, -0.0811,  0.0574]), Bias: 0.109893091
```

0.0002, 0.0003, 0.0010, 0.0024, 0.1000, 0.0100, 0.0011, 0.0074]], Bias: 0.10000001
02296829

tensor([0.0717, -0.0744, 0.0417, -0.0205, -0.0469, -0.0379, 0.0096, -0.0622,
0.0364, 0.0500, 0.1004, 0.0546, 0.1082, 0.0509, 0.0836, -0.0475,
0.0687, -0.0374, -0.0547, 0.0540, 0.0382, -0.0258, 0.0749, -0.0347,
0.0559, -0.0433, -0.0367, 0.0779, 0.0647, 0.0707, 0.1281, 0.0963,
-0.0418, -0.0677, -0.0202, 0.0138, -0.0310, 0.0829, -0.0897, -0.0170,
-0.0441, -0.1175, 0.1191, 0.0643, 0.0372, 0.0547, -0.0680, -0.0656,
0.0292, 0.0400, 0.0894, 0.0461, -0.0975, 0.0679, -0.0436, -0.0855,
0.0022, 0.0479, -0.1099, -0.0447, -0.0589, -0.0940, 0.0435, 0.1185,
-0.0392, 0.1031, -0.0491, -0.0500, -0.0691, -0.0221, 0.0042, -0.0280,
0.0076, 0.0249, -0.0009, -0.0871, -0.0105, -0.1154, -0.0943, -0.0353,
0.1420, -0.0448, -0.0146, 0.1015, 0.0246, -0.0904, 0.0014, 0.0373,
0.0339, 0.0241, -0.0310, 0.0839, -0.0283, 0.0761, -0.0259, 0.0989,
-0.0971, -0.0846, 0.0213, 0.0105, 0.1179, 0.0431, -0.1078, 0.0582,
0.0718, 0.0376, -0.0454, -0.0145, -0.0823, 0.0599, 0.0526, 0.0154,
-0.0222, 0.0017, -0.1158, 0.0388, 0.0788, -0.0755, -0.0076, -0.0453]), Bias:
0.01385252270847559

tensor([0.0529, -0.0067, -0.0041, 0.0796, 0.0419, 0.1097, 0.0422, 0.0424,
0.0320, 0.0383, -0.0360, 0.0050, 0.0082, 0.0202, 0.0135, 0.0727,
-0.0290, -0.0719, -0.0299, -0.0066, 0.0871, 0.0521, 0.0768, -0.0699,
-0.0707, -0.0338, 0.0059, 0.0188, -0.0424, -0.0820, -0.0897, 0.0277,
-0.0230, 0.1121, 0.1081, -0.0482, -0.0505, -0.0033, -0.0171, -0.0345,
0.0367, 0.0424, -0.0725, 0.0510, -0.0559, 0.0821, -0.0309, -0.0611,
-0.0125, -0.0717, 0.0617, 0.0235, 0.0374, -0.0786, -0.0044, -0.0316,
-0.0546, -0.0389, -0.0544, 0.0711, -0.0220, 0.1133, 0.0172, -0.0503,
0.0282, -0.0716, 0.0271, 0.0132, 0.0815, -0.0703, -0.0857, 0.0138,
0.0622, 0.0649, -0.0550, 0.1091, -0.0121, -0.0154, -0.0888, -0.0057,
-0.0616, 0.0153, -0.0291, -0.0499, 0.0997, 0.0818, -0.0184, 0.0623,
-0.0538, 0.0059, 0.0147, -0.0408, 0.0180, -0.0971, 0.0611, -0.0765,
-0.0587, -0.0861, -0.0040, 0.0698, -0.0710, -0.0958, 0.0337, -0.0016,
-0.0462, 0.0751, 0.0147, 0.0728, 0.0084, -0.0064, 0.0431, 0.0480,
-0.0296, -0.0743, -0.0154, -0.0756, -0.0376, 0.0182, -0.0556, 0.0815]), Bias: -
0.08045840263366699

tensor([0.0296, 0.0556, -0.1637, -0.0805, -0.0450, 0.0595, -0.0842, 0.0653,
0.0795, 0.1074, 0.0956, 0.1613, 0.0945, -0.0485, 0.0973, -0.0933,
-0.0486, -0.0546, 0.0514, -0.0023, 0.1021, 0.0928, -0.1470, 0.1276,
-0.0046, 0.0856, 0.0369, -0.0472, 0.1520, -0.0897, 0.0122, 0.1348,
0.0839, -0.0247, 0.0827, 0.1280, 0.0468, -0.0736, 0.0667, -0.0832,
-0.1221, -0.0683, -0.0027, -0.0786, 0.0300, 0.0593, 0.1325, -0.0167,
-0.0421, -0.1109, 0.1158, -0.0403, 0.0748, 0.0223, -0.1116, -0.0975,
0.1261, 0.0729, -0.1148, 0.1863, 0.0306, 0.0446, -0.0166, 0.1770,
-0.0267, -0.0305, -0.0774, 0.0889, -0.1080, 0.0914, 0.0047, -0.0397,
-0.0226, 0.0731, -0.0545, -0.0942, 0.1445, -0.1178, -0.0493, -0.0659,
0.0308, 0.0427, 0.1267, -0.0703, 0.0645, 0.0446, -0.0605, 0.0790,
-0.0462, 0.0520, 0.0388, -0.0300, 0.0065, 0.0717, -0.0941, 0.0095,
-0.0405, -0.0672, -0.0284, -0.0387, -0.0699, -0.0473, -0.0071, -0.1760,
-0.0459, -0.0481, 0.0342, -0.0061, -0.0071, 0.1266, -0.0201, -0.0864,
0.0758, 0.0923, 0.0014, 0.0039, -0.1723, -0.0815, 0.0454, 0.0677]), Bias: 0.014482656
493782997

tensor([0.0653, 0.0792, 0.0116, 0.0174, 0.0502, -0.0578, 0.0342, -0.0128,
0.0411, 0.1251, -0.0805, -0.0120, 0.0613, -0.0628, 0.0213, 0.0416,
0.1153, -0.1042, -0.0130, -0.0443, 0.0059, -0.0952, -0.0239, 0.0209,
0.0854, 0.0640, 0.1273, -0.1328, 0.1593, -0.0558, 0.0051, 0.1079,
0.0587, 0.0417, -0.0455, 0.0318, 0.0368, 0.0555, -0.0655, 0.0507,
0.1119, -0.1071, 0.0732, 0.0713, 0.0389, -0.1265, 0.0665, 0.0374,
-0.0106, -0.0512, -0.0614, -0.0120, -0.1380, -0.0446, 0.0470, -0.0853,
0.0799, 0.0006, -0.0509, 0.0856, 0.1126, -0.0957, -0.0942, -0.0153,
0.0779, 0.0344, -0.0127, -0.0325, 0.0725, -0.0811, 0.0246, -0.0922,
0.0767, 0.1198, 0.0846, 0.1172, 0.0411, -0.1117, -0.0817, -0.0087,
0.1162, 0.0195, -0.1134, 0.0261, 0.0230, 0.0695, 0.0145, -0.0837,
0.0679, -0.0785, 0.0778, -0.1714, -0.0130, 0.0694, -0.0949, -0.0103,
-0.1196, 0.0454, 0.0815, -0.1421, 0.0743, -0.0204, 0.0730, -0.0760,
0.0011, -0.0746, 0.0654, 0.1827, 0.0575, 0.0483, -0.0846, 0.1242,
0.0363, 0.0197, -0.0950, -0.0023, 0.0238, 0.0554, 0.1706, 0.0168]), Bias: -0.06200054
660439491

tensor([0.0200, 0.0328, -0.1174, -0.0689, -0.0324, -0.1052, 0.0005, -0.0132,
0.0566, -0.0284, 0.0794, -0.0939, 0.0141, -0.0701, 0.0909, 0.0352,
-0.0747, -0.0232, 0.0940, 0.0221, -0.0312, 0.0400, 0.1813, 0.0258,
-0.0541, 0.0693, 0.1717, 0.0055, -0.1143, -0.0109, 0.0683, 0.1268,
0.0340, -0.0183, 0.0011, -0.1088, -0.1503, -0.0204, 0.1221, 0.0062,
-0.0968, 0.0344, -0.0063, -0.0628, -0.0009, -0.0735, 0.1132, 0.0146,
-0.0941, 0.0578, 0.0525, 0.0489, 0.0104, 0.0373, -0.0598, 0.1008

-0.0941, 0.0070, 0.0029, 0.0409, 0.0104, 0.0079, -0.0090, 0.1000,
0.1395, -0.0227, 0.1100, 0.0212, -0.0161, 0.0403, 0.0040, 0.0069,
-0.0820, 0.0183, 0.0215, 0.1007, -0.0208, 0.0754, -0.0959, -0.0795,
0.0099, 0.0715, -0.0474, 0.0607, -0.1482, 0.0907, -0.1162, -0.0116,
0.0007, -0.1097, 0.0857, 0.0263, -0.0647, -0.0253, -0.1016, 0.0376,
-0.0623, 0.0039, -0.1000, 0.0914, 0.0666, 0.0501, -0.0443, -0.0376,
0.0367, 0.0404, -0.0221, -0.0350, -0.0066, 0.0425, -0.0891, 0.0734,
-0.0164, 0.0012, 0.0708, -0.1094, 0.0770, 0.0192, 0.0319, -0.0392,
0.0511, -0.0917, -0.0055, 0.0638, 0.0333, 0.0732, 0.0279, -0.0028]], Bias: 0.029520722

10609913

tensor([-0.0199, 0.0500, 0.1066, -0.0716, -0.0383, 0.0662, -0.0981, 0.0425,
0.0180, 0.0240, 0.0969, 0.0954, 0.0645, 0.0336, 0.0780, 0.0834,
-0.0856, 0.0891, 0.0142, -0.0568, -0.0408, 0.0717, 0.1637, 0.1048,
-0.1002, 0.0393, 0.1074, -0.0208, -0.1063, 0.1080, -0.1180, 0.0988,
-0.0353, 0.0619, -0.0143, -0.0220, -0.0717, -0.0713, -0.0751, 0.0622,
-0.1530, -0.0215, -0.0151, 0.0733, -0.1078, 0.0871, 0.0832, 0.0358,
0.0075, -0.0207, -0.0156, -0.0926, -0.0756, -0.0234, 0.1277, 0.1284,
0.0172, 0.0604, 0.1425, 0.0381, 0.0386, -0.0503, 0.0261, 0.0590,
-0.1710, 0.0405, 0.0599, -0.0232, 0.0703, -0.0325, 0.0823, 0.0964,
0.0735, 0.0628, -0.0099, 0.0079, -0.0434, -0.0130, -0.0555, -0.0558,
0.0122, -0.0682, -0.0853, 0.0153, 0.0312, -0.0342, -0.0663, -0.0193,
-0.0645, 0.0129, 0.0872, -0.0513, -0.0654, -0.1254, -0.0103, -0.1301,
0.0637, -0.0462, 0.1001, 0.0354, -0.0046, 0.0865, -0.0891, -0.0288,
0.0610, 0.0295, 0.0834, -0.1692, -0.0819, 0.0108, 0.1122, 0.0092,
0.1119, -0.0917, 0.0140, -0.0577, 0.1483, -0.0006, -0.1141, 0.0153]], Bias: 0.047854930

16242981

tensor([0.0785, 0.1160, 0.0281, 0.0371, 0.0222, 0.1298, -0.0826, -0.0278,
0.0143, 0.0877, -0.0204, 0.0402, -0.0979, -0.0068, 0.1138, -0.0394,
-0.0351, -0.0694, -0.1031, 0.0594, 0.0779, 0.0428, 0.0952, -0.1312,
-0.0425, -0.0220, -0.0247, 0.0772, -0.0905, 0.1309, -0.0924, -0.1382,
0.0337, 0.0465, 0.0894, 0.0443, 0.0865, -0.0031, 0.0211, -0.0283,
0.0751, 0.1192, -0.0859, 0.0073, 0.0585, -0.0361, -0.0352, 0.0276,
-0.1706, -0.1102, -0.0171, -0.0817, 0.0301, -0.0107, -0.0545, -0.1412,
-0.0201, 0.1016, -0.0632, 0.0875, 0.0150, -0.0453, -0.1014, 0.1183,
-0.0561, 0.0536, 0.0865, 0.0213, -0.0320, -0.0328, -0.1199, -0.0311,
0.1141, -0.0041, 0.0725, 0.1337, 0.0942, -0.0312, -0.0378, 0.0992,
-0.1045, -0.0535, 0.0630, -0.1110, 0.0103, 0.0611, -0.0037, -0.1008,
0.0556, 0.0537, 0.1136, -0.0830, -0.0079, -0.0195, 0.0073, -0.0398,
-0.0635, 0.0601, 0.1231, -0.1342, 0.0288, -0.0546, -0.0518, 0.1197,
-0.0700, -0.0725, -0.0785, -0.0045, -0.0254, 0.1121, -0.0750, -0.0580,
0.0270, 0.0828, 0.0386, 0.0107, -0.0568, 0.0665, -0.0369, -0.0320]], Bias: -0.08781669

288873672

tensor([-0.0704, -0.0673, 0.0003, 0.0187, -0.1339, 0.0403, -0.1615, -0.0221,
0.0058, -0.0067, 0.1093, 0.1118, -0.0324, -0.0525, 0.0651, -0.0456,
-0.0748, 0.0062, 0.0367, 0.0390, 0.0033, -0.0078, 0.0422, -0.0037,
0.0942, 0.0309, 0.0779, 0.0105, -0.0423, -0.0957, -0.1369, 0.0573,
0.1729, -0.0612, -0.0172, 0.0398, 0.0228, -0.0675, 0.1114, 0.0126,
-0.0878, 0.1510, 0.0206, -0.0448, -0.0735, 0.1535, 0.1153, 0.0960,
0.1152, -0.0177, 0.0532, 0.0600, 0.2355, -0.0664, 0.0995, 0.0631,
-0.1131, 0.0633, 0.1389, -0.0338, -0.0969, -0.0319, -0.0148, 0.0477,
-0.0445, 0.1019, 0.0362, 0.1402, -0.0076, 0.0253, 0.0215, -0.0337,
-0.1297, 0.0541, 0.0725, -0.0268, 0.1611, 0.1011, 0.1855, -0.0132,
-0.0631, 0.0745, -0.0474, -0.0551, 0.0440, -0.0744, -0.0027, -0.0933,
0.0593, 0.0020, -0.1088, 0.1620, -0.0423, -0.0850, 0.1075, -0.0823,
0.1329, -0.0723, 0.0113, 0.0724, 0.0317, -0.0888, -0.0015, 0.0562,
0.0802, 0.0474, 0.0728, -0.1721, -0.0133, 0.0858, 0.1674, 0.0021,
0.1046, -0.0862, -0.0465, 0.1724, 0.0356, -0.0414, -0.1861, 0.0865]], Bias: 0.088007032

87124634

tensor([0.0012, -0.0178, 0.0649, -0.0210, -0.0143, 0.0448, -0.0283, -0.0787,
-0.0465, -0.0867, 0.0259, -0.0247, -0.0612, 0.0206, -0.0473, 0.0489,
-0.0393, 0.0594, -0.0602, 0.0211, -0.0092, 0.0593, 0.0355, 0.0028,
0.0096, -0.0249, 0.0452, -0.0670, 0.0112, 0.0399, -0.0183, -0.0905,
-0.0395, -0.0412, 0.0586, -0.0453, 0.0476, -0.0495, -0.0892, -0.0548,
-0.0136, 0.0083, -0.0860, -0.0167, -0.0874, 0.0006, 0.0356, -0.0574,
0.0852, -0.0879, 0.0522, -0.0797, 0.0381, 0.0625, -0.0150, 0.0319,
-0.0663, -0.0841, -0.0546, -0.0911, 0.0870, -0.0328, -0.0907, 0.0287,
0.0851, -0.0073, -0.0717, -0.0314, -0.0841, 0.0507, 0.0271, -0.0604,
-0.0469, 0.0604, 0.0082, 0.0313, -0.0628, 0.0151, -0.0793, -0.0318,
-0.0541, 0.0064, 0.0013, -0.0158, -0.0591, -0.0234, -0.0282, 0.0090,
0.0118, -0.0217, 0.0622, 0.0075, 0.0620, -0.0589, -0.0692, -0.0455,
0.0038, -0.0678, -0.0770, -0.0115, -0.0250, 0.0494, 0.0196, -0.0095,
0.0212, 0.0689, 0.0834, 0.0284, 0.0696, 0.0457, -0.0268, -0.0315,
-0.0579, 0.0278, -0.0685, -0.0611, -0.0417, -0.0332, 0.0511, -0.0902]], Bias:

0.014758151260120222

```
tensor([ 0.0842, 0.0957, 0.0177, 0.0670, 0.0801, -0.0463, -0.0331, -0.0679,
        -0.0024, -0.1078, 0.0139, -0.0941, -0.0476, 0.0815, -0.0120, 0.0710,
        0.0095, 0.1201, 0.0305, 0.0851, -0.0052, 0.0085, 0.0514, 0.0564,
        0.0575, -0.0381, -0.0712, 0.0375, -0.0879, 0.0552, -0.0916, -0.0553,
        -0.0118, -0.0751, -0.0917, -0.0269, 0.1098, 0.0103, -0.0121, 0.0576,
        0.0194, -0.0667, -0.0496, 0.0224, 0.0076, 0.1577, 0.0830, -0.0462,
        -0.0071, -0.0343, -0.0754, -0.0304, -0.0202, -0.0321, 0.0749, 0.0149,
        -0.0308, -0.0123, 0.1272, 0.0278, -0.0660, 0.0921, 0.0386, -0.0710,
        -0.0401, 0.0358, -0.0797, 0.0348, 0.0609, 0.0703, 0.0970, 0.1168,
        0.0522, -0.0316, 0.0226, -0.0203, 0.0682, 0.1155, 0.1138, 0.1096,
        0.0944, 0.0493, -0.0530, 0.1082, 0.1105, -0.1215, 0.0632, -0.0698,
        -0.0428, 0.0698, 0.0405, 0.0164, -0.0722, -0.0285, 0.0994, -0.0161,
        -0.0260, -0.0055, -0.0022, 0.1381, 0.0993, -0.0136, 0.0354, -0.0329,
        -0.0798, 0.0896, -0.0345, -0.0695, -0.0707, -0.0677, 0.0952, 0.0834,
        -0.0677, -0.0254, -0.0417, 0.0577, 0.0955, 0.0049, -0.1198, 0.0370]), Bias: 0.012874092
906713486
```

```
tensor([ 0.0115, 0.1370, 0.0701, 0.0366, -0.1138, 0.0901, -0.0875, -0.0635,
        0.1010, -0.0209, 0.0703, 0.0672, 0.0162, -0.0335, 0.1764, 0.0665,
        -0.0237, -0.0315, 0.0835, -0.0091, 0.0211, 0.1429, 0.1291, 0.0712,
        0.0414, -0.0333, -0.0145, 0.1338, -0.0981, 0.1439, -0.0181, -0.0620,
        0.0055, -0.0449, 0.0649, 0.0172, 0.0626, -0.0745, 0.1015, -0.0886,
        -0.0568, 0.1501, -0.1463, 0.0743, 0.0432, 0.0590, 0.0728, -0.0806,
        -0.1311, 0.1289, 0.0763, -0.0150, -0.0342, 0.0738, -0.0501, 0.1255,
        0.0315, 0.0714, -0.0029, 0.1462, -0.0636, -0.0489, 0.0160, 0.0361,
        0.0918, -0.0380, 0.1128, 0.0221, -0.0827, -0.0437, 0.0665, -0.0207,
        0.0743, -0.1244, 0.0096, 0.0236, 0.0027, 0.0569, -0.0499, 0.0834,
        -0.1003, 0.0783, 0.0271, -0.0033, -0.0656, 0.0604, -0.0787, 0.0696,
        0.0102, 0.1268, -0.0352, -0.0261, -0.0035, -0.0446, 0.0140, -0.1036,
        0.1552, 0.0237, 0.1625, -0.0932, 0.0548, 0.0589, -0.1425, 0.0039,
        -0.0735, 0.0702, -0.1367, -0.1527, -0.0266, 0.0661, -0.0307, -0.1127,
        -0.0605, 0.0706, 0.1550, -0.0739, -0.0955, 0.0080, 0.1206, 0.0411]), Bias: 0.071153171
3604927
```

```
tensor([ 6.3248e-02, 1.3818e-02, 2.4153e-02, 8.1338e-02, 6.8680e-02,
        5.0629e-02, 6.0731e-02, 5.5674e-04, -3.7540e-02, -7.6047e-02,
        -1.1396e-01, -4.8594e-02, 1.6191e-02, 1.5785e-01, 3.4479e-02,
        1.2707e-01, 2.9590e-02, 1.2742e-01, 3.0097e-02, -4.0012e-02,
        8.7859e-02, -6.6653e-03, 5.6525e-02, -1.6762e-01, -8.2392e-02,
        3.8570e-02, -1.7953e-01, 1.1853e-01, -1.7514e-01, -2.9859e-03,
        1.1161e-02, -4.9400e-02, 9.8264e-02, 1.1001e-01, -8.2152e-02,
        2.1525e-02, 8.7780e-02, 5.6785e-03, 1.7789e-01, -7.8826e-02,
        7.6662e-02, 3.2128e-02, 1.4198e-02, -2.7651e-02, -3.1472e-02,
        -4.4757e-02, -1.0195e-01, 1.4501e-01, 1.2449e-01, -4.6212e-02,
        -9.7897e-02, 6.4690e-02, 8.8111e-02, -3.7600e-02, 1.2732e-01,
        9.3792e-02, -3.8131e-02, -1.3233e-01, 2.8492e-02, -1.6443e-01,
        -4.6592e-02, 9.0346e-02, -7.7437e-02, -2.2570e-01, -1.2989e-02,
        -5.4048e-02, 8.7571e-02, -1.8823e-02, 1.2698e-01, -1.2082e-03,
        1.1241e-01, 2.2496e-02, 9.3510e-02, -1.0875e-01, -7.9959e-02,
        7.0158e-02, 3.1399e-02, 1.9886e-01, 4.9383e-02, 1.5388e-01,
        -1.8138e-01, -5.8586e-03, 1.8422e-01, 1.3236e-01, -1.0883e-01,
        -1.4883e-02, 1.6806e-01, 1.3836e-01, 8.2833e-02, -1.0359e-01,
        2.9538e-02, -4.7255e-02, 4.9035e-03, 1.4406e-01, 8.2329e-02,
        -1.2899e-04, 1.5423e-02, 8.9693e-03, -2.5766e-02, 9.5961e-02,
        -6.0810e-02, -1.6132e-01, 2.1980e-02, 1.5954e-01, -8.7035e-02,
        3.5152e-02, 6.5356e-02, -2.1060e-02, 5.6620e-02, -1.0629e-01,
        -8.5875e-03, -6.1608e-02, 4.2112e-02, -1.5864e-01, 1.3389e-01,
        9.1621e-02, -1.8816e-01, 1.6365e-01, 3.0340e-02, 2.0863e-02]), Bias: -0.083914995193481
45
```

```
tensor([ 0.0523, 0.0624, 0.0827, 0.0022, -0.0800, -0.0731, 0.0344, 0.0276,
        0.0013, -0.0687, -0.0876, -0.0150, 0.0639, -0.0531, 0.1398, 0.0117,
        0.0276, 0.0150, 0.0644, 0.0852, -0.1136, -0.1007, 0.1529, 0.0323,
        0.0608, 0.0754, -0.0267, 0.0125, 0.0865, 0.0442, -0.0241, 0.1135,
        -0.2621, -0.1751, 0.0935, 0.0368, 0.0577, -0.0797, -0.1135, 0.0748,
        -0.0667, 0.0155, 0.0504, 0.0636, -0.0153, 0.1133, 0.0455, -0.0211,
        -0.1136, 0.0344, 0.0538, 0.0025, -0.0906, -0.0218, 0.0514, 0.1288,
        0.1453, -0.0247, 0.0702, 0.0236, -0.0789, -0.0063, 0.0125, 0.0412,
        0.0249, 0.0296, 0.0140, 0.0584, -0.0599, 0.0725, -0.0031, 0.0802,
        0.0040, 0.1334, -0.0276, -0.0732, -0.0578, -0.1020, -0.0271, -0.0258,
        -0.0268, 0.0598, -0.1029, 0.0928, 0.0795, -0.0811, -0.0715, 0.0841,
        -0.0420, 0.0562, 0.0356, 0.0334, 0.0127, -0.1555, -0.0793, 0.0697,
        -0.0827, -0.0154, -0.1791, 0.0383, 0.1307, 0.0926, -0.0041, 0.0426,
        -0.0281, 0.1197, -0.0206, -0.0461, -0.0653, 0.0759, -0.0193, -0.0831,
        -0.1375, 0.1076, -0.0670, -0.0614, 0.1826, -0.1305, 0.0833, 0.0149]), Bias: 0.088214062
15400000
```

```

tensor([[-0.0790,  0.0210, -0.0120,  0.0832, -0.0385,  0.0611, -0.0961,  0.0336,
          0.0100, -0.0103, -0.0145,  0.0817,  0.0651,  0.0176,  0.0557, -0.0803,
          -0.0140,  0.0609,  0.0005,  0.0776, -0.0528, -0.0725, -0.1721, -0.0409,
          -0.0082,  0.0696,  0.0583, -0.1344,  0.1408, -0.1133,  0.0494,  0.0294,
           0.0981,  0.0193,  0.0460, -0.0535,  0.0831,  0.0256,  0.0519,  0.0311,
          -0.0152, -0.1273, -0.0098,  0.0310, -0.0498,  0.1171,  0.0867, -0.0392,
          -0.0047, -0.0498,  0.0815,  0.0255, -0.0055, -0.0418, -0.0664, -0.0543,
          -0.0357,  0.1145,  0.1410, -0.0703, -0.0041,  0.0810,  0.0771, -0.0082,
           0.0564, -0.0454, -0.0930, -0.0746, -0.0878,  0.0576,  0.0525,  0.0294,
           0.0018,  0.1182, -0.0304, -0.0801, -0.0669, -0.0843,  0.0630, -0.0630,
           0.1308,  0.0851, -0.0190,  0.0699,  0.1260, -0.0191, -0.0274,  0.0695,
           0.0379, -0.0090, -0.0301,  0.0353,  0.0791, -0.0299,  0.0262,  0.0883,
           0.0604,  0.0659,  0.0193,  0.0321,  0.1322, -0.0365, -0.0663,  0.0607,
           0.0136,  0.0756, -0.0158, -0.0092, -0.0600,  0.0637,  0.1282, -0.0105,
          -0.0105,  0.0365, -0.0345,  0.0212,  0.1997, -0.0575, -0.0995, -0.0146]), Bias:
0.010108951479196548

```

```

tensor([[-0.0987, -0.0767, -0.1809, -0.0405, -0.0451,  0.0650,  0.0189,  0.0227,
          -0.0058,  0.1044,  0.0028,  0.0960,  0.0016, -0.1079,  0.0218, -0.0360,
          -0.0069, -0.0963,  0.0708,  0.0234, -0.1031, -0.0210, -0.1406,  0.0971,
           0.0838, -0.0227, -0.0441, -0.0929,  0.0501, -0.0513, -0.0616,  0.1263,
          -0.0243,  0.1934,  0.0283, -0.1036,  0.0721, -0.0189,  0.1226,  0.0102,
           0.0484,  0.1215, -0.0336,  0.0412, -0.1293,  0.0430,  0.0251,  0.1625,
           0.1587, -0.1117, -0.0291,  0.0597, -0.0412,  0.0347,  0.0519, -0.0665,
           0.0836,  0.0591, -0.0799,  0.0117, -0.1051,  0.1568, -0.0491,  0.0442,
          -0.0188, -0.0053, -0.1350, -0.0165,  0.1877,  0.0565,  0.0263, -0.0801,
           0.0337,  0.1710,  0.0182, -0.0074,  0.0622,  0.0243, -0.0134, -0.0207,
           0.0242,  0.0278,  0.1714, -0.0559,  0.0175,  0.1786, -0.0352,  0.1380,
           0.0608, -0.2297,  0.0413, -0.0215, -0.0828,  0.0960, -0.1141, -0.0663,
          -0.0863, -0.0809, -0.0213,  0.0514, -0.0134, -0.1084, -0.0097,  0.0201,
           0.0138,  0.0137, -0.0154,  0.0737,  0.0153, -0.0035,  0.0878, -0.0393,
           0.0976, -0.0980, -0.0756,  0.0514, -0.1280, -0.0153,  0.1495, -0.0323]), Bias:
0.09659210592508316

```

```

tensor([[-0.0884,  0.0075, -0.1329,  0.0427, -0.0252,  0.1115, -0.0352, -0.0728,
          0.0747, -0.0185, -0.0661,  0.0941, -0.0221, -0.1148,  0.0767,  0.0697,
          -0.0263,  0.0409, -0.0205, -0.0310,  0.0659,  0.0810,  0.0833, -0.0159,
          -0.0163,  0.0202,  0.0282,  0.0006,  0.0506, -0.0145, -0.0044,  0.1135,
          -0.1319,  0.0602, -0.0961,  0.0034,  0.1716,  0.0095,  0.0162, -0.0375,
          -0.0299,  0.1171, -0.0232,  0.0766, -0.0057,  0.0933,  0.0243, -0.0589,
           0.0789, -0.0207, -0.0789,  0.0655,  0.0402,  0.0116,  0.0354, -0.0545,
           0.0263, -0.0793,  0.0167,  0.0305,  0.0968,  0.1262,  0.0372,  0.0283,
          -0.0389,  0.0209, -0.0783, -0.0409,  0.0483, -0.0968,  0.0207,  0.0142,
          -0.0066,  0.1077,  0.0446,  0.0653,  0.0037,  0.0983,  0.0963,  0.0369,
           0.0466,  0.0537, -0.1044,  0.0308,  0.0519, -0.0078, -0.0295, -0.1005,
          -0.0634,  0.0315, -0.0466,  0.1038, -0.0268, -0.0354, -0.0220, -0.0364,
          -0.0058,  0.0112,  0.0323,  0.1201, -0.0520, -0.0561,  0.1450,  0.0220,
          -0.0067, -0.0604, -0.1035,  0.0100,  0.0801, -0.0574,  0.1306,  0.0193,
          -0.1295,  0.0296,  0.0080,  0.0837,  0.1099, -0.0004, -0.0994, -0.0694]), Bias: 0.108330249
78637695

```

```

tensor([[-0.0552,  0.0256,  0.0530,  0.0321,  0.0446,  0.0128,  0.0119, -0.0470,
          -0.0397,  0.0815,  0.1134, -0.1250,  0.0219, -0.0080,  0.1179,  0.1145,
          -0.0585,  0.0112, -0.0777,  0.0489,  0.0252, -0.0046, -0.0027, -0.0126,
           0.0322,  0.0235,  0.0691,  0.1097, -0.1056, -0.0546,  0.0260, -0.0846,
           0.0632,  0.0230, -0.1099,  0.0235,  0.0228,  0.0551,  0.1126, -0.1041,
          -0.0608,  0.0081,  0.0670, -0.0790, -0.0962,  0.0757,  0.0547, -0.0151,
           0.0681, -0.0388, -0.0177,  0.0267,  0.0471, -0.0866,  0.1068,  0.0113,
           0.0283,  0.0018,  0.0456, -0.0939,  0.0204, -0.0418,  0.0922,  0.0680,
          -0.0587, -0.0862, -0.0014, -0.0022,  0.0708,  0.0148,  0.0434,  0.0200,
           0.0828, -0.0820,  0.0751,  0.0828, -0.0429,  0.0618,  0.1036, -0.0356,
          -0.1009, -0.1164, -0.0714,  0.0331, -0.0674, -0.0382,  0.0195,  0.0016,
           0.0552,  0.0579,  0.0590, -0.0343, -0.0892,  0.0230,  0.0394,  0.0101,
           0.0482, -0.0040,  0.0162,  0.0436,  0.0441,  0.0678, -0.0589, -0.0745,
          -0.0250, -0.1008, -0.0052, -0.0547,  0.0818, -0.0379,  0.0444,  0.0171,
           0.0777, -0.0687,  0.0752, -0.0564, -0.1581,  0.0437,  0.0823, -0.0267]), Bias: 0.016938460
990786552

```

```

tensor([[-0.0378,  0.0241, -0.0771, -0.0584, -0.0450,  0.1184, -0.0904,  0.0406,
          -0.0314, -0.0174,  0.0216,  0.0244,  0.0867,  0.0306,  0.1369, -0.1350,
          -0.0584, -0.0353, -0.0198,  0.0673, -0.0589, -0.0312, -0.0701,  0.0468,
           0.0723,  0.0637,  0.0308, -0.1532,  0.1164, -0.0005, -0.0094,  0.0075,
           0.1246, -0.0945, -0.0582,  0.1441,  0.1179, -0.0658, -0.0809,  0.0192,
          -0.0125,  0.1095, -0.0582,  0.0081,  0.0359,  0.0852, -0.0012, -0.1009,
           0.1073, -0.0411,  0.0196,  0.0791,  0.2650,  0.0745,  0.1111, -0.0170,
           0.1575,  0.1025,  0.1401,  0.0522,  0.0268,  0.0668,  0.0268,  0.0562

```

-0.1575, 0.1235, 0.1401, 0.0533, -0.0399, 0.0669, 0.0262, -0.0503,
0.0235, 0.1578, -0.0079, 0.1137, -0.0104, -0.0103, -0.0277, -0.0836,
0.0417, -0.0552, -0.0485, -0.0296, 0.1343, -0.0057, 0.1157, 0.0353,
-0.0366, 0.0209, 0.0627, -0.1281, 0.1884, 0.0990, -0.0245, -0.1136,
-0.0691, 0.1854, -0.0529, 0.0845, -0.0528, 0.0202, 0.0595, 0.1318,
0.1034, 0.0340, 0.0272, 0.0010, 0.1043, 0.0886, 0.0759, -0.0300,
0.0213, -0.0529, 0.0924, -0.0048, 0.0657, 0.1232, 0.0510, 0.0188,
-0.0733, -0.0639, -0.1223, 0.0910, 0.0999, 0.0318, -0.1190, 0.0598]], Bias: 0.015809642
150998116

tensor([0.1250, 0.1166, 0.0597, 0.0878, 0.0543, 0.0395, -0.0666, -0.0143,
0.0569, -0.1048, -0.0215, -0.1457, 0.0496, -0.1548, 0.0552, 0.0066,
0.0424, -0.0506, 0.0443, 0.0025, -0.0644, -0.0681, -0.0790, 0.1326,
-0.0804, 0.0547, 0.1399, -0.1072, -0.0664, 0.0330, -0.0833, 0.1563,
-0.0391, 0.0830, 0.0560, 0.0591, -0.1011, -0.0116, -0.0916, 0.0608,
-0.1675, -0.0238, 0.1121, -0.0726, 0.0451, -0.0561, -0.1034, -0.1731,
-0.0978, -0.0009, -0.0560, -0.0512, 0.0330, 0.0864, -0.0607, 0.1163,
0.0386, 0.0593, -0.0247, 0.0877, -0.0133, -0.1258, 0.0717, -0.0142,
-0.0912, 0.0501, 0.0018, -0.0202, -0.0180, 0.0114, 0.0940, 0.0351,
0.0806, 0.0732, 0.0382, -0.0708, -0.0465, -0.0742, -0.0578, 0.0255,
0.0578, -0.0243, -0.0975, 0.0874, 0.0782, -0.0674, 0.0175, -0.1181,
-0.0230, 0.1254, -0.0579, 0.0559, 0.0722, 0.0243, 0.0534, 0.0163,
0.0034, 0.0440, 0.0009, -0.0519, 0.1262, 0.1173, -0.0548, -0.1115,
0.0491, 0.0825, 0.0372, -0.0309, -0.0457, -0.0612, -0.0178, -0.0473,
0.1347, 0.0916, 0.0274, -0.0990, 0.0637, -0.0277, -0.0795, 0.0562]), Bias: -0.06301648
169755936

tensor([-0.0720, -0.0963, 0.0154, -0.0204, -0.0556, 0.0435, 0.0412, -0.0666,
-0.0603, -0.0344, -0.0028, -0.0102, 0.0525, 0.0201, 0.0567, 0.0936,
-0.0705, 0.0744, -0.0041, 0.0013, -0.0288, 0.0749, 0.1163, 0.0002,
0.0815, 0.0769, -0.0367, 0.0201, -0.0882, 0.0938, 0.0825, -0.0742,
0.0513, 0.0475, -0.0299, 0.0050, 0.0150, -0.0962, -0.0556, -0.0049,
-0.0991, -0.0904, 0.0356, -0.0490, 0.0261, 0.1137, 0.0372, 0.0287,
-0.0628, -0.0008, 0.1105, 0.0632, 0.0025, 0.0610, 0.0719, 0.0085,
0.0703, -0.0614, 0.0394, -0.0060, -0.0168, -0.1309, -0.0513, -0.0437,
-0.0864, 0.0149, 0.0178, -0.0783, 0.0263, -0.0268, -0.0633, -0.0325,
0.0077, -0.0548, -0.0829, -0.0357, 0.0512, -0.0614, 0.0660, 0.0456,
-0.0364, 0.0186, -0.0498, 0.0778, -0.1033, -0.0714, 0.0684, 0.0194,
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-0.0528, 0.0745, -0.0132, 0.0464, 0.0602, -0.0693, -0.1169, -0.0769,
-0.0201, -0.0371, 0.0356, 0.0129, -0.0214, -0.0020, 0.0237, 0.0692,
-0.0092, -0.0494, -0.0278, -0.0268, -0.0734, -0.0908, -0.0750, -0.0193]), Bias:
0.07155153155326843

tensor([0.0975, 0.0814, -0.0369, -0.0287, -0.0775, 0.0081, 0.0473, 0.0530,
0.0693, 0.0068, -0.0895, -0.0517, -0.0654, -0.1138, 0.0409, -0.0253,
-0.0812, -0.0228, -0.0372, -0.0006, -0.0745, -0.0704, 0.1021, -0.0305,
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-0.0835, -0.0312, -0.0702, 0.1181, 0.0278, 0.1030, 0.0362, 0.0233,
-0.0515, 0.1259, -0.0335, -0.0351, 0.0740, -0.0954, -0.0023, -0.0068,
0.0131, 0.0641, 0.0474, -0.0719, -0.1076, 0.0867, 0.0943, 0.0328,
0.0139, -0.0640, -0.0362, 0.1391, 0.0026, 0.0265, 0.0738, -0.0954,
-0.0040, -0.0184, -0.0406, 0.0527, 0.0390, 0.0668, 0.0357, 0.0177,
-0.0652, -0.0824, 0.0084, 0.0003, -0.0255, -0.0888, 0.0459, -0.0859,
0.0829, -0.0736, 0.0548, -0.0576, -0.0429, 0.0893, -0.0576, 0.0664,
-0.0527, 0.1021, 0.0411, -0.0192, 0.0911, -0.0332, -0.0734, -0.0649,
-0.0524, -0.0443, 0.0253, -0.0294, -0.0234, 0.0558, 0.0277, -0.0451,
-0.0676, -0.0635, -0.0792, 0.0983, -0.0016, 0.1188, -0.0388, 0.0629,
-0.1174, -0.0758, 0.0814, -0.0804, 0.1275, -0.0205, 0.0967, -0.0347]), Bias: -
0.0003082022594753653

tensor([0.0105, -0.0138, -0.0199, 0.0049, 0.0114, -0.0200, 0.0820, -0.0224,
-0.0207, -0.0052, -0.1583, -0.0720, -0.0210, 0.0077, -0.0066, 0.1174,
0.0020, -0.0442, 0.1448, -0.0850, -0.0802, -0.0538, 0.0128, 0.0984,
-0.0216, -0.0678, -0.0634, 0.0436, -0.0820, -0.0246, -0.0341, -0.1045,
-0.0194, 0.1325, 0.1061, -0.1140, -0.0032, -0.0636, 0.1488, -0.1029,
0.1407, 0.0790, 0.0071, 0.0108, -0.0921, -0.0802, 0.0832, 0.0870,
0.1674, -0.0217, 0.0547, -0.0132, 0.0207, -0.0329, 0.0716, -0.1092,
-0.0850, -0.1185, -0.0819, -0.0332, 0.0075, 0.2001, -0.0181, 0.0100,
0.0784, -0.0590, 0.0189, 0.0231, 0.0348, 0.0559, 0.0102, -0.0451,
0.0945, -0.0643, -0.0188, 0.0227, 0.0093, 0.0976, -0.0317, -0.1084,
0.0105, 0.0545, 0.1130, 0.1418, -0.0071, 0.1218, 0.0806, 0.1502,
-0.0427, -0.1149, 0.0558, 0.0840, -0.0518, 0.0805, 0.0078, -0.0639,
-0.0522, -0.0665, -0.0565, 0.1439, -0.1801, -0.0504, -0.0647, -0.0482,
-0.0127, 0.0813, -0.0374, -0.0896, -0.0791, 0.0391, 0.0522, -0.1252,
-0.0938, -0.0716, 0.0992, 0.0896, -0.0192, -0.0475, 0.0925, 0.0356]), Bias: 0.048151880
502700806

```
tensor([ 0.0491, -0.0828, -0.0114, -0.0646, -0.0668, -0.0670, -0.0533, 0.0899,
        0.0709, -0.0150, 0.0767, 0.0419, -0.0924, -0.0221, -0.0732, -0.1081,
        0.0920, -0.0065, 0.0582, -0.0213, 0.0312, 0.0926, -0.0478, 0.0506,
        -0.0880, -0.0186, -0.0291, 0.0406, 0.0759, -0.0039, -0.0717, -0.0482,
        0.0412, -0.0500, 0.0639, -0.0058, 0.0096, -0.0744, -0.0110, -0.0022,
        0.0053, 0.0063, 0.0430, -0.0336, 0.0120, 0.0917, 0.0052, -0.0274,
        -0.0126, 0.0332, 0.0910, -0.0067, -0.0467, 0.0768, -0.0198, -0.0184,
        0.0025, 0.0510, 0.0256, -0.1045, -0.0813, 0.0865, 0.0722, -0.0577,
        0.0728, -0.0696, 0.0800, 0.0826, -0.0607, 0.0315, 0.0695, -0.0567,
        0.0641, 0.0618, 0.0190, -0.0572, 0.0688, -0.0284, 0.0694, -0.0504,
        0.0825, -0.0030, -0.0317, 0.0157, -0.0879, -0.0614, -0.0142, 0.0495,
        0.0533, 0.0637, -0.0523, -0.0396, 0.0565, -0.1166, -0.0186, -0.0323,
        -0.0758, 0.0507, 0.0093, 0.0796, -0.0439, -0.0271, 0.0559, 0.0125,
        0.0697, 0.0670, 0.0550, -0.0901, 0.0300, -0.0018, -0.0254, 0.0799,
        -0.0253, -0.0019, -0.0887, 0.0352, -0.0788, 0.0860, 0.0294, -0.0386]), Bias: -
0.09196753054857254
```

```
tensor([ 8.6617e-02, 4.1559e-02, 4.8489e-03, 3.1455e-02, -4.2962e-02,
        -4.2588e-02, -4.3113e-03, -5.1762e-02, -1.6777e-02, 2.6401e-02,
        -4.0953e-02, -7.3203e-02, -6.2276e-02, -2.2722e-02, -8.7311e-02,
        3.7736e-02, 8.9718e-03, 1.0038e-01, -3.9731e-02, -1.2300e-02,
        1.4582e-02, 2.5201e-02, 4.4937e-02, -8.6523e-02, -2.9637e-02,
        -2.5447e-02, 6.9196e-02, 7.1403e-03, 9.1886e-02, 9.4601e-02,
        -4.0116e-02, -8.9840e-02, 1.3680e-02, 4.1927e-02, 6.0232e-05,
        9.0718e-03, -4.5971e-02, -5.1814e-02, 8.0707e-03, -1.2644e-02,
        -6.3486e-02, -1.8046e-02, 4.6305e-02, -3.4666e-02, 4.0576e-02,
        2.9480e-02, 3.6990e-02, 8.7221e-02, 2.7750e-02, 5.1055e-02,
        -2.7456e-02, 4.5524e-02, 1.4144e-02, 8.0267e-02, -1.8481e-02,
        -3.8807e-02, 6.2545e-02, 8.4018e-02, -7.9968e-02, -4.7750e-02,
        4.8643e-02, -7.1982e-02, -7.1511e-02, -7.9932e-02, -2.8646e-02,
        -1.7720e-02, -7.5747e-02, -6.3798e-02, 7.6116e-02, -1.0708e-01,
        -6.4339e-02, 3.4656e-02, 9.8001e-02, -2.0341e-02, 5.6804e-02,
        1.0127e-01, -4.9697e-02, 9.0183e-03, 8.7599e-02, -1.8173e-02,
        -1.6137e-02, -1.9450e-02, 1.4153e-01, 8.4914e-02, -1.0759e-02,
        1.0164e-01, -7.2161e-02, 6.3830e-02, -1.9988e-02, -4.8626e-02,
        -8.3111e-02, 7.3078e-02, -3.2799e-02, 9.4223e-04, 5.4639e-02,
        6.5554e-03, 5.0034e-02, 7.5987e-02, -9.5669e-02, 2.3984e-02,
        1.9288e-02, 6.0663e-02, -8.8152e-02, 8.8222e-02, -5.6103e-02,
        -3.8375e-02, 1.0925e-01, 4.1244e-02, -8.0433e-02, 4.1647e-03,
        -1.0848e-02, -7.8302e-02, -4.8262e-03, -1.1410e-01, -7.2020e-02,
        5.8946e-02, 1.0577e-01, -1.8929e-02, 6.8200e-02, -8.4266e-02]), Bias: -0.064853847026824
```

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```
tensor([ 0.0325, 0.0995, 0.0321, -0.0474, 0.0682, -0.0608, 0.0663, -0.0498,
        -0.0369, 0.0902, 0.0777, -0.1526, 0.0669, 0.0592, 0.0717, 0.0584,
        0.0724, -0.0649, 0.1034, -0.0855, 0.0894, -0.0459, 0.0690, 0.0529,
        -0.0721, -0.0621, 0.0302, 0.0003, -0.0075, -0.0153, 0.0502, 0.0461,
        -0.0189, -0.0497, 0.0045, -0.0041, -0.1250, 0.0519, -0.1071, 0.0187,
        -0.0951, -0.0349, 0.0029, 0.0739, -0.0177, -0.0448, -0.0839, 0.0126,
        -0.1701, 0.0838, 0.0174, 0.0410, 0.0042, -0.0195, -0.0562, 0.0176,
        0.0963, -0.0798, 0.1026, 0.0028, -0.0750, -0.1578, -0.1050, 0.0574,
        0.0519, 0.0791, -0.0606, -0.0553, -0.0839, -0.1035, -0.0005, -0.0713,
        -0.0349, 0.0074, 0.0875, 0.1160, -0.0098, -0.0643, -0.0766, 0.0578,
        0.0995, 0.0243, 0.0240, -0.0640, 0.0626, 0.0393, 0.0139, -0.1000,
        0.0344, 0.0312, -0.0583, 0.0751, 0.0023, 0.0547, -0.0384, 0.0122,
        -0.0631, -0.0840, 0.0921, -0.0492, 0.0606, 0.0144, -0.0831, 0.0985,
        0.0639, -0.0572, 0.0489, -0.0538, 0.0819, 0.1122, -0.1066, 0.0102,
        -0.0723, -0.0395, -0.0748, 0.0330, 0.1358, -0.1145, 0.0975, -0.0137]), Bias:
0.08157264441251755
```

```
tensor([ 0.0762, -0.0194, -0.0944, 0.0890, -0.0287, -0.0132, 0.0096, 0.0444,
        -0.0592, -0.0460, 0.0914, -0.0494, -0.0268, -0.0688, -0.0720, 0.0153,
        -0.0791, -0.0560, 0.0414, 0.0305, -0.0209, 0.0763, 0.0340, 0.0889,
        -0.0821, 0.0073, 0.0182, -0.0744, -0.0742, -0.0833, 0.0803, -0.0382,
        -0.0176, -0.0629, -0.0547, -0.0659, 0.0417, -0.0313, -0.0499, 0.0694,
        -0.0718, -0.0012, -0.0262, -0.0626, 0.0898, 0.0585, -0.0283, -0.0822,
        0.0502, -0.0149, 0.0536, 0.0390, -0.0162, 0.0187, 0.0153, 0.0133,
        0.0141, -0.0257, 0.0634, -0.0028, -0.0323, -0.0507, 0.0500, -0.0099,
        0.0433, -0.0557, 0.0372, -0.0830, 0.0326, -0.0878, -0.0866, -0.0801,
        0.0858, 0.0843, 0.0850, 0.0558, -0.0367, 0.0393, -0.0757, 0.0270,
        0.0781, -0.0481, -0.0216, -0.0734, -0.0080, -0.0912, 0.0058, 0.0544,
        -0.0366, -0.0743, -0.0616, -0.0800, -0.0591, -0.0670, 0.0266, -0.0205,
        0.0365, 0.0466, 0.0280, -0.0145, 0.0762, -0.0277, -0.0402, 0.0612,
        -0.0011, -0.0530, -0.0903, -0.0459, 0.0344, -0.0370, 0.0502, -0.0688,
        -0.0750, 0.0228, 0.0041, -0.0625, -0.0584, -0.0389, -0.0185, 0.0764]), Bias: -
0.03297807276248932
```

```
tensor([ 0.0708,  0.0216, -0.0562,  0.0371, -0.0274,  0.0116,  0.0854,  0.0428,
        -0.0163,  0.0471,  0.0964, -0.0687, -0.0575,  0.0667,  0.0273,  0.0337,
         0.0444,  0.0056, -0.0244, -0.0781,  0.1097, -0.0842, -0.0031,  0.0515,
         0.0078,  0.0416,  0.0622,  0.0801, -0.0080,  0.0317, -0.0593,  0.0512,
         0.0950, -0.0041, -0.0215, -0.0472, -0.0363,  0.0455,  0.0602, -0.0442,
         0.0435,  0.0737, -0.0113, -0.0805,  0.0066, -0.0144, -0.0009,  0.1075,
         0.0405,  0.0454, -0.0232,  0.0385,  0.0955,  0.0532,  0.0816, -0.0730,
        -0.0910,  0.0244, -0.0484,  0.0181,  0.0612,  0.0486,  0.0743, -0.0293,
         0.0375, -0.0182,  0.0146, -0.0382,  0.0424,  0.1243,  0.0260, -0.0941,
         0.0688, -0.0006, -0.0904,  0.0305,  0.0230, -0.0243,  0.0328,  0.0498,
         0.0022, -0.0182, -0.0122, -0.0276, -0.0506, -0.0669, -0.0560,  0.0540,
        -0.0759, -0.1008,  0.0119, -0.0785,  0.0524,  0.0976, -0.0331, -0.0973,
        -0.0844,  0.0124,  0.0581, -0.0242,  0.0610, -0.1201,  0.0791,  0.0642,
         0.0341, -0.1132, -0.0036, -0.0638, -0.0203, -0.0243,  0.0162,  0.0090,
         0.0026,  0.0112, -0.0515,  0.0116, -0.1145,  0.1239,  0.0875,  0.0426]), Bias: -0.05253225
564956665
```

FC2 Outputs

In [64]:

```
output = model.fc2.forward(model.fc1.forward(torch.flatten(
    model.conv3.forward(
        model.pool2.forward(
            model.conv2.forward(
                model.pool1.forward(
                    model.conv1.forward(input_img))))), start_dim=1))) [0].detach().numpy()

print(output)
```

```
[ 23.552961 -49.215607 -25.085241  13.662104 -8.299734 -10.060858
 -60.111736  61.66301  27.06371  50.762844]
```

FC2 Weights

In [70]:

```
for i in range(10):
    print("{} , Bias: {}".format(param[8][i].data, param[9][i]))
```

```
tensor([ 0.2247,  0.0666, -0.0173,  0.0577,  0.2161, -0.0485, -0.0409,  0.0837,
         0.1539,  0.1229, -0.1730,  0.1596, -0.1262, -0.1334, -0.0585,  0.3362,
         0.0138,  0.0371, -0.0085, -0.0119, -0.1588,  0.1204,  0.0696,  0.0406,
        -0.2924, -0.1964,  0.1821,  0.0314,  0.0067, -0.0701, -0.0748, -0.0816,
         0.0532,  0.0252, -0.3614,  0.0334,  0.1708,  0.4232,  0.0031, -0.2386,
         0.0274, -0.0044,  0.1305, -0.0548,  0.0448, -0.0920,  0.0976,  0.2564,
        -0.0944, -0.1692,  0.1769, -0.1532,  0.0522,  0.0225, -0.1104,  0.2434,
        -0.1893,  0.1657,  0.0418,  0.0497, -0.2259, -0.3196, -0.2066, -0.2014,
        -0.1013,  0.0393,  0.1891, -0.0401,  0.0840,  0.1771,  0.0790, -0.2266,
        -0.0446,  0.0565, -0.1395, -0.1965,  0.1558,  0.0129,  0.0649, -0.1003,
         0.0430, -0.1636,  0.0835, -0.0129]), Bias: -0.0030939574353396893
```

```
tensor([-0.2229,  0.1105, -0.0011,  0.0225, -0.1771,  0.1404,  0.2437,  0.0211,
        -0.3798, -0.0742,  0.2421, -0.1551,  0.1010, -0.1388, -0.3110, -0.1221,
         0.3629,  0.0205, -0.0788,  0.2218,  0.0667, -0.1643, -0.0089, -0.1545,
        -0.0997,  0.0202,  0.0465,  0.0897, -0.0961, -0.0346,  0.0553, -0.0700,
        -0.0604, -0.0448,  0.1986, -0.1166,  0.1040, -0.1153,  0.1124,  0.0084,
         0.0739, -0.0907, -0.2444,  0.0510, -0.0035,  0.1199,  0.1688,  0.0549,
         0.3375, -0.1290, -0.2428, -0.3023,  0.0838, -0.1179,  0.2231, -0.2959,
         0.0444,  0.0278, -0.1466,  0.1497, -0.0832,  0.0722, -0.2273, -0.0903,
        -0.0615,  0.0041, -0.2128,  0.3171, -0.3425,  0.0925, -0.0956,  0.0007,
         0.0759, -0.0529, -0.0692, -0.0666,  0.0197,  0.2072,  0.1540,  0.0532,
         0.1146,  0.1467,  0.0246, -0.1508]), Bias: 0.35495075583457947
```

```
tensor([ 1.5597e-01,  1.9101e-01, -1.7164e-02,  2.6150e-01,  1.8063e-02,
        -3.4766e-01, -1.4609e-01,  5.1200e-02, -1.7492e-01,  9.2746e-02,
         1.0943e-01,  1.4438e-01,  8.1580e-02, -2.0410e-01, -2.6126e-01,
         1.9214e-01, -1.9392e-01, -3.3860e-01,  2.7289e-02, -3.1423e-01,
         1.0856e-01, -8.5350e-02,  7.2428e-02,  3.1600e-01, -1.0102e-01,
```

6.4998e-02, 2.9957e-01, 1.6039e-01, 8.0491e-03, -3.0455e-03,
-9.8537e-02, 1.4677e-01, 7.1146e-02, 2.8007e-01, -1.0173e-01,
-2.2457e-02, -1.2677e-01, 3.0158e-03, 2.0070e-01, 3.4617e-01,
6.3475e-02, -5.5316e-02, -5.5186e-02, 1.1197e-02, -7.2911e-02,
-1.0993e-02, -3.7991e-01, -1.6080e-01, -4.3143e-02, 1.0141e-01,
-1.1799e-01, 1.3856e-01, -1.2319e-01, 8.5144e-02, 7.3976e-02,
1.3025e-01, 1.3225e-01, 2.0169e-01, -1.1377e-01, 1.2264e-01,
2.3503e-01, 1.2986e-01, 1.7276e-01, 9.7000e-02, -1.4963e-01,
-7.4600e-02, 1.8780e-04, 4.8864e-02, -2.9526e-01, 2.3683e-01,
1.3501e-01, -2.9452e-01, -3.2929e-01, -2.0282e-01, -1.7406e-02,
2.9956e-01, 1.1886e-03, -1.0462e-01, -3.2859e-01, 7.6123e-02,
4.2112e-02, 2.4303e-01, -1.1214e-01, -1.1983e-01)), Bias: 0.07627000659704208

tensor([0.0403, 0.1951, 0.0691, 0.3783, 0.1976, 0.2299, 0.3300, 0.0314,
-0.0710, 0.0979, -0.1902, -0.1693, 0.2668, -0.0497, 0.1071, -0.0311,
-0.2294, -0.2702, -0.0672, -0.0773, -0.0793, -0.0675, -0.0706, -0.1265,
0.2379, -0.0824, -0.2885, 0.3600, 0.1178, -0.1690, 0.0475, 0.1646,
0.0066, -0.2123, -0.2041, -0.1831, -0.1006, -0.3060, -0.2570, 0.1596,
0.0039, -0.0315, 0.1481, 0.0941, 0.0249, 0.1083, 0.3073, -0.1759,
-0.2957, 0.1372, 0.2350, 0.2604, 0.0554, 0.0426, -0.0171, -0.2519,
-0.1476, -0.2022, -0.0685, -0.2620, 0.0765, -0.1240, -0.0029, 0.2659,
-0.1535, 0.0191, -0.0129, 0.1356, 0.1645, -0.1207, -0.2086, -0.2178,
-0.0049, -0.1513, 0.1579, -0.1461, -0.1220, 0.0587, -0.2184, 0.1079,
-0.0214, 0.0305, 0.0451, 0.0623]), Bias: 0.049240075051784515

tensor([-0.0981, -0.1283, 0.1311, -0.3723, -0.2245, 0.0133, -0.0698, 0.0745,
0.0756, 0.0334, 0.1426, -0.3585, -0.3260, 0.4499, 0.0947, -0.2564,
0.0411, 0.1691, -0.0552, 0.1004, -0.1541, -0.0239, -0.0607, 0.0919,
0.1746, -0.0689, -0.2585, -0.4483, 0.0237, 0.0284, -0.0530, -0.1656,
0.0514, -0.0010, -0.0530, -0.0262, 0.1857, -0.0089, -0.0055, 0.1331,
-0.1284, 0.0196, -0.1014, -0.0592, -0.0608, 0.0535, -0.0356, -0.1565,
0.0801, -0.1575, 0.0728, -0.1417, 0.0218, 0.1509, 0.1738, 0.0993,
0.3758, -0.0027, 0.0027, 0.3836, 0.0300, -0.1993, -0.2243, -0.1468,
0.2934, -0.0286, -0.1607, -0.3234, -0.1530, -0.0978, 0.2680, 0.2855,
0.0549, -0.1839, 0.3931, -0.1167, -0.0508, -0.1317, -0.0055, -0.0848,
-0.0451, -0.1914, 0.0872, 0.0653]), Bias: -0.0920160561800003

tensor([-0.0486, -0.2187, -0.0909, 0.1400, -0.2573, 0.0595, -0.0736, -0.1937,
0.1984, -0.0030, 0.0093, 0.1552, -0.0809, -0.0201, 0.0561, -0.1405,
-0.1192, -0.1712, -0.0251, -0.1057, -0.2601, -0.0379, 0.0283, -0.3034,
0.0484, -0.0151, -0.1105, 0.2661, -0.0742, 0.1505, 0.0214, -0.0475,
0.0986, 0.0343, 0.3436, 0.1634, -0.0665, -0.0913, -0.0519, -0.1207,
0.0671, -0.1150, -0.0642, -0.1058, 0.0911, -0.1309, 0.1520, 0.1029,
0.0596, 0.2050, -0.2279, 0.1212, 0.0197, 0.3137, 0.0276, -0.1313,
-0.1070, -0.2103, -0.0049, -0.2630, -0.0247, -0.0238, -0.0605, -0.1103,
0.0251, -0.0915, 0.0649, -0.1356, 0.5526, -0.0892, 0.1202, 0.2933,
-0.0453, -0.0934, -0.2547, -0.0595, -0.0032, -0.0067, 0.3370, 0.0427,
0.1282, -0.0454, -0.0717, 0.0744]), Bias: -0.18751221895217896

tensor([-0.1157, -0.0413, 0.0529, -0.2517, -0.1765, -0.1979, -0.3387, -0.0341,
0.2408, -0.0323, 0.0838, -0.0249, 0.3226, -0.0132, 0.0687, -0.0854,
-0.0449, 0.2735, 0.0895, -0.0623, -0.1408, -0.0519, 0.0550, -0.2065,
-0.1090, 0.1248, 0.0225, -0.2863, 0.0799, 0.1928, -0.0530, 0.1645,
0.0385, 0.1933, 0.0112, 0.0964, 0.0614, -0.1446, 0.2006, -0.0955,
0.0345, 0.0791, 0.0640, -0.0726, 0.3332, -0.1177, -0.0605, 0.1275,
0.1267, -0.2127, 0.1103, -0.2685, -0.0504, -0.0777, -0.0428, 0.4471,
0.1810, -0.0028, -0.0558, -0.1491, 0.1746, -0.0281, -0.0189, -0.0917,
-0.4158, 0.0617, -0.1543, -0.2423, 0.0751, -0.2038, -0.1914, 0.0403,
-0.0875, 0.1481, -0.3887, 0.0303, 0.0133, -0.0084, 0.2088, 0.0402,
-0.0589, 0.0056, 0.0813, 0.2223]), Bias: -0.0907210111618042

tensor([0.1689, -0.0858, 0.2315, -0.1977, 0.1120, -0.0285, 0.0333, -0.1576,
-0.1118, 0.0803, 0.1125, -0.0628, -0.0929, 0.0253, 0.1572, -0.0746,
0.0655, 0.3082, -0.0811, 0.2913, -0.0343, 0.4361, 0.1987, -0.0851,
0.2292, -0.1146, 0.3228, 0.0363, 0.0048, 0.0886, 0.1638, -0.1326,
0.0112, -0.3679, -0.0258, 0.0695, -0.1063, -0.2204, -0.2208, -0.0282,
-0.0499, -0.0595, -0.1611, -0.0538, -0.3365, 0.0202, 0.0699, 0.3519,
-0.0685, -0.0477, 0.1137, -0.1159, 0.1574, -0.1646, -0.2621, -0.2900,
0.1143, -0.0697, -0.0878, -0.2772, -0.0249, 0.0762, 0.2174, -0.2659,
0.3116, 0.0683, 0.2691, -0.1520, -0.2041, 0.1987, 0.1820, -0.2052,
0.2923, -0.0218, 0.2825, 0.3097, -0.1317, 0.1287, -0.2536, 0.0311,
0.0874, 0.1044, 0.1093, -0.1473]), Bias: 0.02031785622239113

tensor([0.0264, -0.1019, -0.0801, -0.0248, -0.0656, 0.1528, -0.0393, -0.0539,
0.2552, -0.1831, -0.0443, -0.0969, 0.0668, 0.0091, 0.0911, 0.2436,
-0.2979, 0.0352, -0.0017, 0.2746, 0.1502, 0.0162, -0.1962, 0.0390,
-0.1503, 0.0985, -0.0889, -0.0384, -0.1302, 0.0234, -0.1335, -0.0014,

```
0.0661, -0.1455, -0.0943, -0.0534, -0.0029, -0.0719, 0.0388, -0.1244,  
-0.0885, -0.0497, 0.2904, 0.0115, -0.2261, 0.0212, -0.0408, -0.1127,  
-0.1473, -0.1222, 0.1248, 0.1606, 0.1808, 0.1014, -0.1514, 0.2481,  
0.0767, 0.0453, 0.0689, 0.2660, 0.1254, 0.0334, 0.2436, 0.2363,  
-0.0323, 0.0980, -0.0831, 0.1090, -0.1384, 0.1277, 0.0384, 0.3386,  
0.0597, -0.0102, -0.1846, -0.0061, 0.0806, 0.0102, 0.0105, 0.0424,  
-0.2586, -0.1145, 0.1073, 0.0684]), Bias: -0.10878467559814453
```

```
tensor([ 0.0210, -0.2195, -0.0214, 0.0037, 0.0712, 0.0531, -0.1628, -0.1276,  
-0.0362, -0.0700, 0.0010, 0.3600, -0.3176, 0.2059, -0.0276, -0.2707,  
0.2902, -0.0118, 0.0432, -0.1194, 0.2989, -0.2326, -0.1465, 0.1856,  
0.0085, -0.2387, -0.1807, -0.2581, -0.0917, -0.0652, -0.0583, -0.0322,  
0.0747, 0.1441, -0.1023, 0.0208, -0.3123, 0.3166, -0.3162, -0.0901,  
0.0840, -0.0179, 0.1411, 0.0477, 0.3045, 0.0982, -0.1545, -0.2240,  
0.0872, 0.0723, 0.1691, 0.0301, -0.1409, -0.0599, 0.2067, -0.1077,  
-0.3375, -0.1227, 0.0373, 0.1048, -0.4432, 0.2750, 0.1338, 0.1067,  
0.4295, -0.0109, 0.0099, 0.2653, 0.2865, -0.4557, -0.1134, 0.0086,  
-0.0232, 0.1728, 0.1044, -0.1547, 0.1512, -0.2320, 0.1403, 0.0589,  
0.0015, -0.3014, 0.1064, 0.0945]), Bias: -0.0732237845659256
```