

Convolutional Neural Networks

Project: Write an Algorithm for a Dog Identification App

In this notebook, some template code has already been provided for you, and you will need to implement additional functionality to successfully complete this project. You will not need to modify the included code beyond what is requested. Sections that begin with '**(IMPLEMENTATION)**' in the header indicate that the following block of code will require additional functionality which you must provide. Instructions will be provided for each section, and the specifics of the implementation are marked in the code block with a 'TODO' statement. Please be sure to read the instructions carefully!

Note: Once you have completed all of the code implementations, you need to finalize your work by exporting the Jupyter Notebook as an HTML document. Before exporting the notebook to html, all of the code cells need to have been run so that reviewers can see the final implementation and output. You can then export the notebook by using the menu above and navigating to **File -> Download as -> HTML (.html)**. Include the finished document along with this notebook as your submission.

In addition to implementing code, there will be questions that you must answer which relate to the project and your implementation. Each section where you will answer a question is preceded by a '**Question X**' header. Carefully read each question and provide thorough answers in the following text boxes that begin with '**Answer:**'. Your project submission will be evaluated based on your answers to each of the questions and the implementation you provide.

Note: Code and Markdown cells can be executed using the **Shift + Enter** keyboard shortcut. Markdown cells can be edited by double-clicking the cell to enter edit mode.

The rubric contains *optional* "Stand Out Suggestions" for enhancing the project beyond the minimum requirements. If you decide to pursue the "Stand Out Suggestions", you should include the code in this Jupyter notebook.

Why We're Here

In this notebook, you will make the first steps towards developing an algorithm that could be used as part of a mobile or web app. At the end of this project, your code will accept any user-supplied image as input. If a dog is detected in the image, it will provide an estimate of the dog's breed. If a human is detected, it will provide an estimate of the dog breed that is most resembling. The image below displays potential sample output of your finished project (... but we expect that each student's algorithm will behave differently!).



In this real-world setting, you will need to piece together a series of models to perform different tasks; for instance, the algorithm that detects humans in an image will be different from the CNN that infers dog breed. There are many points of possible failure, and no perfect algorithm exists. Your imperfect solution will nonetheless create a fun user experience!

The Road Ahead

We break the notebook into separate steps. Feel free to use the links below to navigate the notebook.

- [Step 0: Import Datasets](#)
- [Step 1: Detect Humans](#)
- [Step 2: Detect Dogs](#)
- [Step 3: Create a CNN to Classify Dog Breeds \(from Scratch\)](#)
- [Step 4: Create a CNN to Classify Dog Breeds \(using Transfer Learning\)](#)
- [Step 5: Write your Algorithm](#)
- [Step 6: Test Your Algorithm](#)

Step 0: Import Datasets

Make sure that you've downloaded the required human and dog datasets:

- Download the [dog dataset](#). Unzip the folder and place it in this project's home directory, at the location `/dogImages`.
- Download the [human dataset](#). Unzip the folder and place it in the home directory, at location `/lfw`.

Note: If you are using a Windows machine, you are encouraged to use [7zip](#) to extract the folder.

In the code cell below, we save the file paths for both the human (LFW) dataset and dog dataset in the numpy arrays `human_files` and `dog_files`.

```
import numpy as np
from glob import glob
import os

# load filenames for human and dog images
```

```

human_files = np.array(glob("/data/lfw/*/*"))
dog_files = np.array(glob(("data/dog_images/*/*/*")))

# print number of images in each dataset
print('There are %d total human images.' % len(human_files))
print('There are %d total dog images.' % len(dog_files))

```

▼ Step 1: Detect Humans

In this section, we use OpenCV's implementation of [Haar feature-based cascade classifiers](#) to detect human faces in images.

OpenCV provides many pre-trained face detectors, stored as XML files on [github](#). We have downloaded one of these detectors and stored it in the haarcascades directory. In the next code cell, we demonstrate how to use this detector to find human faces in a sample image.

```

import cv2
import matplotlib.pyplot as plt
%matplotlib inline

# extract pre-trained face detector
path = os.path.join("haarcascades/haarcascade_frontalface_alt.xml")
face_cascade = cv2.CascadeClassifier(path)
# load color (BGR) image
img = cv2.imread(human_files[0])
# convert BGR image to grayscale
gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)

# find faces in image
faces = face_cascade.detectMultiScale(gray)

# print number of faces detected in the image
print('Number of faces detected:', len(faces))

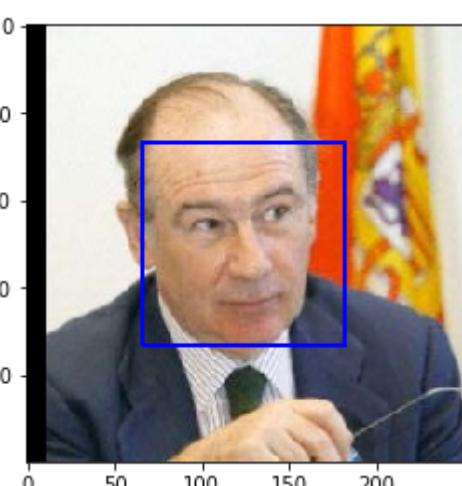
# get bounding box for each detected face
for (x,y,w,h) in faces:
    # add bounding box to color image
    cv2.rectangle(img,(x,y),(x+w,y+h),(255,0,0),2)

# convert BGR image to RGB for plotting
cv_rgb = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)

# display the image, along with bounding box
plt.imshow(cv_rgb)
plt.show()

```

Number of faces detected: 1



Before using any of the face detectors, it is standard procedure to convert the images to grayscale. The `detectMultiScale` function executes the classifier stored in `face_cascade` and takes the grayscale image as a parameter.

In the above code, `faces` is a numpy array of detected faces, where each row corresponds to a detected face. Each detected face is a 1D array with four entries that specifies the bounding box of the detected face. The first two entries in the array (extracted in the above code as `x` and `y`) specify the horizontal and vertical positions of the top left corner of the bounding box. The last two entries in the array (extracted here as `w` and `h`) specify the width and height of the box.

▼ Write a Human Face Detector

We can use this procedure to write a function that returns `True` if a human face is detected in an image and `False` otherwise. This function, aptly named `face_detector`, takes a string-valued file path to an image as input and appears in the code block below.

```

# returns "True" if face is detected in image stored at img_path
def face_detector(img_path):
    img = cv2.imread(img_path)
    gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
    faces = face_cascade.detectMultiScale(gray)

```

```
return len(faces) > 0
```

▼ (IMPLEMENTATION) Assess the Human Face Detector

Question 1: Use the code cell below to test the performance of the `face_detector` function.

- What percentage of the first 100 images in `human_files` have a detected human face?
- What percentage of the first 100 images in `dog_files` have a detected human face?

Ideally, we would like 100% of human images with a detected face and 0% of dog images with a detected face. You will see that our algorithm falls short of this goal, but still gives acceptable performance. We extract the file paths for the first 100 images from each of the datasets and store them in the numpy arrays `human_files_short` and `dog_files_short`.

Answer:

Detected human faces in human files >> 99.0 %

Detected human faces in dog files >> 18.0 %

```
from tqdm import tqdm

human_files_short = human_files[:100]
dog_files_short = dog_files[:100]

#--# Do NOT modify the code above this line. #--#

## TODO: Test the performance of the face_detector algorithm
## on the images in human_files_short and dog_files_short.

faces = 0
for image in human_files_short:
    if face_detector(image):
        faces += 1

human_faces_accuracy = faces / len(human_files_short) * 100
print("Detected human faces in human files >>", human_faces_accuracy, '%')

human_faces_accuracy = 0

faces_2 = 0
for image in dog_files_short:
    if face_detector(image):
        faces_2 += 1

human_faces_accuracy = faces_2 / len(dog_files_short) * 100
print("Detected human faces in dog files >>", human_faces_accuracy, '%')

⇒ Detected human faces in human files >> 99.0 %
    Detected human faces in dog files >> 18.0 %
```

We suggest the face detector from OpenCV as a potential way to detect human images in your algorithm, but you are free to explore other approaches, especially approaches that make use of deep learning :). Please use the code cell below to design and test your own face detection algorithm. If you decide to pursue this *optional* task, report performance on `human_files_short` and `dog_files_short`.

```
### (Optional)
### TODO: Test performance of another face detection algorithm.
### Feel free to use as many code cells as needed.
```

▼ Step 2: Detect Dogs

In this section, we use a [pre-trained model](#) to detect dogs in images.

Obtain Pre-trained VGG-16 Model

The code cell below downloads the VGG-16 model, along with weights that have been trained on [ImageNet](#), a very large, very popular dataset used for image classification and other vision tasks. ImageNet contains over 10 million URLs, each linking to an image containing an object from one of [1000 categories](#).

```
import torch
import torchvision.models as models

# define VGG16 model
VGG16 = models.vgg16(pretrained=True)

# check if CUDA is available
use_cuda = torch.cuda.is_available()
```

```

# move model to GPU if CUDA is available
if use_cuda:
    VGG16 = VGG16.cuda()

[?] Downloading: "https://download.pytorch.org/models/vgg16-397923af.pth" to /root/.cache/torch/checkpoints/vgg16-397923af.pth
100%|██████████| 528M/528M [00:24<00:00, 22.3MB/s]

print(use_cuda)
VGG16

[?] True
VGG(
  (features): Sequential(
    (0): Conv2d(3, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (1): ReLU(inplace=True)
    (2): Conv2d(64, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (3): ReLU(inplace=True)
    (4): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1, ceil_mode=False)
    (5): Conv2d(64, 128, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (6): ReLU(inplace=True)
    (7): Conv2d(128, 128, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (8): ReLU(inplace=True)
    (9): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1, ceil_mode=False)
    (10): Conv2d(128, 256, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (11): ReLU(inplace=True)
    (12): Conv2d(256, 256, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (13): ReLU(inplace=True)
    (14): Conv2d(256, 256, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (15): ReLU(inplace=True)
    (16): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1, ceil_mode=False)
    (17): Conv2d(256, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (18): ReLU(inplace=True)
    (19): Conv2d(512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (20): ReLU(inplace=True)
    (21): Conv2d(512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (22): ReLU(inplace=True)
    (23): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1, ceil_mode=False)
    (24): Conv2d(512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (25): ReLU(inplace=True)
    (26): Conv2d(512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (27): ReLU(inplace=True)
    (28): Conv2d(512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (29): ReLU(inplace=True)
    (30): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1, ceil_mode=False)
  )
  (avgpool): AdaptiveAvgPool2d(output_size=(7, 7))
  (classifier): Sequential(
    (0): Linear(in_features=25088, out_features=4096, bias=True)
    (1): ReLU(inplace=True)
    (2): Dropout(p=0.5, inplace=False)
    (3): Linear(in_features=4096, out_features=4096, bias=True)
    (4): ReLU(inplace=True)
    (5): Dropout(p=0.5, inplace=False)
    (6): Linear(in_features=4096, out_features=1000, bias=True)
  )
)
)

```

Given an image, this pre-trained VGG-16 model returns a prediction (derived from the 1000 possible categories in ImageNet) for the object that is contained in the image.

▼ (IMPLEMENTATION) Making Predictions with a Pre-trained Model

In the next code cell, you will write a function that accepts a path to an image (such as

'dogImages/train/001.Affenpinscher/Affenpinscher_00001.jpg') as input and returns the index corresponding to the ImageNet class that is predicted by the pre-trained VGG-16 model. The output should always be an integer between 0 and 999, inclusive.

Before writing the function, make sure that you take the time to learn how to appropriately pre-process tensors for pre-trained models in the [PyTorch documentation](#).

```

from PIL import Image
import torchvision.transforms as transforms

# Set PIL to be tolerant of image files that are truncated.
from PIL import ImageFile
ImageFile.LOAD_TRUNCATED_IMAGES = True

def VGG16_predict(img_path):
    """
    Use pre-trained VGG-16 model to obtain index corresponding to
    predicted ImageNet class for image at specified path
    """

    Args:
        img_path: Path to image that will be passed to your model
    Returns:
        index: Index of the predicted class for the image
    """

```

```

... 8 ...
    img_path: path to an image

Returns:
    Index corresponding to VGG-16 model's prediction
...

## TODO: Complete the function.
## Load and pre-process an image from the given img_path
## Return the *index* of the predicted class for that image

transform = transforms.Compose([transforms.Resize((250,250)),

                                transforms.ToTensor(),
                                transforms.Normalize(
                                    mean=[0.485, 0.456, 0.406],
                                    std=[0.229, 0.224, 0.225]),
                                ])

img = Image.open(img_path).convert('RGB')

img = transform(img).unsqueeze(0)
img = img.cuda()
output = VGG16(img)

#return index of highest class
_, pred = torch.max(output, 1)

return pred # predicted class index

```

▼ (IMPLEMENTATION) Write a Dog Detector

While looking at the [dictionary](#), you will notice that the categories corresponding to dogs appear in an uninterrupted sequence and correspond to dictionary keys 151-268, inclusive, to include all categories from 'Chihuahua' to 'Mexican hairless'. Thus, in order to check to see if an image is predicted to contain a dog by the pre-trained VGG-16 model, we need only check if the pre-trained model predicts an index between 151 and 268 (inclusive).

Use these ideas to complete the `dog_detector` function below, which returns `True` if a dog is detected in an image (and `False` if not).

```

### returns "True" if a dog is detected in the image stored at img_path
def dog_detector(img_path):
    ## TODO: Complete the function.

    return True if VGG16_predict(img_path) in range(151,268) else False

```

▼ (IMPLEMENTATION) Assess the Dog Detector

Question 2: Use the code cell below to test the performance of your `dog_detector` function.

- What percentage of the images in `human_files_short` have a detected dog?
- What percentage of the images in `dog_files_short` have a detected dog?

Answer: Detected dogs in human files >> 0.0 %

Detected dogs in dog files >> 94.0 %

```

### TODO: Test the performance of the dog_detector function
### on the images in human_files_short and dog_files_short.

```

```

dogs_detected = 0

for image in human_files_short:
    if dog_detector(image):
        dogs_detected += 1

dogs_detected = dogs_detected / len(human_files_short) * 100
print("Detected dogs in human files >>", dogs_detected, '%')

```

```

dogs_detected = 0
for image in dog_files_short:
    if dog_detector(image):
        dogs_detected += 1
dogs_detected = dogs_detected / len(dog_files_short) * 100
print("Detected dogs in dog files >>", dogs_detected, '%')

```

→ Detected dogs in human files >> 0.0 %
Detected dogs in dog files >> 94.0 %

We suggest VGG-16 as a potential network to detect dog images in your algorithm, but you are free to explore other pre-trained networks (such as [Inception-v3](#), [ResNet-50](#), etc). Please use the code cell below to test other pre-trained PyTorch models. If you decide to pursue this *optional* task, report performance on `human_files_short` and `dog_files_short`.

```
### (Optional)  
### TODO: Report the performance of another pre-trained network.  
### Feel free to use as many code cells as needed.
```

▼ Step 3: Create a CNN to Classify Dog Breeds (from Scratch)

Now that we have functions for detecting humans and dogs in images, we need a way to predict breed from images. In this step, you will create a CNN that classifies dog breeds. You must create your CNN *from scratch* (so, you can't use transfer learning yet!), and you must attain a test accuracy of at least 10%. In Step 4 of this notebook, you will have the opportunity to use transfer learning to create a CNN that attains greatly improved accuracy.

We mention that the task of assigning breed to dogs from images is considered exceptionally challenging. To see why, consider that even a *human* would have trouble distinguishing between a Brittany and a Welsh Springer Spaniel.



It is not difficult to find other dog breed pairs with minimal inter-class variation (for instance, Curly-Coated Retrievers and American Water Spaniels).



Likewise, recall that labradors come in yellow, chocolate, and black. Your vision-based algorithm will have to conquer this high intra-class variation to determine how to classify all of these different shades as the same breed.

Yellow Labrador | Chocolate Labrador | Black Labrador



We also mention that random chance presents an exceptionally low bar: setting aside the fact that the classes are slightly imbalanced, a random guess will provide a correct answer roughly 1 in 133 times, which corresponds to an accuracy of less than 1%.

Remember that the practice is far ahead of the theory in deep learning. Experiment with many different architectures, and trust your intuition. And, of course, have fun!

(IMPLEMENTATION) Specify Data Loaders for the Dog Dataset

Use the code cell below to write three separate [data loaders](#) for the training, validation, and test datasets of dog images (located at `dogImages/train`, `dogImages/valid`, and `dogImages/test`, respectively). You may find [this documentation on custom datasets](#) to be a useful resource. If you are interested in augmenting your training and/or validation data, check out the wide variety of [transforms](#)!

```
import os  
from torchvision import datasets  
  
### TODO: Write data loaders for training, validation, and test sets  
## Specify appropriate transforms, and batch_sizes  
  
train_transform = transforms.Compose([transforms.Resize((256,256)),  
                                    transforms.RandomRotation(180),  
                                    transforms.RandomHorizontalFlip(),  
                                    transforms.ToTensor(),  
                                    transforms.Normalize(  
                                        mean=[0.485, 0.456, 0.406],  
                                        std=[0.229, 0.224, 0.225]),  
                                    ])  
test_transform = transforms.Compose([transforms.Resize((256,256)),  
                                    transforms.ToTensor(),  
                                    transforms.Normalize(  
                                        mean=[0.485, 0.456, 0.406],  
                                        std=[0.229, 0.224, 0.225]),  
                                    ])  
  
train_dataset = datasets.ImageFolder("/data/dog_images/train", transform = train_transform)  
test_dataset = datasets.ImageFolder("/data/dog_images/test", transform = test_transform)  
validation_dataset = datasets.ImageFolder("/data/dog_images/valid"  transform = test_transform)
```

```

validation_dataset = datasets.ImageFolder('data/valg_images/val', transform=transform)
train_loader = torch.utils.data.DataLoader(train_dataset, batch_size=40, shuffle=True)
test_loader = torch.utils.data.DataLoader(test_dataset, batch_size=40, shuffle=True)
validation_loader = torch.utils.data.DataLoader(validation_dataset, batch_size=40, shuffle=True)

loaders_scratch = {'train':train_loader, 'test':test_loader, 'valid':validation_loader}

```

Question 3: Describe your chosen procedure for preprocessing the data.

- How does your code resize the images (by cropping, stretching, etc)? What size did you pick for the input tensor, and why?
- Did you decide to augment the dataset? If so, how (through translations, flips, rotations, etc)? If not, why not?

Answer:

Images are resized to 256x256

AUGMENTATION:

1. Random rotation 180 degrees
2. Random horizontal flip

▼ (IMPLEMENTATION) Model Architecture

Create a CNN to classify dog breed. Use the template in the code cell below.

```

import torch.nn as nn
import torch.nn.functional as F

# define the CNN architecture
class Net(nn.Module):
    """ TODO: choose an architecture, and complete the class """
    def __init__(self):
        super(Net, self).__init__()
        ## Define layers of a CN (256 X 256 X 3)
        self.convL1 = nn.Conv2d(3, 64, 3, stride=1, padding=1)
        #(128 X 128 X 64)
        self.convL2 = nn.Conv2d(64, 128, 3, stride=1, padding=1)
        #(64 X 64 X 128)
        self.convL3 = nn.Conv2d(128, 256, 3, stride=1, padding=1)
        #(32 X 32 X 256)
        self.convL4 = nn.Conv2d(256, 512, 3, stride=1, padding=1)
        #(16 X 16 X 512)
        self.pool = nn.MaxPool2d(2, 2)
        self.fcl = nn.Linear(512*16*16, 133)

    def forward(self, x):
        ## Define forward behavior
        x = self.pool(F.relu(self.convL1(x)))
        x = self.pool(F.relu(self.convL2(x)))
        x = self.pool(F.relu(self.convL3(x)))
        x = self.pool(F.relu(self.convL4(x)))

        #flatten
        x = x.view(-1, 512*16*16)

        x = F.relu(self.fcl(x))

        return x

    #-#-# You so NOT have to modify the code below this line. #-#-#

```

```

# instantiate the CNN
model_scratch = Net()
print(model_scratch)
print(use_cuda)
# move tensors to GPU if CUDA is available
if use_cuda:
    model_scratch.cuda()

```

```

    □ Net(
        (convL1): Conv2d(3, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
        (convL2): Conv2d(64, 128, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
        (convL3): Conv2d(128, 256, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
        (convL4): Conv2d(256, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
        (pool): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1, ceil_mode=False)
        (fcl): Linear(in_features=131072, out_features=133, bias=True)
    )
    True

```

Question 4: Outline the steps you took to get to your final CNN architecture and your reasoning at each step.

Answer:

(feature detectors) 4 convolutional layers , (classifier) 1 max pooling layer and a fully connected layer.

```
(convL1): Conv2d(3, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
(convL2): Conv2d(64, 128, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
(convL3): Conv2d(128, 256, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
(convL4): Conv2d(256, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
(pool): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1, ceil_mode=False)
(fcl): Linear(in_features=131072, out_features=133, bias=True)
```

1. First layer (convL1) takes input with depth of 3, filters through the image with 3x3 kernels at a stride of 1, returning an output depth of 64.
2. At each convolutional step a 3x3 kernel is used to filter through the input increasing the depth by a factor of 2. After that a Maxpool layer is applied to reduce the generated information in the x,y dimensions by a factor of 2 at each step.
3. A Relu activation function is also used at every layer.

More convolutional layers would have been better, to detect more features. However in the interest of minimizing training time I settled on 4 layers

Finally a single fully connected layer to reduce the output features to 133(the number of dog classes to predict)

▼ (IMPLEMENTATION) Specify Loss Function and Optimizer

Use the next code cell to specify a [loss function](#) and [optimizer](#). Save the chosen loss function as `criterion_scratch`, and the optimizer as `optimizer_scratch` below.

```
import torch.optim as optim

### TODO: select loss function
criterion_scratch = nn.CrossEntropyLoss()

### TODO: select optimizer
optimizer_scratch = optim.SGD(model_scratch.parameters(), lr=0.01, momentum = 0.5)
# optimizer_scratch = optim.Adam(model_scratch.parameters(), lr = 0.06)
```

▼ (IMPLEMENTATION) Train and Validate the Model

Train and validate your model in the code cell below. [Save the final model parameters](#) at filepath '`model_scratch.pt`' .

```
# the following import is required for training to be robust to truncated images
from PIL import ImageFile
ImageFile.LOAD_TRUNCATED_IMAGES = True

def train(n_epochs, loaders, model, optimizer, criterion, use_cuda, save_path):
    """returns trained model"""
    # initialize tracker for minimum validation loss
    valid_loss_min = np.Inf

    for epoch in range(1, n_epochs+1):
        # initialize variables to monitor training and validation loss
        train_loss = 0.0
        valid_loss = 0.0

        #####
        # train the model #
        #####
        model.train()
        for batch_idx, (data, target) in enumerate(loaders['train']):
            # move to GPU
            if use_cuda:
                data, target = data.cuda(), target.cuda()
            ## find the loss and update the model parameters accordingly
            ## record the average training loss, using something like
            ## train_loss = train_loss + ((1 / (batch_idx + 1)) * (loss.data - train_loss))

            optimizer.zero_grad()

            output = model(data)
            loss = criterion(output, target)
            loss.backward()
            optimizer.step()
```

```

train_loss = train_loss + ((1 / (batch_idx + 1)) * (loss.data - train_loss))
print('batch: {} \tTraining Loss: {:.6f}'.format(
    batch_idx,
    train_loss,
))

#####
# validate the model #
#####
model.eval()
for batch_idx, (data, target) in enumerate(loaders['valid']):
    # move to GPU
    if use_cuda:
        data, target = data.cuda(), target.cuda()
    ## update the average validation loss
    output = model(data)

    loss = criterion(output, target)
    valid_loss = valid_loss + ((1 / (batch_idx + 1)) * (loss.data - valid_loss))

# print training/validation statistics
print('Epoch: {} \tTraining Loss: {:.6f} \tValidation Loss: {:.6f}'.format(
    epoch,
    train_loss,
    valid_loss
))

## TODO: save the model if validation loss has decreased
if valid_loss < valid_loss_min :
    torch.save(model.state_dict(), save_path)
    valid_loss_min = valid_loss
    print('model saved')
# return trained model
return model

# load the model that got the best validation accuracy
# model_scratch.load_state_dict(torch.load('model_scratch.pt'))

# train the model
model_scratch = train(100, loaders_scratch, model_scratch, optimizer_scratch,
                      criterion_scratch, use_cuda, 'model_scratch.pt')

# load the model that got the best validation accuracy
model_scratch.load_state_dict(torch.load('model_scratch.pt'))

[?] batch: 0      Training Loss: 4.893198
batch: 1      Training Loss: 4.896241
batch: 2      Training Loss: 4.895405
batch: 3      Training Loss: 4.892342
-----
KeyboardInterrupt                                     Traceback (most recent call last)
<ipython-input-14-f69e2adf587b> in <module>()
      1 model_scratch = train(100, loaders_scratch, model_scratch, optimizer_scratch,
----> 2                     criterion_scratch, use_cuda, 'model_scratch.pt')
      3
      4 # load the model that got the best validation accuracy
      5 model_scratch.load_state_dict(torch.load('model_scratch.pt'))



----- 8 frames -----
/usr/local/lib/python3.6/dist-packages/PIL/ImageFile.py in load(self)
 234
 235             b = b + s
--> 236             n, err_code = decoder.decode(b)
 237             if n < 0:
 238                 break

KeyboardInterrupt:
```

SEARCH STACK OVERFLOW

▼ (IMPLEMENTATION) Test the Model

Try out your model on the test dataset of dog images. Use the code cell below to calculate and print the test loss and accuracy. Ensure that your test accuracy is greater than 10%.

```
def test(loaders, model, criterion, use_cuda):
```

```

# monitor test loss and accuracy
test_loss = 0.
correct = 0.
total = 0.

model.eval()
for batch_idx, (data, target) in enumerate(loaders['test']):
    # move to GPU
    if use_cuda:
        data, target = data.cuda(), target.cuda()
    # forward pass: compute predicted outputs by passing inputs to the model
    output = model(data)
    # calculate the loss
    loss = criterion(output, target)
    # update average test loss
    test_loss = test_loss + ((1 / (batch_idx + 1)) * (loss.data - test_loss))
    # convert output probabilities to predicted class
    pred = output.data.max(1, keepdim=True)[1]
    # compare predictions to true label
    correct += np.sum(np.squeeze(pred.eq(target.data.view_as(pred))).cpu().numpy())
    total += data.size(0)

print('Test Loss: {:.6f}\n'.format(test_loss))

print('\nTest Accuracy: {}% ({}/{})'.format(
    100. * correct / total, correct, total))

```

```

# load the model that got the best validation accuracy
model_scratch.load_state_dict(torch.load('model_scratch.pt'))
# call test function
test(loaders_scratch, model_scratch, criterion_scratch, use_cuda)

```

↳ Test Loss: 4.337181

Test Accuracy: 14% (124/836)

▼ Step 4: Create a CNN to Classify Dog Breeds (using Transfer Learning)

You will now use transfer learning to create a CNN that can identify dog breed from images. Your CNN must attain at least 60% accuracy on the test set.

(IMPLEMENTATION) Specify Data Loaders for the Dog Dataset

Use the code cell below to write three separate [data loaders](#) for the training, validation, and test datasets of dog images (located at `dogImages/train`, `dogImages/valid`, and `dogImages/test`, respectively).

If you like, **you are welcome to use the same data loaders from the previous step**, when you created a CNN from scratch.

```

## TODO: Specify data loaders
import os
from torchvision import datasets

### TODO: Write data loaders for training, validation, and test sets
## Specify appropriate transforms, and batch_sizes

train_transform = transforms.Compose([
    transforms.Resize((256, 256)),
    transforms.RandomRotation(180),
    transforms.RandomHorizontalFlip(),
    transforms.ToTensor(),
    transforms.Normalize(
        mean=[0.485, 0.456, 0.406],
        std=[0.229, 0.224, 0.225]),
])
test_transform = transforms.Compose([
    transforms.Resize((256, 256)),
    transforms.ToTensor(),
    transforms.Normalize(
        mean=[0.485, 0.456, 0.406],
        std=[0.229, 0.224, 0.225]),
])

train_dataset = datasets.ImageFolder("/data/dog_images/train", transform = train_transform)
test_dataset = datasets.ImageFolder("/data/dog_images/test", transform = test_transform)
validation_dataset = datasets.ImageFolder("/data/dog_images/valid", transform = test_transform)

```

```
train_loader = torch.utils.data.DataLoader(train_dataset, batch_size = 32, shuffle=True)
test_loader = torch.utils.data.DataLoader(test_dataset, batch_size = 32, shuffle=True)
validation_loader = torch.utils.data.DataLoader(validation_dataset, batch_size = 32, shuffle=True)

loaders_transfer = {'train':train_loader, 'test':test_loader, 'valid':validation_loader}
```

▼ (IMPLEMENTATION) Model Architecture

Use transfer learning to create a CNN to classify dog breed. Use the code cell below, and save your initialized model as the variable `model_transfer`.

```
import torchvision.models as models
import torch
import torch.nn as nn

## TODO: Specify model architecture

model_transfer = models.vgg13(pretrained=True)

for param in model_transfer.features.parameters():
    param.requires_grad = False

model_transfer.classifier = nn.Sequential(
    nn.Linear(25088, 12544),
    nn.ReLU(),
    nn.Dropout(p=0.4),
    nn.Linear(12544,133)
)

# check if CUDA is available
use_cuda = torch.cuda.is_available()

print(model_transfer.classifier)
if use_cuda:
    model_transfer = model_transfer.cuda()

⇒ Sequential(
  (0): Linear(in_features=25088, out_features=12544, bias=True)
  (1): ReLU()
  (2): Dropout(p=0.4, inplace=False)
  (3): Linear(in_features=12544, out_features=133, bias=True)
)

model_transfer

⇒ VGG(
  (features): Sequential(
    (0): Conv2d(3, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (1): ReLU(inplace=True)
    (2): Conv2d(64, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (3): ReLU(inplace=True)
    (4): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1, ceil_mode=False)
    (5): Conv2d(64, 128, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (6): ReLU(inplace=True)
    (7): Conv2d(128, 128, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (8): ReLU(inplace=True)
    (9): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1, ceil_mode=False)
    (10): Conv2d(128, 256, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (11): ReLU(inplace=True)
    (12): Conv2d(256, 256, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (13): ReLU(inplace=True)
    (14): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1, ceil_mode=False)
    (15): Conv2d(256, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (16): ReLU(inplace=True)
    (17): Conv2d(512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (18): ReLU(inplace=True)
    (19): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1, ceil_mode=False)
    (20): Conv2d(512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (21): ReLU(inplace=True)
    (22): Conv2d(512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1))
    (23): ReLU(inplace=True)
    (24): MaxPool2d(kernel_size=2, stride=2, padding=0, dilation=1, ceil_mode=False)
  )
  (avgpool): AdaptiveAvgPool2d(output_size=(7, 7))
  (classifier): Sequential(
    (0): Linear(in_features=25088, out_features=12544, bias=True)
    (1): ReLU()
    (2): Dropout(p=0.4, inplace=False)
    (3): Linear(in_features=12544, out_features=133, bias=True)
  )
)
```

Question 5: Outline the steps you took to get to your final CNN architecture and your reasoning at each step. Describe why you think the architecture is suitable for the current problem.

Answer:

1. Printed out the model to get its architecture and get the number of input features to feed into the classifier
2. Replaced the original classifier with one I defined

```
Sequential(  
    (0): Linear(in_features=25088, out_features=12544, bias=True)  
    (1): ReLU()  
    (2): Dropout(p=0.4, inplace=False)  
    (3): Linear(in_features=12544, out_features=133, bias=True)  
)
```

2 linear layers (first with 25088 input and the last with 133 output features ie. total classes of dogs), 1 dropout layer and a relu activation function.

The pretrained network already has learned weights and features that I can use for detection, and would take less time to train as opposed to building a model from scratch. There also isn't enough data to train the model from scratch to get a good accuracy.

▼ (IMPLEMENTATION) Specify Loss Function and Optimizer

Use the next code cell to specify a [loss function](#) and [optimizer](#). Save the chosen loss function as `criterion_transfer`, and the optimizer as `optimizer_transfer` below.

```
criterion_transfer = nn.CrossEntropyLoss()  
optimizer_transfer = optim.SGD(model_transfer.classifier.parameters(), lr=0.01, momentum = 0.5)  
# optimizer_transfer = optim.Adam(model_transfer.fc.parameters(), lr=0.001)
```

▼ (IMPLEMENTATION) Train and Validate the Model

Train and validate your model in the code cell below. [Save the final model parameters](#) at filepath '`model_transfer.pt`'.

```
# model_transfer.load_state_dict(torch.load('model_transfer.pt'))  
# train the model  
n_epochs = 100  
model_transfer = train(n_epochs, loaders_transfer, model_transfer,  
                      optimizer_transfer, criterion_transfer, use_cuda,  
                      'model_transfer.pt')
```



batch: 0 Training Loss: 5.047067
batch: 1 Training Loss: 4.945381
batch: 2 Training Loss: 4.947745
batch: 3 Training Loss: 5.010090
batch: 4 Training Loss: 4.980980
batch: 5 Training Loss: 4.970945
batch: 6 Training Loss: 4.963382
batch: 7 Training Loss: 4.977887
batch: 8 Training Loss: 4.971763
batch: 9 Training Loss: 4.968077
batch: 10 Training Loss: 4.977580
batch: 11 Training Loss: 4.960226
batch: 12 Training Loss: 4.941206
batch: 13 Training Loss: 4.942575
batch: 14 Training Loss: 4.922639
batch: 15 Training Loss: 4.900954
batch: 16 Training Loss: 4.896842
batch: 17 Training Loss: 4.886622
batch: 18 Training Loss: 4.887258
batch: 19 Training Loss: 4.874447
batch: 20 Training Loss: 4.864241
batch: 21 Training Loss: 4.854012
batch: 22 Training Loss: 4.848429
batch: 23 Training Loss: 4.834340
batch: 24 Training Loss: 4.822012
batch: 25 Training Loss: 4.812861
batch: 26 Training Loss: 4.805696
batch: 27 Training Loss: 4.792706
batch: 28 Training Loss: 4.778967
batch: 29 Training Loss: 4.768569
batch: 30 Training Loss: 4.760495
batch: 31 Training Loss: 4.747548
batch: 32 Training Loss: 4.707152
batch: 33 Training Loss: 4.699842
batch: 34 Training Loss: 4.688674
batch: 35 Training Loss: 4.675769
batch: 36 Training Loss: 4.666618
batch: 37 Training Loss: 4.661166
batch: 38 Training Loss: 4.655131
batch: 39 Training Loss: 4.648347
batch: 40 Training Loss: 4.637982
batch: 41 Training Loss: 4.631892
batch: 42 Training Loss: 4.618932
batch: 43 Training Loss: 4.603251
batch: 44 Training Loss: 4.590169
batch: 45 Training Loss: 4.576419
batch: 46 Training Loss: 4.562315
batch: 47 Training Loss: 4.559362
batch: 48 Training Loss: 4.549148
batch: 49 Training Loss: 4.537238
batch: 50 Training Loss: 4.519513
batch: 51 Training Loss: 4.516290
batch: 52 Training Loss: 4.501841
batch: 53 Training Loss: 4.496866
batch: 54 Training Loss: 4.485144
batch: 55 Training Loss: 4.479034
batch: 56 Training Loss: 4.462585
batch: 57 Training Loss: 4.449396
batch: 58 Training Loss: 4.447232
batch: 59 Training Loss: 4.432377
batch: 60 Training Loss: 4.425861
batch: 61 Training Loss: 4.416376
batch: 62 Training Loss: 4.411087
batch: 63 Training Loss: 4.400010
batch: 64 Training Loss: 4.394751
batch: 65 Training Loss: 4.387493
batch: 66 Training Loss: 4.378838
batch: 67 Training Loss: 4.369093
batch: 68 Training Loss: 4.358747
batch: 69 Training Loss: 4.347152
batch: 70 Training Loss: 4.338505
batch: 71 Training Loss: 4.330935
batch: 72 Training Loss: 4.318811
batch: 73 Training Loss: 4.310625
batch: 74 Training Loss: 4.306563
batch: 75 Training Loss: 4.294785
batch: 76 Training Loss: 4.289110
batch: 77 Training Loss: 4.276934
batch: 78 Training Loss: 4.266406
batch: 79 Training Loss: 4.262598
batch: 80 Training Loss: 4.250951
batch: 81 Training Loss: 4.244419
batch: 82 Training Loss: 4.238573
batch: 83 Training Loss: 4.226948
batch: 84 Training Loss: 4.220081
batch: 85 Training Loss: 4.211361
batch: 86 Training Loss: 4.198715
batch: 87 Training Loss: 4.193459
batch: 88 Training Loss: 4.187602
batch: 89 Training Loss: 4.184126
batch: 90 Training Loss: 4.177745

batch: 91 Training Loss: 4.170505
batch: 92 Training Loss: 4.162972
batch: 93 Training Loss: 4.157395
batch: 94 Training Loss: 4.147696
batch: 95 Training Loss: 4.136788
batch: 96 Training Loss: 4.120004
batch: 97 Training Loss: 4.106684
batch: 98 Training Loss: 4.094950
batch: 99 Training Loss: 4.087846
batch: 100 Training Loss: 4.084105
batch: 101 Training Loss: 4.074988
batch: 102 Training Loss: 4.061909
batch: 103 Training Loss: 4.057519
batch: 104 Training Loss: 4.045182
batch: 105 Training Loss: 4.040259
batch: 106 Training Loss: 4.031769
batch: 107 Training Loss: 4.026626
batch: 108 Training Loss: 4.018488
batch: 109 Training Loss: 4.012127
batch: 110 Training Loss: 4.005620
batch: 111 Training Loss: 3.998276
batch: 112 Training Loss: 3.984311
batch: 113 Training Loss: 3.977685
batch: 114 Training Loss: 3.971118
batch: 115 Training Loss: 3.964840
batch: 116 Training Loss: 3.956466
batch: 117 Training Loss: 3.947162
batch: 118 Training Loss: 3.942892
batch: 119 Training Loss: 3.939192
batch: 120 Training Loss: 3.935427
batch: 121 Training Loss: 3.925972
batch: 122 Training Loss: 3.918394
batch: 123 Training Loss: 3.915219
batch: 124 Training Loss: 3.907438
batch: 125 Training Loss: 3.897950
batch: 126 Training Loss: 3.895720
batch: 127 Training Loss: 3.891839
batch: 128 Training Loss: 3.887729
batch: 129 Training Loss: 3.881805
batch: 130 Training Loss: 3.876172
batch: 131 Training Loss: 3.871276
batch: 132 Training Loss: 3.863589
batch: 133 Training Loss: 3.857422
batch: 134 Training Loss: 3.850314
batch: 135 Training Loss: 3.847178
batch: 136 Training Loss: 3.840104
batch: 137 Training Loss: 3.832397
batch: 138 Training Loss: 3.829551
batch: 139 Training Loss: 3.820800
batch: 140 Training Loss: 3.815971
batch: 141 Training Loss: 3.810344
batch: 142 Training Loss: 3.802729
batch: 143 Training Loss: 3.796951
batch: 144 Training Loss: 3.793719
batch: 145 Training Loss: 3.787218
batch: 146 Training Loss: 3.782085
batch: 147 Training Loss: 3.777766
batch: 148 Training Loss: 3.771698
batch: 149 Training Loss: 3.767192
batch: 150 Training Loss: 3.758019
batch: 151 Training Loss: 3.750802
batch: 152 Training Loss: 3.746422
batch: 153 Training Loss: 3.740726
batch: 154 Training Loss: 3.734155
batch: 155 Training Loss: 3.724477
batch: 156 Training Loss: 3.721673
batch: 157 Training Loss: 3.716645
batch: 158 Training Loss: 3.710950
batch: 159 Training Loss: 3.706956
batch: 160 Training Loss: 3.701096
batch: 161 Training Loss: 3.698388
batch: 162 Training Loss: 3.691722
batch: 163 Training Loss: 3.684762
batch: 164 Training Loss: 3.678867
batch: 165 Training Loss: 3.676539
batch: 166 Training Loss: 3.668567
batch: 167 Training Loss: 3.663689
batch: 168 Training Loss: 3.658120
batch: 169 Training Loss: 3.654386
batch: 170 Training Loss: 3.648437
batch: 171 Training Loss: 3.641732
batch: 172 Training Loss: 3.639006
batch: 173 Training Loss: 3.632471
batch: 174 Training Loss: 3.624879
batch: 175 Training Loss: 3.619054
batch: 176 Training Loss: 3.615302
batch: 177 Training Loss: 3.608888
batch: 178 Training Loss: 3.605011
batch: 179 Training Loss: 3.600966
batch: 180 Training Loss: 3.597071
batch: 181 Training Loss: 3.592523

```
-- -- -- -- --  
batch: 182 Training Loss: 3.587466  
batch: 183 Training Loss: 3.581747  
batch: 184 Training Loss: 3.576672  
batch: 185 Training Loss: 3.572364  
batch: 186 Training Loss: 3.568398  
batch: 187 Training Loss: 3.564586  
batch: 188 Training Loss: 3.558634  
batch: 189 Training Loss: 3.553610  
batch: 190 Training Loss: 3.547815  
batch: 191 Training Loss: 3.542015  
batch: 192 Training Loss: 3.536077  
batch: 193 Training Loss: 3.531386  
batch: 194 Training Loss: 3.527501  
batch: 195 Training Loss: 3.521820  
batch: 196 Training Loss: 3.517341  
batch: 197 Training Loss: 3.515035  
batch: 198 Training Loss: 3.510508  
batch: 199 Training Loss: 3.508121  
batch: 200 Training Loss: 3.504946  
batch: 201 Training Loss: 3.498729  
batch: 202 Training Loss: 3.493168  
batch: 203 Training Loss: 3.489898  
batch: 204 Training Loss: 3.486379  
batch: 205 Training Loss: 3.481893  
batch: 206 Training Loss: 3.477867  
batch: 207 Training Loss: 3.476150  
batch: 208 Training Loss: 3.472785  
Epoch: 1 Training Loss: 3.472785 Validation Loss: 2.004715  
model saved  
batch: 0 Training Loss: 2.644545  
batch: 1 Training Loss: 2.517430  
batch: 2 Training Loss: 2.628730  
batch: 3 Training Loss: 2.630637  
batch: 4 Training Loss: 2.547372  
batch: 5 Training Loss: 2.471295  
batch: 6 Training Loss: 2.447469  
batch: 7 Training Loss: 2.449375  
batch: 8 Training Loss: 2.370497  
batch: 9 Training Loss: 2.327698  
batch: 10 Training Loss: 2.375166  
batch: 11 Training Loss: 2.341531  
batch: 12 Training Loss: 2.340767  
batch: 13 Training Loss: 2.335018  
batch: 14 Training Loss: 2.336667  
batch: 15 Training Loss: 2.335016  
batch: 16 Training Loss: 2.306874  
batch: 17 Training Loss: 2.302498  
batch: 18 Training Loss: 2.268134  
batch: 19 Training Loss: 2.257214  
batch: 20 Training Loss: 2.265426  
batch: 21 Training Loss: 2.281510  
batch: 22 Training Loss: 2.278851  
batch: 23 Training Loss: 2.290608  
batch: 24 Training Loss: 2.298758  
batch: 25 Training Loss: 2.299802  
batch: 26 Training Loss: 2.304596  
batch: 27 Training Loss: 2.296308  
batch: 28 Training Loss: 2.297980  
batch: 29 Training Loss: 2.299566  
batch: 30 Training Loss: 2.289615  
batch: 31 Training Loss: 2.296183  
batch: 32 Training Loss: 2.305165  
batch: 33 Training Loss: 2.298012  
batch: 34 Training Loss: 2.292798  
batch: 35 Training Loss: 2.293437  
batch: 36 Training Loss: 2.312681  
batch: 37 Training Loss: 2.321327  
batch: 38 Training Loss: 2.330101  
batch: 39 Training Loss: 2.324342  
batch: 40 Training Loss: 2.329538  
batch: 41 Training Loss: 2.325607  
batch: 42 Training Loss: 2.321673  
batch: 43 Training Loss: 2.328726  
batch: 44 Training Loss: 2.328591  
batch: 45 Training Loss: 2.323109  
batch: 46 Training Loss: 2.323904  
batch: 47 Training Loss: 2.327446  
batch: 48 Training Loss: 2.324352  
batch: 49 Training Loss: 2.325252  
batch: 50 Training Loss: 2.325176  
batch: 51 Training Loss: 2.326113  
batch: 52 Training Loss: 2.320765  
batch: 53 Training Loss: 2.324837  
batch: 54 Training Loss: 2.328173  
batch: 55 Training Loss: 2.326025  
batch: 56 Training Loss: 2.324811  
batch: 57 Training Loss: 2.329794  
batch: 58 Training Loss: 2.329540  
batch: 59 Training Loss: 2.329299  
batch: 60 Training Loss: 2.332331  
batch: 61 Training Loss: 2.327089
```

batch: 62 Training Loss: 2.327959
batch: 63 Training Loss: 2.324247
batch: 64 Training Loss: 2.320351
batch: 65 Training Loss: 2.322268
batch: 66 Training Loss: 2.326639
batch: 67 Training Loss: 2.322020
batch: 68 Training Loss: 2.316264
batch: 69 Training Loss: 2.313931
batch: 70 Training Loss: 2.317990
batch: 71 Training Loss: 2.312141
batch: 72 Training Loss: 2.310137
batch: 73 Training Loss: 2.302725
batch: 74 Training Loss: 2.295795
batch: 75 Training Loss: 2.291922
batch: 76 Training Loss: 2.291149
batch: 77 Training Loss: 2.289983
batch: 78 Training Loss: 2.286502
batch: 79 Training Loss: 2.282561
batch: 80 Training Loss: 2.283413
batch: 81 Training Loss: 2.285250
batch: 82 Training Loss: 2.286997
batch: 83 Training Loss: 2.284834
batch: 84 Training Loss: 2.283915
batch: 85 Training Loss: 2.285365
batch: 86 Training Loss: 2.280520
batch: 87 Training Loss: 2.277507
batch: 88 Training Loss: 2.273719
batch: 89 Training Loss: 2.271805
batch: 90 Training Loss: 2.268981
batch: 91 Training Loss: 2.262886
batch: 92 Training Loss: 2.259180
batch: 93 Training Loss: 2.263791
batch: 94 Training Loss: 2.261468
batch: 95 Training Loss: 2.260896
batch: 96 Training Loss: 2.263196
batch: 97 Training Loss: 2.265643
batch: 98 Training Loss: 2.270953
batch: 99 Training Loss: 2.271100
batch: 100 Training Loss: 2.276244
batch: 101 Training Loss: 2.269319
batch: 102 Training Loss: 2.270249
batch: 103 Training Loss: 2.264618
batch: 104 Training Loss: 2.265266
batch: 105 Training Loss: 2.260057
batch: 106 Training Loss: 2.258006
batch: 107 Training Loss: 2.256524
batch: 108 Training Loss: 2.256361
batch: 109 Training Loss: 2.257066
batch: 110 Training Loss: 2.253654
batch: 111 Training Loss: 2.253295
batch: 112 Training Loss: 2.251245
batch: 113 Training Loss: 2.246399
batch: 114 Training Loss: 2.242649
batch: 115 Training Loss: 2.244337
batch: 116 Training Loss: 2.242638
batch: 117 Training Loss: 2.245348
batch: 118 Training Loss: 2.242531
batch: 119 Training Loss: 2.236701
batch: 120 Training Loss: 2.232234
batch: 121 Training Loss: 2.230273
batch: 122 Training Loss: 2.227432
batch: 123 Training Loss: 2.224210
batch: 124 Training Loss: 2.223473
batch: 125 Training Loss: 2.219384
batch: 126 Training Loss: 2.216844
batch: 127 Training Loss: 2.216060
batch: 128 Training Loss: 2.218025
batch: 129 Training Loss: 2.214403
batch: 130 Training Loss: 2.215006
batch: 131 Training Loss: 2.213423
batch: 132 Training Loss: 2.212090
batch: 133 Training Loss: 2.212839
batch: 134 Training Loss: 2.215652
batch: 135 Training Loss: 2.213221
batch: 136 Training Loss: 2.209691
batch: 137 Training Loss: 2.208946
batch: 138 Training Loss: 2.210632
batch: 139 Training Loss: 2.205783
batch: 140 Training Loss: 2.202563
batch: 141 Training Loss: 2.203050
batch: 142 Training Loss: 2.200604
batch: 143 Training Loss: 2.196779
batch: 144 Training Loss: 2.198468
batch: 145 Training Loss: 2.199276
batch: 146 Training Loss: 2.200018
batch: 147 Training Loss: 2.198524
batch: 148 Training Loss: 2.196004
batch: 149 Training Loss: 2.197415
batch: 150 Training Loss: 2.192924
batch: 151 Training Loss: 2.191653
batch: 152 Training Loss: 2.190061

```
batch: 153      Training Loss: 2.194144
batch: 154      Training Loss: 2.197656
batch: 155      Training Loss: 2.194389
batch: 156      Training Loss: 2.194610
batch: 157      Training Loss: 2.191329
batch: 158      Training Loss: 2.189957
batch: 159      Training Loss: 2.185884
batch: 160      Training Loss: 2.182435
batch: 161      Training Loss: 2.181911
batch: 162      Training Loss: 2.180255
batch: 163      Training Loss: 2.179416
batch: 164      Training Loss: 2.177652
batch: 165      Training Loss: 2.175789
batch: 166      Training Loss: 2.175589
batch: 167      Training Loss: 2.175721
batch: 168      Training Loss: 2.178452
batch: 169      Training Loss: 2.177131
batch: 170      Training Loss: 2.177204
batch: 171      Training Loss: 2.177090
batch: 172      Training Loss: 2.178982
batch: 173      Training Loss: 2.176925
batch: 174      Training Loss: 2.180153
batch: 175      Training Loss: 2.181654
batch: 176      Training Loss: 2.183972
batch: 177      Training Loss: 2.179582
batch: 178      Training Loss: 2.178505
batch: 179      Training Loss: 2.176959
batch: 180      Training Loss: 2.177534
batch: 181      Training Loss: 2.178808
batch: 182      Training Loss: 2.178765
batch: 183      Training Loss: 2.178905
batch: 184      Training Loss: 2.178827
batch: 185      Training Loss: 2.178681
batch: 186      Training Loss: 2.178059
batch: 187      Training Loss: 2.177367
batch: 188      Training Loss: 2.178014
batch: 189      Training Loss: 2.176624
batch: 190      Training Loss: 2.177359
batch: 191      Training Loss: 2.178793
batch: 192      Training Loss: 2.175627
batch: 193      Training Loss: 2.176108
batch: 194      Training Loss: 2.175245
batch: 195      Training Loss: 2.173824
batch: 196      Training Loss: 2.176505
batch: 197      Training Loss: 2.175462
batch: 198      Training Loss: 2.174048
batch: 199      Training Loss: 2.171639
batch: 200      Training Loss: 2.171390
batch: 201      Training Loss: 2.169692
batch: 202      Training Loss: 2.170337
batch: 203      Training Loss: 2.171012
batch: 204      Training Loss: 2.170970
batch: 205      Training Loss: 2.168553
batch: 206      Training Loss: 2.166164
batch: 207      Training Loss: 2.166324
batch: 208      Training Loss: 2.166570
Epoch: 2        Training Loss: 2.166570          Validation Loss: 1.571818
model saved
batch: 0        Training Loss: 1.700932
batch: 1        Training Loss: 1.694331
batch: 2        Training Loss: 1.682229
batch: 3        Training Loss: 1.751173
batch: 4        Training Loss: 1.801167
batch: 5        Training Loss: 1.811496
batch: 6        Training Loss: 1.821584
batch: 7        Training Loss: 1.834967
batch: 8        Training Loss: 1.812199
batch: 9        Training Loss: 1.783529
batch: 10       Training Loss: 1.756484
batch: 11       Training Loss: 1.784015
batch: 12       Training Loss: 1.771823
batch: 13       Training Loss: 1.780192
batch: 14       Training Loss: 1.789009
batch: 15       Training Loss: 1.771858
batch: 16       Training Loss: 1.741974
batch: 17       Training Loss: 1.746714
batch: 18       Training Loss: 1.753643
batch: 19       Training Loss: 1.762148
batch: 20       Training Loss: 1.773344
batch: 21       Training Loss: 1.756001
batch: 22       Training Loss: 1.767490
batch: 23       Training Loss: 1.766609
batch: 24       Training Loss: 1.774414
batch: 25       Training Loss: 1.773315
batch: 26       Training Loss: 1.782696
batch: 27       Training Loss: 1.781654
batch: 28       Training Loss: 1.788274
batch: 29       Training Loss: 1.807272
batch: 30       Training Loss: 1.805472
batch: 31       Training Loss: 1.805176
batch: 32       Training Loss: 1.805710
```

batch: 33 Training Loss: 1.804334
batch: 34 Training Loss: 1.795760
batch: 35 Training Loss: 1.804348
batch: 36 Training Loss: 1.803931
batch: 37 Training Loss: 1.804717
batch: 38 Training Loss: 1.801154
batch: 39 Training Loss: 1.799366
batch: 40 Training Loss: 1.808366
batch: 41 Training Loss: 1.813327
batch: 42 Training Loss: 1.799616
batch: 43 Training Loss: 1.799040
batch: 44 Training Loss: 1.798458
batch: 45 Training Loss: 1.790046
batch: 46 Training Loss: 1.786668
batch: 47 Training Loss: 1.788557
batch: 48 Training Loss: 1.796188
batch: 49 Training Loss: 1.804189
batch: 50 Training Loss: 1.794055
batch: 51 Training Loss: 1.801931
batch: 52 Training Loss: 1.800197
batch: 53 Training Loss: 1.801609
batch: 54 Training Loss: 1.802897
batch: 55 Training Loss: 1.803017
batch: 56 Training Loss: 1.804578
batch: 57 Training Loss: 1.805289
batch: 58 Training Loss: 1.811981
batch: 59 Training Loss: 1.814513
batch: 60 Training Loss: 1.814029
batch: 61 Training Loss: 1.816842
batch: 62 Training Loss: 1.822340
batch: 63 Training Loss: 1.820986
batch: 64 Training Loss: 1.820172
batch: 65 Training Loss: 1.824929
batch: 66 Training Loss: 1.823779
batch: 67 Training Loss: 1.821788
batch: 68 Training Loss: 1.825750
batch: 69 Training Loss: 1.826351
batch: 70 Training Loss: 1.835121
batch: 71 Training Loss: 1.833593
batch: 72 Training Loss: 1.834724
batch: 73 Training Loss: 1.829465
batch: 74 Training Loss: 1.831075
batch: 75 Training Loss: 1.830845
batch: 76 Training Loss: 1.832007
batch: 77 Training Loss: 1.833236
batch: 78 Training Loss: 1.825842
batch: 79 Training Loss: 1.822637
batch: 80 Training Loss: 1.827595
batch: 81 Training Loss: 1.829788
batch: 82 Training Loss: 1.828186
batch: 83 Training Loss: 1.830833
batch: 84 Training Loss: 1.831908
batch: 85 Training Loss: 1.827004
batch: 86 Training Loss: 1.826724
batch: 87 Training Loss: 1.826386
batch: 88 Training Loss: 1.830987
batch: 89 Training Loss: 1.830528
batch: 90 Training Loss: 1.826430
batch: 91 Training Loss: 1.825867
batch: 92 Training Loss: 1.824213
batch: 93 Training Loss: 1.822454
batch: 94 Training Loss: 1.813926
batch: 95 Training Loss: 1.813929
batch: 96 Training Loss: 1.819058
batch: 97 Training Loss: 1.816849
batch: 98 Training Loss: 1.815515
batch: 99 Training Loss: 1.814933
batch: 100 Training Loss: 1.815667
batch: 101 Training Loss: 1.814040
batch: 102 Training Loss: 1.817318
batch: 103 Training Loss: 1.817882
batch: 104 Training Loss: 1.816490
batch: 105 Training Loss: 1.815789
batch: 106 Training Loss: 1.814304
batch: 107 Training Loss: 1.813804
batch: 108 Training Loss: 1.808964
batch: 109 Training Loss: 1.811818
batch: 110 Training Loss: 1.811873
batch: 111 Training Loss: 1.811788
batch: 112 Training Loss: 1.815904
batch: 113 Training Loss: 1.812346
batch: 114 Training Loss: 1.816846
batch: 115 Training Loss: 1.814765
batch: 116 Training Loss: 1.811021
batch: 117 Training Loss: 1.811064
batch: 118 Training Loss: 1.807224
batch: 119 Training Loss: 1.807215
batch: 120 Training Loss: 1.808247
batch: 121 Training Loss: 1.809864
batch: 122 Training Loss: 1.807921
batch: 123 Training Loss: 1.807908

```
batch: 124      Training Loss: 1.811590
batch: 125      Training Loss: 1.811601
batch: 126      Training Loss: 1.810339
batch: 127      Training Loss: 1.810760
batch: 128      Training Loss: 1.814022
batch: 129      Training Loss: 1.816720
batch: 130      Training Loss: 1.817112
batch: 131      Training Loss: 1.818926
batch: 132      Training Loss: 1.819548
batch: 133      Training Loss: 1.820748
batch: 134      Training Loss: 1.819640
batch: 135      Training Loss: 1.819688
batch: 136      Training Loss: 1.817612
batch: 137      Training Loss: 1.817312
batch: 138      Training Loss: 1.820209
batch: 139      Training Loss: 1.819093
batch: 140      Training Loss: 1.819458
batch: 141      Training Loss: 1.818037
batch: 142      Training Loss: 1.817137
batch: 143      Training Loss: 1.818487
batch: 144      Training Loss: 1.818049
batch: 145      Training Loss: 1.813684
batch: 146      Training Loss: 1.810102
batch: 147      Training Loss: 1.809532
batch: 148      Training Loss: 1.810844
batch: 149      Training Loss: 1.810192
batch: 150      Training Loss: 1.809343
batch: 151      Training Loss: 1.809422
batch: 152      Training Loss: 1.809860
batch: 153      Training Loss: 1.810806
batch: 154      Training Loss: 1.809027
batch: 155      Training Loss: 1.807097
batch: 156      Training Loss: 1.806558
batch: 157      Training Loss: 1.808355
batch: 158      Training Loss: 1.807550
batch: 159      Training Loss: 1.808095
batch: 160      Training Loss: 1.810512
batch: 161      Training Loss: 1.811598
batch: 162      Training Loss: 1.812299
batch: 163      Training Loss: 1.814347
batch: 164      Training Loss: 1.816175
batch: 165      Training Loss: 1.812820
batch: 166      Training Loss: 1.814685
batch: 167      Training Loss: 1.815299
batch: 168      Training Loss: 1.813058
batch: 169      Training Loss: 1.811131
batch: 170      Training Loss: 1.812075
batch: 171      Training Loss: 1.808813
batch: 172      Training Loss: 1.806484
batch: 173      Training Loss: 1.806852
batch: 174      Training Loss: 1.805911
batch: 175      Training Loss: 1.807530
batch: 176      Training Loss: 1.807127
batch: 177      Training Loss: 1.806259
batch: 178      Training Loss: 1.809649
batch: 179      Training Loss: 1.810020
batch: 180      Training Loss: 1.810862
batch: 181      Training Loss: 1.811060
batch: 182      Training Loss: 1.810516
batch: 183      Training Loss: 1.806921
batch: 184      Training Loss: 1.808365
batch: 185      Training Loss: 1.806893
batch: 186      Training Loss: 1.808116
batch: 187      Training Loss: 1.804996
batch: 188      Training Loss: 1.805572
batch: 189      Training Loss: 1.804707
batch: 190      Training Loss: 1.803983
batch: 191      Training Loss: 1.802798
batch: 192      Training Loss: 1.803867
batch: 193      Training Loss: 1.806352
batch: 194      Training Loss: 1.806530
batch: 195      Training Loss: 1.806080
batch: 196      Training Loss: 1.804545
batch: 197      Training Loss: 1.803424
batch: 198      Training Loss: 1.800349
batch: 199      Training Loss: 1.802372
batch: 200      Training Loss: 1.802929
batch: 201      Training Loss: 1.801423
batch: 202      Training Loss: 1.800976
batch: 203      Training Loss: 1.801452
batch: 204      Training Loss: 1.801327
batch: 205      Training Loss: 1.801287
batch: 206      Training Loss: 1.801207
batch: 207      Training Loss: 1.801029
batch: 208      Training Loss: 1.802629
Epoch: 3        Training Loss: 1.802629          Validation Loss: 1.406787
model saved
batch: 0        Training Loss: 1.919633
batch: 1        Training Loss: 1.794726
batch: 2        Training Loss: 1.681319
batch: 3        Training Loss: 1.664007
```

batch: 4 Training Loss: 1.649431
batch: 5 Training Loss: 1.621625
batch: 6 Training Loss: 1.563810
batch: 7 Training Loss: 1.564488
batch: 8 Training Loss: 1.542513
batch: 9 Training Loss: 1.535147
batch: 10 Training Loss: 1.503069
batch: 11 Training Loss: 1.520997
batch: 12 Training Loss: 1.498854
batch: 13 Training Loss: 1.502711
batch: 14 Training Loss: 1.524094
batch: 15 Training Loss: 1.557451
batch: 16 Training Loss: 1.543521
batch: 17 Training Loss: 1.521365
batch: 18 Training Loss: 1.490431
batch: 19 Training Loss: 1.484284
batch: 20 Training Loss: 1.487362
batch: 21 Training Loss: 1.481289
batch: 22 Training Loss: 1.472025
batch: 23 Training Loss: 1.475441
batch: 24 Training Loss: 1.469024
batch: 25 Training Loss: 1.477579
batch: 26 Training Loss: 1.486439
batch: 27 Training Loss: 1.483209
batch: 28 Training Loss: 1.473064
batch: 29 Training Loss: 1.493267
batch: 30 Training Loss: 1.482376
batch: 31 Training Loss: 1.505415
batch: 32 Training Loss: 1.520235
batch: 33 Training Loss: 1.511394
batch: 34 Training Loss: 1.516151
batch: 35 Training Loss: 1.512831
batch: 36 Training Loss: 1.514696
batch: 37 Training Loss: 1.515717
batch: 38 Training Loss: 1.516141
batch: 39 Training Loss: 1.513470
batch: 40 Training Loss: 1.519876
batch: 41 Training Loss: 1.511572
batch: 42 Training Loss: 1.509817
batch: 43 Training Loss: 1.510880
batch: 44 Training Loss: 1.514356
batch: 45 Training Loss: 1.507581
batch: 46 Training Loss: 1.509883
batch: 47 Training Loss: 1.526564
batch: 48 Training Loss: 1.523852
batch: 49 Training Loss: 1.522615
batch: 50 Training Loss: 1.519433
batch: 51 Training Loss: 1.524499
batch: 52 Training Loss: 1.523769
batch: 53 Training Loss: 1.514110
batch: 54 Training Loss: 1.521730
batch: 55 Training Loss: 1.525903
batch: 56 Training Loss: 1.517821
batch: 57 Training Loss: 1.517137
batch: 58 Training Loss: 1.518776
batch: 59 Training Loss: 1.517025
batch: 60 Training Loss: 1.518192
batch: 61 Training Loss: 1.510402
batch: 62 Training Loss: 1.511097
batch: 63 Training Loss: 1.522426
batch: 64 Training Loss: 1.519993
batch: 65 Training Loss: 1.524789
batch: 66 Training Loss: 1.523818
batch: 67 Training Loss: 1.524321
batch: 68 Training Loss: 1.526699
batch: 69 Training Loss: 1.528593
batch: 70 Training Loss: 1.530753
batch: 71 Training Loss: 1.533252
batch: 72 Training Loss: 1.528726
batch: 73 Training Loss: 1.538222
batch: 74 Training Loss: 1.545068
batch: 75 Training Loss: 1.553225
batch: 76 Training Loss: 1.550794
batch: 77 Training Loss: 1.553792
batch: 78 Training Loss: 1.549504
batch: 79 Training Loss: 1.556214
batch: 80 Training Loss: 1.556774
batch: 81 Training Loss: 1.560242
batch: 82 Training Loss: 1.553102
batch: 83 Training Loss: 1.560744
batch: 84 Training Loss: 1.565476
batch: 85 Training Loss: 1.571911
batch: 86 Training Loss: 1.580794
batch: 87 Training Loss: 1.584499
batch: 88 Training Loss: 1.578450
batch: 89 Training Loss: 1.576084
batch: 90 Training Loss: 1.579002
batch: 91 Training Loss: 1.577999
batch: 92 Training Loss: 1.575359
batch: 93 Training Loss: 1.574915
batch: 94 Training Loss: 1.575876

batch: 95 Training Loss: 1.576728
batch: 96 Training Loss: 1.575981
batch: 97 Training Loss: 1.579218
batch: 98 Training Loss: 1.576578
batch: 99 Training Loss: 1.570301
batch: 100 Training Loss: 1.568361
batch: 101 Training Loss: 1.569248
batch: 102 Training Loss: 1.573105
batch: 103 Training Loss: 1.573195
batch: 104 Training Loss: 1.571519
batch: 105 Training Loss: 1.566359
batch: 106 Training Loss: 1.566917
batch: 107 Training Loss: 1.563769
batch: 108 Training Loss: 1.567570
batch: 109 Training Loss: 1.565041
batch: 110 Training Loss: 1.561698
batch: 111 Training Loss: 1.560127
batch: 112 Training Loss: 1.561938
batch: 113 Training Loss: 1.567606
batch: 114 Training Loss: 1.569782
batch: 115 Training Loss: 1.569258
batch: 116 Training Loss: 1.565423
batch: 117 Training Loss: 1.565141
batch: 118 Training Loss: 1.568929
batch: 119 Training Loss: 1.570279
batch: 120 Training Loss: 1.572621
batch: 121 Training Loss: 1.571420
batch: 122 Training Loss: 1.570444
batch: 123 Training Loss: 1.571546
batch: 124 Training Loss: 1.574018
batch: 125 Training Loss: 1.576643
batch: 126 Training Loss: 1.581779
batch: 127 Training Loss: 1.580899
batch: 128 Training Loss: 1.581841
batch: 129 Training Loss: 1.581385
batch: 130 Training Loss: 1.579441
batch: 131 Training Loss: 1.580885
batch: 132 Training Loss: 1.578575
batch: 133 Training Loss: 1.579292
batch: 134 Training Loss: 1.578182
batch: 135 Training Loss: 1.576228
batch: 136 Training Loss: 1.577820
batch: 137 Training Loss: 1.579335
batch: 138 Training Loss: 1.579980
batch: 139 Training Loss: 1.576129
batch: 140 Training Loss: 1.580221
batch: 141 Training Loss: 1.582075
batch: 142 Training Loss: 1.583590
batch: 143 Training Loss: 1.585039
batch: 144 Training Loss: 1.584419
batch: 145 Training Loss: 1.583454
batch: 146 Training Loss: 1.584870
batch: 147 Training Loss: 1.584471
batch: 148 Training Loss: 1.584918
batch: 149 Training Loss: 1.585760
batch: 150 Training Loss: 1.587687
batch: 151 Training Loss: 1.590226
batch: 152 Training Loss: 1.594025
batch: 153 Training Loss: 1.591668
batch: 154 Training Loss: 1.592595
batch: 155 Training Loss: 1.588553
batch: 156 Training Loss: 1.586843
batch: 157 Training Loss: 1.586941
batch: 158 Training Loss: 1.583156
batch: 159 Training Loss: 1.581552
batch: 160 Training Loss: 1.580827
batch: 161 Training Loss: 1.583825
batch: 162 Training Loss: 1.584256
batch: 163 Training Loss: 1.583313
batch: 164 Training Loss: 1.585190
batch: 165 Training Loss: 1.583986
batch: 166 Training Loss: 1.586424
batch: 167 Training Loss: 1.588367
batch: 168 Training Loss: 1.588666
batch: 169 Training Loss: 1.590005
batch: 170 Training Loss: 1.586768
batch: 171 Training Loss: 1.588907
batch: 172 Training Loss: 1.586195
batch: 173 Training Loss: 1.588004
batch: 174 Training Loss: 1.588072
batch: 175 Training Loss: 1.585776
batch: 176 Training Loss: 1.583523
batch: 177 Training Loss: 1.583080
batch: 178 Training Loss: 1.583047
batch: 179 Training Loss: 1.583033
batch: 180 Training Loss: 1.580927
batch: 181 Training Loss: 1.582847
batch: 182 Training Loss: 1.583431
batch: 183 Training Loss: 1.584737
batch: 184 Training Loss: 1.584290
batch: 185 Training Loss: 1.584833

```
batch: 186      Training Loss: 1.585113
batch: 187      Training Loss: 1.584958
batch: 188      Training Loss: 1.585207
batch: 189      Training Loss: 1.586586
batch: 190      Training Loss: 1.585964
batch: 191      Training Loss: 1.584881
batch: 192      Training Loss: 1.584078
batch: 193      Training Loss: 1.584503
batch: 194      Training Loss: 1.583082
batch: 195      Training Loss: 1.582266
batch: 196      Training Loss: 1.581016
batch: 197      Training Loss: 1.582061
batch: 198      Training Loss: 1.582708
batch: 199      Training Loss: 1.583353
batch: 200      Training Loss: 1.583525
batch: 201      Training Loss: 1.582601
batch: 202      Training Loss: 1.581925
batch: 203      Training Loss: 1.582055
batch: 204      Training Loss: 1.582571
batch: 205      Training Loss: 1.584901
batch: 206      Training Loss: 1.584373
batch: 207      Training Loss: 1.583322
batch: 208      Training Loss: 1.584362
Epoch: 4        Training Loss: 1.584362
model saved
batch: 0        Training Loss: 1.088393
batch: 1        Training Loss: 1.216600
batch: 2        Training Loss: 1.326170
batch: 3        Training Loss: 1.247452
batch: 4        Training Loss: 1.318622
batch: 5        Training Loss: 1.237035
batch: 6        Training Loss: 1.280402
batch: 7        Training Loss: 1.288948
batch: 8        Training Loss: 1.276540
batch: 9        Training Loss: 1.283483
batch: 10       Training Loss: 1.259791
batch: 11       Training Loss: 1.271849
batch: 12       Training Loss: 1.273238
batch: 13       Training Loss: 1.250578
batch: 14       Training Loss: 1.228196
batch: 15       Training Loss: 1.227350
batch: 16       Training Loss: 1.237198
batch: 17       Training Loss: 1.278120
batch: 18       Training Loss: 1.283245
batch: 19       Training Loss: 1.271508
batch: 20       Training Loss: 1.273368
batch: 21       Training Loss: 1.265645
batch: 22       Training Loss: 1.269796
batch: 23       Training Loss: 1.279356
batch: 24       Training Loss: 1.289433
batch: 25       Training Loss: 1.303813
batch: 26       Training Loss: 1.320862
batch: 27       Training Loss: 1.326843
batch: 28       Training Loss: 1.318382
batch: 29       Training Loss: 1.319828
batch: 30       Training Loss: 1.327667
batch: 31       Training Loss: 1.339417
batch: 32       Training Loss: 1.343249
batch: 33       Training Loss: 1.338319
batch: 34       Training Loss: 1.321245
batch: 35       Training Loss: 1.323619
batch: 36       Training Loss: 1.323616
batch: 37       Training Loss: 1.336138
batch: 38       Training Loss: 1.335499
batch: 39       Training Loss: 1.328961
batch: 40       Training Loss: 1.338376
batch: 41       Training Loss: 1.340931
batch: 42       Training Loss: 1.337321
batch: 43       Training Loss: 1.351262
batch: 44       Training Loss: 1.358392
batch: 45       Training Loss: 1.352353
batch: 46       Training Loss: 1.351148
batch: 47       Training Loss: 1.348959
batch: 48       Training Loss: 1.350687
batch: 49       Training Loss: 1.363765
batch: 50       Training Loss: 1.364953
batch: 51       Training Loss: 1.358889
batch: 52       Training Loss: 1.361928
batch: 53       Training Loss: 1.362376
batch: 54       Training Loss: 1.368176
batch: 55       Training Loss: 1.364138
batch: 56       Training Loss: 1.377605
batch: 57       Training Loss: 1.382274
batch: 58       Training Loss: 1.376107
batch: 59       Training Loss: 1.377470
batch: 60       Training Loss: 1.375233
batch: 61       Training Loss: 1.387615
batch: 62       Training Loss: 1.394768
batch: 63       Training Loss: 1.395752
batch: 64       Training Loss: 1.394227
batch: 65       Training Loss: 1.389101
Validation Loss: 1.250348
```

batch: 66 Training Loss: 1.392693
batch: 67 Training Loss: 1.395105
batch: 68 Training Loss: 1.393739
batch: 69 Training Loss: 1.396793
batch: 70 Training Loss: 1.393040
batch: 71 Training Loss: 1.391527
batch: 72 Training Loss: 1.398275
batch: 73 Training Loss: 1.399586
batch: 74 Training Loss: 1.409887
batch: 75 Training Loss: 1.409779
batch: 76 Training Loss: 1.401447
batch: 77 Training Loss: 1.402320
batch: 78 Training Loss: 1.402699
batch: 79 Training Loss: 1.408271
batch: 80 Training Loss: 1.409843
batch: 81 Training Loss: 1.407303
batch: 82 Training Loss: 1.418128
batch: 83 Training Loss: 1.419564
batch: 84 Training Loss: 1.422772
batch: 85 Training Loss: 1.424560
batch: 86 Training Loss: 1.426076
batch: 87 Training Loss: 1.429417
batch: 88 Training Loss: 1.427644
batch: 89 Training Loss: 1.432671
batch: 90 Training Loss: 1.438236
batch: 91 Training Loss: 1.436317
batch: 92 Training Loss: 1.436744
batch: 93 Training Loss: 1.435950
batch: 94 Training Loss: 1.436067
batch: 95 Training Loss: 1.435433
batch: 96 Training Loss: 1.432538
batch: 97 Training Loss: 1.432661
batch: 98 Training Loss: 1.430353
batch: 99 Training Loss: 1.427879
batch: 100 Training Loss: 1.426924
batch: 101 Training Loss: 1.432175
batch: 102 Training Loss: 1.433944
batch: 103 Training Loss: 1.434312
batch: 104 Training Loss: 1.433758
batch: 105 Training Loss: 1.432471
batch: 106 Training Loss: 1.427458
batch: 107 Training Loss: 1.425914
batch: 108 Training Loss: 1.424825
batch: 109 Training Loss: 1.424455
batch: 110 Training Loss: 1.422398
batch: 111 Training Loss: 1.422705
batch: 112 Training Loss: 1.424268
batch: 113 Training Loss: 1.425170
batch: 114 Training Loss: 1.428786
batch: 115 Training Loss: 1.431503
batch: 116 Training Loss: 1.430510
batch: 117 Training Loss: 1.431635
batch: 118 Training Loss: 1.434007
batch: 119 Training Loss: 1.438401
batch: 120 Training Loss: 1.432897
batch: 121 Training Loss: 1.434577
batch: 122 Training Loss: 1.433891
batch: 123 Training Loss: 1.434426
batch: 124 Training Loss: 1.431383
batch: 125 Training Loss: 1.431795
batch: 126 Training Loss: 1.427900
batch: 127 Training Loss: 1.427820
batch: 128 Training Loss: 1.425465
batch: 129 Training Loss: 1.426299
batch: 130 Training Loss: 1.426952
batch: 131 Training Loss: 1.425504
batch: 132 Training Loss: 1.426251
batch: 133 Training Loss: 1.426832
batch: 134 Training Loss: 1.428566
batch: 135 Training Loss: 1.428122
batch: 136 Training Loss: 1.426707
batch: 137 Training Loss: 1.425796
batch: 138 Training Loss: 1.426113
batch: 139 Training Loss: 1.428069
batch: 140 Training Loss: 1.426187
batch: 141 Training Loss: 1.426441
batch: 142 Training Loss: 1.424766
batch: 143 Training Loss: 1.425727
batch: 144 Training Loss: 1.423384
batch: 145 Training Loss: 1.420717
batch: 146 Training Loss: 1.420653
batch: 147 Training Loss: 1.416972
batch: 148 Training Loss: 1.418608
batch: 149 Training Loss: 1.416113
batch: 150 Training Loss: 1.416707
batch: 151 Training Loss: 1.417392
batch: 152 Training Loss: 1.415286
batch: 153 Training Loss: 1.415177
batch: 154 Training Loss: 1.416002
batch: 155 Training Loss: 1.416119
batch: 156 Training Loss: 1.416817
--

```
batch: 157      Training Loss: 1.415605
batch: 158      Training Loss: 1.416774
batch: 159      Training Loss: 1.418501
batch: 160      Training Loss: 1.416342
batch: 161      Training Loss: 1.412106
batch: 162      Training Loss: 1.414165
batch: 163      Training Loss: 1.413409
batch: 164      Training Loss: 1.412536
batch: 165      Training Loss: 1.412886
batch: 166      Training Loss: 1.414446
batch: 167      Training Loss: 1.413049
batch: 168      Training Loss: 1.413829
batch: 169      Training Loss: 1.414556
batch: 170      Training Loss: 1.418443
batch: 171      Training Loss: 1.417837
batch: 172      Training Loss: 1.418646
batch: 173      Training Loss: 1.417902
batch: 174      Training Loss: 1.422528
batch: 175      Training Loss: 1.423710
batch: 176      Training Loss: 1.423561
batch: 177      Training Loss: 1.423372
batch: 178      Training Loss: 1.424675
batch: 179      Training Loss: 1.424983
batch: 180      Training Loss: 1.423398
batch: 181      Training Loss: 1.423398
batch: 182      Training Loss: 1.423467
batch: 183      Training Loss: 1.426106
batch: 184      Training Loss: 1.427100
batch: 185      Training Loss: 1.430661
batch: 186      Training Loss: 1.432102
batch: 187      Training Loss: 1.431374
batch: 188      Training Loss: 1.433950
batch: 189      Training Loss: 1.433251
batch: 190      Training Loss: 1.431279
batch: 191      Training Loss: 1.431632
batch: 192      Training Loss: 1.429018
batch: 193      Training Loss: 1.427942
batch: 194      Training Loss: 1.428482
batch: 195      Training Loss: 1.428562
batch: 196      Training Loss: 1.429386
batch: 197      Training Loss: 1.429109
batch: 198      Training Loss: 1.429513
batch: 199      Training Loss: 1.432563
batch: 200      Training Loss: 1.432966
batch: 201      Training Loss: 1.432122
batch: 202      Training Loss: 1.431529
batch: 203      Training Loss: 1.431092
batch: 204      Training Loss: 1.429963
batch: 205      Training Loss: 1.429617
batch: 206      Training Loss: 1.430059
batch: 207      Training Loss: 1.429043
batch: 208      Training Loss: 1.428735
Epoch: 5        Training Loss: 1.428735          Validation Loss: 1.171473
model saved

batch: 0        Training Loss: 1.274576
batch: 1        Training Loss: 1.239572
batch: 2        Training Loss: 1.166833
batch: 3        Training Loss: 1.171553
batch: 4        Training Loss: 1.171734
batch: 5        Training Loss: 1.218668
batch: 6        Training Loss: 1.272454
batch: 7        Training Loss: 1.209353
batch: 8        Training Loss: 1.219732
batch: 9        Training Loss: 1.230879
batch: 10       Training Loss: 1.252910
batch: 11       Training Loss: 1.245354
batch: 12       Training Loss: 1.265681
batch: 13       Training Loss: 1.246966
batch: 14       Training Loss: 1.211510
batch: 15       Training Loss: 1.193737
batch: 16       Training Loss: 1.195246
batch: 17       Training Loss: 1.173350
batch: 18       Training Loss: 1.154529
batch: 19       Training Loss: 1.178570
batch: 20       Training Loss: 1.195518
batch: 21       Training Loss: 1.203675
batch: 22       Training Loss: 1.206474
batch: 23       Training Loss: 1.192884
batch: 24       Training Loss: 1.204116
batch: 25       Training Loss: 1.208016
batch: 26       Training Loss: 1.219770
batch: 27       Training Loss: 1.221698
batch: 28       Training Loss: 1.219926
batch: 29       Training Loss: 1.220744
batch: 30       Training Loss: 1.215645
batch: 31       Training Loss: 1.229607
batch: 32       Training Loss: 1.221786
batch: 33       Training Loss: 1.228157
batch: 34       Training Loss: 1.228691
batch: 35       Training Loss: 1.248556
batch: 36       Training Loss: 1.254956
. . . --
```

batch: 37 Training Loss: 1.261345
batch: 38 Training Loss: 1.255096
batch: 39 Training Loss: 1.257256
batch: 40 Training Loss: 1.263426
batch: 41 Training Loss: 1.259405
batch: 42 Training Loss: 1.257397
batch: 43 Training Loss: 1.245456
batch: 44 Training Loss: 1.242000
batch: 45 Training Loss: 1.247431
batch: 46 Training Loss: 1.238458
batch: 47 Training Loss: 1.242387
batch: 48 Training Loss: 1.234092
batch: 49 Training Loss: 1.232191
batch: 50 Training Loss: 1.231446
batch: 51 Training Loss: 1.226625
batch: 52 Training Loss: 1.222653
batch: 53 Training Loss: 1.221501
batch: 54 Training Loss: 1.226362
batch: 55 Training Loss: 1.222819
batch: 56 Training Loss: 1.226831
batch: 57 Training Loss: 1.228053
batch: 58 Training Loss: 1.233301
batch: 59 Training Loss: 1.231937
batch: 60 Training Loss: 1.236468
batch: 61 Training Loss: 1.240025
batch: 62 Training Loss: 1.238968
batch: 63 Training Loss: 1.239304
batch: 64 Training Loss: 1.242581
batch: 65 Training Loss: 1.245676
batch: 66 Training Loss: 1.243874
batch: 67 Training Loss: 1.242342
batch: 68 Training Loss: 1.243102
batch: 69 Training Loss: 1.237650
batch: 70 Training Loss: 1.247040
batch: 71 Training Loss: 1.246740
batch: 72 Training Loss: 1.239160
batch: 73 Training Loss: 1.243667
batch: 74 Training Loss: 1.240368
batch: 75 Training Loss: 1.243672
batch: 76 Training Loss: 1.245516
batch: 77 Training Loss: 1.246384
batch: 78 Training Loss: 1.248674
batch: 79 Training Loss: 1.249194
batch: 80 Training Loss: 1.249779
batch: 81 Training Loss: 1.248357
batch: 82 Training Loss: 1.252943
batch: 83 Training Loss: 1.249719
batch: 84 Training Loss: 1.251817
batch: 85 Training Loss: 1.253926
batch: 86 Training Loss: 1.253280
batch: 87 Training Loss: 1.260275
batch: 88 Training Loss: 1.259788
batch: 89 Training Loss: 1.259533
batch: 90 Training Loss: 1.260546
batch: 91 Training Loss: 1.266523
batch: 92 Training Loss: 1.267171
batch: 93 Training Loss: 1.268097
batch: 94 Training Loss: 1.268175
batch: 95 Training Loss: 1.265266
batch: 96 Training Loss: 1.262778
batch: 97 Training Loss: 1.264623
batch: 98 Training Loss: 1.262578
batch: 99 Training Loss: 1.264790
batch: 100 Training Loss: 1.263142
batch: 101 Training Loss: 1.263998
batch: 102 Training Loss: 1.263743
batch: 103 Training Loss: 1.262115
batch: 104 Training Loss: 1.261665
batch: 105 Training Loss: 1.263768
batch: 106 Training Loss: 1.261471
batch: 107 Training Loss: 1.264277
batch: 108 Training Loss: 1.270777
batch: 109 Training Loss: 1.268476
batch: 110 Training Loss: 1.268134
batch: 111 Training Loss: 1.264616
batch: 112 Training Loss: 1.265034
batch: 113 Training Loss: 1.267209
batch: 114 Training Loss: 1.264844
batch: 115 Training Loss: 1.269446
batch: 116 Training Loss: 1.271887
batch: 117 Training Loss: 1.272221
batch: 118 Training Loss: 1.276144
batch: 119 Training Loss: 1.279062
batch: 120 Training Loss: 1.276544
batch: 121 Training Loss: 1.281829
batch: 122 Training Loss: 1.281777
batch: 123 Training Loss: 1.282392
batch: 124 Training Loss: 1.285950
batch: 125 Training Loss: 1.287571
batch: 126 Training Loss: 1.289104
batch: 127 Training Loss: 1.290143

batch: 128 Training Loss: 1.294872
batch: 129 Training Loss: 1.294423
batch: 130 Training Loss: 1.298073
batch: 131 Training Loss: 1.293556
batch: 132 Training Loss: 1.294831
batch: 133 Training Loss: 1.295286
batch: 134 Training Loss: 1.296080
batch: 135 Training Loss: 1.296163
batch: 136 Training Loss: 1.298475
batch: 137 Training Loss: 1.295657
batch: 138 Training Loss: 1.296804
batch: 139 Training Loss: 1.298959
batch: 140 Training Loss: 1.295098
batch: 141 Training Loss: 1.294569
batch: 142 Training Loss: 1.296932
batch: 143 Training Loss: 1.298484
batch: 144 Training Loss: 1.296933
batch: 145 Training Loss: 1.298886
batch: 146 Training Loss: 1.298347
batch: 147 Training Loss: 1.295218
batch: 148 Training Loss: 1.295088
batch: 149 Training Loss: 1.296713
batch: 150 Training Loss: 1.295969
batch: 151 Training Loss: 1.296418
batch: 152 Training Loss: 1.294962
batch: 153 Training Loss: 1.298037
batch: 154 Training Loss: 1.297071
batch: 155 Training Loss: 1.294412
batch: 156 Training Loss: 1.294231
batch: 157 Training Loss: 1.291452
batch: 158 Training Loss: 1.291790
batch: 159 Training Loss: 1.292753
batch: 160 Training Loss: 1.290996
batch: 161 Training Loss: 1.289003
batch: 162 Training Loss: 1.289809
batch: 163 Training Loss: 1.289512
batch: 164 Training Loss: 1.289143
batch: 165 Training Loss: 1.287752
batch: 166 Training Loss: 1.287706
batch: 167 Training Loss: 1.290084
batch: 168 Training Loss: 1.288216
batch: 169 Training Loss: 1.288320
batch: 170 Training Loss: 1.292266
batch: 171 Training Loss: 1.291769
batch: 172 Training Loss: 1.291546
batch: 173 Training Loss: 1.292524
batch: 174 Training Loss: 1.294532
batch: 175 Training Loss: 1.295952
batch: 176 Training Loss: 1.298157
batch: 177 Training Loss: 1.298869
batch: 178 Training Loss: 1.300098
batch: 179 Training Loss: 1.300446
batch: 180 Training Loss: 1.299633
batch: 181 Training Loss: 1.299871
batch: 182 Training Loss: 1.298303
batch: 183 Training Loss: 1.297571
batch: 184 Training Loss: 1.296485
batch: 185 Training Loss: 1.295151
batch: 186 Training Loss: 1.293999
batch: 187 Training Loss: 1.295483
batch: 188 Training Loss: 1.294914
batch: 189 Training Loss: 1.295063
batch: 190 Training Loss: 1.296713
batch: 191 Training Loss: 1.296285
batch: 192 Training Loss: 1.295211
batch: 193 Training Loss: 1.297374
batch: 194 Training Loss: 1.298665
batch: 195 Training Loss: 1.300153
batch: 196 Training Loss: 1.302858
batch: 197 Training Loss: 1.301211
batch: 198 Training Loss: 1.303055
batch: 199 Training Loss: 1.304297
batch: 200 Training Loss: 1.304619
batch: 201 Training Loss: 1.306560
batch: 202 Training Loss: 1.306617
batch: 203 Training Loss: 1.306599
batch: 204 Training Loss: 1.307469
batch: 205 Training Loss: 1.305844
batch: 206 Training Loss: 1.307051
batch: 207 Training Loss: 1.308063
batch: 208 Training Loss: 1.307456
Epoch: 6 Training Loss: 1.307456 Validation Loss: 1.202292
batch: 0 Training Loss: 1.413233
batch: 1 Training Loss: 1.210572
batch: 2 Training Loss: 1.282045
batch: 3 Training Loss: 1.260994
batch: 4 Training Loss: 1.207042
batch: 5 Training Loss: 1.275031
batch: 6 Training Loss: 1.267690
batch: 7 Training Loss: 1.241389
batch: 8 Training Loss: 1.274127
batch: 9 Training Loss: 1.227702

batch: 9 Training Loss: 1.327798
batch: 10 Training Loss: 1.310794
batch: 11 Training Loss: 1.323619
batch: 12 Training Loss: 1.315117
batch: 13 Training Loss: 1.293338
batch: 14 Training Loss: 1.298148
batch: 15 Training Loss: 1.296810
batch: 16 Training Loss: 1.278356
batch: 17 Training Loss: 1.259961
batch: 18 Training Loss: 1.241642
batch: 19 Training Loss: 1.224028
batch: 20 Training Loss: 1.218950
batch: 21 Training Loss: 1.226507
batch: 22 Training Loss: 1.219282
batch: 23 Training Loss: 1.223698
batch: 24 Training Loss: 1.228760
batch: 25 Training Loss: 1.224694
batch: 26 Training Loss: 1.229109
batch: 27 Training Loss: 1.228980
batch: 28 Training Loss: 1.231173
batch: 29 Training Loss: 1.215341
batch: 30 Training Loss: 1.214682
batch: 31 Training Loss: 1.200981
batch: 32 Training Loss: 1.195231
batch: 33 Training Loss: 1.200268
batch: 34 Training Loss: 1.196343
batch: 35 Training Loss: 1.193927
batch: 36 Training Loss: 1.199655
batch: 37 Training Loss: 1.191967
batch: 38 Training Loss: 1.192963
batch: 39 Training Loss: 1.194971
batch: 40 Training Loss: 1.200552
batch: 41 Training Loss: 1.201694
batch: 42 Training Loss: 1.198194
batch: 43 Training Loss: 1.206621
batch: 44 Training Loss: 1.204701
batch: 45 Training Loss: 1.224978
batch: 46 Training Loss: 1.232321
batch: 47 Training Loss: 1.228717
batch: 48 Training Loss: 1.227127
batch: 49 Training Loss: 1.223236
batch: 50 Training Loss: 1.222739
batch: 51 Training Loss: 1.213769
batch: 52 Training Loss: 1.210313
batch: 53 Training Loss: 1.206560
batch: 54 Training Loss: 1.203804
batch: 55 Training Loss: 1.195877
batch: 56 Training Loss: 1.195562
batch: 57 Training Loss: 1.189307
batch: 58 Training Loss: 1.186459
batch: 59 Training Loss: 1.190117
batch: 60 Training Loss: 1.187723
batch: 61 Training Loss: 1.185808
batch: 62 Training Loss: 1.189498
batch: 63 Training Loss: 1.184076
batch: 64 Training Loss: 1.186639
batch: 65 Training Loss: 1.183831
batch: 66 Training Loss: 1.180818
batch: 67 Training Loss: 1.180738
batch: 68 Training Loss: 1.185306
batch: 69 Training Loss: 1.184934
batch: 70 Training Loss: 1.184372
batch: 71 Training Loss: 1.190601
batch: 72 Training Loss: 1.186299
batch: 73 Training Loss: 1.185457
batch: 74 Training Loss: 1.181661
batch: 75 Training Loss: 1.188619
batch: 76 Training Loss: 1.189828
batch: 77 Training Loss: 1.186833
batch: 78 Training Loss: 1.183708
batch: 79 Training Loss: 1.182303
batch: 80 Training Loss: 1.181824
batch: 81 Training Loss: 1.185991
batch: 82 Training Loss: 1.191434
batch: 83 Training Loss: 1.188897
batch: 84 Training Loss: 1.195047
batch: 85 Training Loss: 1.194449
batch: 86 Training Loss: 1.197631
batch: 87 Training Loss: 1.194772
batch: 88 Training Loss: 1.193745
batch: 89 Training Loss: 1.196134
batch: 90 Training Loss: 1.196985
batch: 91 Training Loss: 1.196106
batch: 92 Training Loss: 1.198649
batch: 93 Training Loss: 1.202342
batch: 94 Training Loss: 1.198053
batch: 95 Training Loss: 1.199576
batch: 96 Training Loss: 1.198171
batch: 97 Training Loss: 1.202453
batch: 98 Training Loss: 1.201152
batch: 99 Training Loss: 1.201383
batch: 100 Training Loss: 1.205001

batch: 100 Training Loss: 1.206677
batch: 101 Training Loss: 1.203202
batch: 102 Training Loss: 1.205540
batch: 103 Training Loss: 1.201559
batch: 104 Training Loss: 1.199892
batch: 105 Training Loss: 1.196099
batch: 106 Training Loss: 1.194770
batch: 107 Training Loss: 1.195405
batch: 108 Training Loss: 1.194177
batch: 109 Training Loss: 1.193294
batch: 110 Training Loss: 1.193408
batch: 111 Training Loss: 1.197537
batch: 112 Training Loss: 1.195371
batch: 113 Training Loss: 1.193585
batch: 114 Training Loss: 1.194492
batch: 115 Training Loss: 1.195116
batch: 116 Training Loss: 1.197654
batch: 117 Training Loss: 1.193052
batch: 118 Training Loss: 1.194299
batch: 119 Training Loss: 1.195799
batch: 120 Training Loss: 1.196454
batch: 121 Training Loss: 1.199336
batch: 122 Training Loss: 1.203024
batch: 123 Training Loss: 1.201102
batch: 124 Training Loss: 1.203487
batch: 125 Training Loss: 1.206158
batch: 126 Training Loss: 1.203341
batch: 127 Training Loss: 1.207580
batch: 128 Training Loss: 1.208564
batch: 129 Training Loss: 1.208662
batch: 130 Training Loss: 1.208726
batch: 131 Training Loss: 1.207134
batch: 132 Training Loss: 1.209378
batch: 133 Training Loss: 1.210539
batch: 134 Training Loss: 1.213013
batch: 135 Training Loss: 1.212506
batch: 136 Training Loss: 1.212108
batch: 137 Training Loss: 1.214019
batch: 138 Training Loss: 1.212577
batch: 139 Training Loss: 1.215084
batch: 140 Training Loss: 1.218553
batch: 141 Training Loss: 1.220093
batch: 142 Training Loss: 1.221141
batch: 143 Training Loss: 1.223053
batch: 144 Training Loss: 1.225487
batch: 145 Training Loss: 1.226162
batch: 146 Training Loss: 1.226349
batch: 147 Training Loss: 1.226526
batch: 148 Training Loss: 1.224147
batch: 149 Training Loss: 1.222074
batch: 150 Training Loss: 1.220568
batch: 151 Training Loss: 1.220153
batch: 152 Training Loss: 1.220507
batch: 153 Training Loss: 1.220993
batch: 154 Training Loss: 1.218133
batch: 155 Training Loss: 1.219632
batch: 156 Training Loss: 1.218348
batch: 157 Training Loss: 1.220588
batch: 158 Training Loss: 1.219839
batch: 159 Training Loss: 1.220829
batch: 160 Training Loss: 1.219352
batch: 161 Training Loss: 1.218096
batch: 162 Training Loss: 1.220181
batch: 163 Training Loss: 1.218728
batch: 164 Training Loss: 1.218204
batch: 165 Training Loss: 1.218799
batch: 166 Training Loss: 1.218677
batch: 167 Training Loss: 1.218415
batch: 168 Training Loss: 1.218467
batch: 169 Training Loss: 1.217661
batch: 170 Training Loss: 1.216429
batch: 171 Training Loss: 1.220589
batch: 172 Training Loss: 1.221820
batch: 173 Training Loss: 1.224872
batch: 174 Training Loss: 1.225968
batch: 175 Training Loss: 1.226855
batch: 176 Training Loss: 1.227830
batch: 177 Training Loss: 1.226418
batch: 178 Training Loss: 1.225834
batch: 179 Training Loss: 1.224899
batch: 180 Training Loss: 1.224527
batch: 181 Training Loss: 1.224557
batch: 182 Training Loss: 1.224317
batch: 183 Training Loss: 1.222366
batch: 184 Training Loss: 1.223529
batch: 185 Training Loss: 1.223211
batch: 186 Training Loss: 1.223905
batch: 187 Training Loss: 1.221862
batch: 188 Training Loss: 1.220562
batch: 189 Training Loss: 1.219040
batch: 190 Training Loss: 1.220555
batch: 191 Training Loss: 1.222629

```
batch: 171      Training Loss: 1.223052
batch: 192      Training Loss: 1.224476
batch: 193      Training Loss: 1.226242
batch: 194      Training Loss: 1.227761
batch: 195      Training Loss: 1.228807
batch: 196      Training Loss: 1.227823
batch: 197      Training Loss: 1.227741
batch: 198      Training Loss: 1.228991
batch: 199      Training Loss: 1.228303
batch: 200      Training Loss: 1.227346
batch: 201      Training Loss: 1.225340
batch: 202      Training Loss: 1.224290
batch: 203      Training Loss: 1.223474
batch: 204      Training Loss: 1.222389
batch: 205      Training Loss: 1.221424
batch: 206      Training Loss: 1.221960
batch: 207      Training Loss: 1.220766
batch: 208      Training Loss: 1.219192
Epoch: 7        Training Loss: 1.219192      Validation Loss: 1.135864
model saved
batch: 0        Training Loss: 0.765940
batch: 1        Training Loss: 0.944677
batch: 2        Training Loss: 0.975062
batch: 3        Training Loss: 1.026545
batch: 4        Training Loss: 1.154061
batch: 5        Training Loss: 1.160167
batch: 6        Training Loss: 1.180822
batch: 7        Training Loss: 1.124176
batch: 8        Training Loss: 1.129027
batch: 9        Training Loss: 1.125277
batch: 10       Training Loss: 1.166083
batch: 11       Training Loss: 1.189041
batch: 12       Training Loss: 1.171664
batch: 13       Training Loss: 1.198189
batch: 14       Training Loss: 1.185978
batch: 15       Training Loss: 1.205465
batch: 16       Training Loss: 1.206628
batch: 17       Training Loss: 1.226451
batch: 18       Training Loss: 1.233376
batch: 19       Training Loss: 1.251818
batch: 20       Training Loss: 1.255464
batch: 21       Training Loss: 1.224739
batch: 22       Training Loss: 1.207875
batch: 23       Training Loss: 1.185400
batch: 24       Training Loss: 1.165647
batch: 25       Training Loss: 1.158232
batch: 26       Training Loss: 1.160408
batch: 27       Training Loss: 1.145659
batch: 28       Training Loss: 1.148755
batch: 29       Training Loss: 1.152152
batch: 30       Training Loss: 1.165297
batch: 31       Training Loss: 1.144117
batch: 32       Training Loss: 1.143916
batch: 33       Training Loss: 1.144616
batch: 34       Training Loss: 1.142579
batch: 35       Training Loss: 1.135262
batch: 36       Training Loss: 1.138707
batch: 37       Training Loss: 1.130438
batch: 38       Training Loss: 1.127729
batch: 39       Training Loss: 1.123838
batch: 40       Training Loss: 1.114957
batch: 41       Training Loss: 1.108462
batch: 42       Training Loss: 1.102912
batch: 43       Training Loss: 1.105808
batch: 44       Training Loss: 1.107136
batch: 45       Training Loss: 1.099593
batch: 46       Training Loss: 1.103522
batch: 47       Training Loss: 1.100127
batch: 48       Training Loss: 1.100930
batch: 49       Training Loss: 1.098151
batch: 50       Training Loss: 1.097303
batch: 51       Training Loss: 1.093429
batch: 52       Training Loss: 1.100449
batch: 53       Training Loss: 1.104509
batch: 54       Training Loss: 1.103776
batch: 55       Training Loss: 1.107361
batch: 56       Training Loss: 1.105538
batch: 57       Training Loss: 1.107303
batch: 58       Training Loss: 1.107804
batch: 59       Training Loss: 1.110289
batch: 60       Training Loss: 1.106726
batch: 61       Training Loss: 1.102880
batch: 62       Training Loss: 1.105497
batch: 63       Training Loss: 1.110855
batch: 64       Training Loss: 1.112342
batch: 65       Training Loss: 1.114307
batch: 66       Training Loss: 1.118676
batch: 67       Training Loss: 1.120892
batch: 68       Training Loss: 1.121144
batch: 69       Training Loss: 1.119702
batch: 70       Training Loss: 1.116433
batch: 71       Training Loss: 1.115973
```

batch: 71 Training Loss: 1.115577
batch: 72 Training Loss: 1.117426
batch: 73 Training Loss: 1.116298
batch: 74 Training Loss: 1.115935
batch: 75 Training Loss: 1.112545
batch: 76 Training Loss: 1.116772
batch: 77 Training Loss: 1.112435
batch: 78 Training Loss: 1.109941
batch: 79 Training Loss: 1.114101
batch: 80 Training Loss: 1.111547
batch: 81 Training Loss: 1.110914
batch: 82 Training Loss: 1.109280
batch: 83 Training Loss: 1.110564
batch: 84 Training Loss: 1.116855
batch: 85 Training Loss: 1.113192
batch: 86 Training Loss: 1.114369
batch: 87 Training Loss: 1.112916
batch: 88 Training Loss: 1.111178
batch: 89 Training Loss: 1.119216
batch: 90 Training Loss: 1.118842
batch: 91 Training Loss: 1.127861
batch: 92 Training Loss: 1.127057
batch: 93 Training Loss: 1.129477
batch: 94 Training Loss: 1.131772
batch: 95 Training Loss: 1.132261
batch: 96 Training Loss: 1.129343
batch: 97 Training Loss: 1.132431
batch: 98 Training Loss: 1.132353
batch: 99 Training Loss: 1.128917
batch: 100 Training Loss: 1.124890
batch: 101 Training Loss: 1.128130
batch: 102 Training Loss: 1.127274
batch: 103 Training Loss: 1.129209
batch: 104 Training Loss: 1.131853
batch: 105 Training Loss: 1.133029
batch: 106 Training Loss: 1.133591
batch: 107 Training Loss: 1.133876
batch: 108 Training Loss: 1.128470
batch: 109 Training Loss: 1.131994
batch: 110 Training Loss: 1.128972
batch: 111 Training Loss: 1.129766
batch: 112 Training Loss: 1.131483
batch: 113 Training Loss: 1.135902
batch: 114 Training Loss: 1.137572
batch: 115 Training Loss: 1.138622
batch: 116 Training Loss: 1.137460
batch: 117 Training Loss: 1.138316
batch: 118 Training Loss: 1.139153
batch: 119 Training Loss: 1.137996
batch: 120 Training Loss: 1.137627
batch: 121 Training Loss: 1.134314
batch: 122 Training Loss: 1.131170
batch: 123 Training Loss: 1.131289
batch: 124 Training Loss: 1.135404
batch: 125 Training Loss: 1.137097
batch: 126 Training Loss: 1.139172
batch: 127 Training Loss: 1.135775
batch: 128 Training Loss: 1.137049
batch: 129 Training Loss: 1.138768
batch: 130 Training Loss: 1.139298
batch: 131 Training Loss: 1.136347
batch: 132 Training Loss: 1.136148
batch: 133 Training Loss: 1.138730
batch: 134 Training Loss: 1.139107
batch: 135 Training Loss: 1.142020
batch: 136 Training Loss: 1.142227
batch: 137 Training Loss: 1.141455
batch: 138 Training Loss: 1.141378
batch: 139 Training Loss: 1.143724
batch: 140 Training Loss: 1.144943
batch: 141 Training Loss: 1.142881
batch: 142 Training Loss: 1.140653
batch: 143 Training Loss: 1.139505
batch: 144 Training Loss: 1.139279
batch: 145 Training Loss: 1.140121
batch: 146 Training Loss: 1.142324
batch: 147 Training Loss: 1.141670
batch: 148 Training Loss: 1.140366
batch: 149 Training Loss: 1.141401
batch: 150 Training Loss: 1.143555
batch: 151 Training Loss: 1.145921
batch: 152 Training Loss: 1.147893
batch: 153 Training Loss: 1.148411
batch: 154 Training Loss: 1.151971
batch: 155 Training Loss: 1.148477
batch: 156 Training Loss: 1.149274
batch: 157 Training Loss: 1.151382
batch: 158 Training Loss: 1.151493
batch: 159 Training Loss: 1.149771
batch: 160 Training Loss: 1.152105
batch: 161 Training Loss: 1.154363
batch: 162 Training Loss: 1.151175

batch: 162 Training Loss: 1.155987
batch: 163 Training Loss: 1.152534
batch: 164 Training Loss: 1.153294
batch: 165 Training Loss: 1.155984
batch: 166 Training Loss: 1.156817
batch: 167 Training Loss: 1.156112
batch: 168 Training Loss: 1.153529
batch: 169 Training Loss: 1.154309
batch: 170 Training Loss: 1.151944
batch: 171 Training Loss: 1.150208
batch: 172 Training Loss: 1.150005
batch: 173 Training Loss: 1.150649
batch: 174 Training Loss: 1.150444
batch: 175 Training Loss: 1.151217
batch: 176 Training Loss: 1.153922
batch: 177 Training Loss: 1.154673
batch: 178 Training Loss: 1.154983
batch: 179 Training Loss: 1.153999
batch: 180 Training Loss: 1.155009
batch: 181 Training Loss: 1.153579
batch: 182 Training Loss: 1.155284
batch: 183 Training Loss: 1.154859
batch: 184 Training Loss: 1.156038
batch: 185 Training Loss: 1.155925
batch: 186 Training Loss: 1.161382
batch: 187 Training Loss: 1.160930
batch: 188 Training Loss: 1.161366
batch: 189 Training Loss: 1.161568
batch: 190 Training Loss: 1.161993
batch: 191 Training Loss: 1.159672
batch: 192 Training Loss: 1.158237
batch: 193 Training Loss: 1.155606
batch: 194 Training Loss: 1.157969
batch: 195 Training Loss: 1.159061
batch: 196 Training Loss: 1.157270
batch: 197 Training Loss: 1.157313
batch: 198 Training Loss: 1.157910
batch: 199 Training Loss: 1.162336
batch: 200 Training Loss: 1.164359
batch: 201 Training Loss: 1.164504
batch: 202 Training Loss: 1.162072
batch: 203 Training Loss: 1.159617
batch: 204 Training Loss: 1.160497
batch: 205 Training Loss: 1.159797
batch: 206 Training Loss: 1.159749
batch: 207 Training Loss: 1.160532
batch: 208 Training Loss: 1.162724
Epoch: 8 Training Loss: 1.162724 Validation Loss: 1.183170
batch: 0 Training Loss: 0.629188
batch: 1 Training Loss: 0.736518
batch: 2 Training Loss: 0.721209
batch: 3 Training Loss: 0.795737
batch: 4 Training Loss: 0.915704
batch: 5 Training Loss: 0.882651
batch: 6 Training Loss: 0.861378
batch: 7 Training Loss: 0.896059
batch: 8 Training Loss: 0.916208
batch: 9 Training Loss: 0.912086
batch: 10 Training Loss: 0.941882
batch: 11 Training Loss: 0.928577
batch: 12 Training Loss: 0.931995
batch: 13 Training Loss: 0.953534
batch: 14 Training Loss: 0.946880
batch: 15 Training Loss: 0.941457
batch: 16 Training Loss: 0.942504
batch: 17 Training Loss: 0.946706
batch: 18 Training Loss: 0.918960
batch: 19 Training Loss: 0.935004
batch: 20 Training Loss: 0.926611
batch: 21 Training Loss: 0.931361
batch: 22 Training Loss: 0.942910
batch: 23 Training Loss: 0.956392
batch: 24 Training Loss: 0.969452
batch: 25 Training Loss: 0.968068
batch: 26 Training Loss: 0.962493
batch: 27 Training Loss: 0.965162
batch: 28 Training Loss: 0.960969
batch: 29 Training Loss: 0.956471
batch: 30 Training Loss: 0.976467
batch: 31 Training Loss: 0.984716
batch: 32 Training Loss: 1.014420
batch: 33 Training Loss: 1.020219
batch: 34 Training Loss: 1.022563
batch: 35 Training Loss: 1.030785
batch: 36 Training Loss: 1.032690
batch: 37 Training Loss: 1.028346
batch: 38 Training Loss: 1.026810
batch: 39 Training Loss: 1.028930
batch: 40 Training Loss: 1.021103
batch: 41 Training Loss: 1.022610
batch: 42 Training Loss: 1.027757
batch: 43 Training Loss: 1.035000

```
-- -- -- -- --  
batch: 44 Training Loss: 1.033701  
batch: 45 Training Loss: 1.038410  
batch: 46 Training Loss: 1.039495  
batch: 47 Training Loss: 1.034123  
batch: 48 Training Loss: 1.037846  
batch: 49 Training Loss: 1.032341  
batch: 50 Training Loss: 1.030590  
batch: 51 Training Loss: 1.031085  
batch: 52 Training Loss: 1.038697  
batch: 53 Training Loss: 1.041920  
batch: 54 Training Loss: 1.042064  
batch: 55 Training Loss: 1.045918  
batch: 56 Training Loss: 1.048462  
batch: 57 Training Loss: 1.046468  
batch: 58 Training Loss: 1.044381  
batch: 59 Training Loss: 1.045191  
batch: 60 Training Loss: 1.046434  
batch: 61 Training Loss: 1.050924  
batch: 62 Training Loss: 1.050815  
batch: 63 Training Loss: 1.053626  
batch: 64 Training Loss: 1.056160  
batch: 65 Training Loss: 1.058866  
batch: 66 Training Loss: 1.058919  
batch: 67 Training Loss: 1.055998  
batch: 68 Training Loss: 1.053052  
batch: 69 Training Loss: 1.050338  
batch: 70 Training Loss: 1.054708  
batch: 71 Training Loss: 1.055316  
batch: 72 Training Loss: 1.055791  
batch: 73 Training Loss: 1.055929  
batch: 74 Training Loss: 1.054417  
batch: 75 Training Loss: 1.054574  
batch: 76 Training Loss: 1.061583  
batch: 77 Training Loss: 1.060117  
batch: 78 Training Loss: 1.064146  
batch: 79 Training Loss: 1.059674  
batch: 80 Training Loss: 1.060704  
batch: 81 Training Loss: 1.061911  
batch: 82 Training Loss: 1.057551  
batch: 83 Training Loss: 1.056228  
batch: 84 Training Loss: 1.055899  
batch: 85 Training Loss: 1.055964  
batch: 86 Training Loss: 1.055385  
batch: 87 Training Loss: 1.058687  
batch: 88 Training Loss: 1.059698  
batch: 89 Training Loss: 1.059997  
batch: 90 Training Loss: 1.061175  
batch: 91 Training Loss: 1.060404  
batch: 92 Training Loss: 1.056892  
batch: 93 Training Loss: 1.059643  
batch: 94 Training Loss: 1.062770  
batch: 95 Training Loss: 1.061574  
batch: 96 Training Loss: 1.063998  
batch: 97 Training Loss: 1.059526  
batch: 98 Training Loss: 1.059727  
batch: 99 Training Loss: 1.058364  
batch: 100 Training Loss: 1.058272  
batch: 101 Training Loss: 1.056307  
batch: 102 Training Loss: 1.055331  
batch: 103 Training Loss: 1.056126  
batch: 104 Training Loss: 1.060063  
batch: 105 Training Loss: 1.055909  
batch: 106 Training Loss: 1.052493  
batch: 107 Training Loss: 1.051446  
batch: 108 Training Loss: 1.052493  
batch: 109 Training Loss: 1.054628  
batch: 110 Training Loss: 1.057727  
batch: 111 Training Loss: 1.058964  
batch: 112 Training Loss: 1.058531  
batch: 113 Training Loss: 1.062779  
batch: 114 Training Loss: 1.066982  
batch: 115 Training Loss: 1.068056  
batch: 116 Training Loss: 1.067882  
batch: 117 Training Loss: 1.065377  
batch: 118 Training Loss: 1.069646  
batch: 119 Training Loss: 1.068729  
batch: 120 Training Loss: 1.064270  
batch: 121 Training Loss: 1.059764  
batch: 122 Training Loss: 1.061934  
batch: 123 Training Loss: 1.063111  
batch: 124 Training Loss: 1.062601  
batch: 125 Training Loss: 1.060256  
batch: 126 Training Loss: 1.063095  
batch: 127 Training Loss: 1.062798  
batch: 128 Training Loss: 1.062488  
batch: 129 Training Loss: 1.062490  
batch: 130 Training Loss: 1.062887  
batch: 131 Training Loss: 1.067571  
batch: 132 Training Loss: 1.066621  
batch: 133 Training Loss: 1.067651  
batch: 134 Training Loss: 1.069799
```

batch: 135 Training Loss: 1.069211
batch: 136 Training Loss: 1.068826
batch: 137 Training Loss: 1.067167
batch: 138 Training Loss: 1.065379
batch: 139 Training Loss: 1.070161
batch: 140 Training Loss: 1.070706
batch: 141 Training Loss: 1.071131
batch: 142 Training Loss: 1.072524
batch: 143 Training Loss: 1.070694
batch: 144 Training Loss: 1.070520
batch: 145 Training Loss: 1.071180
batch: 146 Training Loss: 1.070723
batch: 147 Training Loss: 1.072425
batch: 148 Training Loss: 1.067930
batch: 149 Training Loss: 1.070731
batch: 150 Training Loss: 1.071635
batch: 151 Training Loss: 1.072934
batch: 152 Training Loss: 1.072453
batch: 153 Training Loss: 1.073022
batch: 154 Training Loss: 1.070898
batch: 155 Training Loss: 1.067836
batch: 156 Training Loss: 1.069189
batch: 157 Training Loss: 1.070332
batch: 158 Training Loss: 1.069604
batch: 159 Training Loss: 1.073110
batch: 160 Training Loss: 1.071927
batch: 161 Training Loss: 1.069931
batch: 162 Training Loss: 1.072372
batch: 163 Training Loss: 1.075210
batch: 164 Training Loss: 1.074501
batch: 165 Training Loss: 1.075251
batch: 166 Training Loss: 1.074313
batch: 167 Training Loss: 1.076113
batch: 168 Training Loss: 1.076892
batch: 169 Training Loss: 1.076807
batch: 170 Training Loss: 1.079405
batch: 171 Training Loss: 1.077798
batch: 172 Training Loss: 1.074818
batch: 173 Training Loss: 1.074007
batch: 174 Training Loss: 1.072414
batch: 175 Training Loss: 1.071761
batch: 176 Training Loss: 1.073434
batch: 177 Training Loss: 1.072820
batch: 178 Training Loss: 1.073421
batch: 179 Training Loss: 1.070379
batch: 180 Training Loss: 1.070024
batch: 181 Training Loss: 1.071098
batch: 182 Training Loss: 1.072536
batch: 183 Training Loss: 1.073681
batch: 184 Training Loss: 1.074039
batch: 185 Training Loss: 1.074847
batch: 186 Training Loss: 1.075380
batch: 187 Training Loss: 1.076267
batch: 188 Training Loss: 1.078156
batch: 189 Training Loss: 1.077819
batch: 190 Training Loss: 1.077565
batch: 191 Training Loss: 1.076866
batch: 192 Training Loss: 1.075865
batch: 193 Training Loss: 1.076953
batch: 194 Training Loss: 1.076364
batch: 195 Training Loss: 1.074643
batch: 196 Training Loss: 1.075521
batch: 197 Training Loss: 1.076491
batch: 198 Training Loss: 1.077862
batch: 199 Training Loss: 1.077932
batch: 200 Training Loss: 1.077906
batch: 201 Training Loss: 1.079326
batch: 202 Training Loss: 1.079852
batch: 203 Training Loss: 1.080135
batch: 204 Training Loss: 1.081503
batch: 205 Training Loss: 1.081260
batch: 206 Training Loss: 1.083557
batch: 207 Training Loss: 1.083227
batch: 208 Training Loss: 1.085467
Epoch: 9 Training Loss: 1.085467 Validation Loss: 1.154074
batch: 0 Training Loss: 1.664033
batch: 1 Training Loss: 1.293769
batch: 2 Training Loss: 1.288721
batch: 3 Training Loss: 1.233009
batch: 4 Training Loss: 1.184423
batch: 5 Training Loss: 1.183736
batch: 6 Training Loss: 1.100336
batch: 7 Training Loss: 1.097167
batch: 8 Training Loss: 1.086025
batch: 9 Training Loss: 1.115939
batch: 10 Training Loss: 1.057223
batch: 11 Training Loss: 1.027495
batch: 12 Training Loss: 1.044071
batch: 13 Training Loss: 1.071478
batch: 14 Training Loss: 1.060137
batch: 15 Training Loss: 1.061047

batch: 16 Training Loss: 1.068044
batch: 17 Training Loss: 1.060713
batch: 18 Training Loss: 1.070659
batch: 19 Training Loss: 1.056761
batch: 20 Training Loss: 1.041890
batch: 21 Training Loss: 1.049196
batch: 22 Training Loss: 1.045052
batch: 23 Training Loss: 1.035371
batch: 24 Training Loss: 1.053894
batch: 25 Training Loss: 1.058995
batch: 26 Training Loss: 1.050915
batch: 27 Training Loss: 1.030366
batch: 28 Training Loss: 1.032515
batch: 29 Training Loss: 1.042769
batch: 30 Training Loss: 1.039145
batch: 31 Training Loss: 1.049463
batch: 32 Training Loss: 1.032901
batch: 33 Training Loss: 1.031515
batch: 34 Training Loss: 1.031228
batch: 35 Training Loss: 1.035439
batch: 36 Training Loss: 1.037950
batch: 37 Training Loss: 1.041095
batch: 38 Training Loss: 1.038422
batch: 39 Training Loss: 1.038029
batch: 40 Training Loss: 1.034482
batch: 41 Training Loss: 1.030580
batch: 42 Training Loss: 1.031725
batch: 43 Training Loss: 1.033114
batch: 44 Training Loss: 1.026435
batch: 45 Training Loss: 1.031127
batch: 46 Training Loss: 1.031390
batch: 47 Training Loss: 1.035357
batch: 48 Training Loss: 1.030021
batch: 49 Training Loss: 1.035101
batch: 50 Training Loss: 1.044409
batch: 51 Training Loss: 1.044406
batch: 52 Training Loss: 1.041066
batch: 53 Training Loss: 1.038699
batch: 54 Training Loss: 1.034898
batch: 55 Training Loss: 1.034224
batch: 56 Training Loss: 1.034858
batch: 57 Training Loss: 1.032119
batch: 58 Training Loss: 1.040539
batch: 59 Training Loss: 1.034650
batch: 60 Training Loss: 1.032577
batch: 61 Training Loss: 1.030467
batch: 62 Training Loss: 1.032941
batch: 63 Training Loss: 1.042923
batch: 64 Training Loss: 1.034135
batch: 65 Training Loss: 1.039274
batch: 66 Training Loss: 1.043657
batch: 67 Training Loss: 1.041880
batch: 68 Training Loss: 1.040295
batch: 69 Training Loss: 1.035241
batch: 70 Training Loss: 1.035075
batch: 71 Training Loss: 1.033489
batch: 72 Training Loss: 1.029192
batch: 73 Training Loss: 1.030160
batch: 74 Training Loss: 1.034042
batch: 75 Training Loss: 1.032612
batch: 76 Training Loss: 1.034586
batch: 77 Training Loss: 1.034966
batch: 78 Training Loss: 1.033281
batch: 79 Training Loss: 1.036633
batch: 80 Training Loss: 1.033334
batch: 81 Training Loss: 1.025091
batch: 82 Training Loss: 1.023956
batch: 83 Training Loss: 1.019800
batch: 84 Training Loss: 1.015221
batch: 85 Training Loss: 1.012981
batch: 86 Training Loss: 1.015852
batch: 87 Training Loss: 1.014736
batch: 88 Training Loss: 1.014365
batch: 89 Training Loss: 1.013803
batch: 90 Training Loss: 1.011420
batch: 91 Training Loss: 1.010571
batch: 92 Training Loss: 1.010550
batch: 93 Training Loss: 1.009214
batch: 94 Training Loss: 1.009877
batch: 95 Training Loss: 1.010589
batch: 96 Training Loss: 1.008356
batch: 97 Training Loss: 1.008634
batch: 98 Training Loss: 1.003591
batch: 99 Training Loss: 1.006063
batch: 100 Training Loss: 1.004580
batch: 101 Training Loss: 1.003799
batch: 102 Training Loss: 1.008318
batch: 103 Training Loss: 1.004515
batch: 104 Training Loss: 1.005538
batch: 105 Training Loss: 1.007119
batch: 106 Training Loss: 1.006398

batch: 107 Training Loss: 1.006411
batch: 108 Training Loss: 1.003900
batch: 109 Training Loss: 1.007441
batch: 110 Training Loss: 1.007070
batch: 111 Training Loss: 1.004882
batch: 112 Training Loss: 1.003875
batch: 113 Training Loss: 1.005304
batch: 114 Training Loss: 1.003759
batch: 115 Training Loss: 1.005868
batch: 116 Training Loss: 1.006901
batch: 117 Training Loss: 1.007272
batch: 118 Training Loss: 1.005806
batch: 119 Training Loss: 1.003786
batch: 120 Training Loss: 1.005993
batch: 121 Training Loss: 1.007851
batch: 122 Training Loss: 1.009193
batch: 123 Training Loss: 1.007554
batch: 124 Training Loss: 1.007825
batch: 125 Training Loss: 1.005980
batch: 126 Training Loss: 1.009773
batch: 127 Training Loss: 1.016288
batch: 128 Training Loss: 1.015599
batch: 129 Training Loss: 1.015685
batch: 130 Training Loss: 1.015838
batch: 131 Training Loss: 1.013591
batch: 132 Training Loss: 1.011626
batch: 133 Training Loss: 1.011111
batch: 134 Training Loss: 1.011245
batch: 135 Training Loss: 1.010923
batch: 136 Training Loss: 1.012194
batch: 137 Training Loss: 1.016314
batch: 138 Training Loss: 1.020695
batch: 139 Training Loss: 1.020257
batch: 140 Training Loss: 1.019130
batch: 141 Training Loss: 1.021825
batch: 142 Training Loss: 1.022115
batch: 143 Training Loss: 1.023894
batch: 144 Training Loss: 1.025408
batch: 145 Training Loss: 1.026628
batch: 146 Training Loss: 1.027765
batch: 147 Training Loss: 1.027346
batch: 148 Training Loss: 1.028030
batch: 149 Training Loss: 1.028688
batch: 150 Training Loss: 1.028072
batch: 151 Training Loss: 1.028071
batch: 152 Training Loss: 1.028038
batch: 153 Training Loss: 1.032288
batch: 154 Training Loss: 1.033514
batch: 155 Training Loss: 1.031348
batch: 156 Training Loss: 1.031054
batch: 157 Training Loss: 1.029055
batch: 158 Training Loss: 1.028384
batch: 159 Training Loss: 1.026390
batch: 160 Training Loss: 1.027779
batch: 161 Training Loss: 1.028853
batch: 162 Training Loss: 1.026794
batch: 163 Training Loss: 1.026901
batch: 164 Training Loss: 1.026321
batch: 165 Training Loss: 1.023641
batch: 166 Training Loss: 1.025011
batch: 167 Training Loss: 1.025383
batch: 168 Training Loss: 1.025292
batch: 169 Training Loss: 1.023524
batch: 170 Training Loss: 1.022739
batch: 171 Training Loss: 1.022865
batch: 172 Training Loss: 1.021534
batch: 173 Training Loss: 1.020373
batch: 174 Training Loss: 1.021158
batch: 175 Training Loss: 1.021684
batch: 176 Training Loss: 1.021929
batch: 177 Training Loss: 1.020426
batch: 178 Training Loss: 1.019850
batch: 179 Training Loss: 1.020257
batch: 180 Training Loss: 1.020250
batch: 181 Training Loss: 1.021191
batch: 182 Training Loss: 1.020273
batch: 183 Training Loss: 1.019706
batch: 184 Training Loss: 1.020768
batch: 185 Training Loss: 1.021291
batch: 186 Training Loss: 1.020331
batch: 187 Training Loss: 1.023905
batch: 188 Training Loss: 1.023911
batch: 189 Training Loss: 1.022693
batch: 190 Training Loss: 1.025260
batch: 191 Training Loss: 1.023666
batch: 192 Training Loss: 1.023636
batch: 193 Training Loss: 1.026901
batch: 194 Training Loss: 1.028369
batch: 195 Training Loss: 1.028767
batch: 196 Training Loss: 1.027871
batch: 197 Training Loss: 1.028423

batch: 198 Training Loss: 1.027794
batch: 199 Training Loss: 1.027602
batch: 200 Training Loss: 1.026861
batch: 201 Training Loss: 1.025239
batch: 202 Training Loss: 1.027124
batch: 203 Training Loss: 1.028149
batch: 204 Training Loss: 1.026215
batch: 205 Training Loss: 1.026363
batch: 206 Training Loss: 1.028654
batch: 207 Training Loss: 1.027569
batch: 208 Training Loss: 1.026534
Epoch: 10 Training Loss: 1.026534 Validation Loss: 1.169354
batch: 0 Training Loss: 0.839159
batch: 1 Training Loss: 0.927733
batch: 2 Training Loss: 0.905266
batch: 3 Training Loss: 0.854036
batch: 4 Training Loss: 0.804190
batch: 5 Training Loss: 0.815209
batch: 6 Training Loss: 0.827210
batch: 7 Training Loss: 0.835028
batch: 8 Training Loss: 0.823230
batch: 9 Training Loss: 0.855574
batch: 10 Training Loss: 0.862126
batch: 11 Training Loss: 0.863840
batch: 12 Training Loss: 0.887477
batch: 13 Training Loss: 0.947102
batch: 14 Training Loss: 0.942286
batch: 15 Training Loss: 0.931408
batch: 16 Training Loss: 0.907792
batch: 17 Training Loss: 0.900065
batch: 18 Training Loss: 0.910214
batch: 19 Training Loss: 0.899769
batch: 20 Training Loss: 0.903620
batch: 21 Training Loss: 0.906738
batch: 22 Training Loss: 0.923535
batch: 23 Training Loss: 0.903517
batch: 24 Training Loss: 0.903841
batch: 25 Training Loss: 0.902895
batch: 26 Training Loss: 0.886368
batch: 27 Training Loss: 0.891639
batch: 28 Training Loss: 0.888018
batch: 29 Training Loss: 0.889705
batch: 30 Training Loss: 0.897403
batch: 31 Training Loss: 0.898076
batch: 32 Training Loss: 0.890750
batch: 33 Training Loss: 0.897892
batch: 34 Training Loss: 0.894316
batch: 35 Training Loss: 0.905372
batch: 36 Training Loss: 0.908617
batch: 37 Training Loss: 0.916184
batch: 38 Training Loss: 0.917406
batch: 39 Training Loss: 0.914553
batch: 40 Training Loss: 0.912972
batch: 41 Training Loss: 0.913751
batch: 42 Training Loss: 0.913297
batch: 43 Training Loss: 0.922001
batch: 44 Training Loss: 0.916873
batch: 45 Training Loss: 0.924881
batch: 46 Training Loss: 0.920659
batch: 47 Training Loss: 0.920735
batch: 48 Training Loss: 0.924566
batch: 49 Training Loss: 0.919678
batch: 50 Training Loss: 0.917338
batch: 51 Training Loss: 0.920501
batch: 52 Training Loss: 0.918229
batch: 53 Training Loss: 0.921717
batch: 54 Training Loss: 0.924355
batch: 55 Training Loss: 0.922536
batch: 56 Training Loss: 0.915790
batch: 57 Training Loss: 0.909493
batch: 58 Training Loss: 0.916606
batch: 59 Training Loss: 0.916015
batch: 60 Training Loss: 0.920346
batch: 61 Training Loss: 0.921356
batch: 62 Training Loss: 0.917041
batch: 63 Training Loss: 0.915683
batch: 64 Training Loss: 0.911300
batch: 65 Training Loss: 0.911139
batch: 66 Training Loss: 0.906487
batch: 67 Training Loss: 0.909674
batch: 68 Training Loss: 0.905544
batch: 69 Training Loss: 0.911371
batch: 70 Training Loss: 0.915825
batch: 71 Training Loss: 0.915880
batch: 72 Training Loss: 0.921461
batch: 73 Training Loss: 0.919971
batch: 74 Training Loss: 0.924177
batch: 75 Training Loss: 0.924166
batch: 76 Training Loss: 0.924689
batch: 77 Training Loss: 0.931713
batch: 78 Training Loss: 0.932402

batch: 79 Training Loss: 0.929302
batch: 80 Training Loss: 0.934819
batch: 81 Training Loss: 0.937236
batch: 82 Training Loss: 0.939930
batch: 83 Training Loss: 0.947000
batch: 84 Training Loss: 0.945347
batch: 85 Training Loss: 0.946473
batch: 86 Training Loss: 0.945990
batch: 87 Training Loss: 0.948236
batch: 88 Training Loss: 0.942604
batch: 89 Training Loss: 0.943598
batch: 90 Training Loss: 0.942950
batch: 91 Training Loss: 0.944523
batch: 92 Training Loss: 0.942385
batch: 93 Training Loss: 0.940628
batch: 94 Training Loss: 0.939348
batch: 95 Training Loss: 0.940463
batch: 96 Training Loss: 0.937159
batch: 97 Training Loss: 0.939140
batch: 98 Training Loss: 0.939969
batch: 99 Training Loss: 0.939417
batch: 100 Training Loss: 0.944941
batch: 101 Training Loss: 0.945606
batch: 102 Training Loss: 0.942901
batch: 103 Training Loss: 0.945495
batch: 104 Training Loss: 0.946246
batch: 105 Training Loss: 0.947724
batch: 106 Training Loss: 0.948999
batch: 107 Training Loss: 0.948717
batch: 108 Training Loss: 0.948340
batch: 109 Training Loss: 0.947969
batch: 110 Training Loss: 0.949403
batch: 111 Training Loss: 0.949375
batch: 112 Training Loss: 0.952489
batch: 113 Training Loss: 0.958703
batch: 114 Training Loss: 0.958584
batch: 115 Training Loss: 0.958414
batch: 116 Training Loss: 0.961072
batch: 117 Training Loss: 0.962022
batch: 118 Training Loss: 0.959943
batch: 119 Training Loss: 0.958282
batch: 120 Training Loss: 0.958019
batch: 121 Training Loss: 0.958023
batch: 122 Training Loss: 0.955749
batch: 123 Training Loss: 0.955079
batch: 124 Training Loss: 0.954100
batch: 125 Training Loss: 0.951975
batch: 126 Training Loss: 0.950558
batch: 127 Training Loss: 0.951701
batch: 128 Training Loss: 0.950892
batch: 129 Training Loss: 0.950035
batch: 130 Training Loss: 0.949301
batch: 131 Training Loss: 0.953656
batch: 132 Training Loss: 0.955125
batch: 133 Training Loss: 0.957468
batch: 134 Training Loss: 0.955245
batch: 135 Training Loss: 0.953206
batch: 136 Training Loss: 0.954118
batch: 137 Training Loss: 0.953445
batch: 138 Training Loss: 0.951803
batch: 139 Training Loss: 0.954190
batch: 140 Training Loss: 0.952565
batch: 141 Training Loss: 0.952774
batch: 142 Training Loss: 0.954070
batch: 143 Training Loss: 0.957197
batch: 144 Training Loss: 0.955071
batch: 145 Training Loss: 0.954556
batch: 146 Training Loss: 0.953518
batch: 147 Training Loss: 0.952775
batch: 148 Training Loss: 0.952683
batch: 149 Training Loss: 0.952235
batch: 150 Training Loss: 0.953000
batch: 151 Training Loss: 0.953546
batch: 152 Training Loss: 0.952217
batch: 153 Training Loss: 0.949986
batch: 154 Training Loss: 0.949706
batch: 155 Training Loss: 0.950751
batch: 156 Training Loss: 0.950828
batch: 157 Training Loss: 0.950086
batch: 158 Training Loss: 0.950940
batch: 159 Training Loss: 0.952303
batch: 160 Training Loss: 0.951977
batch: 161 Training Loss: 0.950569
batch: 162 Training Loss: 0.951310
batch: 163 Training Loss: 0.951929
batch: 164 Training Loss: 0.951199
batch: 165 Training Loss: 0.950189
batch: 166 Training Loss: 0.950481
batch: 167 Training Loss: 0.950155
batch: 168 Training Loss: 0.949721
batch: 169 Training Loss: 0.953482

```
batch: 170      Training Loss: 0.951665
batch: 171      Training Loss: 0.951711
batch: 172      Training Loss: 0.951671
batch: 173      Training Loss: 0.952818
batch: 174      Training Loss: 0.953963
batch: 175      Training Loss: 0.954712
batch: 176      Training Loss: 0.954288
batch: 177      Training Loss: 0.956634
batch: 178      Training Loss: 0.954194
batch: 179      Training Loss: 0.953901
batch: 180      Training Loss: 0.955188
batch: 181      Training Loss: 0.954953
batch: 182      Training Loss: 0.953092
batch: 183      Training Loss: 0.954420
batch: 184      Training Loss: 0.955703
batch: 185      Training Loss: 0.955100
batch: 186      Training Loss: 0.957626
batch: 187      Training Loss: 0.958011
batch: 188      Training Loss: 0.957798
batch: 189      Training Loss: 0.958367
batch: 190      Training Loss: 0.958596
batch: 191      Training Loss: 0.958847
batch: 192      Training Loss: 0.958732
batch: 193      Training Loss: 0.959252
batch: 194      Training Loss: 0.959555
batch: 195      Training Loss: 0.959023
batch: 196      Training Loss: 0.959838
batch: 197      Training Loss: 0.961139
batch: 198      Training Loss: 0.961140
batch: 199      Training Loss: 0.963510
batch: 200      Training Loss: 0.964715
batch: 201      Training Loss: 0.966956
batch: 202      Training Loss: 0.966916
batch: 203      Training Loss: 0.966924
batch: 204      Training Loss: 0.968554
batch: 205      Training Loss: 0.969321
batch: 206      Training Loss: 0.969531
batch: 207      Training Loss: 0.969424
batch: 208      Training Loss: 0.968582
Epoch: 11      Training Loss: 0.968582          Validation Loss: 1.010093
model saved
batch: 0      Training Loss: 0.893438
batch: 1      Training Loss: 0.873666
batch: 2      Training Loss: 0.739157
batch: 3      Training Loss: 0.737173
batch: 4      Training Loss: 0.750480
batch: 5      Training Loss: 0.783111
batch: 6      Training Loss: 0.813511
batch: 7      Training Loss: 0.836002
batch: 8      Training Loss: 0.826481
batch: 9      Training Loss: 0.800430
batch: 10     Training Loss: 0.873687
batch: 11     Training Loss: 0.890492
batch: 12     Training Loss: 0.862742
batch: 13     Training Loss: 0.865520
batch: 14     Training Loss: 0.854074
batch: 15     Training Loss: 0.851303
batch: 16     Training Loss: 0.861836
batch: 17     Training Loss: 0.878008
batch: 18     Training Loss: 0.890297
batch: 19     Training Loss: 0.899040
batch: 20     Training Loss: 0.887360
batch: 21     Training Loss: 0.884537
batch: 22     Training Loss: 0.886642
batch: 23     Training Loss: 0.878218
batch: 24     Training Loss: 0.871660
batch: 25     Training Loss: 0.868868
batch: 26     Training Loss: 0.873552
batch: 27     Training Loss: 0.869175
batch: 28     Training Loss: 0.879649
batch: 29     Training Loss: 0.883200
batch: 30     Training Loss: 0.908077
batch: 31     Training Loss: 0.899260
batch: 32     Training Loss: 0.905906
batch: 33     Training Loss: 0.907708
batch: 34     Training Loss: 0.907793
batch: 35     Training Loss: 0.912757
batch: 36     Training Loss: 0.933070
batch: 37     Training Loss: 0.936948
batch: 38     Training Loss: 0.935846
batch: 39     Training Loss: 0.931793
batch: 40     Training Loss: 0.935733
batch: 41     Training Loss: 0.932331
batch: 42     Training Loss: 0.942912
batch: 43     Training Loss: 0.943685
batch: 44     Training Loss: 0.938482
batch: 45     Training Loss: 0.925539
batch: 46     Training Loss: 0.925776
batch: 47     Training Loss: 0.928032
batch: 48     Training Loss: 0.926266
batch: 49     Training Loss: 0.919505
```

batch: 50 Training Loss: 0.916874
batch: 51 Training Loss: 0.914409
batch: 52 Training Loss: 0.918617
batch: 53 Training Loss: 0.922119
batch: 54 Training Loss: 0.919147
batch: 55 Training Loss: 0.923184
batch: 56 Training Loss: 0.924636
batch: 57 Training Loss: 0.925278
batch: 58 Training Loss: 0.928588
batch: 59 Training Loss: 0.940307
batch: 60 Training Loss: 0.935702
batch: 61 Training Loss: 0.935660
batch: 62 Training Loss: 0.933844
batch: 63 Training Loss: 0.932034
batch: 64 Training Loss: 0.930547
batch: 65 Training Loss: 0.926023
batch: 66 Training Loss: 0.926832
batch: 67 Training Loss: 0.930910
batch: 68 Training Loss: 0.929608
batch: 69 Training Loss: 0.926509
batch: 70 Training Loss: 0.925074
batch: 71 Training Loss: 0.922477
batch: 72 Training Loss: 0.926766
batch: 73 Training Loss: 0.922713
batch: 74 Training Loss: 0.924483
batch: 75 Training Loss: 0.923238
batch: 76 Training Loss: 0.917142
batch: 77 Training Loss: 0.920023
batch: 78 Training Loss: 0.919550
batch: 79 Training Loss: 0.919348
batch: 80 Training Loss: 0.924562
batch: 81 Training Loss: 0.920302
batch: 82 Training Loss: 0.917397
batch: 83 Training Loss: 0.920698
batch: 84 Training Loss: 0.921767
batch: 85 Training Loss: 0.920969
batch: 86 Training Loss: 0.923050
batch: 87 Training Loss: 0.924166
batch: 88 Training Loss: 0.920980
batch: 89 Training Loss: 0.918456
batch: 90 Training Loss: 0.916118
batch: 91 Training Loss: 0.915256
batch: 92 Training Loss: 0.911717
batch: 93 Training Loss: 0.911223
batch: 94 Training Loss: 0.911696
batch: 95 Training Loss: 0.908560
batch: 96 Training Loss: 0.905685
batch: 97 Training Loss: 0.904138
batch: 98 Training Loss: 0.905305
batch: 99 Training Loss: 0.905709
batch: 100 Training Loss: 0.909599
batch: 101 Training Loss: 0.908200
batch: 102 Training Loss: 0.905996
batch: 103 Training Loss: 0.907841
batch: 104 Training Loss: 0.906537
batch: 105 Training Loss: 0.904858
batch: 106 Training Loss: 0.902130
batch: 107 Training Loss: 0.900094
batch: 108 Training Loss: 0.899720
batch: 109 Training Loss: 0.898233
batch: 110 Training Loss: 0.898288
batch: 111 Training Loss: 0.901197
batch: 112 Training Loss: 0.899605
batch: 113 Training Loss: 0.899960
batch: 114 Training Loss: 0.897391
batch: 115 Training Loss: 0.897702
batch: 116 Training Loss: 0.895734
batch: 117 Training Loss: 0.900094
batch: 118 Training Loss: 0.898483
batch: 119 Training Loss: 0.899470
batch: 120 Training Loss: 0.898168
batch: 121 Training Loss: 0.898396
batch: 122 Training Loss: 0.897069
batch: 123 Training Loss: 0.900024
batch: 124 Training Loss: 0.898538
batch: 125 Training Loss: 0.898158
batch: 126 Training Loss: 0.896489
batch: 127 Training Loss: 0.895225
batch: 128 Training Loss: 0.900194
batch: 129 Training Loss: 0.896697
batch: 130 Training Loss: 0.897292
batch: 131 Training Loss: 0.897660
batch: 132 Training Loss: 0.895683
batch: 133 Training Loss: 0.898302
batch: 134 Training Loss: 0.898985
batch: 135 Training Loss: 0.897449
batch: 136 Training Loss: 0.899628
batch: 137 Training Loss: 0.896781
batch: 138 Training Loss: 0.894789
batch: 139 Training Loss: 0.894502
batch: 140 Training Loss: 0.894368

batch: 141 Training Loss: 0.895047
batch: 142 Training Loss: 0.894131
batch: 143 Training Loss: 0.895556
batch: 144 Training Loss: 0.897087
batch: 145 Training Loss: 0.900277
batch: 146 Training Loss: 0.901232
batch: 147 Training Loss: 0.899412
batch: 148 Training Loss: 0.903017
batch: 149 Training Loss: 0.904768
batch: 150 Training Loss: 0.906160
batch: 151 Training Loss: 0.909175
batch: 152 Training Loss: 0.908930
batch: 153 Training Loss: 0.909272
batch: 154 Training Loss: 0.909179
batch: 155 Training Loss: 0.907038
batch: 156 Training Loss: 0.906674
batch: 157 Training Loss: 0.908782
batch: 158 Training Loss: 0.907780
batch: 159 Training Loss: 0.907403
batch: 160 Training Loss: 0.909339
batch: 161 Training Loss: 0.909560
batch: 162 Training Loss: 0.915474
batch: 163 Training Loss: 0.915724
batch: 164 Training Loss: 0.916399
batch: 165 Training Loss: 0.919360
batch: 166 Training Loss: 0.919652
batch: 167 Training Loss: 0.920014
batch: 168 Training Loss: 0.919288
batch: 169 Training Loss: 0.923452
batch: 170 Training Loss: 0.924513
batch: 171 Training Loss: 0.923995
batch: 172 Training Loss: 0.924037
batch: 173 Training Loss: 0.925977
batch: 174 Training Loss: 0.925078
batch: 175 Training Loss: 0.926052
batch: 176 Training Loss: 0.926680
batch: 177 Training Loss: 0.926890
batch: 178 Training Loss: 0.928319
batch: 179 Training Loss: 0.926615
batch: 180 Training Loss: 0.925569
batch: 181 Training Loss: 0.925164
batch: 182 Training Loss: 0.929282
batch: 183 Training Loss: 0.926723
batch: 184 Training Loss: 0.927300
batch: 185 Training Loss: 0.928960
batch: 186 Training Loss: 0.929227
batch: 187 Training Loss: 0.927747
batch: 188 Training Loss: 0.928686
batch: 189 Training Loss: 0.928293
batch: 190 Training Loss: 0.929908
batch: 191 Training Loss: 0.929774
batch: 192 Training Loss: 0.931609
batch: 193 Training Loss: 0.930365
batch: 194 Training Loss: 0.930758
batch: 195 Training Loss: 0.930181
batch: 196 Training Loss: 0.931203
batch: 197 Training Loss: 0.933656
batch: 198 Training Loss: 0.931530
batch: 199 Training Loss: 0.930366
batch: 200 Training Loss: 0.928795
batch: 201 Training Loss: 0.927875
batch: 202 Training Loss: 0.929638
batch: 203 Training Loss: 0.928284
batch: 204 Training Loss: 0.927331
batch: 205 Training Loss: 0.927476
batch: 206 Training Loss: 0.927530
batch: 207 Training Loss: 0.927017
batch: 208 Training Loss: 0.926873
Epoch: 12 Training Loss: 0.926873 Validation Loss: 1.413533
batch: 0 Training Loss: 1.304008
batch: 1 Training Loss: 1.203259
batch: 2 Training Loss: 1.100415
batch: 3 Training Loss: 0.993943
batch: 4 Training Loss: 0.987802
batch: 5 Training Loss: 1.010723
batch: 6 Training Loss: 1.021987
batch: 7 Training Loss: 0.984200
batch: 8 Training Loss: 0.975455
batch: 9 Training Loss: 0.925593
batch: 10 Training Loss: 0.888960
batch: 11 Training Loss: 0.900724
batch: 12 Training Loss: 0.882950
batch: 13 Training Loss: 0.920677
batch: 14 Training Loss: 0.911738
batch: 15 Training Loss: 0.902363
batch: 16 Training Loss: 0.891416
batch: 17 Training Loss: 0.879119
batch: 18 Training Loss: 0.853613
batch: 19 Training Loss: 0.868923
batch: 20 Training Loss: 0.849572
batch: 21 Training Loss: 0.844538

batch: 22 Training Loss: 0.835656
batch: 23 Training Loss: 0.838138
batch: 24 Training Loss: 0.828659
batch: 25 Training Loss: 0.819369
batch: 26 Training Loss: 0.826928
batch: 27 Training Loss: 0.822647
batch: 28 Training Loss: 0.825027
batch: 29 Training Loss: 0.820314
batch: 30 Training Loss: 0.822115
batch: 31 Training Loss: 0.817160
batch: 32 Training Loss: 0.813234
batch: 33 Training Loss: 0.820663
batch: 34 Training Loss: 0.823451
batch: 35 Training Loss: 0.820468
batch: 36 Training Loss: 0.809744
batch: 37 Training Loss: 0.816316
batch: 38 Training Loss: 0.813029
batch: 39 Training Loss: 0.822104
batch: 40 Training Loss: 0.815844
batch: 41 Training Loss: 0.819279
batch: 42 Training Loss: 0.831544
batch: 43 Training Loss: 0.834108
batch: 44 Training Loss: 0.837486
batch: 45 Training Loss: 0.845472
batch: 46 Training Loss: 0.840174
batch: 47 Training Loss: 0.837932
batch: 48 Training Loss: 0.839805
batch: 49 Training Loss: 0.840186
batch: 50 Training Loss: 0.837780
batch: 51 Training Loss: 0.837868
batch: 52 Training Loss: 0.840115
batch: 53 Training Loss: 0.832613
batch: 54 Training Loss: 0.829037
batch: 55 Training Loss: 0.827157
batch: 56 Training Loss: 0.824019
batch: 57 Training Loss: 0.824460
batch: 58 Training Loss: 0.817362
batch: 59 Training Loss: 0.817831
batch: 60 Training Loss: 0.825652
batch: 61 Training Loss: 0.827661
batch: 62 Training Loss: 0.831914
batch: 63 Training Loss: 0.833122
batch: 64 Training Loss: 0.828503
batch: 65 Training Loss: 0.827119
batch: 66 Training Loss: 0.827955
batch: 67 Training Loss: 0.821620
batch: 68 Training Loss: 0.820872
batch: 69 Training Loss: 0.826203
batch: 70 Training Loss: 0.824208
batch: 71 Training Loss: 0.827808
batch: 72 Training Loss: 0.825404
batch: 73 Training Loss: 0.823086
batch: 74 Training Loss: 0.823777
batch: 75 Training Loss: 0.828726
batch: 76 Training Loss: 0.827030
batch: 77 Training Loss: 0.830447
batch: 78 Training Loss: 0.830166
batch: 79 Training Loss: 0.826793
batch: 80 Training Loss: 0.828676
batch: 81 Training Loss: 0.833708
batch: 82 Training Loss: 0.838044
batch: 83 Training Loss: 0.837367
batch: 84 Training Loss: 0.836545
batch: 85 Training Loss: 0.834022
batch: 86 Training Loss: 0.838667
batch: 87 Training Loss: 0.841184
batch: 88 Training Loss: 0.842358
batch: 89 Training Loss: 0.842166
batch: 90 Training Loss: 0.845034
batch: 91 Training Loss: 0.847211
batch: 92 Training Loss: 0.846296
batch: 93 Training Loss: 0.844786
batch: 94 Training Loss: 0.842791
batch: 95 Training Loss: 0.844450
batch: 96 Training Loss: 0.842224
batch: 97 Training Loss: 0.844344
batch: 98 Training Loss: 0.845741
batch: 99 Training Loss: 0.843822
batch: 100 Training Loss: 0.840695
batch: 101 Training Loss: 0.841043
batch: 102 Training Loss: 0.844559
batch: 103 Training Loss: 0.843353
batch: 104 Training Loss: 0.844308
batch: 105 Training Loss: 0.842392
batch: 106 Training Loss: 0.844384
batch: 107 Training Loss: 0.842854
batch: 108 Training Loss: 0.839930
batch: 109 Training Loss: 0.839890
batch: 110 Training Loss: 0.838835
batch: 111 Training Loss: 0.838225
batch: 112 Training Loss: 0.840035
. ^ -----

batch: 113 Training Loss: 0.841555
batch: 114 Training Loss: 0.844729
batch: 115 Training Loss: 0.845879
batch: 116 Training Loss: 0.844895
batch: 117 Training Loss: 0.844489
batch: 118 Training Loss: 0.847313
batch: 119 Training Loss: 0.848809
batch: 120 Training Loss: 0.850545
batch: 121 Training Loss: 0.852966
batch: 122 Training Loss: 0.854787
batch: 123 Training Loss: 0.853544
batch: 124 Training Loss: 0.851634
batch: 125 Training Loss: 0.852030
batch: 126 Training Loss: 0.851520
batch: 127 Training Loss: 0.850191
batch: 128 Training Loss: 0.853725
batch: 129 Training Loss: 0.852029
batch: 130 Training Loss: 0.852297
batch: 131 Training Loss: 0.851068
batch: 132 Training Loss: 0.851720
batch: 133 Training Loss: 0.856156
batch: 134 Training Loss: 0.855757
batch: 135 Training Loss: 0.855246
batch: 136 Training Loss: 0.854892
batch: 137 Training Loss: 0.853990
batch: 138 Training Loss: 0.855930
batch: 139 Training Loss: 0.855039
batch: 140 Training Loss: 0.854467
batch: 141 Training Loss: 0.856862
batch: 142 Training Loss: 0.858012
batch: 143 Training Loss: 0.856709
batch: 144 Training Loss: 0.857905
batch: 145 Training Loss: 0.855031
batch: 146 Training Loss: 0.853261
batch: 147 Training Loss: 0.852527
batch: 148 Training Loss: 0.852927
batch: 149 Training Loss: 0.851963
batch: 150 Training Loss: 0.852701
batch: 151 Training Loss: 0.851571
batch: 152 Training Loss: 0.850101
batch: 153 Training Loss: 0.850381
batch: 154 Training Loss: 0.852050
batch: 155 Training Loss: 0.851567
batch: 156 Training Loss: 0.849401
batch: 157 Training Loss: 0.849451
batch: 158 Training Loss: 0.849458
batch: 159 Training Loss: 0.848783
batch: 160 Training Loss: 0.848324
batch: 161 Training Loss: 0.847634
batch: 162 Training Loss: 0.850043
batch: 163 Training Loss: 0.849209
batch: 164 Training Loss: 0.851529
batch: 165 Training Loss: 0.850547
batch: 166 Training Loss: 0.850311
batch: 167 Training Loss: 0.850145
batch: 168 Training Loss: 0.848715
batch: 169 Training Loss: 0.848446
batch: 170 Training Loss: 0.849775
batch: 171 Training Loss: 0.851025
batch: 172 Training Loss: 0.851494
batch: 173 Training Loss: 0.850392
batch: 174 Training Loss: 0.850602
batch: 175 Training Loss: 0.850240
batch: 176 Training Loss: 0.850612
batch: 177 Training Loss: 0.849440
batch: 178 Training Loss: 0.847706
batch: 179 Training Loss: 0.846820
batch: 180 Training Loss: 0.847914
batch: 181 Training Loss: 0.848221
batch: 182 Training Loss: 0.848547
batch: 183 Training Loss: 0.849963
batch: 184 Training Loss: 0.852231
batch: 185 Training Loss: 0.853028
batch: 186 Training Loss: 0.854598
batch: 187 Training Loss: 0.853498
batch: 188 Training Loss: 0.853277
batch: 189 Training Loss: 0.852205
batch: 190 Training Loss: 0.855292
batch: 191 Training Loss: 0.855654
batch: 192 Training Loss: 0.855690
batch: 193 Training Loss: 0.858724
batch: 194 Training Loss: 0.859252
batch: 195 Training Loss: 0.857094
batch: 196 Training Loss: 0.857084
batch: 197 Training Loss: 0.857528
batch: 198 Training Loss: 0.858345
batch: 199 Training Loss: 0.857895
batch: 200 Training Loss: 0.856631
batch: 201 Training Loss: 0.857233
batch: 202 Training Loss: 0.858216
batch: 203 Training Loss: 0.857364

batch: 204 Training Loss: 0.857799
batch: 205 Training Loss: 0.859817
batch: 206 Training Loss: 0.859954
batch: 207 Training Loss: 0.859794
batch: 208 Training Loss: 0.861911
Epoch: 13 Training Loss: 0.861911 Validation Loss: 1.231998
batch: 0 Training Loss: 1.062804
batch: 1 Training Loss: 0.950085
batch: 2 Training Loss: 0.986371
batch: 3 Training Loss: 0.920021
batch: 4 Training Loss: 0.881996
batch: 5 Training Loss: 0.880990
batch: 6 Training Loss: 0.886642
batch: 7 Training Loss: 0.896815
batch: 8 Training Loss: 0.868911
batch: 9 Training Loss: 0.847163
batch: 10 Training Loss: 0.833899
batch: 11 Training Loss: 0.800798
batch: 12 Training Loss: 0.806675
batch: 13 Training Loss: 0.809678
batch: 14 Training Loss: 0.823003
batch: 15 Training Loss: 0.824833
batch: 16 Training Loss: 0.847631
batch: 17 Training Loss: 0.844632
batch: 18 Training Loss: 0.840191
batch: 19 Training Loss: 0.841204
batch: 20 Training Loss: 0.854638
batch: 21 Training Loss: 0.853046
batch: 22 Training Loss: 0.852155
batch: 23 Training Loss: 0.838492
batch: 24 Training Loss: 0.837478
batch: 25 Training Loss: 0.826752
batch: 26 Training Loss: 0.823924
batch: 27 Training Loss: 0.828745
batch: 28 Training Loss: 0.824212
batch: 29 Training Loss: 0.820449
batch: 30 Training Loss: 0.837045
batch: 31 Training Loss: 0.835089
batch: 32 Training Loss: 0.842001
batch: 33 Training Loss: 0.838552
batch: 34 Training Loss: 0.842716
batch: 35 Training Loss: 0.837562
batch: 36 Training Loss: 0.835174
batch: 37 Training Loss: 0.830196
batch: 38 Training Loss: 0.832483
batch: 39 Training Loss: 0.826570
batch: 40 Training Loss: 0.825649
batch: 41 Training Loss: 0.828019
batch: 42 Training Loss: 0.816631
batch: 43 Training Loss: 0.812253
batch: 44 Training Loss: 0.816085
batch: 45 Training Loss: 0.819337
batch: 46 Training Loss: 0.824673
batch: 47 Training Loss: 0.820402
batch: 48 Training Loss: 0.825240
batch: 49 Training Loss: 0.830579
batch: 50 Training Loss: 0.823850
batch: 51 Training Loss: 0.820498
batch: 52 Training Loss: 0.816020
batch: 53 Training Loss: 0.811750
batch: 54 Training Loss: 0.817659
batch: 55 Training Loss: 0.815979
batch: 56 Training Loss: 0.813418
batch: 57 Training Loss: 0.811256
batch: 58 Training Loss: 0.806157
batch: 59 Training Loss: 0.801301
batch: 60 Training Loss: 0.801438
batch: 61 Training Loss: 0.794430
batch: 62 Training Loss: 0.789760
batch: 63 Training Loss: 0.795236
batch: 64 Training Loss: 0.796171
batch: 65 Training Loss: 0.798916
batch: 66 Training Loss: 0.800088
batch: 67 Training Loss: 0.798197
batch: 68 Training Loss: 0.795800
batch: 69 Training Loss: 0.804589
batch: 70 Training Loss: 0.805975
batch: 71 Training Loss: 0.801726
batch: 72 Training Loss: 0.800588
batch: 73 Training Loss: 0.798381
batch: 74 Training Loss: 0.797202
batch: 75 Training Loss: 0.793431
batch: 76 Training Loss: 0.791828
batch: 77 Training Loss: 0.795834
batch: 78 Training Loss: 0.805077
batch: 79 Training Loss: 0.804199
batch: 80 Training Loss: 0.801909
batch: 81 Training Loss: 0.803385
batch: 82 Training Loss: 0.799661
batch: 83 Training Loss: 0.797820
batch: 84 Training Loss: 0.801193
batch: 85 Training Loss: 0.798627

batch: 85 Training Loss: 0.79862
batch: 86 Training Loss: 0.796956
batch: 87 Training Loss: 0.795392
batch: 88 Training Loss: 0.798440
batch: 89 Training Loss: 0.801906
batch: 90 Training Loss: 0.799798
batch: 91 Training Loss: 0.803262
batch: 92 Training Loss: 0.804881
batch: 93 Training Loss: 0.806847
batch: 94 Training Loss: 0.806032
batch: 95 Training Loss: 0.804569
batch: 96 Training Loss: 0.802535
batch: 97 Training Loss: 0.802113
batch: 98 Training Loss: 0.803061
batch: 99 Training Loss: 0.805562
batch: 100 Training Loss: 0.801601
batch: 101 Training Loss: 0.807476
batch: 102 Training Loss: 0.808213
batch: 103 Training Loss: 0.808685
batch: 104 Training Loss: 0.809772
batch: 105 Training Loss: 0.808583
batch: 106 Training Loss: 0.810563
batch: 107 Training Loss: 0.807078
batch: 108 Training Loss: 0.803424
batch: 109 Training Loss: 0.806168
batch: 110 Training Loss: 0.808272
batch: 111 Training Loss: 0.807688
batch: 112 Training Loss: 0.810668
batch: 113 Training Loss: 0.807411
batch: 114 Training Loss: 0.806167
batch: 115 Training Loss: 0.805762
batch: 116 Training Loss: 0.806138
batch: 117 Training Loss: 0.805103
batch: 118 Training Loss: 0.804627
batch: 119 Training Loss: 0.806336
batch: 120 Training Loss: 0.804357
batch: 121 Training Loss: 0.803148
batch: 122 Training Loss: 0.803646
batch: 123 Training Loss: 0.804620
batch: 124 Training Loss: 0.809832
batch: 125 Training Loss: 0.808357
batch: 126 Training Loss: 0.808164
batch: 127 Training Loss: 0.806493
batch: 128 Training Loss: 0.807035
batch: 129 Training Loss: 0.808868
batch: 130 Training Loss: 0.804949
batch: 131 Training Loss: 0.802257
batch: 132 Training Loss: 0.802327
batch: 133 Training Loss: 0.803820
batch: 134 Training Loss: 0.805472
batch: 135 Training Loss: 0.805280
batch: 136 Training Loss: 0.804317
batch: 137 Training Loss: 0.806666
batch: 138 Training Loss: 0.806760
batch: 139 Training Loss: 0.807638
batch: 140 Training Loss: 0.808048
batch: 141 Training Loss: 0.807344
batch: 142 Training Loss: 0.807566
batch: 143 Training Loss: 0.809124
batch: 144 Training Loss: 0.808790
batch: 145 Training Loss: 0.806914
batch: 146 Training Loss: 0.806736
batch: 147 Training Loss: 0.806124
batch: 148 Training Loss: 0.804574
batch: 149 Training Loss: 0.805405
batch: 150 Training Loss: 0.804646
batch: 151 Training Loss: 0.805314
batch: 152 Training Loss: 0.804505
batch: 153 Training Loss: 0.807462
batch: 154 Training Loss: 0.807372
batch: 155 Training Loss: 0.809056
batch: 156 Training Loss: 0.809137
batch: 157 Training Loss: 0.808860
batch: 158 Training Loss: 0.808379
batch: 159 Training Loss: 0.809455
batch: 160 Training Loss: 0.811882
batch: 161 Training Loss: 0.812268
batch: 162 Training Loss: 0.812462
batch: 163 Training Loss: 0.811997
batch: 164 Training Loss: 0.811600
batch: 165 Training Loss: 0.810777
batch: 166 Training Loss: 0.809893
batch: 167 Training Loss: 0.809454
batch: 168 Training Loss: 0.809819
batch: 169 Training Loss: 0.811120
batch: 170 Training Loss: 0.812856
batch: 171 Training Loss: 0.810789
batch: 172 Training Loss: 0.810833
batch: 173 Training Loss: 0.810578
batch: 174 Training Loss: 0.812417
batch: 175 Training Loss: 0.813200
batch: 176 Training Loss: 0.811560

batch: 170 Training Loss: 0.815798
batch: 177 Training Loss: 0.818669
batch: 178 Training Loss: 0.819015
batch: 179 Training Loss: 0.817426
batch: 180 Training Loss: 0.817894
batch: 181 Training Loss: 0.818504
batch: 182 Training Loss: 0.820194
batch: 183 Training Loss: 0.821371
batch: 184 Training Loss: 0.819926
batch: 185 Training Loss: 0.819552
batch: 186 Training Loss: 0.819115
batch: 187 Training Loss: 0.822228
batch: 188 Training Loss: 0.821883
batch: 189 Training Loss: 0.821952
batch: 190 Training Loss: 0.820981
batch: 191 Training Loss: 0.820120
batch: 192 Training Loss: 0.817441
batch: 193 Training Loss: 0.817867
batch: 194 Training Loss: 0.817312
batch: 195 Training Loss: 0.817074
batch: 196 Training Loss: 0.816362
batch: 197 Training Loss: 0.818325
batch: 198 Training Loss: 0.819681
batch: 199 Training Loss: 0.818393
batch: 200 Training Loss: 0.820035
batch: 201 Training Loss: 0.820055
batch: 202 Training Loss: 0.820095
batch: 203 Training Loss: 0.820815
batch: 204 Training Loss: 0.820224
batch: 205 Training Loss: 0.820267
batch: 206 Training Loss: 0.820105
batch: 207 Training Loss: 0.820268
Epoch: 14 Training Loss: 0.820268 Validation Loss: 1.229033
batch: 0 Training Loss: 0.911354
batch: 1 Training Loss: 0.593881
batch: 2 Training Loss: 0.593478
batch: 3 Training Loss: 0.605474
batch: 4 Training Loss: 0.583086
batch: 5 Training Loss: 0.550626
batch: 6 Training Loss: 0.567010
batch: 7 Training Loss: 0.571295
batch: 8 Training Loss: 0.640365
batch: 9 Training Loss: 0.628710
batch: 10 Training Loss: 0.642761
batch: 11 Training Loss: 0.667224
batch: 12 Training Loss: 0.682276
batch: 13 Training Loss: 0.702343
batch: 14 Training Loss: 0.717875
batch: 15 Training Loss: 0.708160
batch: 16 Training Loss: 0.713320
batch: 17 Training Loss: 0.736783
batch: 18 Training Loss: 0.738613
batch: 19 Training Loss: 0.736194
batch: 20 Training Loss: 0.736610
batch: 21 Training Loss: 0.738702
batch: 22 Training Loss: 0.731567
batch: 23 Training Loss: 0.730459
batch: 24 Training Loss: 0.732736
batch: 25 Training Loss: 0.727233
batch: 26 Training Loss: 0.744266
batch: 27 Training Loss: 0.734763
batch: 28 Training Loss: 0.733411
batch: 29 Training Loss: 0.740129
batch: 30 Training Loss: 0.738374
batch: 31 Training Loss: 0.737750
batch: 32 Training Loss: 0.749620
batch: 33 Training Loss: 0.753109
batch: 34 Training Loss: 0.766104
batch: 35 Training Loss: 0.764817
batch: 36 Training Loss: 0.758794
batch: 37 Training Loss: 0.756882
batch: 38 Training Loss: 0.780980
batch: 39 Training Loss: 0.779489
batch: 40 Training Loss: 0.778957
batch: 41 Training Loss: 0.778086
batch: 42 Training Loss: 0.773213
batch: 43 Training Loss: 0.772132
batch: 44 Training Loss: 0.771686
batch: 45 Training Loss: 0.767737
batch: 46 Training Loss: 0.770912
batch: 47 Training Loss: 0.767370
batch: 48 Training Loss: 0.767172
batch: 49 Training Loss: 0.767072
batch: 50 Training Loss: 0.772368
batch: 51 Training Loss: 0.769803
batch: 52 Training Loss: 0.771038
batch: 53 Training Loss: 0.768998
batch: 54 Training Loss: 0.769638
batch: 55 Training Loss: 0.763930
batch: 56 Training Loss: 0.758628
batch: 57 Training Loss: 0.761612

batch: 0 Training Loss: 0.764010
batch: 58 Training Loss: 0.763510
batch: 59 Training Loss: 0.763105
batch: 60 Training Loss: 0.760144
batch: 61 Training Loss: 0.758762
batch: 62 Training Loss: 0.763339
batch: 63 Training Loss: 0.759821
batch: 64 Training Loss: 0.757242
batch: 65 Training Loss: 0.755652
batch: 66 Training Loss: 0.756916
batch: 67 Training Loss: 0.759965
batch: 68 Training Loss: 0.756250
batch: 69 Training Loss: 0.754500
batch: 70 Training Loss: 0.753254
batch: 71 Training Loss: 0.754820
batch: 72 Training Loss: 0.755553
batch: 73 Training Loss: 0.754150
batch: 74 Training Loss: 0.754646
batch: 75 Training Loss: 0.751804
batch: 76 Training Loss: 0.754777
batch: 77 Training Loss: 0.761023
batch: 78 Training Loss: 0.764704
batch: 79 Training Loss: 0.764159
batch: 80 Training Loss: 0.762205
batch: 81 Training Loss: 0.763381
batch: 82 Training Loss: 0.765970
batch: 83 Training Loss: 0.763568
batch: 84 Training Loss: 0.760795
batch: 85 Training Loss: 0.764576
batch: 86 Training Loss: 0.772318
batch: 87 Training Loss: 0.771345
batch: 88 Training Loss: 0.773969
batch: 89 Training Loss: 0.775308
batch: 90 Training Loss: 0.772955
batch: 91 Training Loss: 0.771987
batch: 92 Training Loss: 0.770086
batch: 93 Training Loss: 0.768854
batch: 94 Training Loss: 0.765479
batch: 95 Training Loss: 0.766539
batch: 96 Training Loss: 0.762502
batch: 97 Training Loss: 0.763013
batch: 98 Training Loss: 0.761320
batch: 99 Training Loss: 0.761874
batch: 100 Training Loss: 0.759949
batch: 101 Training Loss: 0.757299
batch: 102 Training Loss: 0.757375
batch: 103 Training Loss: 0.757782
batch: 104 Training Loss: 0.755775
batch: 105 Training Loss: 0.754889
batch: 106 Training Loss: 0.754230
batch: 107 Training Loss: 0.751225
batch: 108 Training Loss: 0.757094
batch: 109 Training Loss: 0.757628
batch: 110 Training Loss: 0.755929
batch: 111 Training Loss: 0.753739
batch: 112 Training Loss: 0.754170
batch: 113 Training Loss: 0.754314
batch: 114 Training Loss: 0.752969
batch: 115 Training Loss: 0.752889
batch: 116 Training Loss: 0.752161
batch: 117 Training Loss: 0.749250
batch: 118 Training Loss: 0.750020
batch: 119 Training Loss: 0.749707
batch: 120 Training Loss: 0.747807
batch: 121 Training Loss: 0.748722
batch: 122 Training Loss: 0.751421
batch: 123 Training Loss: 0.751235
batch: 124 Training Loss: 0.752504
batch: 125 Training Loss: 0.752805
batch: 126 Training Loss: 0.754247
batch: 127 Training Loss: 0.754860
batch: 128 Training Loss: 0.753661
batch: 129 Training Loss: 0.755205
batch: 130 Training Loss: 0.754673
batch: 131 Training Loss: 0.751684
batch: 132 Training Loss: 0.751350
batch: 133 Training Loss: 0.750792
batch: 134 Training Loss: 0.750741
batch: 135 Training Loss: 0.751675
batch: 136 Training Loss: 0.750235
batch: 137 Training Loss: 0.751331
batch: 138 Training Loss: 0.752690
batch: 139 Training Loss: 0.754363
batch: 140 Training Loss: 0.752663
batch: 141 Training Loss: 0.754093
batch: 142 Training Loss: 0.753642
batch: 143 Training Loss: 0.755603
batch: 144 Training Loss: 0.757408
batch: 145 Training Loss: 0.759368
batch: 146 Training Loss: 0.760529
batch: 147 Training Loss: 0.759903
batch: 148 Training Loss: 0.759492

batch: 148 Training Loss: 0.76977
batch: 149 Training Loss: 0.764094
batch: 150 Training Loss: 0.763904
batch: 151 Training Loss: 0.768239
batch: 152 Training Loss: 0.769869
batch: 153 Training Loss: 0.769151
batch: 154 Training Loss: 0.770547
batch: 155 Training Loss: 0.770626
batch: 156 Training Loss: 0.773214
batch: 157 Training Loss: 0.775162
batch: 158 Training Loss: 0.775971
batch: 159 Training Loss: 0.775494
batch: 160 Training Loss: 0.777130
batch: 161 Training Loss: 0.779490
batch: 162 Training Loss: 0.780253
batch: 163 Training Loss: 0.779713
batch: 164 Training Loss: 0.779426
batch: 165 Training Loss: 0.781260
batch: 166 Training Loss: 0.779835
batch: 167 Training Loss: 0.780034
batch: 168 Training Loss: 0.777860
batch: 169 Training Loss: 0.776552
batch: 170 Training Loss: 0.779381
batch: 171 Training Loss: 0.779177
batch: 172 Training Loss: 0.781300
batch: 173 Training Loss: 0.780303
batch: 174 Training Loss: 0.782440
batch: 175 Training Loss: 0.783514
batch: 176 Training Loss: 0.784742
batch: 177 Training Loss: 0.784516
batch: 178 Training Loss: 0.784865
batch: 179 Training Loss: 0.784573
batch: 180 Training Loss: 0.783729
batch: 181 Training Loss: 0.783205
batch: 182 Training Loss: 0.783220
batch: 183 Training Loss: 0.781905
batch: 184 Training Loss: 0.780951
batch: 185 Training Loss: 0.779917
batch: 186 Training Loss: 0.778960
batch: 187 Training Loss: 0.780394
batch: 188 Training Loss: 0.783600
batch: 189 Training Loss: 0.784527
batch: 190 Training Loss: 0.785668
batch: 191 Training Loss: 0.786636
batch: 192 Training Loss: 0.786431
batch: 193 Training Loss: 0.785825
batch: 194 Training Loss: 0.785174
batch: 195 Training Loss: 0.783650
batch: 196 Training Loss: 0.783609
batch: 197 Training Loss: 0.783426
batch: 198 Training Loss: 0.782953
batch: 199 Training Loss: 0.783440
batch: 200 Training Loss: 0.782352
batch: 201 Training Loss: 0.783648
batch: 202 Training Loss: 0.784589
batch: 203 Training Loss: 0.783054
batch: 204 Training Loss: 0.782172
batch: 205 Training Loss: 0.782977
batch: 206 Training Loss: 0.782792
batch: 207 Training Loss: 0.782816
batch: 208 Training Loss: 0.783438
Epoch: 15 Training Loss: 0.783438 Validation Loss: 1.252225
batch: 0 Training Loss: 0.475342
batch: 1 Training Loss: 0.645543
batch: 2 Training Loss: 0.639008
batch: 3 Training Loss: 0.604403
batch: 4 Training Loss: 0.602646
batch: 5 Training Loss: 0.620510
batch: 6 Training Loss: 0.598520
batch: 7 Training Loss: 0.571607
batch: 8 Training Loss: 0.589234
batch: 9 Training Loss: 0.588727
batch: 10 Training Loss: 0.589770
batch: 11 Training Loss: 0.577769
batch: 12 Training Loss: 0.596936
batch: 13 Training Loss: 0.621980
batch: 14 Training Loss: 0.652032
batch: 15 Training Loss: 0.636182
batch: 16 Training Loss: 0.653187
batch: 17 Training Loss: 0.656805
batch: 18 Training Loss: 0.674629
batch: 19 Training Loss: 0.687081
batch: 20 Training Loss: 0.686727
batch: 21 Training Loss: 0.687546
batch: 22 Training Loss: 0.687873
batch: 23 Training Loss: 0.690040
batch: 24 Training Loss: 0.686911
batch: 25 Training Loss: 0.674995
batch: 26 Training Loss: 0.671078
batch: 27 Training Loss: 0.664121
batch: 28 Training Loss: 0.667269
batch: 29 Training Loss: 0.661493

batch: 29 Training Loss: 0.670617
batch: 30 Training Loss: 0.678369
batch: 31 Training Loss: 0.678178
batch: 32 Training Loss: 0.684254
batch: 33 Training Loss: 0.680827
batch: 34 Training Loss: 0.678461
batch: 35 Training Loss: 0.681568
batch: 36 Training Loss: 0.673587
batch: 37 Training Loss: 0.672731
batch: 38 Training Loss: 0.674552
batch: 39 Training Loss: 0.676800
batch: 40 Training Loss: 0.682123
batch: 41 Training Loss: 0.681194
batch: 42 Training Loss: 0.678085
batch: 43 Training Loss: 0.671679
batch: 44 Training Loss: 0.669182
batch: 45 Training Loss: 0.673706
batch: 46 Training Loss: 0.672671
batch: 47 Training Loss: 0.669843
batch: 48 Training Loss: 0.673036
batch: 49 Training Loss: 0.668967
batch: 50 Training Loss: 0.676353
batch: 51 Training Loss: 0.680066
batch: 52 Training Loss: 0.687778
batch: 53 Training Loss: 0.683154
batch: 54 Training Loss: 0.688854
batch: 55 Training Loss: 0.684319
batch: 56 Training Loss: 0.687343
batch: 57 Training Loss: 0.688274
batch: 58 Training Loss: 0.692401
batch: 59 Training Loss: 0.691776
batch: 60 Training Loss: 0.693156
batch: 61 Training Loss: 0.699741
batch: 62 Training Loss: 0.699746
batch: 63 Training Loss: 0.697606
batch: 64 Training Loss: 0.692912
batch: 65 Training Loss: 0.694472
batch: 66 Training Loss: 0.691722
batch: 67 Training Loss: 0.699329
batch: 68 Training Loss: 0.697858
batch: 69 Training Loss: 0.695644
batch: 70 Training Loss: 0.694389
batch: 71 Training Loss: 0.693737
batch: 72 Training Loss: 0.690725
batch: 73 Training Loss: 0.690360
batch: 74 Training Loss: 0.689566
batch: 75 Training Loss: 0.693239
batch: 76 Training Loss: 0.700557
batch: 77 Training Loss: 0.700102
batch: 78 Training Loss: 0.698762
batch: 79 Training Loss: 0.699666
batch: 80 Training Loss: 0.700727
batch: 81 Training Loss: 0.699745
batch: 82 Training Loss: 0.700245
batch: 83 Training Loss: 0.702623
batch: 84 Training Loss: 0.701319
batch: 85 Training Loss: 0.700751
batch: 86 Training Loss: 0.705103
batch: 87 Training Loss: 0.713053
batch: 88 Training Loss: 0.712041
batch: 89 Training Loss: 0.716508
batch: 90 Training Loss: 0.719557
batch: 91 Training Loss: 0.719242
batch: 92 Training Loss: 0.718832
batch: 93 Training Loss: 0.719394
batch: 94 Training Loss: 0.727050
batch: 95 Training Loss: 0.725324
batch: 96 Training Loss: 0.725036
batch: 97 Training Loss: 0.725715
batch: 98 Training Loss: 0.730748
batch: 99 Training Loss: 0.728408
batch: 100 Training Loss: 0.733001
batch: 101 Training Loss: 0.738751
batch: 102 Training Loss: 0.739164
batch: 103 Training Loss: 0.742851
batch: 104 Training Loss: 0.744280
batch: 105 Training Loss: 0.743999
batch: 106 Training Loss: 0.747193
batch: 107 Training Loss: 0.745718
batch: 108 Training Loss: 0.743797
batch: 109 Training Loss: 0.742869
batch: 110 Training Loss: 0.742709
batch: 111 Training Loss: 0.743801
batch: 112 Training Loss: 0.745942
batch: 113 Training Loss: 0.746253
batch: 114 Training Loss: 0.748425
batch: 115 Training Loss: 0.747557
batch: 116 Training Loss: 0.748387
batch: 117 Training Loss: 0.751357
batch: 118 Training Loss: 0.749783
batch: 119 Training Loss: 0.748605

```
batch: 121 Training Loss: 0.750070
batch: 122 Training Loss: 0.748391
batch: 123 Training Loss: 0.752106
batch: 124 Training Loss: 0.752157
batch: 125 Training Loss: 0.753743
batch: 126 Training Loss: 0.750711
batch: 127 Training Loss: 0.750070
batch: 128 Training Loss: 0.750827
batch: 129 Training Loss: 0.751182
batch: 130 Training Loss: 0.749154
batch: 131 Training Loss: 0.748158
batch: 132 Training Loss: 0.748451
batch: 133 Training Loss: 0.745570
batch: 134 Training Loss: 0.744596
batch: 135 Training Loss: 0.744650
batch: 136 Training Loss: 0.744717
batch: 137 Training Loss: 0.744121
batch: 138 Training Loss: 0.742832
batch: 139 Training Loss: 0.745267
batch: 140 Training Loss: 0.742695
batch: 141 Training Loss: 0.743224
batch: 142 Training Loss: 0.744385
batch: 143 Training Loss: 0.744192
batch: 144 Training Loss: 0.744722
batch: 145 Training Loss: 0.744941
batch: 146 Training Loss: 0.742997
batch: 147 Training Loss: 0.743501
batch: 148 Training Loss: 0.741294
batch: 149 Training Loss: 0.742318
batch: 150 Training Loss: 0.741876
batch: 151 Training Loss: 0.742071
batch: 152 Training Loss: 0.743601
batch: 153 Training Loss: 0.743533
batch: 154 Training Loss: 0.745846
batch: 155 Training Loss: 0.744852
batch: 156 Training Loss: 0.747926
batch: 157 Training Loss: 0.750240
batch: 158 Training Loss: 0.748379
batch: 159 Training Loss: 0.748879
batch: 160 Training Loss: 0.749091
batch: 161 Training Loss: 0.749571
batch: 162 Training Loss: 0.752757
batch: 163 Training Loss: 0.752052
batch: 164 Training Loss: 0.751593
batch: 165 Training Loss: 0.751047
batch: 166 Training Loss: 0.752447
batch: 167 Training Loss: 0.752398
batch: 168 Training Loss: 0.752190
batch: 169 Training Loss: 0.756195
batch: 170 Training Loss: 0.754325
batch: 171 Training Loss: 0.755114
batch: 172 Training Loss: 0.755783
batch: 173 Training Loss: 0.757008
batch: 174 Training Loss: 0.757227
batch: 175 Training Loss: 0.757662
batch: 176 Training Loss: 0.757334
batch: 177 Training Loss: 0.755496
batch: 178 Training Loss: 0.755554
batch: 179 Training Loss: 0.756762
batch: 180 Training Loss: 0.756349
batch: 181 Training Loss: 0.756992
batch: 182 Training Loss: 0.756321
batch: 183 Training Loss: 0.754641
batch: 184 Training Loss: 0.755749
batch: 185 Training Loss: 0.757282
batch: 186 Training Loss: 0.756069
batch: 187 Training Loss: 0.757065
batch: 188 Training Loss: 0.757451
batch: 189 Training Loss: 0.758149
batch: 190 Training Loss: 0.758202
batch: 191 Training Loss: 0.757570
batch: 192 Training Loss: 0.757380
batch: 193 Training Loss: 0.758471
batch: 194 Training Loss: 0.757505
batch: 195 Training Loss: 0.755802
batch: 196 Training Loss: 0.757584
batch: 197 Training Loss: 0.756929
batch: 198 Training Loss: 0.759573
batch: 199 Training Loss: 0.760707
batch: 200 Training Loss: 0.760740
batch: 201 Training Loss: 0.764802
batch: 202 Training Loss: 0.764133
batch: 203 Training Loss: 0.763945
batch: 204 Training Loss: 0.765402
batch: 205 Training Loss: 0.766470
batch: 206 Training Loss: 0.767281
batch: 207 Training Loss: 0.768118
batch: 208 Training Loss: 0.770144
Epoch: 16 Training Loss: 0.770144 Validation Loss: 1.102291
batch: 0 Training Loss: 0.616227
batch: 1 Training Loss: 0.617223
```

batch: 2 Training Loss: 0.605261
batch: 3 Training Loss: 0.624272
batch: 4 Training Loss: 0.586111
batch: 5 Training Loss: 0.616180
batch: 6 Training Loss: 0.639060
batch: 7 Training Loss: 0.620173
batch: 8 Training Loss: 0.607063
batch: 9 Training Loss: 0.633169
batch: 10 Training Loss: 0.631774
batch: 11 Training Loss: 0.628577
batch: 12 Training Loss: 0.627607
batch: 13 Training Loss: 0.618657
batch: 14 Training Loss: 0.632970
batch: 15 Training Loss: 0.630506
batch: 16 Training Loss: 0.651738
batch: 17 Training Loss: 0.651099
batch: 18 Training Loss: 0.661904
batch: 19 Training Loss: 0.651750
batch: 20 Training Loss: 0.649402
batch: 21 Training Loss: 0.657941
batch: 22 Training Loss: 0.670834
batch: 23 Training Loss: 0.670513
batch: 24 Training Loss: 0.675399
batch: 25 Training Loss: 0.675935
batch: 26 Training Loss: 0.677182
batch: 27 Training Loss: 0.673284
batch: 28 Training Loss: 0.682234
batch: 29 Training Loss: 0.680971
batch: 30 Training Loss: 0.699751
batch: 31 Training Loss: 0.696833
batch: 32 Training Loss: 0.707500
batch: 33 Training Loss: 0.700335
batch: 34 Training Loss: 0.695896
batch: 35 Training Loss: 0.700741
batch: 36 Training Loss: 0.700661
batch: 37 Training Loss: 0.706061
batch: 38 Training Loss: 0.703128
batch: 39 Training Loss: 0.700881
batch: 40 Training Loss: 0.700074
batch: 41 Training Loss: 0.702097
batch: 42 Training Loss: 0.694014
batch: 43 Training Loss: 0.696985
batch: 44 Training Loss: 0.701579
batch: 45 Training Loss: 0.697150
batch: 46 Training Loss: 0.689663
batch: 47 Training Loss: 0.687612
batch: 48 Training Loss: 0.688112
batch: 49 Training Loss: 0.694374
batch: 50 Training Loss: 0.691505
batch: 51 Training Loss: 0.686428
batch: 52 Training Loss: 0.682103
batch: 53 Training Loss: 0.686447
batch: 54 Training Loss: 0.687123
batch: 55 Training Loss: 0.681622
batch: 56 Training Loss: 0.679459
batch: 57 Training Loss: 0.676278
batch: 58 Training Loss: 0.680232
batch: 59 Training Loss: 0.672823
batch: 60 Training Loss: 0.673265
batch: 61 Training Loss: 0.679626
batch: 62 Training Loss: 0.677949
batch: 63 Training Loss: 0.679243
batch: 64 Training Loss: 0.675635
batch: 65 Training Loss: 0.672101
batch: 66 Training Loss: 0.678854
batch: 67 Training Loss: 0.681682
batch: 68 Training Loss: 0.677021
batch: 69 Training Loss: 0.674575
batch: 70 Training Loss: 0.677329
batch: 71 Training Loss: 0.682133
batch: 72 Training Loss: 0.685869
batch: 73 Training Loss: 0.685515
batch: 74 Training Loss: 0.684781
batch: 75 Training Loss: 0.684078
batch: 76 Training Loss: 0.684145
batch: 77 Training Loss: 0.687847
batch: 78 Training Loss: 0.687670
batch: 79 Training Loss: 0.690077
batch: 80 Training Loss: 0.687179
batch: 81 Training Loss: 0.688156
batch: 82 Training Loss: 0.687621
batch: 83 Training Loss: 0.689346
batch: 84 Training Loss: 0.690408
batch: 85 Training Loss: 0.691176
batch: 86 Training Loss: 0.689209
batch: 87 Training Loss: 0.688109
batch: 88 Training Loss: 0.687127
batch: 89 Training Loss: 0.684572
batch: 90 Training Loss: 0.688496
batch: 91 Training Loss: 0.688671
batch: 92 Training Loss: 0.688764

batch: 93 Training Loss: 0.691019
batch: 94 Training Loss: 0.688598
batch: 95 Training Loss: 0.689049
batch: 96 Training Loss: 0.690583
batch: 97 Training Loss: 0.693332
batch: 98 Training Loss: 0.689987
batch: 99 Training Loss: 0.686589
batch: 100 Training Loss: 0.685414
batch: 101 Training Loss: 0.688187
batch: 102 Training Loss: 0.693256
batch: 103 Training Loss: 0.691414
batch: 104 Training Loss: 0.689677
batch: 105 Training Loss: 0.690584
batch: 106 Training Loss: 0.688258
batch: 107 Training Loss: 0.688475
batch: 108 Training Loss: 0.688654
batch: 109 Training Loss: 0.690330
batch: 110 Training Loss: 0.692312
batch: 111 Training Loss: 0.691734
batch: 112 Training Loss: 0.694703
batch: 113 Training Loss: 0.699191
batch: 114 Training Loss: 0.698403
batch: 115 Training Loss: 0.698824
batch: 116 Training Loss: 0.699548
batch: 117 Training Loss: 0.696377
batch: 118 Training Loss: 0.697714
batch: 119 Training Loss: 0.696958
batch: 120 Training Loss: 0.698592
batch: 121 Training Loss: 0.697820
batch: 122 Training Loss: 0.696579
batch: 123 Training Loss: 0.696191
batch: 124 Training Loss: 0.697584
batch: 125 Training Loss: 0.696135
batch: 126 Training Loss: 0.693517
batch: 127 Training Loss: 0.695444
batch: 128 Training Loss: 0.693613
batch: 129 Training Loss: 0.693658
batch: 130 Training Loss: 0.694549
batch: 131 Training Loss: 0.694186
batch: 132 Training Loss: 0.694877
batch: 133 Training Loss: 0.696298
batch: 134 Training Loss: 0.695563
batch: 135 Training Loss: 0.692629
batch: 136 Training Loss: 0.696294
batch: 137 Training Loss: 0.696214
batch: 138 Training Loss: 0.693365
batch: 139 Training Loss: 0.694737
batch: 140 Training Loss: 0.694506
batch: 141 Training Loss: 0.694946
batch: 142 Training Loss: 0.695340
batch: 143 Training Loss: 0.692964
batch: 144 Training Loss: 0.696826
batch: 145 Training Loss: 0.695363
batch: 146 Training Loss: 0.696140
batch: 147 Training Loss: 0.695853
batch: 148 Training Loss: 0.694231
batch: 149 Training Loss: 0.694449
batch: 150 Training Loss: 0.692995
batch: 151 Training Loss: 0.692399
batch: 152 Training Loss: 0.692024
batch: 153 Training Loss: 0.693801
batch: 154 Training Loss: 0.692743
batch: 155 Training Loss: 0.695623
batch: 156 Training Loss: 0.695696
batch: 157 Training Loss: 0.693804
batch: 158 Training Loss: 0.693940
batch: 159 Training Loss: 0.695117
batch: 160 Training Loss: 0.693745
batch: 161 Training Loss: 0.693822
batch: 162 Training Loss: 0.693592
batch: 163 Training Loss: 0.694543
batch: 164 Training Loss: 0.694887
batch: 165 Training Loss: 0.695794
batch: 166 Training Loss: 0.694179
batch: 167 Training Loss: 0.693132
batch: 168 Training Loss: 0.693604
batch: 169 Training Loss: 0.692117
batch: 170 Training Loss: 0.691627
batch: 171 Training Loss: 0.690712
batch: 172 Training Loss: 0.689980
batch: 173 Training Loss: 0.690231
batch: 174 Training Loss: 0.690201
batch: 175 Training Loss: 0.688271
batch: 176 Training Loss: 0.689822
batch: 177 Training Loss: 0.689609
batch: 178 Training Loss: 0.689300
batch: 179 Training Loss: 0.689065
batch: 180 Training Loss: 0.688877
batch: 181 Training Loss: 0.689556
batch: 182 Training Loss: 0.691070
batch: 183 Training Loss: 0.690929

batch: 184 Training Loss: 0.691101
batch: 185 Training Loss: 0.690993
batch: 186 Training Loss: 0.689966
batch: 187 Training Loss: 0.689310
batch: 188 Training Loss: 0.689681
batch: 189 Training Loss: 0.691504
batch: 190 Training Loss: 0.690811
batch: 191 Training Loss: 0.689412
batch: 192 Training Loss: 0.692823
batch: 193 Training Loss: 0.694718
batch: 194 Training Loss: 0.695263
batch: 195 Training Loss: 0.694789
batch: 196 Training Loss: 0.694931
batch: 197 Training Loss: 0.695774
batch: 198 Training Loss: 0.695743
batch: 199 Training Loss: 0.694521
batch: 200 Training Loss: 0.695064
batch: 201 Training Loss: 0.694858
batch: 202 Training Loss: 0.693392
batch: 203 Training Loss: 0.698114
batch: 204 Training Loss: 0.697491
batch: 205 Training Loss: 0.697530
batch: 206 Training Loss: 0.696848
batch: 207 Training Loss: 0.696919
batch: 208 Training Loss: 0.695175
Epoch: 17 Training Loss: 0.695175 Validation Loss: 1.495584
batch: 0 Training Loss: 0.828767
batch: 1 Training Loss: 0.890651
batch: 2 Training Loss: 0.724133
batch: 3 Training Loss: 0.762277
batch: 4 Training Loss: 0.705074
batch: 5 Training Loss: 0.797234
batch: 6 Training Loss: 0.734454
batch: 7 Training Loss: 0.788787
batch: 8 Training Loss: 0.809097
batch: 9 Training Loss: 0.811570
batch: 10 Training Loss: 0.837894
batch: 11 Training Loss: 0.830693
batch: 12 Training Loss: 0.817860
batch: 13 Training Loss: 0.837883
batch: 14 Training Loss: 0.828007
batch: 15 Training Loss: 0.804192
batch: 16 Training Loss: 0.804707
batch: 17 Training Loss: 0.780877
batch: 18 Training Loss: 0.775202
batch: 19 Training Loss: 0.755680
batch: 20 Training Loss: 0.742399
batch: 21 Training Loss: 0.735409
batch: 22 Training Loss: 0.720166
batch: 23 Training Loss: 0.715919
batch: 24 Training Loss: 0.712151
batch: 25 Training Loss: 0.704625
batch: 26 Training Loss: 0.702408
batch: 27 Training Loss: 0.697992
batch: 28 Training Loss: 0.699334
batch: 29 Training Loss: 0.698950
batch: 30 Training Loss: 0.707942
batch: 31 Training Loss: 0.707953
batch: 32 Training Loss: 0.703548
batch: 33 Training Loss: 0.692745
batch: 34 Training Loss: 0.683345
batch: 35 Training Loss: 0.696863
batch: 36 Training Loss: 0.691829
batch: 37 Training Loss: 0.689236
batch: 38 Training Loss: 0.685425
batch: 39 Training Loss: 0.690249
batch: 40 Training Loss: 0.691638
batch: 41 Training Loss: 0.688943
batch: 42 Training Loss: 0.681335
batch: 43 Training Loss: 0.673318
batch: 44 Training Loss: 0.664202
batch: 45 Training Loss: 0.669758
batch: 46 Training Loss: 0.671657
batch: 47 Training Loss: 0.669087
batch: 48 Training Loss: 0.666939
batch: 49 Training Loss: 0.669561
batch: 50 Training Loss: 0.669222
batch: 51 Training Loss: 0.669906
batch: 52 Training Loss: 0.666679
batch: 53 Training Loss: 0.664098
batch: 54 Training Loss: 0.661667
batch: 55 Training Loss: 0.661775
batch: 56 Training Loss: 0.659704
batch: 57 Training Loss: 0.655600
batch: 58 Training Loss: 0.661449
batch: 59 Training Loss: 0.657259
batch: 60 Training Loss: 0.662835
batch: 61 Training Loss: 0.660835
batch: 62 Training Loss: 0.659977
batch: 63 Training Loss: 0.665428
batch: 64 Training Loss: 0.664729

batch: 65 Training Loss: 0.661490
batch: 66 Training Loss: 0.662952
batch: 67 Training Loss: 0.669879
batch: 68 Training Loss: 0.665195
batch: 69 Training Loss: 0.666369
batch: 70 Training Loss: 0.666545
batch: 71 Training Loss: 0.664482
batch: 72 Training Loss: 0.664997
batch: 73 Training Loss: 0.670503
batch: 74 Training Loss: 0.668163
batch: 75 Training Loss: 0.664975
batch: 76 Training Loss: 0.663227
batch: 77 Training Loss: 0.660509
batch: 78 Training Loss: 0.659434
batch: 79 Training Loss: 0.658586
batch: 80 Training Loss: 0.658235
batch: 81 Training Loss: 0.665184
batch: 82 Training Loss: 0.669376
batch: 83 Training Loss: 0.671316
batch: 84 Training Loss: 0.670732
batch: 85 Training Loss: 0.671577
batch: 86 Training Loss: 0.671170
batch: 87 Training Loss: 0.671432
batch: 88 Training Loss: 0.676029
batch: 89 Training Loss: 0.674104
batch: 90 Training Loss: 0.672536
batch: 91 Training Loss: 0.673462
batch: 92 Training Loss: 0.677564
batch: 93 Training Loss: 0.677334
batch: 94 Training Loss: 0.680489
batch: 95 Training Loss: 0.680307
batch: 96 Training Loss: 0.688019
batch: 97 Training Loss: 0.687065
batch: 98 Training Loss: 0.684963
batch: 99 Training Loss: 0.691443
batch: 100 Training Loss: 0.691805
batch: 101 Training Loss: 0.692382
batch: 102 Training Loss: 0.695717
batch: 103 Training Loss: 0.691065
batch: 104 Training Loss: 0.691789
batch: 105 Training Loss: 0.687745
batch: 106 Training Loss: 0.689630
batch: 107 Training Loss: 0.690085
batch: 108 Training Loss: 0.687745
batch: 109 Training Loss: 0.686685
batch: 110 Training Loss: 0.684216
batch: 111 Training Loss: 0.685944
batch: 112 Training Loss: 0.688820
batch: 113 Training Loss: 0.686681
batch: 114 Training Loss: 0.684863
batch: 115 Training Loss: 0.684216
batch: 116 Training Loss: 0.685062
batch: 117 Training Loss: 0.684776
batch: 118 Training Loss: 0.685731
batch: 119 Training Loss: 0.686469
batch: 120 Training Loss: 0.685947
batch: 121 Training Loss: 0.683707
batch: 122 Training Loss: 0.685552
batch: 123 Training Loss: 0.682856
batch: 124 Training Loss: 0.683185
batch: 125 Training Loss: 0.686599
batch: 126 Training Loss: 0.687444
batch: 127 Training Loss: 0.686657
batch: 128 Training Loss: 0.684707
batch: 129 Training Loss: 0.684029
batch: 130 Training Loss: 0.680664
batch: 131 Training Loss: 0.680514
batch: 132 Training Loss: 0.683483
batch: 133 Training Loss: 0.681202
batch: 134 Training Loss: 0.680003
batch: 135 Training Loss: 0.679939
batch: 136 Training Loss: 0.677649
batch: 137 Training Loss: 0.677305
batch: 138 Training Loss: 0.678803
batch: 139 Training Loss: 0.678057
batch: 140 Training Loss: 0.679616
batch: 141 Training Loss: 0.680496
batch: 142 Training Loss: 0.679891
batch: 143 Training Loss: 0.679116
batch: 144 Training Loss: 0.679258
batch: 145 Training Loss: 0.678420
batch: 146 Training Loss: 0.678758
batch: 147 Training Loss: 0.678353
batch: 148 Training Loss: 0.679202
batch: 149 Training Loss: 0.680447
batch: 150 Training Loss: 0.683350
batch: 151 Training Loss: 0.683937
batch: 152 Training Loss: 0.682105
batch: 153 Training Loss: 0.683068
batch: 154 Training Loss: 0.683231
batch: 155 Training Loss: 0.682238

batch: 156 Training Loss: 0.684924
batch: 157 Training Loss: 0.686306
batch: 158 Training Loss: 0.683020
batch: 159 Training Loss: 0.682719
batch: 160 Training Loss: 0.682535
batch: 161 Training Loss: 0.681832
batch: 162 Training Loss: 0.682818
batch: 163 Training Loss: 0.682152
batch: 164 Training Loss: 0.683932
batch: 165 Training Loss: 0.686424
batch: 166 Training Loss: 0.687616
batch: 167 Training Loss: 0.689332
batch: 168 Training Loss: 0.689452
batch: 169 Training Loss: 0.691281
batch: 170 Training Loss: 0.693417
batch: 171 Training Loss: 0.693355
batch: 172 Training Loss: 0.693748
batch: 173 Training Loss: 0.694660
batch: 174 Training Loss: 0.693709
batch: 175 Training Loss: 0.695469
batch: 176 Training Loss: 0.693751
batch: 177 Training Loss: 0.691874
batch: 178 Training Loss: 0.692521
batch: 179 Training Loss: 0.691754
batch: 180 Training Loss: 0.690749
batch: 181 Training Loss: 0.689812
batch: 182 Training Loss: 0.688988
batch: 183 Training Loss: 0.688918
batch: 184 Training Loss: 0.689169
batch: 185 Training Loss: 0.687909
batch: 186 Training Loss: 0.687657
batch: 187 Training Loss: 0.687898
batch: 188 Training Loss: 0.688784
batch: 189 Training Loss: 0.689085
batch: 190 Training Loss: 0.688033
batch: 191 Training Loss: 0.690098
batch: 192 Training Loss: 0.690891
batch: 193 Training Loss: 0.691253
batch: 194 Training Loss: 0.693508
batch: 195 Training Loss: 0.692895
batch: 196 Training Loss: 0.692118
batch: 197 Training Loss: 0.692410
batch: 198 Training Loss: 0.692042
batch: 199 Training Loss: 0.691453
batch: 200 Training Loss: 0.691886
batch: 201 Training Loss: 0.691124
batch: 202 Training Loss: 0.693799
batch: 203 Training Loss: 0.692579
batch: 204 Training Loss: 0.695051
batch: 205 Training Loss: 0.695639
batch: 206 Training Loss: 0.695213
batch: 207 Training Loss: 0.693591
batch: 208 Training Loss: 0.691682
Epoch: 18 Training Loss: 0.691682 Validation Loss: 1.136386
batch: 0 Training Loss: 0.602305
batch: 1 Training Loss: 0.771023
batch: 2 Training Loss: 0.745073
batch: 3 Training Loss: 0.782776
batch: 4 Training Loss: 0.723741
batch: 5 Training Loss: 0.690139
batch: 6 Training Loss: 0.691749
batch: 7 Training Loss: 0.677164
batch: 8 Training Loss: 0.701921
batch: 9 Training Loss: 0.745244
batch: 10 Training Loss: 0.747209
batch: 11 Training Loss: 0.733485
batch: 12 Training Loss: 0.740752
batch: 13 Training Loss: 0.736041
batch: 14 Training Loss: 0.718672
batch: 15 Training Loss: 0.705994
batch: 16 Training Loss: 0.704310
batch: 17 Training Loss: 0.700121
batch: 18 Training Loss: 0.688059
batch: 19 Training Loss: 0.697853
batch: 20 Training Loss: 0.720173
batch: 21 Training Loss: 0.712127
batch: 22 Training Loss: 0.703821
batch: 23 Training Loss: 0.688577
batch: 24 Training Loss: 0.693930
batch: 25 Training Loss: 0.699412
batch: 26 Training Loss: 0.689309
batch: 27 Training Loss: 0.686535
batch: 28 Training Loss: 0.682910
batch: 29 Training Loss: 0.674208
batch: 30 Training Loss: 0.676737
batch: 31 Training Loss: 0.672031
batch: 32 Training Loss: 0.662734
batch: 33 Training Loss: 0.660337
batch: 34 Training Loss: 0.656489
batch: 35 Training Loss: 0.665069
batch: 36 Training Loss: 0.660359

batch: 37 Training Loss: 0.655652
batch: 38 Training Loss: 0.654782
batch: 39 Training Loss: 0.649686
batch: 40 Training Loss: 0.660329
batch: 41 Training Loss: 0.664502
batch: 42 Training Loss: 0.676447
batch: 43 Training Loss: 0.673664
batch: 44 Training Loss: 0.670477
batch: 45 Training Loss: 0.667713
batch: 46 Training Loss: 0.666997
batch: 47 Training Loss: 0.668419
batch: 48 Training Loss: 0.664936
batch: 49 Training Loss: 0.663427
batch: 50 Training Loss: 0.660613
batch: 51 Training Loss: 0.658222
batch: 52 Training Loss: 0.658290
batch: 53 Training Loss: 0.657403
batch: 54 Training Loss: 0.656857
batch: 55 Training Loss: 0.655563
batch: 56 Training Loss: 0.654052
batch: 57 Training Loss: 0.650238
batch: 58 Training Loss: 0.648072
batch: 59 Training Loss: 0.648974
batch: 60 Training Loss: 0.649695
batch: 61 Training Loss: 0.651300
batch: 62 Training Loss: 0.658541
batch: 63 Training Loss: 0.657326
batch: 64 Training Loss: 0.655739
batch: 65 Training Loss: 0.649961
batch: 66 Training Loss: 0.655211
batch: 67 Training Loss: 0.654338
batch: 68 Training Loss: 0.650922
batch: 69 Training Loss: 0.652218
batch: 70 Training Loss: 0.650139
batch: 71 Training Loss: 0.650649
batch: 72 Training Loss: 0.646297
batch: 73 Training Loss: 0.643784
batch: 74 Training Loss: 0.643381
batch: 75 Training Loss: 0.645050
batch: 76 Training Loss: 0.646956
batch: 77 Training Loss: 0.644700
batch: 78 Training Loss: 0.644403
batch: 79 Training Loss: 0.644592
batch: 80 Training Loss: 0.643032
batch: 81 Training Loss: 0.640720
batch: 82 Training Loss: 0.639121
batch: 83 Training Loss: 0.639842
batch: 84 Training Loss: 0.637208
batch: 85 Training Loss: 0.632787
batch: 86 Training Loss: 0.633453
batch: 87 Training Loss: 0.633641
batch: 88 Training Loss: 0.635665
batch: 89 Training Loss: 0.637301
batch: 90 Training Loss: 0.635739
batch: 91 Training Loss: 0.635517
batch: 92 Training Loss: 0.634694
batch: 93 Training Loss: 0.636623
batch: 94 Training Loss: 0.634324
batch: 95 Training Loss: 0.632445
batch: 96 Training Loss: 0.635954
batch: 97 Training Loss: 0.635728
batch: 98 Training Loss: 0.637627
batch: 99 Training Loss: 0.634692
batch: 100 Training Loss: 0.635821
batch: 101 Training Loss: 0.635998
batch: 102 Training Loss: 0.639865
batch: 103 Training Loss: 0.639309
batch: 104 Training Loss: 0.636689
batch: 105 Training Loss: 0.637975
batch: 106 Training Loss: 0.636520
batch: 107 Training Loss: 0.636857
batch: 108 Training Loss: 0.635971
batch: 109 Training Loss: 0.636247
batch: 110 Training Loss: 0.633763
batch: 111 Training Loss: 0.632530
batch: 112 Training Loss: 0.632446
batch: 113 Training Loss: 0.632480
batch: 114 Training Loss: 0.635380
batch: 115 Training Loss: 0.637060
batch: 116 Training Loss: 0.634535
batch: 117 Training Loss: 0.634593
batch: 118 Training Loss: 0.636408
batch: 119 Training Loss: 0.636084
batch: 120 Training Loss: 0.636032
batch: 121 Training Loss: 0.634655
batch: 122 Training Loss: 0.633586
batch: 123 Training Loss: 0.639242
batch: 124 Training Loss: 0.641747
batch: 125 Training Loss: 0.640095
batch: 126 Training Loss: 0.643173
batch: 127 Training Loss: 0.642218

batch: 128 Training Loss: 0.641225
batch: 129 Training Loss: 0.639369
batch: 130 Training Loss: 0.637610
batch: 131 Training Loss: 0.638584
batch: 132 Training Loss: 0.639487
batch: 133 Training Loss: 0.639461
batch: 134 Training Loss: 0.639086
batch: 135 Training Loss: 0.639171
batch: 136 Training Loss: 0.639586
batch: 137 Training Loss: 0.639193
batch: 138 Training Loss: 0.641331
batch: 139 Training Loss: 0.640554
batch: 140 Training Loss: 0.641987
batch: 141 Training Loss: 0.642218
batch: 142 Training Loss: 0.639922
batch: 143 Training Loss: 0.642913
batch: 144 Training Loss: 0.641396
batch: 145 Training Loss: 0.640710
batch: 146 Training Loss: 0.642684
batch: 147 Training Loss: 0.643788
batch: 148 Training Loss: 0.643403
batch: 149 Training Loss: 0.642874
batch: 150 Training Loss: 0.644505
batch: 151 Training Loss: 0.646858
batch: 152 Training Loss: 0.647006
batch: 153 Training Loss: 0.647839
batch: 154 Training Loss: 0.648077
batch: 155 Training Loss: 0.651810
batch: 156 Training Loss: 0.650212
batch: 157 Training Loss: 0.651807
batch: 158 Training Loss: 0.650517
batch: 159 Training Loss: 0.649151
batch: 160 Training Loss: 0.649122
batch: 161 Training Loss: 0.650061
batch: 162 Training Loss: 0.651044
batch: 163 Training Loss: 0.651127
batch: 164 Training Loss: 0.650806
batch: 165 Training Loss: 0.650414
batch: 166 Training Loss: 0.649565
batch: 167 Training Loss: 0.648878
batch: 168 Training Loss: 0.648074
batch: 169 Training Loss: 0.648506
batch: 170 Training Loss: 0.648007
batch: 171 Training Loss: 0.649862
batch: 172 Training Loss: 0.650067
batch: 173 Training Loss: 0.649050
batch: 174 Training Loss: 0.648616
batch: 175 Training Loss: 0.650347
batch: 176 Training Loss: 0.651895
batch: 177 Training Loss: 0.650528
batch: 178 Training Loss: 0.648561
batch: 179 Training Loss: 0.649539
batch: 180 Training Loss: 0.651400
batch: 181 Training Loss: 0.649782
batch: 182 Training Loss: 0.649289
batch: 183 Training Loss: 0.649732
batch: 184 Training Loss: 0.648734
batch: 185 Training Loss: 0.649973
batch: 186 Training Loss: 0.649748
batch: 187 Training Loss: 0.650914
batch: 188 Training Loss: 0.651410
batch: 189 Training Loss: 0.652634
batch: 190 Training Loss: 0.654025
batch: 191 Training Loss: 0.655137
batch: 192 Training Loss: 0.657434
batch: 193 Training Loss: 0.658777
batch: 194 Training Loss: 0.658384
batch: 195 Training Loss: 0.657619
batch: 196 Training Loss: 0.657669
batch: 197 Training Loss: 0.656551
batch: 198 Training Loss: 0.657480
batch: 199 Training Loss: 0.658299
batch: 200 Training Loss: 0.657687
batch: 201 Training Loss: 0.657299
batch: 202 Training Loss: 0.658970
batch: 203 Training Loss: 0.659897
batch: 204 Training Loss: 0.660215
batch: 205 Training Loss: 0.660156
batch: 206 Training Loss: 0.658808
batch: 207 Training Loss: 0.658942
batch: 208 Training Loss: 0.658556
Epoch: 19 Training Loss: 0.658556 Validation Loss: 1.232221
batch: 0 Training Loss: 0.601368
batch: 1 Training Loss: 0.610203
batch: 2 Training Loss: 0.582624
batch: 3 Training Loss: 0.589425
batch: 4 Training Loss: 0.612812
batch: 5 Training Loss: 0.637099
batch: 6 Training Loss: 0.649519
batch: 7 Training Loss: 0.621551
batch: 8 Training Loss: 0.639863

batch: 9 Training Loss: 0.623776
batch: 10 Training Loss: 0.607221
batch: 11 Training Loss: 0.589304
batch: 12 Training Loss: 0.592342
batch: 13 Training Loss: 0.620173
batch: 14 Training Loss: 0.610896
batch: 15 Training Loss: 0.600524
batch: 16 Training Loss: 0.608666
batch: 17 Training Loss: 0.602639
batch: 18 Training Loss: 0.611325
batch: 19 Training Loss: 0.624867
batch: 20 Training Loss: 0.633191
batch: 21 Training Loss: 0.623853
batch: 22 Training Loss: 0.625627
batch: 23 Training Loss: 0.631489
batch: 24 Training Loss: 0.622516
batch: 25 Training Loss: 0.611518
batch: 26 Training Loss: 0.606411
batch: 27 Training Loss: 0.599520
batch: 28 Training Loss: 0.590001
batch: 29 Training Loss: 0.585959
batch: 30 Training Loss: 0.580906
batch: 31 Training Loss: 0.578726
batch: 32 Training Loss: 0.574015
batch: 33 Training Loss: 0.577675
batch: 34 Training Loss: 0.575418
batch: 35 Training Loss: 0.579951
batch: 36 Training Loss: 0.583944
batch: 37 Training Loss: 0.582978
batch: 38 Training Loss: 0.582652
batch: 39 Training Loss: 0.577343
batch: 40 Training Loss: 0.577125
batch: 41 Training Loss: 0.573896
batch: 42 Training Loss: 0.569187
batch: 43 Training Loss: 0.566042
batch: 44 Training Loss: 0.565886
batch: 45 Training Loss: 0.569094
batch: 46 Training Loss: 0.573245
batch: 47 Training Loss: 0.573262
batch: 48 Training Loss: 0.576044
batch: 49 Training Loss: 0.578973
batch: 50 Training Loss: 0.582855
batch: 51 Training Loss: 0.587074
batch: 52 Training Loss: 0.589427
batch: 53 Training Loss: 0.586150
batch: 54 Training Loss: 0.583330
batch: 55 Training Loss: 0.586335
batch: 56 Training Loss: 0.590104
batch: 57 Training Loss: 0.591276
batch: 58 Training Loss: 0.585330
batch: 59 Training Loss: 0.590683
batch: 60 Training Loss: 0.593829
batch: 61 Training Loss: 0.591445
batch: 62 Training Loss: 0.588942
batch: 63 Training Loss: 0.588304
batch: 64 Training Loss: 0.588543
batch: 65 Training Loss: 0.583964
batch: 66 Training Loss: 0.582871
batch: 67 Training Loss: 0.583803
batch: 68 Training Loss: 0.583044
batch: 69 Training Loss: 0.584666
batch: 70 Training Loss: 0.585378
batch: 71 Training Loss: 0.585747
batch: 72 Training Loss: 0.585912
batch: 73 Training Loss: 0.590074
batch: 74 Training Loss: 0.588225
batch: 75 Training Loss: 0.588675
batch: 76 Training Loss: 0.584850
batch: 77 Training Loss: 0.588320
batch: 78 Training Loss: 0.593450
batch: 79 Training Loss: 0.590756
batch: 80 Training Loss: 0.587972
batch: 81 Training Loss: 0.588345
batch: 82 Training Loss: 0.588714
batch: 83 Training Loss: 0.585559
batch: 84 Training Loss: 0.581928
batch: 85 Training Loss: 0.586669
batch: 86 Training Loss: 0.587696
batch: 87 Training Loss: 0.587196
batch: 88 Training Loss: 0.589454
batch: 89 Training Loss: 0.590365
batch: 90 Training Loss: 0.592627
batch: 91 Training Loss: 0.589102
batch: 92 Training Loss: 0.588741
batch: 93 Training Loss: 0.587580
batch: 94 Training Loss: 0.586401
batch: 95 Training Loss: 0.590623
batch: 96 Training Loss: 0.590737
batch: 97 Training Loss: 0.593151
batch: 98 Training Loss: 0.595657
batch: 99 Training Loss: 0.597073

batch: 100 Training Loss: 0.597725
batch: 101 Training Loss: 0.597810
batch: 102 Training Loss: 0.600255
batch: 103 Training Loss: 0.606288
batch: 104 Training Loss: 0.606082
batch: 105 Training Loss: 0.605290
batch: 106 Training Loss: 0.606296
batch: 107 Training Loss: 0.607954
batch: 108 Training Loss: 0.609410
batch: 109 Training Loss: 0.607374
batch: 110 Training Loss: 0.605171
batch: 111 Training Loss: 0.607001
batch: 112 Training Loss: 0.605469
batch: 113 Training Loss: 0.606199
batch: 114 Training Loss: 0.606962
batch: 115 Training Loss: 0.607275
batch: 116 Training Loss: 0.608975
batch: 117 Training Loss: 0.607531
batch: 118 Training Loss: 0.607624
batch: 119 Training Loss: 0.608697
batch: 120 Training Loss: 0.606257
batch: 121 Training Loss: 0.604555
batch: 122 Training Loss: 0.604136
batch: 123 Training Loss: 0.602968
batch: 124 Training Loss: 0.602517
batch: 125 Training Loss: 0.601202
batch: 126 Training Loss: 0.602247
batch: 127 Training Loss: 0.606885
batch: 128 Training Loss: 0.606842
batch: 129 Training Loss: 0.607090
batch: 130 Training Loss: 0.607443
batch: 131 Training Loss: 0.608973
batch: 132 Training Loss: 0.610814
batch: 133 Training Loss: 0.610143
batch: 134 Training Loss: 0.609850
batch: 135 Training Loss: 0.610722
batch: 136 Training Loss: 0.611818
batch: 137 Training Loss: 0.612822
batch: 138 Training Loss: 0.611089
batch: 139 Training Loss: 0.609635
batch: 140 Training Loss: 0.610182
batch: 141 Training Loss: 0.608576
batch: 142 Training Loss: 0.610571
batch: 143 Training Loss: 0.611830
batch: 144 Training Loss: 0.612862
batch: 145 Training Loss: 0.611773
batch: 146 Training Loss: 0.609859
batch: 147 Training Loss: 0.611616
batch: 148 Training Loss: 0.610087
batch: 149 Training Loss: 0.610621
batch: 150 Training Loss: 0.610793
batch: 151 Training Loss: 0.610133
batch: 152 Training Loss: 0.610921
batch: 153 Training Loss: 0.611374
batch: 154 Training Loss: 0.610524
batch: 155 Training Loss: 0.609185
batch: 156 Training Loss: 0.609079
batch: 157 Training Loss: 0.608658
batch: 158 Training Loss: 0.607476
batch: 159 Training Loss: 0.605951
batch: 160 Training Loss: 0.605966
batch: 161 Training Loss: 0.607083
batch: 162 Training Loss: 0.605913
batch: 163 Training Loss: 0.605022
batch: 164 Training Loss: 0.603945
batch: 165 Training Loss: 0.605885
batch: 166 Training Loss: 0.607575
batch: 167 Training Loss: 0.608952
batch: 168 Training Loss: 0.608560
batch: 169 Training Loss: 0.607370
batch: 170 Training Loss: 0.606865
batch: 171 Training Loss: 0.607546
batch: 172 Training Loss: 0.606932
batch: 173 Training Loss: 0.606897
batch: 174 Training Loss: 0.607173
batch: 175 Training Loss: 0.606791
batch: 176 Training Loss: 0.605347
batch: 177 Training Loss: 0.604921
batch: 178 Training Loss: 0.605762
batch: 179 Training Loss: 0.606561
batch: 180 Training Loss: 0.607588
batch: 181 Training Loss: 0.607074
batch: 182 Training Loss: 0.609453
batch: 183 Training Loss: 0.611537
batch: 184 Training Loss: 0.612312
batch: 185 Training Loss: 0.610751
batch: 186 Training Loss: 0.610741
batch: 187 Training Loss: 0.613961
batch: 188 Training Loss: 0.614977
batch: 189 Training Loss: 0.613761
batch: 190 Training Loss: 0.613219
... 100

batch: 191 Training Loss: 0.612225
batch: 192 Training Loss: 0.613707
batch: 193 Training Loss: 0.612933
batch: 194 Training Loss: 0.611261
batch: 195 Training Loss: 0.612091
batch: 196 Training Loss: 0.612428
batch: 197 Training Loss: 0.615339
batch: 198 Training Loss: 0.614757
batch: 199 Training Loss: 0.617403
batch: 200 Training Loss: 0.616176
batch: 201 Training Loss: 0.617853
batch: 202 Training Loss: 0.618137
batch: 203 Training Loss: 0.618590
batch: 204 Training Loss: 0.618888
batch: 205 Training Loss: 0.618616
batch: 206 Training Loss: 0.621004
batch: 207 Training Loss: 0.620888
batch: 208 Training Loss: 0.620828
Epoch: 20 Training Loss: 0.620828 Validation Loss: 1.076380
batch: 0 Training Loss: 0.725201
batch: 1 Training Loss: 0.544704
batch: 2 Training Loss: 0.596220
batch: 3 Training Loss: 0.563152
batch: 4 Training Loss: 0.568187
batch: 5 Training Loss: 0.538123
batch: 6 Training Loss: 0.495519
batch: 7 Training Loss: 0.534723
batch: 8 Training Loss: 0.528433
batch: 9 Training Loss: 0.534266
batch: 10 Training Loss: 0.519146
batch: 11 Training Loss: 0.513552
batch: 12 Training Loss: 0.525530
batch: 13 Training Loss: 0.520744
batch: 14 Training Loss: 0.532011
batch: 15 Training Loss: 0.561588
batch: 16 Training Loss: 0.552926
batch: 17 Training Loss: 0.547031
batch: 18 Training Loss: 0.543838
batch: 19 Training Loss: 0.529715
batch: 20 Training Loss: 0.542295
batch: 21 Training Loss: 0.554089
batch: 22 Training Loss: 0.555718
batch: 23 Training Loss: 0.544717
batch: 24 Training Loss: 0.555296
batch: 25 Training Loss: 0.560386
batch: 26 Training Loss: 0.560423
batch: 27 Training Loss: 0.561877
batch: 28 Training Loss: 0.564427
batch: 29 Training Loss: 0.565613
batch: 30 Training Loss: 0.561750
batch: 31 Training Loss: 0.566882
batch: 32 Training Loss: 0.572290
batch: 33 Training Loss: 0.578007
batch: 34 Training Loss: 0.574704
batch: 35 Training Loss: 0.578002
batch: 36 Training Loss: 0.575563
batch: 37 Training Loss: 0.576645
batch: 38 Training Loss: 0.583096
batch: 39 Training Loss: 0.579779
batch: 40 Training Loss: 0.575361
batch: 41 Training Loss: 0.573800
batch: 42 Training Loss: 0.579762
batch: 43 Training Loss: 0.576292
batch: 44 Training Loss: 0.582956
batch: 45 Training Loss: 0.584419
batch: 46 Training Loss: 0.584042
batch: 47 Training Loss: 0.586512
batch: 48 Training Loss: 0.578095
batch: 49 Training Loss: 0.585990
batch: 50 Training Loss: 0.588397
batch: 51 Training Loss: 0.580996
batch: 52 Training Loss: 0.584241
batch: 53 Training Loss: 0.583444
batch: 54 Training Loss: 0.587635
batch: 55 Training Loss: 0.590842
batch: 56 Training Loss: 0.587010
batch: 57 Training Loss: 0.586447
batch: 58 Training Loss: 0.586826
batch: 59 Training Loss: 0.585851
batch: 60 Training Loss: 0.584104
batch: 61 Training Loss: 0.585354
batch: 62 Training Loss: 0.581139
batch: 63 Training Loss: 0.577662
batch: 64 Training Loss: 0.574878
batch: 65 Training Loss: 0.577589
batch: 66 Training Loss: 0.574851
batch: 67 Training Loss: 0.574527
batch: 68 Training Loss: 0.575969
batch: 69 Training Loss: 0.578724
batch: 70 Training Loss: 0.578961
batch: 71 Training Loss: 0.578057

batch: 72 Training Loss: 0.57468
batch: 73 Training Loss: 0.577224
batch: 74 Training Loss: 0.577606
batch: 75 Training Loss: 0.577351
batch: 76 Training Loss: 0.577106
batch: 77 Training Loss: 0.577634
batch: 78 Training Loss: 0.577363
batch: 79 Training Loss: 0.578525
batch: 80 Training Loss: 0.577846
batch: 81 Training Loss: 0.577788
batch: 82 Training Loss: 0.577659
batch: 83 Training Loss: 0.581282
batch: 84 Training Loss: 0.580529
batch: 85 Training Loss: 0.584098
batch: 86 Training Loss: 0.587852
batch: 87 Training Loss: 0.590525
batch: 88 Training Loss: 0.594801
batch: 89 Training Loss: 0.592606
batch: 90 Training Loss: 0.591526
batch: 91 Training Loss: 0.594862
batch: 92 Training Loss: 0.591244
batch: 93 Training Loss: 0.594538
batch: 94 Training Loss: 0.591654
batch: 95 Training Loss: 0.593523
batch: 96 Training Loss: 0.591891
batch: 97 Training Loss: 0.590186
batch: 98 Training Loss: 0.589890
batch: 99 Training Loss: 0.591760
batch: 100 Training Loss: 0.593157
batch: 101 Training Loss: 0.592860
batch: 102 Training Loss: 0.592454
batch: 103 Training Loss: 0.594132
batch: 104 Training Loss: 0.592187
batch: 105 Training Loss: 0.592315
batch: 106 Training Loss: 0.592803
batch: 107 Training Loss: 0.589879
batch: 108 Training Loss: 0.588443
batch: 109 Training Loss: 0.587532
batch: 110 Training Loss: 0.589900
batch: 111 Training Loss: 0.591178
batch: 112 Training Loss: 0.590644
batch: 113 Training Loss: 0.590968
batch: 114 Training Loss: 0.592385
batch: 115 Training Loss: 0.592375
batch: 116 Training Loss: 0.592062
batch: 117 Training Loss: 0.591085
batch: 118 Training Loss: 0.591546
batch: 119 Training Loss: 0.592823
batch: 120 Training Loss: 0.598668
batch: 121 Training Loss: 0.600747
batch: 122 Training Loss: 0.600421
batch: 123 Training Loss: 0.600417
batch: 124 Training Loss: 0.600265
batch: 125 Training Loss: 0.601198
batch: 126 Training Loss: 0.602137
batch: 127 Training Loss: 0.600813
batch: 128 Training Loss: 0.599536
batch: 129 Training Loss: 0.597611
batch: 130 Training Loss: 0.596428
batch: 131 Training Loss: 0.595241
batch: 132 Training Loss: 0.593052
batch: 133 Training Loss: 0.596346
batch: 134 Training Loss: 0.595355
batch: 135 Training Loss: 0.596719
batch: 136 Training Loss: 0.596196
batch: 137 Training Loss: 0.595152
batch: 138 Training Loss: 0.596469
batch: 139 Training Loss: 0.595313
batch: 140 Training Loss: 0.595551
batch: 141 Training Loss: 0.595096
batch: 142 Training Loss: 0.594144
batch: 143 Training Loss: 0.593933
batch: 144 Training Loss: 0.594779
batch: 145 Training Loss: 0.598832
batch: 146 Training Loss: 0.597977
batch: 147 Training Loss: 0.596601
batch: 148 Training Loss: 0.599075
batch: 149 Training Loss: 0.597139
batch: 150 Training Loss: 0.598572
batch: 151 Training Loss: 0.598690
batch: 152 Training Loss: 0.597733
batch: 153 Training Loss: 0.597139
batch: 154 Training Loss: 0.597486
batch: 155 Training Loss: 0.597266
batch: 156 Training Loss: 0.598238
batch: 157 Training Loss: 0.595873
batch: 158 Training Loss: 0.595375
batch: 159 Training Loss: 0.594413
batch: 160 Training Loss: 0.594780
batch: 161 Training Loss: 0.594465
batch: 162 Training Loss: 0.594887
batch: 163 Training Loss: 0.595420

batch: 163 Training Loss: 0.595458
batch: 164 Training Loss: 0.596939
batch: 165 Training Loss: 0.596212
batch: 166 Training Loss: 0.594751
batch: 167 Training Loss: 0.593364
batch: 168 Training Loss: 0.592594
batch: 169 Training Loss: 0.594511
batch: 170 Training Loss: 0.594287
batch: 171 Training Loss: 0.594853
batch: 172 Training Loss: 0.594427
batch: 173 Training Loss: 0.597531
batch: 174 Training Loss: 0.595679
batch: 175 Training Loss: 0.596237
batch: 176 Training Loss: 0.594840
batch: 177 Training Loss: 0.593971
batch: 178 Training Loss: 0.593555
batch: 179 Training Loss: 0.592857
batch: 180 Training Loss: 0.591770
batch: 181 Training Loss: 0.590917
batch: 182 Training Loss: 0.589961
batch: 183 Training Loss: 0.590446
batch: 184 Training Loss: 0.591159
batch: 185 Training Loss: 0.591008
batch: 186 Training Loss: 0.591661
batch: 187 Training Loss: 0.592426
batch: 188 Training Loss: 0.591263
batch: 189 Training Loss: 0.591140
batch: 190 Training Loss: 0.590814
batch: 191 Training Loss: 0.590129
batch: 192 Training Loss: 0.590016
batch: 193 Training Loss: 0.589493
batch: 194 Training Loss: 0.589916
batch: 195 Training Loss: 0.588576
batch: 196 Training Loss: 0.588638
batch: 197 Training Loss: 0.588483
batch: 198 Training Loss: 0.588589
batch: 199 Training Loss: 0.590033
batch: 200 Training Loss: 0.593498
batch: 201 Training Loss: 0.597682
batch: 202 Training Loss: 0.599966
batch: 203 Training Loss: 0.599618
batch: 204 Training Loss: 0.603166
batch: 205 Training Loss: 0.603904
batch: 206 Training Loss: 0.603866
batch: 207 Training Loss: 0.603769
batch: 208 Training Loss: 0.604510
Epoch: 21 Training Loss: 0.604510 Validation Loss: 1.160022
batch: 0 Training Loss: 0.230177
batch: 1 Training Loss: 0.240458
batch: 2 Training Loss: 0.284571
batch: 3 Training Loss: 0.301794
batch: 4 Training Loss: 0.371571
batch: 5 Training Loss: 0.374816
batch: 6 Training Loss: 0.359866
batch: 7 Training Loss: 0.375610
batch: 8 Training Loss: 0.376420
batch: 9 Training Loss: 0.394452
batch: 10 Training Loss: 0.410564
batch: 11 Training Loss: 0.412287
batch: 12 Training Loss: 0.430746
batch: 13 Training Loss: 0.430369
batch: 14 Training Loss: 0.455783
batch: 15 Training Loss: 0.472701
batch: 16 Training Loss: 0.467928
batch: 17 Training Loss: 0.464477
batch: 18 Training Loss: 0.462686
batch: 19 Training Loss: 0.456978
batch: 20 Training Loss: 0.458484
batch: 21 Training Loss: 0.462413
batch: 22 Training Loss: 0.462271
batch: 23 Training Loss: 0.475643
batch: 24 Training Loss: 0.474072
batch: 25 Training Loss: 0.464702
batch: 26 Training Loss: 0.465567
batch: 27 Training Loss: 0.465829
batch: 28 Training Loss: 0.464211
batch: 29 Training Loss: 0.465991
batch: 30 Training Loss: 0.466852
batch: 31 Training Loss: 0.475084
batch: 32 Training Loss: 0.480393
batch: 33 Training Loss: 0.483075
batch: 34 Training Loss: 0.483482
batch: 35 Training Loss: 0.493462
batch: 36 Training Loss: 0.491104
batch: 37 Training Loss: 0.496417
batch: 38 Training Loss: 0.493760
batch: 39 Training Loss: 0.488378
batch: 40 Training Loss: 0.494987
batch: 41 Training Loss: 0.492633
batch: 42 Training Loss: 0.498603
batch: 43 Training Loss: 0.506673
batch: 44 Training Loss: 0.517117

batch: 44 Training Loss: 0.517117
batch: 45 Training Loss: 0.516823
batch: 46 Training Loss: 0.513424
batch: 47 Training Loss: 0.512653
batch: 48 Training Loss: 0.509041
batch: 49 Training Loss: 0.507390
batch: 50 Training Loss: 0.512298
batch: 51 Training Loss: 0.512045
batch: 52 Training Loss: 0.511388
batch: 53 Training Loss: 0.509784
batch: 54 Training Loss: 0.515449
batch: 55 Training Loss: 0.514306
batch: 56 Training Loss: 0.515049
batch: 57 Training Loss: 0.514278
batch: 58 Training Loss: 0.515724
batch: 59 Training Loss: 0.514699
batch: 60 Training Loss: 0.519440
batch: 61 Training Loss: 0.516870
batch: 62 Training Loss: 0.518047
batch: 63 Training Loss: 0.521447
batch: 64 Training Loss: 0.523105
batch: 65 Training Loss: 0.520631
batch: 66 Training Loss: 0.527292
batch: 67 Training Loss: 0.531169
batch: 68 Training Loss: 0.532832
batch: 69 Training Loss: 0.530773
batch: 70 Training Loss: 0.535422
batch: 71 Training Loss: 0.533275
batch: 72 Training Loss: 0.530790
batch: 73 Training Loss: 0.530687
batch: 74 Training Loss: 0.527857
batch: 75 Training Loss: 0.529697
batch: 76 Training Loss: 0.527853
batch: 77 Training Loss: 0.527635
batch: 78 Training Loss: 0.529181
batch: 79 Training Loss: 0.531682
batch: 80 Training Loss: 0.532389
batch: 81 Training Loss: 0.529933
batch: 82 Training Loss: 0.530030
batch: 83 Training Loss: 0.529924
batch: 84 Training Loss: 0.530259
batch: 85 Training Loss: 0.530963
batch: 86 Training Loss: 0.530833
batch: 87 Training Loss: 0.528157
batch: 88 Training Loss: 0.527942
batch: 89 Training Loss: 0.526515
batch: 90 Training Loss: 0.528028
batch: 91 Training Loss: 0.525270
batch: 92 Training Loss: 0.525508
batch: 93 Training Loss: 0.530621
batch: 94 Training Loss: 0.529546
batch: 95 Training Loss: 0.529409
batch: 96 Training Loss: 0.529678
batch: 97 Training Loss: 0.534805
batch: 98 Training Loss: 0.539723
batch: 99 Training Loss: 0.537341
batch: 100 Training Loss: 0.539689
batch: 101 Training Loss: 0.539809
batch: 102 Training Loss: 0.539078
batch: 103 Training Loss: 0.541789
batch: 104 Training Loss: 0.538757
batch: 105 Training Loss: 0.538994
batch: 106 Training Loss: 0.539908
batch: 107 Training Loss: 0.540961
batch: 108 Training Loss: 0.537837
batch: 109 Training Loss: 0.539942
batch: 110 Training Loss: 0.539247
batch: 111 Training Loss: 0.537536
batch: 112 Training Loss: 0.541236
batch: 113 Training Loss: 0.539705
batch: 114 Training Loss: 0.537798
batch: 115 Training Loss: 0.541610
batch: 116 Training Loss: 0.539976
batch: 117 Training Loss: 0.540239
batch: 118 Training Loss: 0.540477
batch: 119 Training Loss: 0.540644
batch: 120 Training Loss: 0.541542
batch: 121 Training Loss: 0.541713
batch: 122 Training Loss: 0.543422
batch: 123 Training Loss: 0.540746
batch: 124 Training Loss: 0.539194
batch: 125 Training Loss: 0.542875
batch: 126 Training Loss: 0.544153
batch: 127 Training Loss: 0.545447
batch: 128 Training Loss: 0.546842
batch: 129 Training Loss: 0.548665
batch: 130 Training Loss: 0.550115
batch: 131 Training Loss: 0.552294
batch: 132 Training Loss: 0.550532
batch: 133 Training Loss: 0.549616
batch: 134 Training Loss: 0.553035
batch: 135 Training Loss: 0.556786

batch: 155 Training Loss: 0.550700
batch: 136 Training Loss: 0.558672
batch: 137 Training Loss: 0.557530
batch: 138 Training Loss: 0.558137
batch: 139 Training Loss: 0.556266
batch: 140 Training Loss: 0.559177
batch: 141 Training Loss: 0.559870
batch: 142 Training Loss: 0.560617
batch: 143 Training Loss: 0.562284
batch: 144 Training Loss: 0.561382
batch: 145 Training Loss: 0.560291
batch: 146 Training Loss: 0.558196
batch: 147 Training Loss: 0.557804
batch: 148 Training Loss: 0.557310
batch: 149 Training Loss: 0.560180
batch: 150 Training Loss: 0.561367
batch: 151 Training Loss: 0.562909
batch: 152 Training Loss: 0.562323
batch: 153 Training Loss: 0.562257
batch: 154 Training Loss: 0.562366
batch: 155 Training Loss: 0.560840
batch: 156 Training Loss: 0.561018
batch: 157 Training Loss: 0.560559
batch: 158 Training Loss: 0.560486
batch: 159 Training Loss: 0.559579
batch: 160 Training Loss: 0.562227
batch: 161 Training Loss: 0.561385
batch: 162 Training Loss: 0.563942
batch: 163 Training Loss: 0.566166
batch: 164 Training Loss: 0.565861
batch: 165 Training Loss: 0.564985
batch: 166 Training Loss: 0.564238
batch: 167 Training Loss: 0.563752
batch: 168 Training Loss: 0.562520
batch: 169 Training Loss: 0.563866
batch: 170 Training Loss: 0.563912
batch: 171 Training Loss: 0.564401
batch: 172 Training Loss: 0.564446
batch: 173 Training Loss: 0.564757
batch: 174 Training Loss: 0.564489
batch: 175 Training Loss: 0.566421
batch: 176 Training Loss: 0.566444
batch: 177 Training Loss: 0.566632
batch: 178 Training Loss: 0.567010
batch: 179 Training Loss: 0.567494
batch: 180 Training Loss: 0.567467
batch: 181 Training Loss: 0.567749
batch: 182 Training Loss: 0.569596
batch: 183 Training Loss: 0.568229
batch: 184 Training Loss: 0.566392
batch: 185 Training Loss: 0.565603
batch: 186 Training Loss: 0.565458
batch: 187 Training Loss: 0.565256
batch: 188 Training Loss: 0.565980
batch: 189 Training Loss: 0.568485
batch: 190 Training Loss: 0.570502
batch: 191 Training Loss: 0.571393
batch: 192 Training Loss: 0.573582
batch: 193 Training Loss: 0.572604
batch: 194 Training Loss: 0.575495
batch: 195 Training Loss: 0.576279
batch: 196 Training Loss: 0.578298
batch: 197 Training Loss: 0.579184
batch: 198 Training Loss: 0.580209
batch: 199 Training Loss: 0.581284
batch: 200 Training Loss: 0.580851
batch: 201 Training Loss: 0.581698
batch: 202 Training Loss: 0.580460
batch: 203 Training Loss: 0.580813
batch: 204 Training Loss: 0.582700
batch: 205 Training Loss: 0.583386
batch: 206 Training Loss: 0.584010
batch: 207 Training Loss: 0.584508
batch: 208 Training Loss: 0.584276
Epoch: 22 Training Loss: 0.584276 Validation Loss: 1.155914
batch: 0 Training Loss: 0.501669
batch: 1 Training Loss: 0.736847
batch: 2 Training Loss: 0.590746
batch: 3 Training Loss: 0.521125
batch: 4 Training Loss: 0.583736
batch: 5 Training Loss: 0.621560
batch: 6 Training Loss: 0.583389
batch: 7 Training Loss: 0.550115
batch: 8 Training Loss: 0.546812
batch: 9 Training Loss: 0.545428
batch: 10 Training Loss: 0.517391
batch: 11 Training Loss: 0.519110
batch: 12 Training Loss: 0.548018
batch: 13 Training Loss: 0.527767
batch: 14 Training Loss: 0.530179
batch: 15 Training Loss: 0.537553
batch: 16 Training Loss: 0.522191

batch: 16 Training Loss: 0.522171
batch: 17 Training Loss: 0.525276
batch: 18 Training Loss: 0.524254
batch: 19 Training Loss: 0.526456
batch: 20 Training Loss: 0.528440
batch: 21 Training Loss: 0.522496
batch: 22 Training Loss: 0.523526
batch: 23 Training Loss: 0.526484
batch: 24 Training Loss: 0.518869
batch: 25 Training Loss: 0.507487
batch: 26 Training Loss: 0.510809
batch: 27 Training Loss: 0.510332
batch: 28 Training Loss: 0.506364
batch: 29 Training Loss: 0.517991
batch: 30 Training Loss: 0.518355
batch: 31 Training Loss: 0.513316
batch: 32 Training Loss: 0.507497
batch: 33 Training Loss: 0.506252
batch: 34 Training Loss: 0.515517
batch: 35 Training Loss: 0.516095
batch: 36 Training Loss: 0.510875
batch: 37 Training Loss: 0.508375
batch: 38 Training Loss: 0.507234
batch: 39 Training Loss: 0.510119
batch: 40 Training Loss: 0.511236
batch: 41 Training Loss: 0.517743
batch: 42 Training Loss: 0.516665
batch: 43 Training Loss: 0.519554
batch: 44 Training Loss: 0.517834
batch: 45 Training Loss: 0.517293
batch: 46 Training Loss: 0.516018
batch: 47 Training Loss: 0.514450
batch: 48 Training Loss: 0.516865
batch: 49 Training Loss: 0.521496
batch: 50 Training Loss: 0.528855
batch: 51 Training Loss: 0.527031
batch: 52 Training Loss: 0.522372
batch: 53 Training Loss: 0.524800
batch: 54 Training Loss: 0.524212
batch: 55 Training Loss: 0.524728
batch: 56 Training Loss: 0.527863
batch: 57 Training Loss: 0.527797
batch: 58 Training Loss: 0.529308
batch: 59 Training Loss: 0.532551
batch: 60 Training Loss: 0.529193
batch: 61 Training Loss: 0.526416
batch: 62 Training Loss: 0.522951
batch: 63 Training Loss: 0.531262
batch: 64 Training Loss: 0.532058
batch: 65 Training Loss: 0.530557
batch: 66 Training Loss: 0.526272
batch: 67 Training Loss: 0.528051
batch: 68 Training Loss: 0.526723
batch: 69 Training Loss: 0.525814
batch: 70 Training Loss: 0.525651
batch: 71 Training Loss: 0.528245
batch: 72 Training Loss: 0.527662
batch: 73 Training Loss: 0.524909
batch: 74 Training Loss: 0.529736
batch: 75 Training Loss: 0.530089
batch: 76 Training Loss: 0.530517
batch: 77 Training Loss: 0.528812
batch: 78 Training Loss: 0.528727
batch: 79 Training Loss: 0.530791
batch: 80 Training Loss: 0.534113
batch: 81 Training Loss: 0.538807
batch: 82 Training Loss: 0.537229
batch: 83 Training Loss: 0.537850
batch: 84 Training Loss: 0.541364
batch: 85 Training Loss: 0.539089
batch: 86 Training Loss: 0.538869
batch: 87 Training Loss: 0.537264
batch: 88 Training Loss: 0.537503
batch: 89 Training Loss: 0.536179
batch: 90 Training Loss: 0.537826
batch: 91 Training Loss: 0.542709
batch: 92 Training Loss: 0.541240
batch: 93 Training Loss: 0.539166
batch: 94 Training Loss: 0.537598
batch: 95 Training Loss: 0.540616
batch: 96 Training Loss: 0.538426
batch: 97 Training Loss: 0.537955
batch: 98 Training Loss: 0.537231
batch: 99 Training Loss: 0.534652
batch: 100 Training Loss: 0.535456
batch: 101 Training Loss: 0.539426
batch: 102 Training Loss: 0.539632
batch: 103 Training Loss: 0.537547
batch: 104 Training Loss: 0.538390
batch: 105 Training Loss: 0.537675
batch: 106 Training Loss: 0.536897
batch: 107 Training Loss: 0.536407

batch: 107 Training Loss: 0.536667
batch: 108 Training Loss: 0.536675
batch: 109 Training Loss: 0.538801
batch: 110 Training Loss: 0.539968
batch: 111 Training Loss: 0.538456
batch: 112 Training Loss: 0.537173
batch: 113 Training Loss: 0.537898
batch: 114 Training Loss: 0.536073
batch: 115 Training Loss: 0.536908
batch: 116 Training Loss: 0.535301
batch: 117 Training Loss: 0.536986
batch: 118 Training Loss: 0.535921
batch: 119 Training Loss: 0.535437
batch: 120 Training Loss: 0.537234
batch: 121 Training Loss: 0.537104
batch: 122 Training Loss: 0.539485
batch: 123 Training Loss: 0.540938
batch: 124 Training Loss: 0.541885
batch: 125 Training Loss: 0.545347
batch: 126 Training Loss: 0.545233
batch: 127 Training Loss: 0.542245
batch: 128 Training Loss: 0.542924
batch: 129 Training Loss: 0.542544
batch: 130 Training Loss: 0.542959
batch: 131 Training Loss: 0.542462
batch: 132 Training Loss: 0.542031
batch: 133 Training Loss: 0.542394
batch: 134 Training Loss: 0.542967
batch: 135 Training Loss: 0.541922
batch: 136 Training Loss: 0.541447
batch: 137 Training Loss: 0.539117
batch: 138 Training Loss: 0.538043
batch: 139 Training Loss: 0.538438
batch: 140 Training Loss: 0.541839
batch: 141 Training Loss: 0.540177
batch: 142 Training Loss: 0.539941
batch: 143 Training Loss: 0.539938
batch: 144 Training Loss: 0.539577
batch: 145 Training Loss: 0.539755
batch: 146 Training Loss: 0.539726
batch: 147 Training Loss: 0.539300
batch: 148 Training Loss: 0.538233
batch: 149 Training Loss: 0.538933
batch: 150 Training Loss: 0.539723
batch: 151 Training Loss: 0.539972
batch: 152 Training Loss: 0.539761
batch: 153 Training Loss: 0.539420
batch: 154 Training Loss: 0.538864
batch: 155 Training Loss: 0.539195
batch: 156 Training Loss: 0.541436
batch: 157 Training Loss: 0.540268
batch: 158 Training Loss: 0.538604
batch: 159 Training Loss: 0.540260
batch: 160 Training Loss: 0.539947
batch: 161 Training Loss: 0.539811
batch: 162 Training Loss: 0.540736
batch: 163 Training Loss: 0.539260
batch: 164 Training Loss: 0.539851
batch: 165 Training Loss: 0.540795
batch: 166 Training Loss: 0.540727
batch: 167 Training Loss: 0.540419
batch: 168 Training Loss: 0.540013
batch: 169 Training Loss: 0.539797
batch: 170 Training Loss: 0.541269
batch: 171 Training Loss: 0.543850
batch: 172 Training Loss: 0.545395
batch: 173 Training Loss: 0.544733
batch: 174 Training Loss: 0.545445
batch: 175 Training Loss: 0.545260
batch: 176 Training Loss: 0.545005
batch: 177 Training Loss: 0.543718
batch: 178 Training Loss: 0.544569
batch: 179 Training Loss: 0.544620
batch: 180 Training Loss: 0.543378
batch: 181 Training Loss: 0.544190
batch: 182 Training Loss: 0.544072
batch: 183 Training Loss: 0.542657
batch: 184 Training Loss: 0.542347
batch: 185 Training Loss: 0.543151
batch: 186 Training Loss: 0.543058
batch: 187 Training Loss: 0.542357
batch: 188 Training Loss: 0.541932
batch: 189 Training Loss: 0.542456
batch: 190 Training Loss: 0.543620
batch: 191 Training Loss: 0.542481
batch: 192 Training Loss: 0.542255
batch: 193 Training Loss: 0.541207
batch: 194 Training Loss: 0.541475
batch: 195 Training Loss: 0.540842
batch: 196 Training Loss: 0.540266
batch: 197 Training Loss: 0.539604
batch: 198 Training Loss: 0.539684

```
-- -- -- -- --  
batch: 199 Training Loss: 0.539348  
batch: 200 Training Loss: 0.539487  
batch: 201 Training Loss: 0.539937  
batch: 202 Training Loss: 0.540555  
batch: 203 Training Loss: 0.540000  
batch: 204 Training Loss: 0.541744  
batch: 205 Training Loss: 0.541492  
batch: 206 Training Loss: 0.542300  
batch: 207 Training Loss: 0.540973  
batch: 208 Training Loss: 0.542343  
Epoch: 23 Training Loss: 0.542343 Validation Loss: 1.088544  
batch: 0 Training Loss: 0.397262  
batch: 1 Training Loss: 0.460078  
batch: 2 Training Loss: 0.418028  
batch: 3 Training Loss: 0.406560  
batch: 4 Training Loss: 0.416678  
batch: 5 Training Loss: 0.409325  
batch: 6 Training Loss: 0.381245  
batch: 7 Training Loss: 0.445031  
batch: 8 Training Loss: 0.458056  
batch: 9 Training Loss: 0.475231  
batch: 10 Training Loss: 0.480098  
batch: 11 Training Loss: 0.473571  
batch: 12 Training Loss: 0.455415  
batch: 13 Training Loss: 0.456579  
batch: 14 Training Loss: 0.462299  
batch: 15 Training Loss: 0.458690  
batch: 16 Training Loss: 0.461889  
batch: 17 Training Loss: 0.457315  
batch: 18 Training Loss: 0.463363  
batch: 19 Training Loss: 0.468692  
batch: 20 Training Loss: 0.459140  
batch: 21 Training Loss: 0.460111  
batch: 22 Training Loss: 0.461126  
batch: 23 Training Loss: 0.456021  
batch: 24 Training Loss: 0.453984  
batch: 25 Training Loss: 0.448471  
batch: 26 Training Loss: 0.453318  
batch: 27 Training Loss: 0.457923  
batch: 28 Training Loss: 0.460460  
batch: 29 Training Loss: 0.458006  
batch: 30 Training Loss: 0.459238  
batch: 31 Training Loss: 0.465884  
batch: 32 Training Loss: 0.459675  
batch: 33 Training Loss: 0.452256  
batch: 34 Training Loss: 0.454927  
batch: 35 Training Loss: 0.461036  
batch: 36 Training Loss: 0.454968  
batch: 37 Training Loss: 0.456032  
batch: 38 Training Loss: 0.455679  
batch: 39 Training Loss: 0.448702  
batch: 40 Training Loss: 0.454077  
batch: 41 Training Loss: 0.459326  
batch: 42 Training Loss: 0.454344  
batch: 43 Training Loss: 0.455774  
batch: 44 Training Loss: 0.453472  
batch: 45 Training Loss: 0.452304  
batch: 46 Training Loss: 0.447802  
batch: 47 Training Loss: 0.448824  
batch: 48 Training Loss: 0.457067  
batch: 49 Training Loss: 0.459729  
batch: 50 Training Loss: 0.458820  
batch: 51 Training Loss: 0.460854  
batch: 52 Training Loss: 0.461708  
batch: 53 Training Loss: 0.457714  
batch: 54 Training Loss: 0.454337  
batch: 55 Training Loss: 0.447771  
batch: 56 Training Loss: 0.451144  
batch: 57 Training Loss: 0.452841  
batch: 58 Training Loss: 0.454093  
batch: 59 Training Loss: 0.454371  
batch: 60 Training Loss: 0.455667  
batch: 61 Training Loss: 0.459039  
batch: 62 Training Loss: 0.455806  
batch: 63 Training Loss: 0.455288  
batch: 64 Training Loss: 0.456057  
batch: 65 Training Loss: 0.457623  
batch: 66 Training Loss: 0.466553  
batch: 67 Training Loss: 0.467313  
batch: 68 Training Loss: 0.464243  
batch: 69 Training Loss: 0.463137  
batch: 70 Training Loss: 0.464923  
batch: 71 Training Loss: 0.465498  
batch: 72 Training Loss: 0.465121  
batch: 73 Training Loss: 0.465389  
batch: 74 Training Loss: 0.470171  
batch: 75 Training Loss: 0.476089  
batch: 76 Training Loss: 0.482148  
batch: 77 Training Loss: 0.483903  
batch: 78 Training Loss: 0.480365  
batch: 79 Training Loss: 0.481348
```

batch: 80 Training Loss: 0.480932
batch: 81 Training Loss: 0.481581
batch: 82 Training Loss: 0.480222
batch: 83 Training Loss: 0.481759
batch: 84 Training Loss: 0.481802
batch: 85 Training Loss: 0.485672
batch: 86 Training Loss: 0.482611
batch: 87 Training Loss: 0.482698
batch: 88 Training Loss: 0.483884
batch: 89 Training Loss: 0.483819
batch: 90 Training Loss: 0.486990
batch: 91 Training Loss: 0.485146
batch: 92 Training Loss: 0.483088
batch: 93 Training Loss: 0.483505
batch: 94 Training Loss: 0.484805
batch: 95 Training Loss: 0.484097
batch: 96 Training Loss: 0.485935
batch: 97 Training Loss: 0.489061
batch: 98 Training Loss: 0.490712
batch: 99 Training Loss: 0.491410
batch: 100 Training Loss: 0.491101
batch: 101 Training Loss: 0.491016
batch: 102 Training Loss: 0.488918
batch: 103 Training Loss: 0.491122
batch: 104 Training Loss: 0.491174
batch: 105 Training Loss: 0.492934
batch: 106 Training Loss: 0.495740
batch: 107 Training Loss: 0.494331
batch: 108 Training Loss: 0.493348
batch: 109 Training Loss: 0.491134
batch: 110 Training Loss: 0.490062
batch: 111 Training Loss: 0.491449
batch: 112 Training Loss: 0.491015
batch: 113 Training Loss: 0.490377
batch: 114 Training Loss: 0.490080
batch: 115 Training Loss: 0.493780
batch: 116 Training Loss: 0.495476
batch: 117 Training Loss: 0.496413
batch: 118 Training Loss: 0.495149
batch: 119 Training Loss: 0.493832
batch: 120 Training Loss: 0.495011
batch: 121 Training Loss: 0.494161
batch: 122 Training Loss: 0.494184
batch: 123 Training Loss: 0.496346
batch: 124 Training Loss: 0.503084
batch: 125 Training Loss: 0.506874
batch: 126 Training Loss: 0.505531
batch: 127 Training Loss: 0.507538
batch: 128 Training Loss: 0.507429
batch: 129 Training Loss: 0.506602
batch: 130 Training Loss: 0.508925
batch: 131 Training Loss: 0.510516
batch: 132 Training Loss: 0.512394
batch: 133 Training Loss: 0.511268
batch: 134 Training Loss: 0.512579
batch: 135 Training Loss: 0.512132
batch: 136 Training Loss: 0.510260
batch: 137 Training Loss: 0.511832
batch: 138 Training Loss: 0.512588
batch: 139 Training Loss: 0.513401
batch: 140 Training Loss: 0.513390
batch: 141 Training Loss: 0.512800
batch: 142 Training Loss: 0.514018
batch: 143 Training Loss: 0.513922
batch: 144 Training Loss: 0.514510
batch: 145 Training Loss: 0.513342
batch: 146 Training Loss: 0.513225
batch: 147 Training Loss: 0.515057
batch: 148 Training Loss: 0.514625
batch: 149 Training Loss: 0.515795
batch: 150 Training Loss: 0.516015
batch: 151 Training Loss: 0.517823
batch: 152 Training Loss: 0.518121
batch: 153 Training Loss: 0.518698
batch: 154 Training Loss: 0.519316
batch: 155 Training Loss: 0.518815
batch: 156 Training Loss: 0.519074
batch: 157 Training Loss: 0.518780
batch: 158 Training Loss: 0.518458
batch: 159 Training Loss: 0.519241
batch: 160 Training Loss: 0.519958
batch: 161 Training Loss: 0.520637
batch: 162 Training Loss: 0.519158
batch: 163 Training Loss: 0.520042
batch: 164 Training Loss: 0.519447
batch: 165 Training Loss: 0.519435
batch: 166 Training Loss: 0.520953
batch: 167 Training Loss: 0.519572
batch: 168 Training Loss: 0.519093
batch: 169 Training Loss: 0.520366
batch: 170 Training Loss: 0.522850

batch: 171 Training Loss: 0.524580
batch: 172 Training Loss: 0.523648
batch: 173 Training Loss: 0.523436
batch: 174 Training Loss: 0.523444
batch: 175 Training Loss: 0.525705
batch: 176 Training Loss: 0.524772
batch: 177 Training Loss: 0.526002
batch: 178 Training Loss: 0.524724
batch: 179 Training Loss: 0.523972
batch: 180 Training Loss: 0.522634
batch: 181 Training Loss: 0.521038
batch: 182 Training Loss: 0.520986
batch: 183 Training Loss: 0.520479
batch: 184 Training Loss: 0.521049
batch: 185 Training Loss: 0.521832
batch: 186 Training Loss: 0.524487
batch: 187 Training Loss: 0.524826
batch: 188 Training Loss: 0.524169
batch: 189 Training Loss: 0.525172
batch: 190 Training Loss: 0.525037
batch: 191 Training Loss: 0.525942
batch: 192 Training Loss: 0.525503
batch: 193 Training Loss: 0.524657
batch: 194 Training Loss: 0.526163
batch: 195 Training Loss: 0.526905
batch: 196 Training Loss: 0.528185
batch: 197 Training Loss: 0.528542
batch: 198 Training Loss: 0.529178
batch: 199 Training Loss: 0.528039
batch: 200 Training Loss: 0.530203
batch: 201 Training Loss: 0.530836
batch: 202 Training Loss: 0.530736
batch: 203 Training Loss: 0.530101
batch: 204 Training Loss: 0.530366
batch: 205 Training Loss: 0.529244
batch: 206 Training Loss: 0.530175
batch: 207 Training Loss: 0.530578
batch: 208 Training Loss: 0.530607
Epoch: 24 Training Loss: 0.530607 Validation Loss: 1.144624
batch: 0 Training Loss: 0.462538
batch: 1 Training Loss: 0.511037
batch: 2 Training Loss: 0.495736
batch: 3 Training Loss: 0.488796
batch: 4 Training Loss: 0.496174
batch: 5 Training Loss: 0.570020
batch: 6 Training Loss: 0.541030
batch: 7 Training Loss: 0.515563
batch: 8 Training Loss: 0.547533
batch: 9 Training Loss: 0.553245
batch: 10 Training Loss: 0.526848
batch: 11 Training Loss: 0.522648
batch: 12 Training Loss: 0.517878
batch: 13 Training Loss: 0.520543
batch: 14 Training Loss: 0.514904
batch: 15 Training Loss: 0.515832
batch: 16 Training Loss: 0.508714
batch: 17 Training Loss: 0.491055
batch: 18 Training Loss: 0.481880
batch: 19 Training Loss: 0.495059
batch: 20 Training Loss: 0.489889
batch: 21 Training Loss: 0.476256
batch: 22 Training Loss: 0.477202
batch: 23 Training Loss: 0.480618
batch: 24 Training Loss: 0.473380
batch: 25 Training Loss: 0.480417
batch: 26 Training Loss: 0.474367
batch: 27 Training Loss: 0.480520
batch: 28 Training Loss: 0.479511
batch: 29 Training Loss: 0.479790
batch: 30 Training Loss: 0.471306
batch: 31 Training Loss: 0.461253
batch: 32 Training Loss: 0.456508
batch: 33 Training Loss: 0.458090
batch: 34 Training Loss: 0.458567
batch: 35 Training Loss: 0.463254
batch: 36 Training Loss: 0.466532
batch: 37 Training Loss: 0.469041
batch: 38 Training Loss: 0.469876
batch: 39 Training Loss: 0.467626
batch: 40 Training Loss: 0.466388
batch: 41 Training Loss: 0.467388
batch: 42 Training Loss: 0.468874
batch: 43 Training Loss: 0.468629
batch: 44 Training Loss: 0.463629
batch: 45 Training Loss: 0.473618
batch: 46 Training Loss: 0.469649
batch: 47 Training Loss: 0.465910
batch: 48 Training Loss: 0.465917
batch: 49 Training Loss: 0.462363
batch: 50 Training Loss: 0.458286
batch: 51 Training Loss: 0.461848

batch: 52 Training Loss: 0.459562
batch: 53 Training Loss: 0.468676
batch: 54 Training Loss: 0.462568
batch: 55 Training Loss: 0.464169
batch: 56 Training Loss: 0.468755
batch: 57 Training Loss: 0.471405
batch: 58 Training Loss: 0.471260
batch: 59 Training Loss: 0.467003
batch: 60 Training Loss: 0.470843
batch: 61 Training Loss: 0.473749
batch: 62 Training Loss: 0.481644
batch: 63 Training Loss: 0.482457
batch: 64 Training Loss: 0.479692
batch: 65 Training Loss: 0.482798
batch: 66 Training Loss: 0.482228
batch: 67 Training Loss: 0.483348
batch: 68 Training Loss: 0.484073
batch: 69 Training Loss: 0.482954
batch: 70 Training Loss: 0.484014
batch: 71 Training Loss: 0.482127
batch: 72 Training Loss: 0.482939
batch: 73 Training Loss: 0.481307
batch: 74 Training Loss: 0.478324
batch: 75 Training Loss: 0.480782
batch: 76 Training Loss: 0.481082
batch: 77 Training Loss: 0.480067
batch: 78 Training Loss: 0.481011
batch: 79 Training Loss: 0.481181
batch: 80 Training Loss: 0.482750
batch: 81 Training Loss: 0.480401
batch: 82 Training Loss: 0.480008
batch: 83 Training Loss: 0.479065
batch: 84 Training Loss: 0.481549
batch: 85 Training Loss: 0.478458
batch: 86 Training Loss: 0.476643
batch: 87 Training Loss: 0.476351
batch: 88 Training Loss: 0.474278
batch: 89 Training Loss: 0.472376
batch: 90 Training Loss: 0.471951
batch: 91 Training Loss: 0.475481
batch: 92 Training Loss: 0.481722
batch: 93 Training Loss: 0.482126
batch: 94 Training Loss: 0.482149
batch: 95 Training Loss: 0.480361
batch: 96 Training Loss: 0.481014
batch: 97 Training Loss: 0.480906
batch: 98 Training Loss: 0.481692
batch: 99 Training Loss: 0.483147
batch: 100 Training Loss: 0.484317
batch: 101 Training Loss: 0.486384
batch: 102 Training Loss: 0.484132
batch: 103 Training Loss: 0.483390
batch: 104 Training Loss: 0.485438
batch: 105 Training Loss: 0.485522
batch: 106 Training Loss: 0.485760
batch: 107 Training Loss: 0.486407
batch: 108 Training Loss: 0.485159
batch: 109 Training Loss: 0.487320
batch: 110 Training Loss: 0.488637
batch: 111 Training Loss: 0.488923
batch: 112 Training Loss: 0.488740
batch: 113 Training Loss: 0.486932
batch: 114 Training Loss: 0.485375
batch: 115 Training Loss: 0.486144
batch: 116 Training Loss: 0.484437
batch: 117 Training Loss: 0.481776
batch: 118 Training Loss: 0.483004
batch: 119 Training Loss: 0.481521
batch: 120 Training Loss: 0.479420
batch: 121 Training Loss: 0.479074
batch: 122 Training Loss: 0.480481
batch: 123 Training Loss: 0.479526
batch: 124 Training Loss: 0.479514
batch: 125 Training Loss: 0.479860
batch: 126 Training Loss: 0.480542
batch: 127 Training Loss: 0.478978
batch: 128 Training Loss: 0.478180
batch: 129 Training Loss: 0.477764
batch: 130 Training Loss: 0.476220
batch: 131 Training Loss: 0.478114
batch: 132 Training Loss: 0.478770
batch: 133 Training Loss: 0.479212
batch: 134 Training Loss: 0.480300
batch: 135 Training Loss: 0.480004
batch: 136 Training Loss: 0.481185
batch: 137 Training Loss: 0.480537
batch: 138 Training Loss: 0.481049
batch: 139 Training Loss: 0.483082
batch: 140 Training Loss: 0.484910
batch: 141 Training Loss: 0.484933
batch: 142 Training Loss: 0.483524

batch: 143 Training Loss: 0.483653
batch: 144 Training Loss: 0.484078
batch: 145 Training Loss: 0.484977
batch: 146 Training Loss: 0.485324
batch: 147 Training Loss: 0.487279
batch: 148 Training Loss: 0.488210
batch: 149 Training Loss: 0.490259
batch: 150 Training Loss: 0.489198
batch: 151 Training Loss: 0.488439
batch: 152 Training Loss: 0.488942
batch: 153 Training Loss: 0.489618
batch: 154 Training Loss: 0.490186
batch: 155 Training Loss: 0.490210
batch: 156 Training Loss: 0.489790
batch: 157 Training Loss: 0.492181
batch: 158 Training Loss: 0.491350
batch: 159 Training Loss: 0.492767
batch: 160 Training Loss: 0.491137
batch: 161 Training Loss: 0.494474
batch: 162 Training Loss: 0.494857
batch: 163 Training Loss: 0.493684
batch: 164 Training Loss: 0.494643
batch: 165 Training Loss: 0.493098
batch: 166 Training Loss: 0.492386
batch: 167 Training Loss: 0.494292
batch: 168 Training Loss: 0.492948
batch: 169 Training Loss: 0.492185
batch: 170 Training Loss: 0.493532
batch: 171 Training Loss: 0.493127
batch: 172 Training Loss: 0.495486
batch: 173 Training Loss: 0.498155
batch: 174 Training Loss: 0.497579
batch: 175 Training Loss: 0.498292
batch: 176 Training Loss: 0.498496
batch: 177 Training Loss: 0.497532
batch: 178 Training Loss: 0.497648
batch: 179 Training Loss: 0.498205
batch: 180 Training Loss: 0.497820
batch: 181 Training Loss: 0.497115
batch: 182 Training Loss: 0.496787
batch: 183 Training Loss: 0.496566
batch: 184 Training Loss: 0.496277
batch: 185 Training Loss: 0.497139
batch: 186 Training Loss: 0.499089
batch: 187 Training Loss: 0.499475
batch: 188 Training Loss: 0.500292
batch: 189 Training Loss: 0.500537
batch: 190 Training Loss: 0.499749
batch: 191 Training Loss: 0.501546
batch: 192 Training Loss: 0.501651
batch: 193 Training Loss: 0.503098
batch: 194 Training Loss: 0.502984
batch: 195 Training Loss: 0.502877
batch: 196 Training Loss: 0.503935
batch: 197 Training Loss: 0.503836
batch: 198 Training Loss: 0.505658
batch: 199 Training Loss: 0.504169
batch: 200 Training Loss: 0.504814
batch: 201 Training Loss: 0.506831
batch: 202 Training Loss: 0.505571
batch: 203 Training Loss: 0.505648
batch: 204 Training Loss: 0.505790
batch: 205 Training Loss: 0.505379
batch: 206 Training Loss: 0.504136
batch: 207 Training Loss: 0.502964
batch: 208 Training Loss: 0.504946
Epoch: 25 Training Loss: 0.504946 Validation Loss: 1.143031
batch: 0 Training Loss: 0.505220
batch: 1 Training Loss: 0.439242
batch: 2 Training Loss: 0.483599
batch: 3 Training Loss: 0.441358
batch: 4 Training Loss: 0.427691
batch: 5 Training Loss: 0.500991
batch: 6 Training Loss: 0.511100
batch: 7 Training Loss: 0.515230
batch: 8 Training Loss: 0.515712
batch: 9 Training Loss: 0.511160
batch: 10 Training Loss: 0.506341
batch: 11 Training Loss: 0.489528
batch: 12 Training Loss: 0.496639
batch: 13 Training Loss: 0.512795
batch: 14 Training Loss: 0.512052
batch: 15 Training Loss: 0.505910
batch: 16 Training Loss: 0.505109
batch: 17 Training Loss: 0.493383
batch: 18 Training Loss: 0.498607
batch: 19 Training Loss: 0.521558
batch: 20 Training Loss: 0.517387
batch: 21 Training Loss: 0.505081
batch: 22 Training Loss: 0.496032
batch: 23 Training Loss: 0.499728

batch: 24 Training Loss: 0.499431
batch: 25 Training Loss: 0.498032
batch: 26 Training Loss: 0.492244
batch: 27 Training Loss: 0.496154
batch: 28 Training Loss: 0.493517
batch: 29 Training Loss: 0.522141
batch: 30 Training Loss: 0.512698
batch: 31 Training Loss: 0.523052
batch: 32 Training Loss: 0.516757
batch: 33 Training Loss: 0.515278
batch: 34 Training Loss: 0.511568
batch: 35 Training Loss: 0.526892
batch: 36 Training Loss: 0.528089
batch: 37 Training Loss: 0.532876
batch: 38 Training Loss: 0.530297
batch: 39 Training Loss: 0.528397
batch: 40 Training Loss: 0.522929
batch: 41 Training Loss: 0.531907
batch: 42 Training Loss: 0.531717
batch: 43 Training Loss: 0.524582
batch: 44 Training Loss: 0.521882
batch: 45 Training Loss: 0.523396
batch: 46 Training Loss: 0.518393
batch: 47 Training Loss: 0.522311
batch: 48 Training Loss: 0.526042
batch: 49 Training Loss: 0.530071
batch: 50 Training Loss: 0.528988
batch: 51 Training Loss: 0.527359
batch: 52 Training Loss: 0.520180
batch: 53 Training Loss: 0.521622
batch: 54 Training Loss: 0.524944
batch: 55 Training Loss: 0.520688
batch: 56 Training Loss: 0.514716
batch: 57 Training Loss: 0.518495
batch: 58 Training Loss: 0.514974
batch: 59 Training Loss: 0.510138
batch: 60 Training Loss: 0.506544
batch: 61 Training Loss: 0.506799
batch: 62 Training Loss: 0.510845
batch: 63 Training Loss: 0.508527
batch: 64 Training Loss: 0.507178
batch: 65 Training Loss: 0.504634
batch: 66 Training Loss: 0.504530
batch: 67 Training Loss: 0.505282
batch: 68 Training Loss: 0.508392
batch: 69 Training Loss: 0.507684
batch: 70 Training Loss: 0.507238
batch: 71 Training Loss: 0.509965
batch: 72 Training Loss: 0.508937
batch: 73 Training Loss: 0.508265
batch: 74 Training Loss: 0.506664
batch: 75 Training Loss: 0.505854
batch: 76 Training Loss: 0.506270
batch: 77 Training Loss: 0.503005
batch: 78 Training Loss: 0.504575
batch: 79 Training Loss: 0.506141
batch: 80 Training Loss: 0.508027
batch: 81 Training Loss: 0.507374
batch: 82 Training Loss: 0.505455
batch: 83 Training Loss: 0.503452
batch: 84 Training Loss: 0.501691
batch: 85 Training Loss: 0.501526
batch: 86 Training Loss: 0.498184
batch: 87 Training Loss: 0.494482
batch: 88 Training Loss: 0.494484
batch: 89 Training Loss: 0.493282
batch: 90 Training Loss: 0.491138
batch: 91 Training Loss: 0.489480
batch: 92 Training Loss: 0.490230
batch: 93 Training Loss: 0.487369
batch: 94 Training Loss: 0.487141
batch: 95 Training Loss: 0.488673
batch: 96 Training Loss: 0.489971
batch: 97 Training Loss: 0.486775
batch: 98 Training Loss: 0.488467
batch: 99 Training Loss: 0.490444
batch: 100 Training Loss: 0.491802
batch: 101 Training Loss: 0.494691
batch: 102 Training Loss: 0.494990
batch: 103 Training Loss: 0.492504
batch: 104 Training Loss: 0.491026
batch: 105 Training Loss: 0.492484
batch: 106 Training Loss: 0.491871
batch: 107 Training Loss: 0.494590
batch: 108 Training Loss: 0.497391
batch: 109 Training Loss: 0.499638
batch: 110 Training Loss: 0.504865
batch: 111 Training Loss: 0.504832
batch: 112 Training Loss: 0.506090
batch: 113 Training Loss: 0.503647
batch: 114 Training Loss: 0.507283

batch: 115 Training Loss: 0.505802
batch: 116 Training Loss: 0.504032
batch: 117 Training Loss: 0.508060
batch: 118 Training Loss: 0.510554
batch: 119 Training Loss: 0.512418
batch: 120 Training Loss: 0.512948
batch: 121 Training Loss: 0.513430
batch: 122 Training Loss: 0.515199
batch: 123 Training Loss: 0.514571
batch: 124 Training Loss: 0.514857
batch: 125 Training Loss: 0.514113
batch: 126 Training Loss: 0.513565
batch: 127 Training Loss: 0.512602
batch: 128 Training Loss: 0.513720
batch: 129 Training Loss: 0.513696
batch: 130 Training Loss: 0.511647
batch: 131 Training Loss: 0.513401
batch: 132 Training Loss: 0.510691
batch: 133 Training Loss: 0.509799
batch: 134 Training Loss: 0.508851
batch: 135 Training Loss: 0.507398
batch: 136 Training Loss: 0.508668
batch: 137 Training Loss: 0.508399
batch: 138 Training Loss: 0.510655
batch: 139 Training Loss: 0.509132
batch: 140 Training Loss: 0.507374
batch: 141 Training Loss: 0.507251
batch: 142 Training Loss: 0.507661
batch: 143 Training Loss: 0.507362
batch: 144 Training Loss: 0.508898
batch: 145 Training Loss: 0.507097
batch: 146 Training Loss: 0.506190
batch: 147 Training Loss: 0.506275
batch: 148 Training Loss: 0.504638
batch: 149 Training Loss: 0.504245
batch: 150 Training Loss: 0.503468
batch: 151 Training Loss: 0.504068
batch: 152 Training Loss: 0.503941
batch: 153 Training Loss: 0.503922
batch: 154 Training Loss: 0.503865
batch: 155 Training Loss: 0.502415
batch: 156 Training Loss: 0.501728
batch: 157 Training Loss: 0.503071
batch: 158 Training Loss: 0.501907
batch: 159 Training Loss: 0.500920
batch: 160 Training Loss: 0.499782
batch: 161 Training Loss: 0.498749
batch: 162 Training Loss: 0.498057
batch: 163 Training Loss: 0.498605
batch: 164 Training Loss: 0.498242
batch: 165 Training Loss: 0.500271
batch: 166 Training Loss: 0.499761
batch: 167 Training Loss: 0.499499
batch: 168 Training Loss: 0.500004
batch: 169 Training Loss: 0.500846
batch: 170 Training Loss: 0.499706
batch: 171 Training Loss: 0.500753
batch: 172 Training Loss: 0.501301
batch: 173 Training Loss: 0.500700
batch: 174 Training Loss: 0.499861
batch: 175 Training Loss: 0.500201
batch: 176 Training Loss: 0.501325
batch: 177 Training Loss: 0.500499
batch: 178 Training Loss: 0.499555
batch: 179 Training Loss: 0.498466
batch: 180 Training Loss: 0.497111
batch: 181 Training Loss: 0.497257
batch: 182 Training Loss: 0.496303
batch: 183 Training Loss: 0.495082
batch: 184 Training Loss: 0.500027
batch: 185 Training Loss: 0.500112
batch: 186 Training Loss: 0.500006
batch: 187 Training Loss: 0.500437
batch: 188 Training Loss: 0.499187
batch: 189 Training Loss: 0.498548
batch: 190 Training Loss: 0.498124
batch: 191 Training Loss: 0.498723
batch: 192 Training Loss: 0.497166
batch: 193 Training Loss: 0.496663
batch: 194 Training Loss: 0.495878
batch: 195 Training Loss: 0.496247
batch: 196 Training Loss: 0.495455
batch: 197 Training Loss: 0.495795
batch: 198 Training Loss: 0.497062
batch: 199 Training Loss: 0.496978
batch: 200 Training Loss: 0.498119
batch: 201 Training Loss: 0.498154
batch: 202 Training Loss: 0.496652
batch: 203 Training Loss: 0.497391
batch: 204 Training Loss: 0.498866
batch: 205 Training Loss: 0.499878

batch: 206 Training Loss: 0.500055
batch: 207 Training Loss: 0.499478
batch: 208 Training Loss: 0.500107 Validation Loss: 1.184515
Epoch: 26 Training Loss: 0.500107
batch: 0 Training Loss: 0.337003
batch: 1 Training Loss: 0.385420
batch: 2 Training Loss: 0.386008
batch: 3 Training Loss: 0.391255
batch: 4 Training Loss: 0.340286
batch: 5 Training Loss: 0.377933
batch: 6 Training Loss: 0.417052
batch: 7 Training Loss: 0.415262
batch: 8 Training Loss: 0.475693
batch: 9 Training Loss: 0.465346
batch: 10 Training Loss: 0.450740
batch: 11 Training Loss: 0.441278
batch: 12 Training Loss: 0.430523
batch: 13 Training Loss: 0.464207
batch: 14 Training Loss: 0.461731
batch: 15 Training Loss: 0.451190
batch: 16 Training Loss: 0.464504
batch: 17 Training Loss: 0.454912
batch: 18 Training Loss: 0.452636
batch: 19 Training Loss: 0.451666
batch: 20 Training Loss: 0.451651
batch: 21 Training Loss: 0.456789
batch: 22 Training Loss: 0.454326
batch: 23 Training Loss: 0.450916
batch: 24 Training Loss: 0.448404
batch: 25 Training Loss: 0.456058
batch: 26 Training Loss: 0.457844
batch: 27 Training Loss: 0.459416
batch: 28 Training Loss: 0.456271
batch: 29 Training Loss: 0.452258
batch: 30 Training Loss: 0.450828
batch: 31 Training Loss: 0.452578
batch: 32 Training Loss: 0.451673
batch: 33 Training Loss: 0.446648
batch: 34 Training Loss: 0.443976
batch: 35 Training Loss: 0.437020
batch: 36 Training Loss: 0.441492
batch: 37 Training Loss: 0.440872
batch: 38 Training Loss: 0.440123
batch: 39 Training Loss: 0.439256
batch: 40 Training Loss: 0.437553
batch: 41 Training Loss: 0.438758
batch: 42 Training Loss: 0.440873
batch: 43 Training Loss: 0.441060
batch: 44 Training Loss: 0.441768
batch: 45 Training Loss: 0.444162
batch: 46 Training Loss: 0.452290
batch: 47 Training Loss: 0.446740
batch: 48 Training Loss: 0.449872
batch: 49 Training Loss: 0.444521
batch: 50 Training Loss: 0.441855
batch: 51 Training Loss: 0.442571
batch: 52 Training Loss: 0.440121
batch: 53 Training Loss: 0.436896
batch: 54 Training Loss: 0.437704
batch: 55 Training Loss: 0.435922
batch: 56 Training Loss: 0.447423
batch: 57 Training Loss: 0.446771
batch: 58 Training Loss: 0.445565
batch: 59 Training Loss: 0.442320
batch: 60 Training Loss: 0.446654
batch: 61 Training Loss: 0.449759
batch: 62 Training Loss: 0.452430
batch: 63 Training Loss: 0.450243
batch: 64 Training Loss: 0.449498
batch: 65 Training Loss: 0.448909
batch: 66 Training Loss: 0.451517
batch: 67 Training Loss: 0.448912
batch: 68 Training Loss: 0.452909
batch: 69 Training Loss: 0.451470
batch: 70 Training Loss: 0.451524
batch: 71 Training Loss: 0.450142
batch: 72 Training Loss: 0.448342
batch: 73 Training Loss: 0.446648
batch: 74 Training Loss: 0.445252
batch: 75 Training Loss: 0.450286
batch: 76 Training Loss: 0.448755
batch: 77 Training Loss: 0.450490
batch: 78 Training Loss: 0.454354
batch: 79 Training Loss: 0.453295
batch: 80 Training Loss: 0.451406
batch: 81 Training Loss: 0.450015
batch: 82 Training Loss: 0.453295
batch: 83 Training Loss: 0.453154
batch: 84 Training Loss: 0.452046
batch: 85 Training Loss: 0.453985
batch: 86 Training Loss: 0.455660

batch: 87 Training Loss: 0.456218
batch: 88 Training Loss: 0.457597
batch: 89 Training Loss: 0.456368
batch: 90 Training Loss: 0.455173
batch: 91 Training Loss: 0.455108
batch: 92 Training Loss: 0.453480
batch: 93 Training Loss: 0.452598
batch: 94 Training Loss: 0.453870
batch: 95 Training Loss: 0.462208
batch: 96 Training Loss: 0.460661
batch: 97 Training Loss: 0.462907
batch: 98 Training Loss: 0.460630
batch: 99 Training Loss: 0.458817
batch: 100 Training Loss: 0.459528
batch: 101 Training Loss: 0.460717
batch: 102 Training Loss: 0.459840
batch: 103 Training Loss: 0.458577
batch: 104 Training Loss: 0.459055
batch: 105 Training Loss: 0.458598
batch: 106 Training Loss: 0.456895
batch: 107 Training Loss: 0.458550
batch: 108 Training Loss: 0.459575
batch: 109 Training Loss: 0.463766
batch: 110 Training Loss: 0.462184
batch: 111 Training Loss: 0.462574
batch: 112 Training Loss: 0.463607
batch: 113 Training Loss: 0.462941
batch: 114 Training Loss: 0.462259
batch: 115 Training Loss: 0.463737
batch: 116 Training Loss: 0.464905
batch: 117 Training Loss: 0.464950
batch: 118 Training Loss: 0.464598
batch: 119 Training Loss: 0.462885
batch: 120 Training Loss: 0.465544
batch: 121 Training Loss: 0.465956
batch: 122 Training Loss: 0.465970
batch: 123 Training Loss: 0.466951
batch: 124 Training Loss: 0.466339
batch: 125 Training Loss: 0.469717
batch: 126 Training Loss: 0.468169
batch: 127 Training Loss: 0.467414
batch: 128 Training Loss: 0.466221
batch: 129 Training Loss: 0.464319
batch: 130 Training Loss: 0.464543
batch: 131 Training Loss: 0.462927
batch: 132 Training Loss: 0.462266
batch: 133 Training Loss: 0.463515
batch: 134 Training Loss: 0.462888
batch: 135 Training Loss: 0.465349
batch: 136 Training Loss: 0.466459
batch: 137 Training Loss: 0.466784
batch: 138 Training Loss: 0.466505
batch: 139 Training Loss: 0.468406
batch: 140 Training Loss: 0.467243
batch: 141 Training Loss: 0.470289
batch: 142 Training Loss: 0.471026
batch: 143 Training Loss: 0.471062
batch: 144 Training Loss: 0.471452
batch: 145 Training Loss: 0.470327
batch: 146 Training Loss: 0.469458
batch: 147 Training Loss: 0.469879
batch: 148 Training Loss: 0.470238
batch: 149 Training Loss: 0.468739
batch: 150 Training Loss: 0.469075
batch: 151 Training Loss: 0.467136
batch: 152 Training Loss: 0.466484
batch: 153 Training Loss: 0.465539
batch: 154 Training Loss: 0.465326
batch: 155 Training Loss: 0.464369
batch: 156 Training Loss: 0.463670
batch: 157 Training Loss: 0.463170
batch: 158 Training Loss: 0.465495
batch: 159 Training Loss: 0.464946
batch: 160 Training Loss: 0.466503
batch: 161 Training Loss: 0.466713
batch: 162 Training Loss: 0.467776
batch: 163 Training Loss: 0.468571
batch: 164 Training Loss: 0.468034
batch: 165 Training Loss: 0.469191
batch: 166 Training Loss: 0.469206
batch: 167 Training Loss: 0.467577
batch: 168 Training Loss: 0.470183
batch: 169 Training Loss: 0.469353
batch: 170 Training Loss: 0.469096
batch: 171 Training Loss: 0.470122
batch: 172 Training Loss: 0.468484
batch: 173 Training Loss: 0.468288
batch: 174 Training Loss: 0.468079
batch: 175 Training Loss: 0.468185
batch: 176 Training Loss: 0.466704
batch: 177 Training Loss: 0.465730

batch: 178 Training Loss: 0.464504
batch: 179 Training Loss: 0.463451
batch: 180 Training Loss: 0.463026
batch: 181 Training Loss: 0.462726
batch: 182 Training Loss: 0.462961
batch: 183 Training Loss: 0.462879
batch: 184 Training Loss: 0.462425
batch: 185 Training Loss: 0.461784
batch: 186 Training Loss: 0.461155
batch: 187 Training Loss: 0.461053
batch: 188 Training Loss: 0.462028
batch: 189 Training Loss: 0.463633
batch: 190 Training Loss: 0.463994
batch: 191 Training Loss: 0.463906
batch: 192 Training Loss: 0.462908
batch: 193 Training Loss: 0.462818
batch: 194 Training Loss: 0.466557
batch: 195 Training Loss: 0.466591
batch: 196 Training Loss: 0.468130
batch: 197 Training Loss: 0.469461
batch: 198 Training Loss: 0.470807
batch: 199 Training Loss: 0.471000
batch: 200 Training Loss: 0.471004
batch: 201 Training Loss: 0.471834
batch: 202 Training Loss: 0.471627
batch: 203 Training Loss: 0.470324
batch: 204 Training Loss: 0.469535
batch: 205 Training Loss: 0.469580
batch: 206 Training Loss: 0.469099
batch: 207 Training Loss: 0.471393
batch: 208 Training Loss: 0.471295
Epoch: 27 Training Loss: 0.471295 Validation Loss: 1.168270
batch: 0 Training Loss: 0.443507
batch: 1 Training Loss: 0.552852
batch: 2 Training Loss: 0.588390
batch: 3 Training Loss: 0.586814
batch: 4 Training Loss: 0.513854
batch: 5 Training Loss: 0.481502
batch: 6 Training Loss: 0.449481
batch: 7 Training Loss: 0.415420
batch: 8 Training Loss: 0.388608
batch: 9 Training Loss: 0.377235
batch: 10 Training Loss: 0.385465
batch: 11 Training Loss: 0.397503
batch: 12 Training Loss: 0.391074
batch: 13 Training Loss: 0.372477
batch: 14 Training Loss: 0.371769
batch: 15 Training Loss: 0.372760
batch: 16 Training Loss: 0.376083
batch: 17 Training Loss: 0.365014
batch: 18 Training Loss: 0.376829
batch: 19 Training Loss: 0.382863
batch: 20 Training Loss: 0.380698
batch: 21 Training Loss: 0.380341
batch: 22 Training Loss: 0.383814
batch: 23 Training Loss: 0.388175
batch: 24 Training Loss: 0.392943
batch: 25 Training Loss: 0.389122
batch: 26 Training Loss: 0.402612
batch: 27 Training Loss: 0.403986
batch: 28 Training Loss: 0.409259
batch: 29 Training Loss: 0.412561
batch: 30 Training Loss: 0.407522
batch: 31 Training Loss: 0.408687
batch: 32 Training Loss: 0.405150
batch: 33 Training Loss: 0.406835
batch: 34 Training Loss: 0.403003
batch: 35 Training Loss: 0.402694
batch: 36 Training Loss: 0.404728
batch: 37 Training Loss: 0.403561
batch: 38 Training Loss: 0.402465
batch: 39 Training Loss: 0.412629
batch: 40 Training Loss: 0.415774
batch: 41 Training Loss: 0.412527
batch: 42 Training Loss: 0.412313
batch: 43 Training Loss: 0.410603
batch: 44 Training Loss: 0.416732
batch: 45 Training Loss: 0.413035
batch: 46 Training Loss: 0.411194
batch: 47 Training Loss: 0.410942
batch: 48 Training Loss: 0.410020
batch: 49 Training Loss: 0.409810
batch: 50 Training Loss: 0.409535
batch: 51 Training Loss: 0.407909
batch: 52 Training Loss: 0.414086
batch: 53 Training Loss: 0.416415
batch: 54 Training Loss: 0.413653
batch: 55 Training Loss: 0.409584
batch: 56 Training Loss: 0.409041
batch: 57 Training Loss: 0.407735
batch: 58 Training Loss: 0.409168
.

batch: 59 Training Loss: 0.410630
batch: 60 Training Loss: 0.408885
batch: 61 Training Loss: 0.409298
batch: 62 Training Loss: 0.410257
batch: 63 Training Loss: 0.407106
batch: 64 Training Loss: 0.403884
batch: 65 Training Loss: 0.402685
batch: 66 Training Loss: 0.402190
batch: 67 Training Loss: 0.399705
batch: 68 Training Loss: 0.403795
batch: 69 Training Loss: 0.406779
batch: 70 Training Loss: 0.405110
batch: 71 Training Loss: 0.403304
batch: 72 Training Loss: 0.401279
batch: 73 Training Loss: 0.399042
batch: 74 Training Loss: 0.399608
batch: 75 Training Loss: 0.400915
batch: 76 Training Loss: 0.397299
batch: 77 Training Loss: 0.400097
batch: 78 Training Loss: 0.400174
batch: 79 Training Loss: 0.397561
batch: 80 Training Loss: 0.401405
batch: 81 Training Loss: 0.402084
batch: 82 Training Loss: 0.400595
batch: 83 Training Loss: 0.397776
batch: 84 Training Loss: 0.397291
batch: 85 Training Loss: 0.399159
batch: 86 Training Loss: 0.396969
batch: 87 Training Loss: 0.397044
batch: 88 Training Loss: 0.397118
batch: 89 Training Loss: 0.396497
batch: 90 Training Loss: 0.397058
batch: 91 Training Loss: 0.399655
batch: 92 Training Loss: 0.399700
batch: 93 Training Loss: 0.400999
batch: 94 Training Loss: 0.399060
batch: 95 Training Loss: 0.398591
batch: 96 Training Loss: 0.397256
batch: 97 Training Loss: 0.400469
batch: 98 Training Loss: 0.402099
batch: 99 Training Loss: 0.401914
batch: 100 Training Loss: 0.402661
batch: 101 Training Loss: 0.401309
batch: 102 Training Loss: 0.399789
batch: 103 Training Loss: 0.402463
batch: 104 Training Loss: 0.401945
batch: 105 Training Loss: 0.404312
batch: 106 Training Loss: 0.403937
batch: 107 Training Loss: 0.402243
batch: 108 Training Loss: 0.401203
batch: 109 Training Loss: 0.401581
batch: 110 Training Loss: 0.402138
batch: 111 Training Loss: 0.402055
batch: 112 Training Loss: 0.401836
batch: 113 Training Loss: 0.401203
batch: 114 Training Loss: 0.403195
batch: 115 Training Loss: 0.405365
batch: 116 Training Loss: 0.405457
batch: 117 Training Loss: 0.407054
batch: 118 Training Loss: 0.408174
batch: 119 Training Loss: 0.409392
batch: 120 Training Loss: 0.408500
batch: 121 Training Loss: 0.408036
batch: 122 Training Loss: 0.410377
batch: 123 Training Loss: 0.412015
batch: 124 Training Loss: 0.410896
batch: 125 Training Loss: 0.415367
batch: 126 Training Loss: 0.416606
batch: 127 Training Loss: 0.416724
batch: 128 Training Loss: 0.417545
batch: 129 Training Loss: 0.415985
batch: 130 Training Loss: 0.415165
batch: 131 Training Loss: 0.413899
batch: 132 Training Loss: 0.414039
batch: 133 Training Loss: 0.415200
batch: 134 Training Loss: 0.415994
batch: 135 Training Loss: 0.414847
batch: 136 Training Loss: 0.416089
batch: 137 Training Loss: 0.416186
batch: 138 Training Loss: 0.414484
batch: 139 Training Loss: 0.417342
batch: 140 Training Loss: 0.420327
batch: 141 Training Loss: 0.419970
batch: 142 Training Loss: 0.420813
batch: 143 Training Loss: 0.421363
batch: 144 Training Loss: 0.420492
batch: 145 Training Loss: 0.420816
batch: 146 Training Loss: 0.421418
batch: 147 Training Loss: 0.421049
batch: 148 Training Loss: 0.420897
batch: 149 Training Loss: 0.420750
batch: 150 Training Loss: 0.419777

```
batch: 150      Training Loss: 0.419///
batch: 151      Training Loss: 0.419536
batch: 152      Training Loss: 0.418579
batch: 153      Training Loss: 0.417321
batch: 154      Training Loss: 0.415446
batch: 155      Training Loss: 0.415046
batch: 156      Training Loss: 0.417065
batch: 157      Training Loss: 0.415077
batch: 158      Training Loss: 0.414669
batch: 159      Training Loss: 0.415231
batch: 160      Training Loss: 0.415847
batch: 161      Training Loss: 0.417489
batch: 162      Training Loss: 0.417401
batch: 163      Training Loss: 0.417371
batch: 164      Training Loss: 0.416748
batch: 165      Training Loss: 0.416752
batch: 166      Training Loss: 0.417423
batch: 167      Training Loss: 0.417373
batch: 168      Training Loss: 0.418989
batch: 169      Training Loss: 0.418811
batch: 170      Training Loss: 0.417929
batch: 171      Training Loss: 0.418065
batch: 172      Training Loss: 0.418041
batch: 173      Training Loss: 0.416716
batch: 174      Training Loss: 0.417446
batch: 175      Training Loss: 0.418151
batch: 176      Training Loss: 0.417997
batch: 177      Training Loss: 0.418409
batch: 178      Training Loss: 0.417964
batch: 179      Training Loss: 0.418219
batch: 180      Training Loss: 0.418752
batch: 181      Training Loss: 0.418098
batch: 182      Training Loss: 0.419116
batch: 183      Training Loss: 0.418985
batch: 184      Training Loss: 0.418809
batch: 185      Training Loss: 0.419231
batch: 186      Training Loss: 0.417425
batch: 187      Training Loss: 0.416285
batch: 188      Training Loss: 0.415761
batch: 189      Training Loss: 0.417016
batch: 190      Training Loss: 0.416933
batch: 191      Training Loss: 0.418272
batch: 192      Training Loss: 0.420522
batch: 193      Training Loss: 0.420611
batch: 194      Training Loss: 0.419525
batch: 195      Training Loss: 0.419041
batch: 196      Training Loss: 0.419657
batch: 197      Training Loss: 0.420453
batch: 198      Training Loss: 0.421509
batch: 199      Training Loss: 0.423854
batch: 200      Training Loss: 0.424797
batch: 201      Training Loss: 0.425802
batch: 202      Training Loss: 0.424476
batch: 203      Training Loss: 0.425904
batch: 204      Training Loss: 0.426312
batch: 205      Training Loss: 0.426880
batch: 206      Training Loss: 0.427524
batch: 207      Training Loss: 0.430283
batch: 208      Training Loss: 0.428720
Epoch: 28      Training Loss: 0.428720      Validation Loss: 1.105129
batch: 0        Training Loss: 0.350897
batch: 1        Training Loss: 0.407820
batch: 2        Training Loss: 0.394260
batch: 3        Training Loss: 0.400718
batch: 4        Training Loss: 0.426916
batch: 5        Training Loss: 0.410456
batch: 6        Training Loss: 0.424355
batch: 7        Training Loss: 0.413886
batch: 8        Training Loss: 0.408675
batch: 9        Training Loss: 0.400034
batch: 10       Training Loss: 0.420491
batch: 11       Training Loss: 0.449729
batch: 12       Training Loss: 0.430993
batch: 13       Training Loss: 0.442609
batch: 14       Training Loss: 0.453837
batch: 15       Training Loss: 0.436754
batch: 16       Training Loss: 0.428546
batch: 17       Training Loss: 0.428264
batch: 18       Training Loss: 0.451141
batch: 19       Training Loss: 0.438437
batch: 20       Training Loss: 0.442771
batch: 21       Training Loss: 0.447608
batch: 22       Training Loss: 0.444464
batch: 23       Training Loss: 0.443537
batch: 24       Training Loss: 0.455988
batch: 25       Training Loss: 0.461916
batch: 26       Training Loss: 0.453330
batch: 27       Training Loss: 0.452188
batch: 28       Training Loss: 0.443645
batch: 29       Training Loss: 0.456599
batch: 30       Training Loss: 0.460662
batch: 31       Training Loss: 0.460275
```

batch: 51 Training Loss: 0.468275
batch: 52 Training Loss: 0.463049
batch: 53 Training Loss: 0.460243
batch: 54 Training Loss: 0.458546
batch: 55 Training Loss: 0.452411
batch: 56 Training Loss: 0.447533
batch: 57 Training Loss: 0.453521
batch: 58 Training Loss: 0.455449
batch: 59 Training Loss: 0.452445
batch: 60 Training Loss: 0.452962
batch: 61 Training Loss: 0.456457
batch: 62 Training Loss: 0.453157
batch: 63 Training Loss: 0.453302
batch: 64 Training Loss: 0.451036
batch: 65 Training Loss: 0.447693
batch: 66 Training Loss: 0.444710
batch: 67 Training Loss: 0.448208
batch: 68 Training Loss: 0.447418
batch: 69 Training Loss: 0.451889
batch: 70 Training Loss: 0.454292
batch: 71 Training Loss: 0.460052
batch: 72 Training Loss: 0.462005
batch: 73 Training Loss: 0.462850
batch: 74 Training Loss: 0.459641
batch: 75 Training Loss: 0.456901
batch: 76 Training Loss: 0.458117
batch: 77 Training Loss: 0.456141
batch: 78 Training Loss: 0.453573
batch: 79 Training Loss: 0.448768
batch: 80 Training Loss: 0.446035
batch: 81 Training Loss: 0.445015
batch: 82 Training Loss: 0.444865
batch: 83 Training Loss: 0.442369
batch: 84 Training Loss: 0.445017
batch: 85 Training Loss: 0.443111
batch: 86 Training Loss: 0.440441
batch: 87 Training Loss: 0.440248
batch: 88 Training Loss: 0.438793
batch: 89 Training Loss: 0.439268
batch: 90 Training Loss: 0.438697
batch: 91 Training Loss: 0.436980
batch: 92 Training Loss: 0.438039
batch: 93 Training Loss: 0.435300
batch: 94 Training Loss: 0.434861
batch: 95 Training Loss: 0.434431
batch: 96 Training Loss: 0.433140
batch: 97 Training Loss: 0.430703
batch: 98 Training Loss: 0.427830
batch: 99 Training Loss: 0.425580
batch: 100 Training Loss: 0.426955
batch: 101 Training Loss: 0.426932
batch: 102 Training Loss: 0.428009
batch: 103 Training Loss: 0.431225
batch: 104 Training Loss: 0.431012
batch: 105 Training Loss: 0.434031
batch: 106 Training Loss: 0.437220
batch: 107 Training Loss: 0.442017
batch: 108 Training Loss: 0.442509
batch: 109 Training Loss: 0.441158
batch: 110 Training Loss: 0.442270
batch: 111 Training Loss: 0.441188
batch: 112 Training Loss: 0.441308
batch: 113 Training Loss: 0.438907
batch: 114 Training Loss: 0.436514
batch: 115 Training Loss: 0.437825
batch: 116 Training Loss: 0.444494
batch: 117 Training Loss: 0.443803
batch: 118 Training Loss: 0.446020
batch: 119 Training Loss: 0.447203
batch: 120 Training Loss: 0.446506
batch: 121 Training Loss: 0.446763
batch: 122 Training Loss: 0.448784
batch: 123 Training Loss: 0.447863
batch: 124 Training Loss: 0.448303
batch: 125 Training Loss: 0.448634
batch: 126 Training Loss: 0.451164
batch: 127 Training Loss: 0.450500
batch: 128 Training Loss: 0.450726
batch: 129 Training Loss: 0.450896
batch: 130 Training Loss: 0.451372
batch: 131 Training Loss: 0.450304
batch: 132 Training Loss: 0.449298
batch: 133 Training Loss: 0.450146
batch: 134 Training Loss: 0.449821
batch: 135 Training Loss: 0.449813
batch: 136 Training Loss: 0.450155
batch: 137 Training Loss: 0.450250
batch: 138 Training Loss: 0.449252
batch: 139 Training Loss: 0.448610
batch: 140 Training Loss: 0.448285
batch: 141 Training Loss: 0.449877
batch: 142 Training Loss: 0.448061

batch: 122 Training Loss: 0.440704
batch: 123 Training Loss: 0.448925
batch: 124 Training Loss: 0.449234
batch: 125 Training Loss: 0.448013
batch: 126 Training Loss: 0.447128
batch: 127 Training Loss: 0.445330
batch: 128 Training Loss: 0.446263
batch: 129 Training Loss: 0.445323
batch: 130 Training Loss: 0.444527
batch: 131 Training Loss: 0.447527
batch: 132 Training Loss: 0.446873
batch: 133 Training Loss: 0.446379
batch: 134 Training Loss: 0.446828
batch: 135 Training Loss: 0.447165
batch: 136 Training Loss: 0.446836
batch: 137 Training Loss: 0.446740
batch: 138 Training Loss: 0.446772
batch: 139 Training Loss: 0.446787
batch: 140 Training Loss: 0.446667
batch: 141 Training Loss: 0.449327
batch: 142 Training Loss: 0.449039
batch: 143 Training Loss: 0.448035
batch: 144 Training Loss: 0.446434
batch: 145 Training Loss: 0.447030
batch: 146 Training Loss: 0.447601
batch: 147 Training Loss: 0.447903
batch: 148 Training Loss: 0.446567
batch: 149 Training Loss: 0.444803
batch: 150 Training Loss: 0.445948
batch: 151 Training Loss: 0.447576
batch: 152 Training Loss: 0.446960
batch: 153 Training Loss: 0.445750
batch: 154 Training Loss: 0.444610
batch: 155 Training Loss: 0.445419
batch: 156 Training Loss: 0.445116
batch: 157 Training Loss: 0.444575
batch: 158 Training Loss: 0.444419
batch: 159 Training Loss: 0.443198
batch: 160 Training Loss: 0.443486
batch: 161 Training Loss: 0.443986
batch: 162 Training Loss: 0.443290
batch: 163 Training Loss: 0.446773
batch: 164 Training Loss: 0.446528
batch: 165 Training Loss: 0.445033
batch: 166 Training Loss: 0.444336
batch: 167 Training Loss: 0.442946
batch: 168 Training Loss: 0.444487
batch: 169 Training Loss: 0.444467
batch: 170 Training Loss: 0.444753
batch: 171 Training Loss: 0.443133
batch: 172 Training Loss: 0.442940
batch: 173 Training Loss: 0.442055
batch: 174 Training Loss: 0.442177
batch: 175 Training Loss: 0.441612
batch: 176 Training Loss: 0.441889
batch: 177 Training Loss: 0.440235
batch: 178 Training Loss: 0.441289
batch: 179 Training Loss: 0.440678
batch: 180 Training Loss: 0.439717
batch: 181 Training Loss: 0.440372
batch: 182 Training Loss: 0.440490
batch: 183 Training Loss: 0.440300
batch: 184 Training Loss: 0.440954
batch: 185 Training Loss: 0.440217
batch: 186 Training Loss: 0.439390
batch: 187 Training Loss: 0.438855
batch: 188 Training Loss: 0.438505
batch: 189 Training Loss: 0.439734
batch: 190 Training Loss: 0.439566
batch: 191 Training Loss: 0.438666
batch: 192 Training Loss: 0.437904
batch: 193 Training Loss: 0.439533
batch: 194 Training Loss: 0.439821
batch: 195 Training Loss: 0.439573
batch: 196 Training Loss: 0.439459
batch: 197 Training Loss: 0.439590
batch: 198 Training Loss: 0.439135
batch: 199 Training Loss: 0.437988
batch: 200 Training Loss: 0.439677
batch: 201 Training Loss: 0.439402
batch: 202 Training Loss: 0.439968
batch: 203 Training Loss: 0.440568
batch: 204 Training Loss: 0.443291
batch: 205 Training Loss: 0.442265
batch: 206 Training Loss: 0.442614
batch: 207 Training Loss: 0.441767
batch: 208 Training Loss: 0.443008
Epoch: 29 Training Loss: 0.443008 Validation Loss: 1.189867
batch: 0 Training Loss: 0.331913
batch: 1 Training Loss: 0.354937
batch: 2 Training Loss: 0.405723
batch: 3 Training Loss: 0.400815

batch: 0 Training Loss: 0.405612
batch: 1 Training Loss: 0.369850
batch: 2 Training Loss: 0.391057
batch: 3 Training Loss: 0.391034
batch: 4 Training Loss: 0.382730
batch: 5 Training Loss: 0.373508
batch: 6 Training Loss: 0.349015
batch: 7 Training Loss: 0.353073
batch: 8 Training Loss: 0.336728
batch: 9 Training Loss: 0.325153
batch: 10 Training Loss: 0.324795
batch: 11 Training Loss: 0.320352
batch: 12 Training Loss: 0.330496
batch: 13 Training Loss: 0.321285
batch: 14 Training Loss: 0.340256
batch: 15 Training Loss: 0.332641
batch: 16 Training Loss: 0.342414
batch: 17 Training Loss: 0.333157
batch: 18 Training Loss: 0.329137
batch: 19 Training Loss: 0.326041
batch: 20 Training Loss: 0.339391
batch: 21 Training Loss: 0.349277
batch: 22 Training Loss: 0.357472
batch: 23 Training Loss: 0.361161
batch: 24 Training Loss: 0.374397
batch: 25 Training Loss: 0.369940
batch: 26 Training Loss: 0.370027
batch: 27 Training Loss: 0.366288
batch: 28 Training Loss: 0.373769
batch: 29 Training Loss: 0.372552
batch: 30 Training Loss: 0.370913
batch: 31 Training Loss: 0.374782
batch: 32 Training Loss: 0.375366
batch: 33 Training Loss: 0.374801
batch: 34 Training Loss: 0.371287
batch: 35 Training Loss: 0.374066
batch: 36 Training Loss: 0.373678
batch: 37 Training Loss: 0.371204
batch: 38 Training Loss: 0.380326
batch: 39 Training Loss: 0.377622
batch: 40 Training Loss: 0.374869
batch: 41 Training Loss: 0.370835
batch: 42 Training Loss: 0.382451
batch: 43 Training Loss: 0.384238
batch: 44 Training Loss: 0.387655
batch: 45 Training Loss: 0.388031
batch: 46 Training Loss: 0.390484
batch: 47 Training Loss: 0.390926
batch: 48 Training Loss: 0.387169
batch: 49 Training Loss: 0.392770
batch: 50 Training Loss: 0.390093
batch: 51 Training Loss: 0.393796
batch: 52 Training Loss: 0.393341
batch: 53 Training Loss: 0.391886
batch: 54 Training Loss: 0.391431
batch: 55 Training Loss: 0.388359
batch: 56 Training Loss: 0.385907
batch: 57 Training Loss: 0.383964
batch: 58 Training Loss: 0.386616
batch: 59 Training Loss: 0.387851
batch: 60 Training Loss: 0.390780
batch: 61 Training Loss: 0.391117
batch: 62 Training Loss: 0.389766
batch: 63 Training Loss: 0.390030
batch: 64 Training Loss: 0.390153
batch: 65 Training Loss: 0.389510
batch: 66 Training Loss: 0.393178
batch: 67 Training Loss: 0.392576
batch: 68 Training Loss: 0.394799
batch: 69 Training Loss: 0.399847
batch: 70 Training Loss: 0.399577
batch: 71 Training Loss: 0.396871
batch: 72 Training Loss: 0.396914
batch: 73 Training Loss: 0.393606
batch: 74 Training Loss: 0.395789
batch: 75 Training Loss: 0.396356
batch: 76 Training Loss: 0.394546
batch: 77 Training Loss: 0.395144
batch: 78 Training Loss: 0.393857
batch: 79 Training Loss: 0.392847
batch: 80 Training Loss: 0.394837
batch: 81 Training Loss: 0.395366
batch: 82 Training Loss: 0.395713
batch: 83 Training Loss: 0.392058
batch: 84 Training Loss: 0.392049
batch: 85 Training Loss: 0.393668
batch: 86 Training Loss: 0.391254
batch: 87 Training Loss: 0.391899
batch: 88 Training Loss: 0.391440
batch: 89 Training Loss: 0.389049
batch: 90 Training Loss: 0.387207

batch: 94 Training Loss: 0.387207
batch: 95 Training Loss: 0.388560
batch: 96 Training Loss: 0.388518
batch: 97 Training Loss: 0.387038
batch: 98 Training Loss: 0.391008
batch: 99 Training Loss: 0.392337
batch: 100 Training Loss: 0.392981
batch: 101 Training Loss: 0.396338
batch: 102 Training Loss: 0.396218
batch: 103 Training Loss: 0.397494
batch: 104 Training Loss: 0.395550
batch: 105 Training Loss: 0.394380
batch: 106 Training Loss: 0.393952
batch: 107 Training Loss: 0.394567
batch: 108 Training Loss: 0.394362
batch: 109 Training Loss: 0.394004
batch: 110 Training Loss: 0.394157
batch: 111 Training Loss: 0.395176
batch: 112 Training Loss: 0.396812
batch: 113 Training Loss: 0.397601
batch: 114 Training Loss: 0.396794
batch: 115 Training Loss: 0.396529
batch: 116 Training Loss: 0.398293
batch: 117 Training Loss: 0.397011
batch: 118 Training Loss: 0.397128
batch: 119 Training Loss: 0.395969
batch: 120 Training Loss: 0.396033
batch: 121 Training Loss: 0.394951
batch: 122 Training Loss: 0.397952
batch: 123 Training Loss: 0.396552
batch: 124 Training Loss: 0.395837
batch: 125 Training Loss: 0.394038
batch: 126 Training Loss: 0.394477
batch: 127 Training Loss: 0.396835
batch: 128 Training Loss: 0.397218
batch: 129 Training Loss: 0.397130
batch: 130 Training Loss: 0.404111
batch: 131 Training Loss: 0.403677
batch: 132 Training Loss: 0.404750
batch: 133 Training Loss: 0.404073
batch: 134 Training Loss: 0.403378
batch: 135 Training Loss: 0.403614
batch: 136 Training Loss: 0.404988
batch: 137 Training Loss: 0.404400
batch: 138 Training Loss: 0.404012
batch: 139 Training Loss: 0.406904
batch: 140 Training Loss: 0.408815
batch: 141 Training Loss: 0.407554
batch: 142 Training Loss: 0.408764
batch: 143 Training Loss: 0.408959
batch: 144 Training Loss: 0.410520
batch: 145 Training Loss: 0.410671
batch: 146 Training Loss: 0.410259
batch: 147 Training Loss: 0.411630
batch: 148 Training Loss: 0.411077
batch: 149 Training Loss: 0.413036
batch: 150 Training Loss: 0.412994
batch: 151 Training Loss: 0.413498
batch: 152 Training Loss: 0.413260
batch: 153 Training Loss: 0.414937
batch: 154 Training Loss: 0.414926
batch: 155 Training Loss: 0.414045
batch: 156 Training Loss: 0.414448
batch: 157 Training Loss: 0.414128
batch: 158 Training Loss: 0.415067
batch: 159 Training Loss: 0.413988
batch: 160 Training Loss: 0.413652
batch: 161 Training Loss: 0.414013
batch: 162 Training Loss: 0.413467
batch: 163 Training Loss: 0.414424
batch: 164 Training Loss: 0.414929
batch: 165 Training Loss: 0.415240
batch: 166 Training Loss: 0.415843
batch: 167 Training Loss: 0.416405
batch: 168 Training Loss: 0.418040
batch: 169 Training Loss: 0.418008
batch: 170 Training Loss: 0.417730
batch: 171 Training Loss: 0.418384
batch: 172 Training Loss: 0.419120
batch: 173 Training Loss: 0.420812
batch: 174 Training Loss: 0.421021
batch: 175 Training Loss: 0.422195
batch: 176 Training Loss: 0.423160
batch: 177 Training Loss: 0.421410
batch: 178 Training Loss: 0.421828
batch: 179 Training Loss: 0.422901
batch: 180 Training Loss: 0.423016
batch: 181 Training Loss: 0.423982
batch: 182 Training Loss: 0.425900
batch: 183 Training Loss: 0.425952
batch: 184 Training Loss: 0.426273
batch: 185 Training Loss: 0.426628

```
batch: 100      Training Loss: 0.420020
batch: 186      Training Loss: 0.427294
batch: 187      Training Loss: 0.427191
batch: 188      Training Loss: 0.426739
batch: 189      Training Loss: 0.428986
batch: 190      Training Loss: 0.427891
batch: 191      Training Loss: 0.428229
batch: 192      Training Loss: 0.427887
batch: 193      Training Loss: 0.429045
batch: 194      Training Loss: 0.429468
batch: 195      Training Loss: 0.428550
batch: 196      Training Loss: 0.428339
batch: 197      Training Loss: 0.428361
batch: 198      Training Loss: 0.427998
batch: 199      Training Loss: 0.426625
batch: 200      Training Loss: 0.427398
batch: 201      Training Loss: 0.428263
batch: 202      Training Loss: 0.428194
batch: 203      Training Loss: 0.427931
batch: 204      Training Loss: 0.428815
batch: 205      Training Loss: 0.428324
batch: 206      Training Loss: 0.426980
batch: 207      Training Loss: 0.427220
batch: 208      Training Loss: 0.426923
Epoch: 30      Training Loss: 0.426923          Validation Loss: 1.13635
batch: 0        Training Loss: 0.214625
batch: 1        Training Loss: 0.284913
batch: 2        Training Loss: 0.304349
batch: 3        Training Loss: 0.301515
batch: 4        Training Loss: 0.322072
batch: 5        Training Loss: 0.360588
batch: 6        Training Loss: 0.376150
batch: 7        Training Loss: 0.367244
batch: 8        Training Loss: 0.359239
batch: 9        Training Loss: 0.370754
batch: 10       Training Loss: 0.375477
batch: 11       Training Loss: 0.365386
batch: 12       Training Loss: 0.371183
batch: 13       Training Loss: 0.372567
batch: 14       Training Loss: 0.364168
batch: 15       Training Loss: 0.378228
batch: 16       Training Loss: 0.368824
batch: 17       Training Loss: 0.362502
batch: 18       Training Loss: 0.357500
batch: 19       Training Loss: 0.359780
batch: 20       Training Loss: 0.352973
batch: 21       Training Loss: 0.356045
batch: 22       Training Loss: 0.345268
batch: 23       Training Loss: 0.349072
batch: 24       Training Loss: 0.341425
batch: 25       Training Loss: 0.352609
batch: 26       Training Loss: 0.352590
batch: 27       Training Loss: 0.351341
batch: 28       Training Loss: 0.348261
batch: 29       Training Loss: 0.353122
batch: 30       Training Loss: 0.354386
batch: 31       Training Loss: 0.359842
batch: 32       Training Loss: 0.360223
batch: 33       Training Loss: 0.358435
batch: 34       Training Loss: 0.367351
batch: 35       Training Loss: 0.365521
batch: 36       Training Loss: 0.369910
batch: 37       Training Loss: 0.365085
batch: 38       Training Loss: 0.359357
batch: 39       Training Loss: 0.358586
batch: 40       Training Loss: 0.354400
batch: 41       Training Loss: 0.351917
batch: 42       Training Loss: 0.348322
batch: 43       Training Loss: 0.349532
batch: 44       Training Loss: 0.349427
batch: 45       Training Loss: 0.352519
batch: 46       Training Loss: 0.350964
batch: 47       Training Loss: 0.353157
batch: 48       Training Loss: 0.356297
batch: 49       Training Loss: 0.356384
batch: 50       Training Loss: 0.354807
batch: 51       Training Loss: 0.350935
batch: 52       Training Loss: 0.350439
batch: 53       Training Loss: 0.354390
batch: 54       Training Loss: 0.355256
batch: 55       Training Loss: 0.351529
batch: 56       Training Loss: 0.352655
batch: 57       Training Loss: 0.350482
batch: 58       Training Loss: 0.354904
batch: 59       Training Loss: 0.351692
batch: 60       Training Loss: 0.348760
batch: 61       Training Loss: 0.349761
batch: 62       Training Loss: 0.353510
batch: 63       Training Loss: 0.356926
batch: 64       Training Loss: 0.354590
batch: 65       Training Loss: 0.356423
batch: 66       Training Loss: 0.356298
```

```
-- -- -- -- --  
batch: 67 Training Loss: 0.353016  
batch: 68 Training Loss: 0.356240  
batch: 69 Training Loss: 0.357601  
batch: 70 Training Loss: 0.358266  
batch: 71 Training Loss: 0.357817  
batch: 72 Training Loss: 0.356793  
batch: 73 Training Loss: 0.355291  
batch: 74 Training Loss: 0.356996  
batch: 75 Training Loss: 0.358555  
batch: 76 Training Loss: 0.357463  
batch: 77 Training Loss: 0.359427  
batch: 78 Training Loss: 0.364698  
batch: 79 Training Loss: 0.364527  
batch: 80 Training Loss: 0.366733  
batch: 81 Training Loss: 0.367832  
batch: 82 Training Loss: 0.369479  
batch: 83 Training Loss: 0.370557  
batch: 84 Training Loss: 0.369352  
batch: 85 Training Loss: 0.367808  
batch: 86 Training Loss: 0.369131  
batch: 87 Training Loss: 0.368138  
batch: 88 Training Loss: 0.367243  
batch: 89 Training Loss: 0.371198  
batch: 90 Training Loss: 0.371352  
batch: 91 Training Loss: 0.371641  
batch: 92 Training Loss: 0.369660  
batch: 93 Training Loss: 0.367813  
batch: 94 Training Loss: 0.369571  
batch: 95 Training Loss: 0.367283  
batch: 96 Training Loss: 0.369855  
batch: 97 Training Loss: 0.373549  
batch: 98 Training Loss: 0.374049  
batch: 99 Training Loss: 0.375760  
batch: 100 Training Loss: 0.382950  
batch: 101 Training Loss: 0.381519  
batch: 102 Training Loss: 0.383600  
batch: 103 Training Loss: 0.383310  
batch: 104 Training Loss: 0.383960  
batch: 105 Training Loss: 0.383113  
batch: 106 Training Loss: 0.383921  
batch: 107 Training Loss: 0.382243  
batch: 108 Training Loss: 0.386586  
batch: 109 Training Loss: 0.386949  
batch: 110 Training Loss: 0.387592  
batch: 111 Training Loss: 0.387717  
batch: 112 Training Loss: 0.385422  
batch: 113 Training Loss: 0.383448  
batch: 114 Training Loss: 0.382148  
batch: 115 Training Loss: 0.381341  
batch: 116 Training Loss: 0.381389  
batch: 117 Training Loss: 0.381023  
batch: 118 Training Loss: 0.380647  
batch: 119 Training Loss: 0.382751  
batch: 120 Training Loss: 0.384201  
batch: 121 Training Loss: 0.383512  
batch: 122 Training Loss: 0.382518  
batch: 123 Training Loss: 0.382012  
batch: 124 Training Loss: 0.382204  
batch: 125 Training Loss: 0.381736  
batch: 126 Training Loss: 0.386925  
batch: 127 Training Loss: 0.391510  
batch: 128 Training Loss: 0.392862  
batch: 129 Training Loss: 0.392468  
batch: 130 Training Loss: 0.391813  
batch: 131 Training Loss: 0.393525  
batch: 132 Training Loss: 0.395190  
batch: 133 Training Loss: 0.394592  
batch: 134 Training Loss: 0.395508  
batch: 135 Training Loss: 0.395314  
batch: 136 Training Loss: 0.394411  
batch: 137 Training Loss: 0.395528  
batch: 138 Training Loss: 0.394386  
batch: 139 Training Loss: 0.399463  
batch: 140 Training Loss: 0.399712  
batch: 141 Training Loss: 0.399080  
batch: 142 Training Loss: 0.399760  
batch: 143 Training Loss: 0.401224  
batch: 144 Training Loss: 0.400572  
batch: 145 Training Loss: 0.399528  
batch: 146 Training Loss: 0.399805  
batch: 147 Training Loss: 0.398465  
batch: 148 Training Loss: 0.399436  
batch: 149 Training Loss: 0.401377  
batch: 150 Training Loss: 0.401625  
batch: 151 Training Loss: 0.402738  
batch: 152 Training Loss: 0.401588  
batch: 153 Training Loss: 0.400985  
batch: 154 Training Loss: 0.401161  
batch: 155 Training Loss: 0.401973  
batch: 156 Training Loss: 0.404715  
batch: 157 Training Loss: 0.404971
```

batch: 158 Training Loss: 0.404421
batch: 159 Training Loss: 0.404512
batch: 160 Training Loss: 0.404028
batch: 161 Training Loss: 0.404946
batch: 162 Training Loss: 0.406137
batch: 163 Training Loss: 0.406721
batch: 164 Training Loss: 0.406986
batch: 165 Training Loss: 0.406977
batch: 166 Training Loss: 0.407943
batch: 167 Training Loss: 0.407287
batch: 168 Training Loss: 0.408331
batch: 169 Training Loss: 0.408126
batch: 170 Training Loss: 0.407370
batch: 171 Training Loss: 0.409758
batch: 172 Training Loss: 0.410013
batch: 173 Training Loss: 0.410972
batch: 174 Training Loss: 0.411176
batch: 175 Training Loss: 0.411204
batch: 176 Training Loss: 0.412045
batch: 177 Training Loss: 0.410906
batch: 178 Training Loss: 0.409461
batch: 179 Training Loss: 0.409762
batch: 180 Training Loss: 0.410819
batch: 181 Training Loss: 0.409646
batch: 182 Training Loss: 0.408558
batch: 183 Training Loss: 0.409102
batch: 184 Training Loss: 0.409588
batch: 185 Training Loss: 0.410962
batch: 186 Training Loss: 0.410859
batch: 187 Training Loss: 0.410500
batch: 188 Training Loss: 0.410135
batch: 189 Training Loss: 0.410805
batch: 190 Training Loss: 0.410536
batch: 191 Training Loss: 0.409003
batch: 192 Training Loss: 0.410075
batch: 193 Training Loss: 0.409995
batch: 194 Training Loss: 0.408951
batch: 195 Training Loss: 0.409017
batch: 196 Training Loss: 0.408123
batch: 197 Training Loss: 0.410528
batch: 198 Training Loss: 0.410089
batch: 199 Training Loss: 0.410781
batch: 200 Training Loss: 0.410184
batch: 201 Training Loss: 0.410875
batch: 202 Training Loss: 0.410361
batch: 203 Training Loss: 0.412501
batch: 204 Training Loss: 0.412730
batch: 205 Training Loss: 0.414097
batch: 206 Training Loss: 0.414652
batch: 207 Training Loss: 0.413527
batch: 208 Training Loss: 0.412037
Epoch: 31 Training Loss: 0.412037 Validation Loss: 1.237762
batch: 0 Training Loss: 0.237830
batch: 1 Training Loss: 0.183050
batch: 2 Training Loss: 0.275178
batch: 3 Training Loss: 0.304758
batch: 4 Training Loss: 0.301696
batch: 5 Training Loss: 0.317219
batch: 6 Training Loss: 0.336484
batch: 7 Training Loss: 0.348719
batch: 8 Training Loss: 0.336532
batch: 9 Training Loss: 0.346856
batch: 10 Training Loss: 0.360440
batch: 11 Training Loss: 0.355616
batch: 12 Training Loss: 0.351061
batch: 13 Training Loss: 0.353494
batch: 14 Training Loss: 0.412198
batch: 15 Training Loss: 0.429486
batch: 16 Training Loss: 0.416725
batch: 17 Training Loss: 0.410016
batch: 18 Training Loss: 0.405243
batch: 19 Training Loss: 0.415581
batch: 20 Training Loss: 0.411192
batch: 21 Training Loss: 0.402454
batch: 22 Training Loss: 0.423302
batch: 23 Training Loss: 0.423909
batch: 24 Training Loss: 0.419712
batch: 25 Training Loss: 0.409931
batch: 26 Training Loss: 0.415738
batch: 27 Training Loss: 0.424523
batch: 28 Training Loss: 0.414540
batch: 29 Training Loss: 0.414960
batch: 30 Training Loss: 0.420821
batch: 31 Training Loss: 0.416871
batch: 32 Training Loss: 0.412753
batch: 33 Training Loss: 0.425895
batch: 34 Training Loss: 0.424139
batch: 35 Training Loss: 0.420176
batch: 36 Training Loss: 0.415167
batch: 37 Training Loss: 0.410444
batch: 38 Training Loss: 0.407130

batch: 39 Training Loss: 0.403912
batch: 40 Training Loss: 0.406603
batch: 41 Training Loss: 0.404892
batch: 42 Training Loss: 0.405342
batch: 43 Training Loss: 0.407250
batch: 44 Training Loss: 0.405572
batch: 45 Training Loss: 0.400975
batch: 46 Training Loss: 0.400616
batch: 47 Training Loss: 0.400427
batch: 48 Training Loss: 0.408980
batch: 49 Training Loss: 0.405986
batch: 50 Training Loss: 0.403182
batch: 51 Training Loss: 0.402061
batch: 52 Training Loss: 0.406796
batch: 53 Training Loss: 0.407396
batch: 54 Training Loss: 0.407343
batch: 55 Training Loss: 0.401933
batch: 56 Training Loss: 0.399793
batch: 57 Training Loss: 0.398483
batch: 58 Training Loss: 0.398603
batch: 59 Training Loss: 0.401532
batch: 60 Training Loss: 0.403161
batch: 61 Training Loss: 0.401045
batch: 62 Training Loss: 0.401077
batch: 63 Training Loss: 0.402096
batch: 64 Training Loss: 0.399716
batch: 65 Training Loss: 0.399846
batch: 66 Training Loss: 0.397665
batch: 67 Training Loss: 0.397713
batch: 68 Training Loss: 0.396272
batch: 69 Training Loss: 0.394673
batch: 70 Training Loss: 0.391326
batch: 71 Training Loss: 0.391755
batch: 72 Training Loss: 0.395103
batch: 73 Training Loss: 0.398315
batch: 74 Training Loss: 0.397182
batch: 75 Training Loss: 0.398946
batch: 76 Training Loss: 0.399045
batch: 77 Training Loss: 0.396690
batch: 78 Training Loss: 0.395297
batch: 79 Training Loss: 0.396863
batch: 80 Training Loss: 0.395967
batch: 81 Training Loss: 0.396683
batch: 82 Training Loss: 0.395984
batch: 83 Training Loss: 0.394684
batch: 84 Training Loss: 0.396838
batch: 85 Training Loss: 0.394601
batch: 86 Training Loss: 0.394468
batch: 87 Training Loss: 0.393853
batch: 88 Training Loss: 0.392896
batch: 89 Training Loss: 0.391300
batch: 90 Training Loss: 0.390750
batch: 91 Training Loss: 0.390048
batch: 92 Training Loss: 0.388919
batch: 93 Training Loss: 0.390299
batch: 94 Training Loss: 0.391513
batch: 95 Training Loss: 0.390335
batch: 96 Training Loss: 0.390318
batch: 97 Training Loss: 0.388068
batch: 98 Training Loss: 0.389463
batch: 99 Training Loss: 0.391583
batch: 100 Training Loss: 0.389540
batch: 101 Training Loss: 0.389653
batch: 102 Training Loss: 0.388152
batch: 103 Training Loss: 0.389645
batch: 104 Training Loss: 0.389286
batch: 105 Training Loss: 0.388790
batch: 106 Training Loss: 0.388606
batch: 107 Training Loss: 0.388055
batch: 108 Training Loss: 0.387760
batch: 109 Training Loss: 0.386551
batch: 110 Training Loss: 0.386349
batch: 111 Training Loss: 0.385906
batch: 112 Training Loss: 0.385700
batch: 113 Training Loss: 0.386894
batch: 114 Training Loss: 0.385952
batch: 115 Training Loss: 0.386428
batch: 116 Training Loss: 0.387946
batch: 117 Training Loss: 0.386685
batch: 118 Training Loss: 0.385572
batch: 119 Training Loss: 0.383792
batch: 120 Training Loss: 0.384486
batch: 121 Training Loss: 0.384222
batch: 122 Training Loss: 0.382538
batch: 123 Training Loss: 0.381553
batch: 124 Training Loss: 0.381129
batch: 125 Training Loss: 0.380725
batch: 126 Training Loss: 0.379010
batch: 127 Training Loss: 0.379089
batch: 128 Training Loss: 0.380005
batch: 129 Training Loss: 0.383615

batch: 130 Training Loss: 0.383248
batch: 131 Training Loss: 0.384375
batch: 132 Training Loss: 0.383858
batch: 133 Training Loss: 0.382372
batch: 134 Training Loss: 0.384422
batch: 135 Training Loss: 0.385079
batch: 136 Training Loss: 0.385133
batch: 137 Training Loss: 0.383177
batch: 138 Training Loss: 0.382971
batch: 139 Training Loss: 0.383362
batch: 140 Training Loss: 0.385285
batch: 141 Training Loss: 0.384482
batch: 142 Training Loss: 0.383606
batch: 143 Training Loss: 0.382517
batch: 144 Training Loss: 0.382570
batch: 145 Training Loss: 0.383231
batch: 146 Training Loss: 0.382108
batch: 147 Training Loss: 0.384162
batch: 148 Training Loss: 0.384505
batch: 149 Training Loss: 0.383464
batch: 150 Training Loss: 0.382543
batch: 151 Training Loss: 0.381676
batch: 152 Training Loss: 0.381594
batch: 153 Training Loss: 0.380633
batch: 154 Training Loss: 0.379885
batch: 155 Training Loss: 0.382424
batch: 156 Training Loss: 0.381973
batch: 157 Training Loss: 0.381096
batch: 158 Training Loss: 0.380870
batch: 159 Training Loss: 0.382390
batch: 160 Training Loss: 0.381847
batch: 161 Training Loss: 0.382058
batch: 162 Training Loss: 0.382632
batch: 163 Training Loss: 0.382926
batch: 164 Training Loss: 0.382761
batch: 165 Training Loss: 0.385957
batch: 166 Training Loss: 0.386970
batch: 167 Training Loss: 0.387387
batch: 168 Training Loss: 0.386256
batch: 169 Training Loss: 0.385938
batch: 170 Training Loss: 0.386674
batch: 171 Training Loss: 0.387764
batch: 172 Training Loss: 0.387876
batch: 173 Training Loss: 0.387803
batch: 174 Training Loss: 0.386507
batch: 175 Training Loss: 0.386175
batch: 176 Training Loss: 0.386589
batch: 177 Training Loss: 0.386514
batch: 178 Training Loss: 0.385159
batch: 179 Training Loss: 0.384200
batch: 180 Training Loss: 0.383130
batch: 181 Training Loss: 0.383178
batch: 182 Training Loss: 0.382106
batch: 183 Training Loss: 0.381595
batch: 184 Training Loss: 0.380789
batch: 185 Training Loss: 0.382521
batch: 186 Training Loss: 0.382413
batch: 187 Training Loss: 0.382382
batch: 188 Training Loss: 0.383280
batch: 189 Training Loss: 0.383512
batch: 190 Training Loss: 0.383606
batch: 191 Training Loss: 0.382944
batch: 192 Training Loss: 0.382292
batch: 193 Training Loss: 0.381862
batch: 194 Training Loss: 0.381687
batch: 195 Training Loss: 0.381973
batch: 196 Training Loss: 0.381599
batch: 197 Training Loss: 0.381182
batch: 198 Training Loss: 0.381141
batch: 199 Training Loss: 0.381562
batch: 200 Training Loss: 0.383311
batch: 201 Training Loss: 0.383289
batch: 202 Training Loss: 0.382787
batch: 203 Training Loss: 0.384034
batch: 204 Training Loss: 0.384301
batch: 205 Training Loss: 0.384988
batch: 206 Training Loss: 0.387758
batch: 207 Training Loss: 0.388410
batch: 208 Training Loss: 0.388556
Epoch: 32 Training Loss: 0.388556 Validation Loss: 1.144068
batch: 0 Training Loss: 0.332806
batch: 1 Training Loss: 0.391761
batch: 2 Training Loss: 0.358037
batch: 3 Training Loss: 0.320149
batch: 4 Training Loss: 0.310915
batch: 5 Training Loss: 0.335092
batch: 6 Training Loss: 0.349197
batch: 7 Training Loss: 0.356850
batch: 8 Training Loss: 0.368174
batch: 9 Training Loss: 0.369533
batch: 10 Training Loss: 0.370523

batch: 11 Training Loss: 0.373786
batch: 12 Training Loss: 0.351106
batch: 13 Training Loss: 0.364356
batch: 14 Training Loss: 0.384739
batch: 15 Training Loss: 0.372934
batch: 16 Training Loss: 0.377637
batch: 17 Training Loss: 0.380501
batch: 18 Training Loss: 0.380945
batch: 19 Training Loss: 0.375003
batch: 20 Training Loss: 0.379044
batch: 21 Training Loss: 0.379814
batch: 22 Training Loss: 0.373760
batch: 23 Training Loss: 0.370301
batch: 24 Training Loss: 0.364111
batch: 25 Training Loss: 0.363891
batch: 26 Training Loss: 0.363935
batch: 27 Training Loss: 0.363030
batch: 28 Training Loss: 0.359408
batch: 29 Training Loss: 0.353935
batch: 30 Training Loss: 0.345951
batch: 31 Training Loss: 0.347963
batch: 32 Training Loss: 0.348221
batch: 33 Training Loss: 0.346471
batch: 34 Training Loss: 0.343142
batch: 35 Training Loss: 0.344984
batch: 36 Training Loss: 0.353473
batch: 37 Training Loss: 0.350576
batch: 38 Training Loss: 0.354147
batch: 39 Training Loss: 0.356023
batch: 40 Training Loss: 0.361894
batch: 41 Training Loss: 0.364586
batch: 42 Training Loss: 0.361402
batch: 43 Training Loss: 0.358973
batch: 44 Training Loss: 0.361087
batch: 45 Training Loss: 0.358542
batch: 46 Training Loss: 0.361231
batch: 47 Training Loss: 0.359787
batch: 48 Training Loss: 0.364632
batch: 49 Training Loss: 0.365831
batch: 50 Training Loss: 0.364923
batch: 51 Training Loss: 0.366257
batch: 52 Training Loss: 0.362504
batch: 53 Training Loss: 0.368507
batch: 54 Training Loss: 0.364232
batch: 55 Training Loss: 0.364364
batch: 56 Training Loss: 0.363992
batch: 57 Training Loss: 0.360894
batch: 58 Training Loss: 0.361974
batch: 59 Training Loss: 0.358818
batch: 60 Training Loss: 0.358239
batch: 61 Training Loss: 0.356212
batch: 62 Training Loss: 0.359712
batch: 63 Training Loss: 0.362269
batch: 64 Training Loss: 0.368658
batch: 65 Training Loss: 0.366027
batch: 66 Training Loss: 0.363983
batch: 67 Training Loss: 0.363414
batch: 68 Training Loss: 0.365432
batch: 69 Training Loss: 0.367444
batch: 70 Training Loss: 0.365519
batch: 71 Training Loss: 0.363615
batch: 72 Training Loss: 0.366406
batch: 73 Training Loss: 0.368517
batch: 74 Training Loss: 0.372901
batch: 75 Training Loss: 0.374810
batch: 76 Training Loss: 0.373149
batch: 77 Training Loss: 0.373891
batch: 78 Training Loss: 0.371410
batch: 79 Training Loss: 0.370761
batch: 80 Training Loss: 0.369598
batch: 81 Training Loss: 0.373610
batch: 82 Training Loss: 0.373395
batch: 83 Training Loss: 0.371938
batch: 84 Training Loss: 0.372890
batch: 85 Training Loss: 0.373986
batch: 86 Training Loss: 0.372346
batch: 87 Training Loss: 0.373792
batch: 88 Training Loss: 0.375596
batch: 89 Training Loss: 0.375987
batch: 90 Training Loss: 0.376146
batch: 91 Training Loss: 0.377509
batch: 92 Training Loss: 0.376132
batch: 93 Training Loss: 0.375536
batch: 94 Training Loss: 0.376638
batch: 95 Training Loss: 0.375859
batch: 96 Training Loss: 0.377004
batch: 97 Training Loss: 0.378451
batch: 98 Training Loss: 0.380013
batch: 99 Training Loss: 0.381643
batch: 100 Training Loss: 0.380175
batch: 101 Training Loss: 0.381367

batch: 102 Training Loss: 0.383645
batch: 103 Training Loss: 0.384880
batch: 104 Training Loss: 0.387250
batch: 105 Training Loss: 0.385658
batch: 106 Training Loss: 0.385031
batch: 107 Training Loss: 0.383205
batch: 108 Training Loss: 0.383927
batch: 109 Training Loss: 0.382218
batch: 110 Training Loss: 0.380802
batch: 111 Training Loss: 0.379073
batch: 112 Training Loss: 0.377436
batch: 113 Training Loss: 0.376289
batch: 114 Training Loss: 0.376801
batch: 115 Training Loss: 0.375568
batch: 116 Training Loss: 0.378117
batch: 117 Training Loss: 0.376328
batch: 118 Training Loss: 0.375440
batch: 119 Training Loss: 0.376352
batch: 120 Training Loss: 0.375946
batch: 121 Training Loss: 0.375745
batch: 122 Training Loss: 0.374992
batch: 123 Training Loss: 0.374225
batch: 124 Training Loss: 0.374502
batch: 125 Training Loss: 0.373714
batch: 126 Training Loss: 0.374131
batch: 127 Training Loss: 0.374621
batch: 128 Training Loss: 0.375477
batch: 129 Training Loss: 0.374639
batch: 130 Training Loss: 0.375226
batch: 131 Training Loss: 0.375027
batch: 132 Training Loss: 0.375768
batch: 133 Training Loss: 0.377780
batch: 134 Training Loss: 0.379073
batch: 135 Training Loss: 0.379525
batch: 136 Training Loss: 0.379764
batch: 137 Training Loss: 0.379741
batch: 138 Training Loss: 0.379832
batch: 139 Training Loss: 0.380662
batch: 140 Training Loss: 0.380237
batch: 141 Training Loss: 0.380602
batch: 142 Training Loss: 0.380257
batch: 143 Training Loss: 0.379173
batch: 144 Training Loss: 0.377308
batch: 145 Training Loss: 0.376067
batch: 146 Training Loss: 0.374900
batch: 147 Training Loss: 0.377477
batch: 148 Training Loss: 0.376129
batch: 149 Training Loss: 0.377328
batch: 150 Training Loss: 0.378097
batch: 151 Training Loss: 0.378404
batch: 152 Training Loss: 0.377070
batch: 153 Training Loss: 0.376968
batch: 154 Training Loss: 0.378505
batch: 155 Training Loss: 0.376831
batch: 156 Training Loss: 0.377189
batch: 157 Training Loss: 0.377953
batch: 158 Training Loss: 0.377247
batch: 159 Training Loss: 0.377296
batch: 160 Training Loss: 0.378553
batch: 161 Training Loss: 0.378900
batch: 162 Training Loss: 0.378897
batch: 163 Training Loss: 0.377496
batch: 164 Training Loss: 0.380789
batch: 165 Training Loss: 0.381067
batch: 166 Training Loss: 0.381517
batch: 167 Training Loss: 0.381238
batch: 168 Training Loss: 0.381410
batch: 169 Training Loss: 0.383225
batch: 170 Training Loss: 0.384482
batch: 171 Training Loss: 0.384031
batch: 172 Training Loss: 0.384843
batch: 173 Training Loss: 0.385775
batch: 174 Training Loss: 0.385335
batch: 175 Training Loss: 0.387065
batch: 176 Training Loss: 0.387540
batch: 177 Training Loss: 0.386863
batch: 178 Training Loss: 0.386030
batch: 179 Training Loss: 0.385087
batch: 180 Training Loss: 0.385770
batch: 181 Training Loss: 0.385628
batch: 182 Training Loss: 0.386794
batch: 183 Training Loss: 0.388638
batch: 184 Training Loss: 0.389608
batch: 185 Training Loss: 0.390655
batch: 186 Training Loss: 0.389585
batch: 187 Training Loss: 0.389348
batch: 188 Training Loss: 0.389783
batch: 189 Training Loss: 0.389124
batch: 190 Training Loss: 0.389588
batch: 191 Training Loss: 0.389822
batch: 192 Training Loss: 0.393279

batch: 193 Training Loss: 0.392545
batch: 194 Training Loss: 0.391948
batch: 195 Training Loss: 0.391083
batch: 196 Training Loss: 0.391426
batch: 197 Training Loss: 0.390414
batch: 198 Training Loss: 0.389888
batch: 199 Training Loss: 0.390721
batch: 200 Training Loss: 0.391341
batch: 201 Training Loss: 0.390401
batch: 202 Training Loss: 0.390225
batch: 203 Training Loss: 0.390772
batch: 204 Training Loss: 0.389914
batch: 205 Training Loss: 0.389650
batch: 206 Training Loss: 0.390236
batch: 207 Training Loss: 0.391475
batch: 208 Training Loss: 0.390699
Epoch: 33 Training Loss: 0.390699 Validation Loss: 1.160673
batch: 0 Training Loss: 0.678670
batch: 1 Training Loss: 0.499175
batch: 2 Training Loss: 0.475423
batch: 3 Training Loss: 0.417745
batch: 4 Training Loss: 0.382529
batch: 5 Training Loss: 0.402337
batch: 6 Training Loss: 0.409604
batch: 7 Training Loss: 0.399035
batch: 8 Training Loss: 0.408675
batch: 9 Training Loss: 0.409483
batch: 10 Training Loss: 0.408935
batch: 11 Training Loss: 0.396765
batch: 12 Training Loss: 0.384369
batch: 13 Training Loss: 0.391012
batch: 14 Training Loss: 0.394025
batch: 15 Training Loss: 0.407155
batch: 16 Training Loss: 0.401485
batch: 17 Training Loss: 0.389014
batch: 18 Training Loss: 0.380524
batch: 19 Training Loss: 0.369027
batch: 20 Training Loss: 0.359189
batch: 21 Training Loss: 0.370987
batch: 22 Training Loss: 0.375674
batch: 23 Training Loss: 0.377250
batch: 24 Training Loss: 0.375690
batch: 25 Training Loss: 0.374245
batch: 26 Training Loss: 0.379096
batch: 27 Training Loss: 0.377006
batch: 28 Training Loss: 0.369211
batch: 29 Training Loss: 0.360319
batch: 30 Training Loss: 0.350622
batch: 31 Training Loss: 0.348288
batch: 32 Training Loss: 0.349521
batch: 33 Training Loss: 0.346465
batch: 34 Training Loss: 0.344630
batch: 35 Training Loss: 0.346291
batch: 36 Training Loss: 0.339059
batch: 37 Training Loss: 0.337334
batch: 38 Training Loss: 0.332736
batch: 39 Training Loss: 0.340770
batch: 40 Training Loss: 0.340133
batch: 41 Training Loss: 0.340504
batch: 42 Training Loss: 0.337552
batch: 43 Training Loss: 0.340766
batch: 44 Training Loss: 0.344449
batch: 45 Training Loss: 0.341795
batch: 46 Training Loss: 0.343268
batch: 47 Training Loss: 0.346735
batch: 48 Training Loss: 0.342515
batch: 49 Training Loss: 0.345182
batch: 50 Training Loss: 0.343307
batch: 51 Training Loss: 0.348649
batch: 52 Training Loss: 0.352445
batch: 53 Training Loss: 0.350757
batch: 54 Training Loss: 0.349105
batch: 55 Training Loss: 0.352865
batch: 56 Training Loss: 0.358182
batch: 57 Training Loss: 0.365018
batch: 58 Training Loss: 0.366371
batch: 59 Training Loss: 0.362025
batch: 60 Training Loss: 0.366529
batch: 61 Training Loss: 0.365629
batch: 62 Training Loss: 0.362637
batch: 63 Training Loss: 0.359261
batch: 64 Training Loss: 0.363152
batch: 65 Training Loss: 0.364225
batch: 66 Training Loss: 0.362291
batch: 67 Training Loss: 0.360865
batch: 68 Training Loss: 0.360793
batch: 69 Training Loss: 0.362579
batch: 70 Training Loss: 0.365633
batch: 71 Training Loss: 0.366065
batch: 72 Training Loss: 0.366974
batch: 73 Training Loss: 0.369929

batch: 74 Training Loss: 0.367227
batch: 75 Training Loss: 0.364303
batch: 76 Training Loss: 0.366910
batch: 77 Training Loss: 0.366945
batch: 78 Training Loss: 0.367742
batch: 79 Training Loss: 0.367286
batch: 80 Training Loss: 0.366457
batch: 81 Training Loss: 0.367288
batch: 82 Training Loss: 0.365756
batch: 83 Training Loss: 0.365264
batch: 84 Training Loss: 0.364788
batch: 85 Training Loss: 0.363707
batch: 86 Training Loss: 0.364544
batch: 87 Training Loss: 0.363509
batch: 88 Training Loss: 0.362354
batch: 89 Training Loss: 0.360911
batch: 90 Training Loss: 0.359264
batch: 91 Training Loss: 0.361871
batch: 92 Training Loss: 0.364087
batch: 93 Training Loss: 0.361086
batch: 94 Training Loss: 0.359611
batch: 95 Training Loss: 0.360940
batch: 96 Training Loss: 0.362162
batch: 97 Training Loss: 0.360705
batch: 98 Training Loss: 0.359540
batch: 99 Training Loss: 0.357825
batch: 100 Training Loss: 0.362058
batch: 101 Training Loss: 0.363810
batch: 102 Training Loss: 0.362350
batch: 103 Training Loss: 0.360034
batch: 104 Training Loss: 0.357464
batch: 105 Training Loss: 0.355800
batch: 106 Training Loss: 0.355297
batch: 107 Training Loss: 0.353989
batch: 108 Training Loss: 0.354029
batch: 109 Training Loss: 0.353642
batch: 110 Training Loss: 0.352774
batch: 111 Training Loss: 0.352336
batch: 112 Training Loss: 0.351000
batch: 113 Training Loss: 0.349719
batch: 114 Training Loss: 0.351693
batch: 115 Training Loss: 0.351715
batch: 116 Training Loss: 0.351079
batch: 117 Training Loss: 0.348775
batch: 118 Training Loss: 0.349979
batch: 119 Training Loss: 0.348606
batch: 120 Training Loss: 0.348331
batch: 121 Training Loss: 0.349175
batch: 122 Training Loss: 0.350298
batch: 123 Training Loss: 0.351289
batch: 124 Training Loss: 0.350639
batch: 125 Training Loss: 0.350198
batch: 126 Training Loss: 0.349165
batch: 127 Training Loss: 0.350441
batch: 128 Training Loss: 0.349847
batch: 129 Training Loss: 0.352265
batch: 130 Training Loss: 0.352956
batch: 131 Training Loss: 0.353098
batch: 132 Training Loss: 0.352967
batch: 133 Training Loss: 0.352919
batch: 134 Training Loss: 0.355103
batch: 135 Training Loss: 0.355232
batch: 136 Training Loss: 0.355080
batch: 137 Training Loss: 0.354658
batch: 138 Training Loss: 0.354418
batch: 139 Training Loss: 0.352450
batch: 140 Training Loss: 0.353616
batch: 141 Training Loss: 0.354288
batch: 142 Training Loss: 0.353063
batch: 143 Training Loss: 0.351833
batch: 144 Training Loss: 0.351121
batch: 145 Training Loss: 0.352125
batch: 146 Training Loss: 0.350797
batch: 147 Training Loss: 0.352066
batch: 148 Training Loss: 0.352210
batch: 149 Training Loss: 0.351271
batch: 150 Training Loss: 0.350412
batch: 151 Training Loss: 0.349278
batch: 152 Training Loss: 0.348663
batch: 153 Training Loss: 0.348061
batch: 154 Training Loss: 0.349939
batch: 155 Training Loss: 0.351164
batch: 156 Training Loss: 0.351575
batch: 157 Training Loss: 0.351097
batch: 158 Training Loss: 0.351778
batch: 159 Training Loss: 0.354010
batch: 160 Training Loss: 0.355020
batch: 161 Training Loss: 0.354028
batch: 162 Training Loss: 0.353194
batch: 163 Training Loss: 0.352570
batch: 164 Training Loss: 0.353281

batch: 165 Training Loss: 0.353817
batch: 166 Training Loss: 0.353189
batch: 167 Training Loss: 0.354251
batch: 168 Training Loss: 0.353945
batch: 169 Training Loss: 0.353972
batch: 170 Training Loss: 0.355448
batch: 171 Training Loss: 0.354419
batch: 172 Training Loss: 0.355415
batch: 173 Training Loss: 0.354894
batch: 174 Training Loss: 0.357073
batch: 175 Training Loss: 0.356342
batch: 176 Training Loss: 0.356576
batch: 177 Training Loss: 0.355987
batch: 178 Training Loss: 0.356017
batch: 179 Training Loss: 0.357765
batch: 180 Training Loss: 0.359090
batch: 181 Training Loss: 0.359189
batch: 182 Training Loss: 0.359678
batch: 183 Training Loss: 0.359859
batch: 184 Training Loss: 0.360173
batch: 185 Training Loss: 0.361482
batch: 186 Training Loss: 0.362309
batch: 187 Training Loss: 0.362766
batch: 188 Training Loss: 0.362524
batch: 189 Training Loss: 0.363085
batch: 190 Training Loss: 0.363376
batch: 191 Training Loss: 0.364225
batch: 192 Training Loss: 0.364487
batch: 193 Training Loss: 0.365155
batch: 194 Training Loss: 0.364969
batch: 195 Training Loss: 0.364323
batch: 196 Training Loss: 0.363747
batch: 197 Training Loss: 0.365795
batch: 198 Training Loss: 0.365409
batch: 199 Training Loss: 0.364408
batch: 200 Training Loss: 0.363283
batch: 201 Training Loss: 0.363421
batch: 202 Training Loss: 0.363217
batch: 203 Training Loss: 0.363400
batch: 204 Training Loss: 0.364414
batch: 205 Training Loss: 0.363429
batch: 206 Training Loss: 0.365194
batch: 207 Training Loss: 0.365661
batch: 208 Training Loss: 0.366650
Epoch: 34 Training Loss: 0.366650 Validation Loss: 1.186343
batch: 0 Training Loss: 0.396397
batch: 1 Training Loss: 0.344630
batch: 2 Training Loss: 0.293290
batch: 3 Training Loss: 0.317557
batch: 4 Training Loss: 0.307826
batch: 5 Training Loss: 0.277345
batch: 6 Training Loss: 0.268130
batch: 7 Training Loss: 0.259557
batch: 8 Training Loss: 0.283277
batch: 9 Training Loss: 0.271153
batch: 10 Training Loss: 0.263724
batch: 11 Training Loss: 0.263855
batch: 12 Training Loss: 0.266423
batch: 13 Training Loss: 0.266534
batch: 14 Training Loss: 0.278443
batch: 15 Training Loss: 0.282291
batch: 16 Training Loss: 0.298128
batch: 17 Training Loss: 0.291855
batch: 18 Training Loss: 0.280908
batch: 19 Training Loss: 0.304516
batch: 20 Training Loss: 0.307223
batch: 21 Training Loss: 0.299387
batch: 22 Training Loss: 0.298852
batch: 23 Training Loss: 0.291487
batch: 24 Training Loss: 0.299989
batch: 25 Training Loss: 0.296112
batch: 26 Training Loss: 0.293423
batch: 27 Training Loss: 0.306414
batch: 28 Training Loss: 0.303557
batch: 29 Training Loss: 0.304865
batch: 30 Training Loss: 0.308346
batch: 31 Training Loss: 0.304163
batch: 32 Training Loss: 0.299633
batch: 33 Training Loss: 0.303769
batch: 34 Training Loss: 0.303470
batch: 35 Training Loss: 0.301220
batch: 36 Training Loss: 0.298511
batch: 37 Training Loss: 0.297268
batch: 38 Training Loss: 0.297030
batch: 39 Training Loss: 0.304447
batch: 40 Training Loss: 0.302404
batch: 41 Training Loss: 0.300433
batch: 42 Training Loss: 0.306434
batch: 43 Training Loss: 0.312805
batch: 44 Training Loss: 0.317230
batch: 45 Training Loss: 0.316086

batch: 46 Training Loss: 0.315608
batch: 47 Training Loss: 0.314851
batch: 48 Training Loss: 0.313675
batch: 49 Training Loss: 0.314951
batch: 50 Training Loss: 0.314375
batch: 51 Training Loss: 0.312281
batch: 52 Training Loss: 0.311384
batch: 53 Training Loss: 0.313282
batch: 54 Training Loss: 0.312677
batch: 55 Training Loss: 0.313902
batch: 56 Training Loss: 0.309383
batch: 57 Training Loss: 0.308925
batch: 58 Training Loss: 0.310051
batch: 59 Training Loss: 0.308561
batch: 60 Training Loss: 0.309143
batch: 61 Training Loss: 0.314307
batch: 62 Training Loss: 0.315566
batch: 63 Training Loss: 0.317390
batch: 64 Training Loss: 0.316641
batch: 65 Training Loss: 0.315980
batch: 66 Training Loss: 0.313463
batch: 67 Training Loss: 0.320436
batch: 68 Training Loss: 0.322107
batch: 69 Training Loss: 0.322441
batch: 70 Training Loss: 0.320505
batch: 71 Training Loss: 0.319424
batch: 72 Training Loss: 0.319610
batch: 73 Training Loss: 0.319011
batch: 74 Training Loss: 0.323100
batch: 75 Training Loss: 0.320520
batch: 76 Training Loss: 0.320024
batch: 77 Training Loss: 0.320558
batch: 78 Training Loss: 0.321173
batch: 79 Training Loss: 0.319793
batch: 80 Training Loss: 0.318648
batch: 81 Training Loss: 0.322068
batch: 82 Training Loss: 0.322337
batch: 83 Training Loss: 0.328597
batch: 84 Training Loss: 0.327783
batch: 85 Training Loss: 0.327950
batch: 86 Training Loss: 0.328274
batch: 87 Training Loss: 0.325161
batch: 88 Training Loss: 0.326182
batch: 89 Training Loss: 0.326828
batch: 90 Training Loss: 0.329120
batch: 91 Training Loss: 0.333386
batch: 92 Training Loss: 0.331638
batch: 93 Training Loss: 0.330911
batch: 94 Training Loss: 0.330361
batch: 95 Training Loss: 0.332607
batch: 96 Training Loss: 0.333745
batch: 97 Training Loss: 0.333711
batch: 98 Training Loss: 0.334014
batch: 99 Training Loss: 0.334544
batch: 100 Training Loss: 0.332088
batch: 101 Training Loss: 0.330729
batch: 102 Training Loss: 0.329146
batch: 103 Training Loss: 0.334686
batch: 104 Training Loss: 0.332341
batch: 105 Training Loss: 0.330856
batch: 106 Training Loss: 0.330119
batch: 107 Training Loss: 0.330054
batch: 108 Training Loss: 0.330048
batch: 109 Training Loss: 0.331571
batch: 110 Training Loss: 0.329329
batch: 111 Training Loss: 0.329155
batch: 112 Training Loss: 0.328326
batch: 113 Training Loss: 0.329993
batch: 114 Training Loss: 0.328406
batch: 115 Training Loss: 0.326582
batch: 116 Training Loss: 0.327839
batch: 117 Training Loss: 0.326742
batch: 118 Training Loss: 0.326230
batch: 119 Training Loss: 0.327373
batch: 120 Training Loss: 0.331839
batch: 121 Training Loss: 0.330492
batch: 122 Training Loss: 0.331553
batch: 123 Training Loss: 0.333525
batch: 124 Training Loss: 0.332820
batch: 125 Training Loss: 0.332454
batch: 126 Training Loss: 0.333497
batch: 127 Training Loss: 0.336766
batch: 128 Training Loss: 0.339587
batch: 129 Training Loss: 0.339827
batch: 130 Training Loss: 0.340993
batch: 131 Training Loss: 0.341309
batch: 132 Training Loss: 0.341252
batch: 133 Training Loss: 0.340580
batch: 134 Training Loss: 0.339492
batch: 135 Training Loss: 0.341641
batch: 136 Training Loss: 0.341933
... --

batch: 137 Training Loss: 0.341001
batch: 138 Training Loss: 0.342823
batch: 139 Training Loss: 0.342803
batch: 140 Training Loss: 0.343757
batch: 141 Training Loss: 0.345793
batch: 142 Training Loss: 0.344948
batch: 143 Training Loss: 0.347129
batch: 144 Training Loss: 0.347605
batch: 145 Training Loss: 0.349147
batch: 146 Training Loss: 0.349253
batch: 147 Training Loss: 0.349267
batch: 148 Training Loss: 0.348291
batch: 149 Training Loss: 0.347382
batch: 150 Training Loss: 0.347698
batch: 151 Training Loss: 0.346379
batch: 152 Training Loss: 0.346949
batch: 153 Training Loss: 0.348724
batch: 154 Training Loss: 0.349112
batch: 155 Training Loss: 0.348801
batch: 156 Training Loss: 0.349192
batch: 157 Training Loss: 0.350989
batch: 158 Training Loss: 0.353917
batch: 159 Training Loss: 0.352316
batch: 160 Training Loss: 0.351257
batch: 161 Training Loss: 0.350091
batch: 162 Training Loss: 0.353812
batch: 163 Training Loss: 0.352748
batch: 164 Training Loss: 0.351874
batch: 165 Training Loss: 0.353299
batch: 166 Training Loss: 0.353725
batch: 167 Training Loss: 0.352180
batch: 168 Training Loss: 0.352536
batch: 169 Training Loss: 0.354261
batch: 170 Training Loss: 0.354411
batch: 171 Training Loss: 0.353458
batch: 172 Training Loss: 0.355278
batch: 173 Training Loss: 0.353901
batch: 174 Training Loss: 0.354517
batch: 175 Training Loss: 0.353850
batch: 176 Training Loss: 0.354511
batch: 177 Training Loss: 0.354273
batch: 178 Training Loss: 0.354220
batch: 179 Training Loss: 0.354972
batch: 180 Training Loss: 0.354746
batch: 181 Training Loss: 0.354169
batch: 182 Training Loss: 0.353629
batch: 183 Training Loss: 0.355230
batch: 184 Training Loss: 0.355653
batch: 185 Training Loss: 0.356158
batch: 186 Training Loss: 0.355845
batch: 187 Training Loss: 0.355648
batch: 188 Training Loss: 0.356527
batch: 189 Training Loss: 0.356594
batch: 190 Training Loss: 0.356293
batch: 191 Training Loss: 0.355628
batch: 192 Training Loss: 0.355835
batch: 193 Training Loss: 0.355924
batch: 194 Training Loss: 0.355143
batch: 195 Training Loss: 0.355662
batch: 196 Training Loss: 0.358700
batch: 197 Training Loss: 0.358417
batch: 198 Training Loss: 0.359465
batch: 199 Training Loss: 0.359154
batch: 200 Training Loss: 0.359003
batch: 201 Training Loss: 0.359314
batch: 202 Training Loss: 0.358865
batch: 203 Training Loss: 0.359363
batch: 204 Training Loss: 0.358931
batch: 205 Training Loss: 0.358327
batch: 206 Training Loss: 0.360662
batch: 207 Training Loss: 0.360787
batch: 208 Training Loss: 0.360542
Epoch: 35 Training Loss: 0.360542 Validation Loss: 1.190261
batch: 0 Training Loss: 0.264143
batch: 1 Training Loss: 0.254218
batch: 2 Training Loss: 0.217189
batch: 3 Training Loss: 0.320373
batch: 4 Training Loss: 0.346254
batch: 5 Training Loss: 0.388506
batch: 6 Training Loss: 0.351920
batch: 7 Training Loss: 0.351880
batch: 8 Training Loss: 0.349096
batch: 9 Training Loss: 0.369347
batch: 10 Training Loss: 0.354713
batch: 11 Training Loss: 0.358367
batch: 12 Training Loss: 0.359077
batch: 13 Training Loss: 0.351683
batch: 14 Training Loss: 0.343055
batch: 15 Training Loss: 0.359614
batch: 16 Training Loss: 0.351997
batch: 17 Training Loss: 0.348503
batch: 18 Training Loss: 0.376212

```
batch: 18      Training Loss: 0.36212
batch: 19      Training Loss: 0.366849
batch: 20      Training Loss: 0.370169
batch: 21      Training Loss: 0.364346
batch: 22      Training Loss: 0.366194
batch: 23      Training Loss: 0.369611
batch: 24      Training Loss: 0.364841
batch: 25      Training Loss: 0.360147
batch: 26      Training Loss: 0.365185
batch: 27      Training Loss: 0.378209
batch: 28      Training Loss: 0.379418
batch: 29      Training Loss: 0.381522
batch: 30      Training Loss: 0.374453
batch: 31      Training Loss: 0.371397
batch: 32      Training Loss: 0.370290
batch: 33      Training Loss: 0.373421
batch: 34      Training Loss: 0.371058
batch: 35      Training Loss: 0.366164
batch: 36      Training Loss: 0.366878
batch: 37      Training Loss: 0.363542
batch: 38      Training Loss: 0.366134
batch: 39      Training Loss: 0.370615
batch: 40      Training Loss: 0.366288
batch: 41      Training Loss: 0.371506
batch: 42      Training Loss: 0.370904
batch: 43      Training Loss: 0.374544
batch: 44      Training Loss: 0.376738
batch: 45      Training Loss: 0.380981
batch: 46      Training Loss: 0.378386
batch: 47      Training Loss: 0.378634
batch: 48      Training Loss: 0.379597
batch: 49      Training Loss: 0.376125
batch: 50      Training Loss: 0.377825
batch: 51      Training Loss: 0.378298
batch: 52      Training Loss: 0.375471
batch: 53      Training Loss: 0.374532
batch: 54      Training Loss: 0.369711
batch: 55      Training Loss: 0.370895
batch: 56      Training Loss: 0.370057
batch: 57      Training Loss: 0.367183
batch: 58      Training Loss: 0.367254
batch: 59      Training Loss: 0.365095
batch: 60      Training Loss: 0.363305
batch: 61      Training Loss: 0.371952
batch: 62      Training Loss: 0.371407
batch: 63      Training Loss: 0.370871
batch: 64      Training Loss: 0.369565
batch: 65      Training Loss: 0.367046
batch: 66      Training Loss: 0.364410
batch: 67      Training Loss: 0.365193
batch: 68      Training Loss: 0.367667
batch: 69      Training Loss: 0.365392
batch: 70      Training Loss: 0.367283
batch: 71      Training Loss: 0.366780
batch: 72      Training Loss: 0.364785
batch: 73      Training Loss: 0.366559
batch: 74      Training Loss: 0.370764
batch: 75      Training Loss: 0.370215
batch: 76      Training Loss: 0.373411
batch: 77      Training Loss: 0.372918
batch: 78      Training Loss: 0.370782
batch: 79      Training Loss: 0.367653
batch: 80      Training Loss: 0.366912
batch: 81      Training Loss: 0.370592
batch: 82      Training Loss: 0.370595
batch: 83      Training Loss: 0.369273
batch: 84      Training Loss: 0.374068
batch: 85      Training Loss: 0.371933
batch: 86      Training Loss: 0.375215
batch: 87      Training Loss: 0.374102
batch: 88      Training Loss: 0.371439
batch: 89      Training Loss: 0.371052
batch: 90      Training Loss: 0.369469
batch: 91      Training Loss: 0.368820
batch: 92      Training Loss: 0.367981
batch: 93      Training Loss: 0.370139
batch: 94      Training Loss: 0.370350
batch: 95      Training Loss: 0.368827
batch: 96      Training Loss: 0.368072
batch: 97      Training Loss: 0.368840
batch: 98      Training Loss: 0.369858
batch: 99      Training Loss: 0.367546
batch: 100     Training Loss: 0.365676
batch: 101     Training Loss: 0.363084
batch: 102     Training Loss: 0.362210
batch: 103     Training Loss: 0.361726
batch: 104     Training Loss: 0.361488
batch: 105     Training Loss: 0.359821
batch: 106     Training Loss: 0.358742
batch: 107     Training Loss: 0.358435
batch: 108     Training Loss: 0.358084
batch: 109     Training Loss: 0.358084
```

batch: 109 Training Loss: 0.358598
batch: 110 Training Loss: 0.360885
batch: 111 Training Loss: 0.361550
batch: 112 Training Loss: 0.363262
batch: 113 Training Loss: 0.365014
batch: 114 Training Loss: 0.364267
batch: 115 Training Loss: 0.363102
batch: 116 Training Loss: 0.362607
batch: 117 Training Loss: 0.361600
batch: 118 Training Loss: 0.362145
batch: 119 Training Loss: 0.361921
batch: 120 Training Loss: 0.363065
batch: 121 Training Loss: 0.361688
batch: 122 Training Loss: 0.359705
batch: 123 Training Loss: 0.358928
batch: 124 Training Loss: 0.360031
batch: 125 Training Loss: 0.358362
batch: 126 Training Loss: 0.357688
batch: 127 Training Loss: 0.358360
batch: 128 Training Loss: 0.357619
batch: 129 Training Loss: 0.357428
batch: 130 Training Loss: 0.356848
batch: 131 Training Loss: 0.356911
batch: 132 Training Loss: 0.358838
batch: 133 Training Loss: 0.357561
batch: 134 Training Loss: 0.356930
batch: 135 Training Loss: 0.355620
batch: 136 Training Loss: 0.354731
batch: 137 Training Loss: 0.355506
batch: 138 Training Loss: 0.355365
batch: 139 Training Loss: 0.354102
batch: 140 Training Loss: 0.353300
batch: 141 Training Loss: 0.353453
batch: 142 Training Loss: 0.352628
batch: 143 Training Loss: 0.351859
batch: 144 Training Loss: 0.354502
batch: 145 Training Loss: 0.353997
batch: 146 Training Loss: 0.352925
batch: 147 Training Loss: 0.354383
batch: 148 Training Loss: 0.356024
batch: 149 Training Loss: 0.355168
batch: 150 Training Loss: 0.353897
batch: 151 Training Loss: 0.354770
batch: 152 Training Loss: 0.354710
batch: 153 Training Loss: 0.354893
batch: 154 Training Loss: 0.354640
batch: 155 Training Loss: 0.354439
batch: 156 Training Loss: 0.353322
batch: 157 Training Loss: 0.352629
batch: 158 Training Loss: 0.351898
batch: 159 Training Loss: 0.351878
batch: 160 Training Loss: 0.350601
batch: 161 Training Loss: 0.349867
batch: 162 Training Loss: 0.348409
batch: 163 Training Loss: 0.347685
batch: 164 Training Loss: 0.347384
batch: 165 Training Loss: 0.347701
batch: 166 Training Loss: 0.347148
batch: 167 Training Loss: 0.346310
batch: 168 Training Loss: 0.347281
batch: 169 Training Loss: 0.346634
batch: 170 Training Loss: 0.348320
batch: 171 Training Loss: 0.348714
batch: 172 Training Loss: 0.348665
batch: 173 Training Loss: 0.348316
batch: 174 Training Loss: 0.347319
batch: 175 Training Loss: 0.347160
batch: 176 Training Loss: 0.347869
batch: 177 Training Loss: 0.347266
batch: 178 Training Loss: 0.347257
batch: 179 Training Loss: 0.347319
batch: 180 Training Loss: 0.346750
batch: 181 Training Loss: 0.346027
batch: 182 Training Loss: 0.346921
batch: 183 Training Loss: 0.346992
batch: 184 Training Loss: 0.348062
batch: 185 Training Loss: 0.347444
batch: 186 Training Loss: 0.347739
batch: 187 Training Loss: 0.347750
batch: 188 Training Loss: 0.346851
batch: 189 Training Loss: 0.346891
batch: 190 Training Loss: 0.348389
batch: 191 Training Loss: 0.349506
batch: 192 Training Loss: 0.348747
batch: 193 Training Loss: 0.348604
batch: 194 Training Loss: 0.347783
batch: 195 Training Loss: 0.348265
batch: 196 Training Loss: 0.349504
batch: 197 Training Loss: 0.349941
batch: 198 Training Loss: 0.349877
batch: 199 Training Loss: 0.349542
batch: 200 Training Loss: 0.350000

batch: 200 Training Loss: 0.349948
batch: 201 Training Loss: 0.349798
batch: 202 Training Loss: 0.349082
batch: 203 Training Loss: 0.348454
batch: 204 Training Loss: 0.349259
batch: 205 Training Loss: 0.348875
batch: 206 Training Loss: 0.349198
batch: 207 Training Loss: 0.350231
batch: 208 Training Loss: 0.349948
Epoch: 36 Training Loss: 0.349948 Validation Loss: 1.094707
batch: 0 Training Loss: 0.599517
batch: 1 Training Loss: 0.479217
batch: 2 Training Loss: 0.430829
batch: 3 Training Loss: 0.402406
batch: 4 Training Loss: 0.381384
batch: 5 Training Loss: 0.384835
batch: 6 Training Loss: 0.364794
batch: 7 Training Loss: 0.350248
batch: 8 Training Loss: 0.319381
batch: 9 Training Loss: 0.311385
batch: 10 Training Loss: 0.317054
batch: 11 Training Loss: 0.331814
batch: 12 Training Loss: 0.353194
batch: 13 Training Loss: 0.346793
batch: 14 Training Loss: 0.339573
batch: 15 Training Loss: 0.352563
batch: 16 Training Loss: 0.347773
batch: 17 Training Loss: 0.337402
batch: 18 Training Loss: 0.335471
batch: 19 Training Loss: 0.344265
batch: 20 Training Loss: 0.342642
batch: 21 Training Loss: 0.352464
batch: 22 Training Loss: 0.358216
batch: 23 Training Loss: 0.353084
batch: 24 Training Loss: 0.342221
batch: 25 Training Loss: 0.337496
batch: 26 Training Loss: 0.332171
batch: 27 Training Loss: 0.329737
batch: 28 Training Loss: 0.330519
batch: 29 Training Loss: 0.325384
batch: 30 Training Loss: 0.323702
batch: 31 Training Loss: 0.316679
batch: 32 Training Loss: 0.320325
batch: 33 Training Loss: 0.320646
batch: 34 Training Loss: 0.320106
batch: 35 Training Loss: 0.316347
batch: 36 Training Loss: 0.309661
batch: 37 Training Loss: 0.311778
batch: 38 Training Loss: 0.309307
batch: 39 Training Loss: 0.310133
batch: 40 Training Loss: 0.305708
batch: 41 Training Loss: 0.303879
batch: 42 Training Loss: 0.299873
batch: 43 Training Loss: 0.298520
batch: 44 Training Loss: 0.300629
batch: 45 Training Loss: 0.302838
batch: 46 Training Loss: 0.305362
batch: 47 Training Loss: 0.302011
batch: 48 Training Loss: 0.301309
batch: 49 Training Loss: 0.299476
batch: 50 Training Loss: 0.298020
batch: 51 Training Loss: 0.299767
batch: 52 Training Loss: 0.300006
batch: 53 Training Loss: 0.297015
batch: 54 Training Loss: 0.299006
batch: 55 Training Loss: 0.299735
batch: 56 Training Loss: 0.299562
batch: 57 Training Loss: 0.299555
batch: 58 Training Loss: 0.301337
batch: 59 Training Loss: 0.302891
batch: 60 Training Loss: 0.301257
batch: 61 Training Loss: 0.302318
batch: 62 Training Loss: 0.303438
batch: 63 Training Loss: 0.301326
batch: 64 Training Loss: 0.297899
batch: 65 Training Loss: 0.301974
batch: 66 Training Loss: 0.306126
batch: 67 Training Loss: 0.303210
batch: 68 Training Loss: 0.304364
batch: 69 Training Loss: 0.303483
batch: 70 Training Loss: 0.307471
batch: 71 Training Loss: 0.305473
batch: 72 Training Loss: 0.302872
batch: 73 Training Loss: 0.307234
batch: 74 Training Loss: 0.309529
batch: 75 Training Loss: 0.307274
batch: 76 Training Loss: 0.310040
batch: 77 Training Loss: 0.309106
batch: 78 Training Loss: 0.311634
batch: 79 Training Loss: 0.309906
batch: 80 Training Loss: 0.308762
batch: 81 Training Loss: 0.310679

batch: 01 Training Loss: 0.310002
batch: 82 Training Loss: 0.311137
batch: 83 Training Loss: 0.310004
batch: 84 Training Loss: 0.310149
batch: 85 Training Loss: 0.311604
batch: 86 Training Loss: 0.311077
batch: 87 Training Loss: 0.311264
batch: 88 Training Loss: 0.312165
batch: 89 Training Loss: 0.316602
batch: 90 Training Loss: 0.317469
batch: 91 Training Loss: 0.322357
batch: 92 Training Loss: 0.320616
batch: 93 Training Loss: 0.319687
batch: 94 Training Loss: 0.321399
batch: 95 Training Loss: 0.322798
batch: 96 Training Loss: 0.323327
batch: 97 Training Loss: 0.324102
batch: 98 Training Loss: 0.324916
batch: 99 Training Loss: 0.325146
batch: 100 Training Loss: 0.324214
batch: 101 Training Loss: 0.323268
batch: 102 Training Loss: 0.322620
batch: 103 Training Loss: 0.320778
batch: 104 Training Loss: 0.321070
batch: 105 Training Loss: 0.319903
batch: 106 Training Loss: 0.321835
batch: 107 Training Loss: 0.322303
batch: 108 Training Loss: 0.322866
batch: 109 Training Loss: 0.322298
batch: 110 Training Loss: 0.320958
batch: 111 Training Loss: 0.321325
batch: 112 Training Loss: 0.320332
batch: 113 Training Loss: 0.320699
batch: 114 Training Loss: 0.318710
batch: 115 Training Loss: 0.321165
batch: 116 Training Loss: 0.320096
batch: 117 Training Loss: 0.320480
batch: 118 Training Loss: 0.319279
batch: 119 Training Loss: 0.319000
batch: 120 Training Loss: 0.318541
batch: 121 Training Loss: 0.320017
batch: 122 Training Loss: 0.320822
batch: 123 Training Loss: 0.320925
batch: 124 Training Loss: 0.323472
batch: 125 Training Loss: 0.321997
batch: 126 Training Loss: 0.322708
batch: 127 Training Loss: 0.322706
batch: 128 Training Loss: 0.323131
batch: 129 Training Loss: 0.323829
batch: 130 Training Loss: 0.324386
batch: 131 Training Loss: 0.322435
batch: 132 Training Loss: 0.321909
batch: 133 Training Loss: 0.320753
batch: 134 Training Loss: 0.320228
batch: 135 Training Loss: 0.319468
batch: 136 Training Loss: 0.319253
batch: 137 Training Loss: 0.319636
batch: 138 Training Loss: 0.318971
batch: 139 Training Loss: 0.320433
batch: 140 Training Loss: 0.319429
batch: 141 Training Loss: 0.319852
batch: 142 Training Loss: 0.319985
batch: 143 Training Loss: 0.320644
batch: 144 Training Loss: 0.320125
batch: 145 Training Loss: 0.320482
batch: 146 Training Loss: 0.321744
batch: 147 Training Loss: 0.321454
batch: 148 Training Loss: 0.320248
batch: 149 Training Loss: 0.320555
batch: 150 Training Loss: 0.321376
batch: 151 Training Loss: 0.320923
batch: 152 Training Loss: 0.321205
batch: 153 Training Loss: 0.320260
batch: 154 Training Loss: 0.321275
batch: 155 Training Loss: 0.320663
batch: 156 Training Loss: 0.320246
batch: 157 Training Loss: 0.319505
batch: 158 Training Loss: 0.318873
batch: 159 Training Loss: 0.319588
batch: 160 Training Loss: 0.318878
batch: 161 Training Loss: 0.319322
batch: 162 Training Loss: 0.320233
batch: 163 Training Loss: 0.320019
batch: 164 Training Loss: 0.320737
batch: 165 Training Loss: 0.321602
batch: 166 Training Loss: 0.322114
batch: 167 Training Loss: 0.321036
batch: 168 Training Loss: 0.320682
batch: 169 Training Loss: 0.323049
batch: 170 Training Loss: 0.322532
batch: 171 Training Loss: 0.321709
batch: 172 Training Loss: 0.321338

batch: 174 Training Loss: 0.321990
batch: 173 Training Loss: 0.322441
batch: 174 Training Loss: 0.323185
batch: 175 Training Loss: 0.324029
batch: 176 Training Loss: 0.323973
batch: 177 Training Loss: 0.323703
batch: 178 Training Loss: 0.325213
batch: 179 Training Loss: 0.324543
batch: 180 Training Loss: 0.325118
batch: 181 Training Loss: 0.326514
batch: 182 Training Loss: 0.326791
batch: 183 Training Loss: 0.327148
batch: 184 Training Loss: 0.327586
batch: 185 Training Loss: 0.328018
batch: 186 Training Loss: 0.327992
batch: 187 Training Loss: 0.328995
batch: 188 Training Loss: 0.329291
batch: 189 Training Loss: 0.328876
batch: 190 Training Loss: 0.328989
batch: 191 Training Loss: 0.328157
batch: 192 Training Loss: 0.327851
batch: 193 Training Loss: 0.327483
batch: 194 Training Loss: 0.328414
batch: 195 Training Loss: 0.329527
batch: 196 Training Loss: 0.328884
batch: 197 Training Loss: 0.329230
batch: 198 Training Loss: 0.328561
batch: 199 Training Loss: 0.327897
batch: 200 Training Loss: 0.327500
batch: 201 Training Loss: 0.326533
batch: 202 Training Loss: 0.326192
batch: 203 Training Loss: 0.326970
batch: 204 Training Loss: 0.326686
batch: 205 Training Loss: 0.326745
batch: 206 Training Loss: 0.325977
batch: 207 Training Loss: 0.326022
batch: 208 Training Loss: 0.325532
Epoch: 37 Training Loss: 0.325532 Validation Loss: 1.048864
batch: 0 Training Loss: 0.263787
batch: 1 Training Loss: 0.221633
batch: 2 Training Loss: 0.252646
batch: 3 Training Loss: 0.275714
batch: 4 Training Loss: 0.307917
batch: 5 Training Loss: 0.294492
batch: 6 Training Loss: 0.263038
batch: 7 Training Loss: 0.256417
batch: 8 Training Loss: 0.252550
batch: 9 Training Loss: 0.258353
batch: 10 Training Loss: 0.272738
batch: 11 Training Loss: 0.295155
batch: 12 Training Loss: 0.294100
batch: 13 Training Loss: 0.301010
batch: 14 Training Loss: 0.298706
batch: 15 Training Loss: 0.301300
batch: 16 Training Loss: 0.302265
batch: 17 Training Loss: 0.296773
batch: 18 Training Loss: 0.288048
batch: 19 Training Loss: 0.286582
batch: 20 Training Loss: 0.281808
batch: 21 Training Loss: 0.282306
batch: 22 Training Loss: 0.275070
batch: 23 Training Loss: 0.272677
batch: 24 Training Loss: 0.276742
batch: 25 Training Loss: 0.276140
batch: 26 Training Loss: 0.273798
batch: 27 Training Loss: 0.276933
batch: 28 Training Loss: 0.271744
batch: 29 Training Loss: 0.278778
batch: 30 Training Loss: 0.291479
batch: 31 Training Loss: 0.290734
batch: 32 Training Loss: 0.294296
batch: 33 Training Loss: 0.297903
batch: 34 Training Loss: 0.296671
batch: 35 Training Loss: 0.298944
batch: 36 Training Loss: 0.300569
batch: 37 Training Loss: 0.296301
batch: 38 Training Loss: 0.295688
batch: 39 Training Loss: 0.299162
batch: 40 Training Loss: 0.298818
batch: 41 Training Loss: 0.301489
batch: 42 Training Loss: 0.302257
batch: 43 Training Loss: 0.298613
batch: 44 Training Loss: 0.297052
batch: 45 Training Loss: 0.298288
batch: 46 Training Loss: 0.297396
batch: 47 Training Loss: 0.300818
batch: 48 Training Loss: 0.307895
batch: 49 Training Loss: 0.308511
batch: 50 Training Loss: 0.310575
batch: 51 Training Loss: 0.310777
batch: 52 Training Loss: 0.307304
batch: 53 Training Loss: 0.307074

batch: 00 Training Loss: 0.30707
batch: 54 Training Loss: 0.303077
batch: 55 Training Loss: 0.302087
batch: 56 Training Loss: 0.300634
batch: 57 Training Loss: 0.300330
batch: 58 Training Loss: 0.307182
batch: 59 Training Loss: 0.306591
batch: 60 Training Loss: 0.310793
batch: 61 Training Loss: 0.309081
batch: 62 Training Loss: 0.307345
batch: 63 Training Loss: 0.309744
batch: 64 Training Loss: 0.312641
batch: 65 Training Loss: 0.311322
batch: 66 Training Loss: 0.308776
batch: 67 Training Loss: 0.312128
batch: 68 Training Loss: 0.310332
batch: 69 Training Loss: 0.309661
batch: 70 Training Loss: 0.306895
batch: 71 Training Loss: 0.306168
batch: 72 Training Loss: 0.306952
batch: 73 Training Loss: 0.305465
batch: 74 Training Loss: 0.305793
batch: 75 Training Loss: 0.306848
batch: 76 Training Loss: 0.303701
batch: 77 Training Loss: 0.306447
batch: 78 Training Loss: 0.306311
batch: 79 Training Loss: 0.304861
batch: 80 Training Loss: 0.302342
batch: 81 Training Loss: 0.299446
batch: 82 Training Loss: 0.299181
batch: 83 Training Loss: 0.301958
batch: 84 Training Loss: 0.303098
batch: 85 Training Loss: 0.304469
batch: 86 Training Loss: 0.303271
batch: 87 Training Loss: 0.303332
batch: 88 Training Loss: 0.305693
batch: 89 Training Loss: 0.304387
batch: 90 Training Loss: 0.303624
batch: 91 Training Loss: 0.304272
batch: 92 Training Loss: 0.303172
batch: 93 Training Loss: 0.303629
batch: 94 Training Loss: 0.303905
batch: 95 Training Loss: 0.303786
batch: 96 Training Loss: 0.311118
batch: 97 Training Loss: 0.312374
batch: 98 Training Loss: 0.311943
batch: 99 Training Loss: 0.310724
batch: 100 Training Loss: 0.309893
batch: 101 Training Loss: 0.308801
batch: 102 Training Loss: 0.309028
batch: 103 Training Loss: 0.309767
batch: 104 Training Loss: 0.308827
batch: 105 Training Loss: 0.308881
batch: 106 Training Loss: 0.308280
batch: 107 Training Loss: 0.308090
batch: 108 Training Loss: 0.308654
batch: 109 Training Loss: 0.308654
batch: 110 Training Loss: 0.309196
batch: 111 Training Loss: 0.307164
batch: 112 Training Loss: 0.306265
batch: 113 Training Loss: 0.306528
batch: 114 Training Loss: 0.307053
batch: 115 Training Loss: 0.307772
batch: 116 Training Loss: 0.308580
batch: 117 Training Loss: 0.311107
batch: 118 Training Loss: 0.310776
batch: 119 Training Loss: 0.309312
batch: 120 Training Loss: 0.308380
batch: 121 Training Loss: 0.307086
batch: 122 Training Loss: 0.305713
batch: 123 Training Loss: 0.304739
batch: 124 Training Loss: 0.306867
batch: 125 Training Loss: 0.307314
batch: 126 Training Loss: 0.308117
batch: 127 Training Loss: 0.307582
batch: 128 Training Loss: 0.305997
batch: 129 Training Loss: 0.306102
batch: 130 Training Loss: 0.304732
batch: 131 Training Loss: 0.306003
batch: 132 Training Loss: 0.305449
batch: 133 Training Loss: 0.304501
batch: 134 Training Loss: 0.303637
batch: 135 Training Loss: 0.302973
batch: 136 Training Loss: 0.302634
batch: 137 Training Loss: 0.302387
batch: 138 Training Loss: 0.300758
batch: 139 Training Loss: 0.300610
batch: 140 Training Loss: 0.299662
batch: 141 Training Loss: 0.300763
batch: 142 Training Loss: 0.300808
batch: 143 Training Loss: 0.301127
batch: 144 Training Loss: 0.300447

```
batch: 145 Training Loss: 0.301552
batch: 146 Training Loss: 0.302851
batch: 147 Training Loss: 0.303078
batch: 148 Training Loss: 0.304819
batch: 149 Training Loss: 0.304163
batch: 150 Training Loss: 0.303200
batch: 151 Training Loss: 0.302466
batch: 152 Training Loss: 0.302725
batch: 153 Training Loss: 0.301779
batch: 154 Training Loss: 0.301693
batch: 155 Training Loss: 0.302075
batch: 156 Training Loss: 0.306121
batch: 157 Training Loss: 0.306511
batch: 158 Training Loss: 0.307372
batch: 159 Training Loss: 0.308851
batch: 160 Training Loss: 0.308733
batch: 161 Training Loss: 0.309121
batch: 162 Training Loss: 0.307764
batch: 163 Training Loss: 0.309542
batch: 164 Training Loss: 0.309372
batch: 165 Training Loss: 0.308597
batch: 166 Training Loss: 0.307886
batch: 167 Training Loss: 0.306865
batch: 168 Training Loss: 0.307758
batch: 169 Training Loss: 0.308359
batch: 170 Training Loss: 0.310711
batch: 171 Training Loss: 0.311106
batch: 172 Training Loss: 0.310994
batch: 173 Training Loss: 0.310358
batch: 174 Training Loss: 0.310926
batch: 175 Training Loss: 0.312730
batch: 176 Training Loss: 0.313201
batch: 177 Training Loss: 0.314045
batch: 178 Training Loss: 0.313316
batch: 179 Training Loss: 0.312913
batch: 180 Training Loss: 0.312975
batch: 181 Training Loss: 0.313132
batch: 182 Training Loss: 0.312892
batch: 183 Training Loss: 0.312157
batch: 184 Training Loss: 0.312492
batch: 185 Training Loss: 0.311645
batch: 186 Training Loss: 0.311009
batch: 187 Training Loss: 0.310554
batch: 188 Training Loss: 0.310757
batch: 189 Training Loss: 0.309872
batch: 190 Training Loss: 0.308644
batch: 191 Training Loss: 0.308503
batch: 192 Training Loss: 0.308528
batch: 193 Training Loss: 0.308161
batch: 194 Training Loss: 0.307435
batch: 195 Training Loss: 0.307837
batch: 196 Training Loss: 0.307005
batch: 197 Training Loss: 0.307525
batch: 198 Training Loss: 0.307018
batch: 199 Training Loss: 0.307093
batch: 200 Training Loss: 0.307061
batch: 201 Training Loss: 0.307999
batch: 202 Training Loss: 0.307330
batch: 203 Training Loss: 0.306629
batch: 204 Training Loss: 0.306100
batch: 205 Training Loss: 0.306978
batch: 206 Training Loss: 0.306571
batch: 207 Training Loss: 0.307572
batch: 208 Training Loss: 0.307873
Epoch: 38 Training Loss: 0.307873 Validation Loss: 1.070193
batch: 0 Training Loss: 0.161485
batch: 1 Training Loss: 0.218803
batch: 2 Training Loss: 0.249273
batch: 3 Training Loss: 0.223287
batch: 4 Training Loss: 0.298001
batch: 5 Training Loss: 0.328191
batch: 6 Training Loss: 0.305159
batch: 7 Training Loss: 0.288968
batch: 8 Training Loss: 0.283832
batch: 9 Training Loss: 0.295006
batch: 10 Training Loss: 0.289666
batch: 11 Training Loss: 0.274217
batch: 12 Training Loss: 0.260525
batch: 13 Training Loss: 0.255244
batch: 14 Training Loss: 0.253717
batch: 15 Training Loss: 0.244454
batch: 16 Training Loss: 0.258150
batch: 17 Training Loss: 0.276556
batch: 18 Training Loss: 0.272153
batch: 19 Training Loss: 0.268621
batch: 20 Training Loss: 0.271021
batch: 21 Training Loss: 0.267315
batch: 22 Training Loss: 0.268703
batch: 23 Training Loss: 0.265594
batch: 24 Training Loss: 0.260420
batch: 25 Training Loss: 0.266085
```

batch: 26 Training Loss: 0.265459
batch: 27 Training Loss: 0.267243
batch: 28 Training Loss: 0.271376
batch: 29 Training Loss: 0.273623
batch: 30 Training Loss: 0.279347
batch: 31 Training Loss: 0.279183
batch: 32 Training Loss: 0.280722
batch: 33 Training Loss: 0.277527
batch: 34 Training Loss: 0.283583
batch: 35 Training Loss: 0.281229
batch: 36 Training Loss: 0.282497
batch: 37 Training Loss: 0.288209
batch: 38 Training Loss: 0.289234
batch: 39 Training Loss: 0.295153
batch: 40 Training Loss: 0.306288
batch: 41 Training Loss: 0.302445
batch: 42 Training Loss: 0.304619
batch: 43 Training Loss: 0.302755
batch: 44 Training Loss: 0.298532
batch: 45 Training Loss: 0.298217
batch: 46 Training Loss: 0.297772
batch: 47 Training Loss: 0.296584
batch: 48 Training Loss: 0.293966
batch: 49 Training Loss: 0.294292
batch: 50 Training Loss: 0.294297
batch: 51 Training Loss: 0.296486
batch: 52 Training Loss: 0.292918
batch: 53 Training Loss: 0.291390
batch: 54 Training Loss: 0.289656
batch: 55 Training Loss: 0.286937
batch: 56 Training Loss: 0.284356
batch: 57 Training Loss: 0.290110
batch: 58 Training Loss: 0.288473
batch: 59 Training Loss: 0.288703
batch: 60 Training Loss: 0.287923
batch: 61 Training Loss: 0.287584
batch: 62 Training Loss: 0.284516
batch: 63 Training Loss: 0.284342
batch: 64 Training Loss: 0.283143
batch: 65 Training Loss: 0.280941
batch: 66 Training Loss: 0.283324
batch: 67 Training Loss: 0.281018
batch: 68 Training Loss: 0.279041
batch: 69 Training Loss: 0.277749
batch: 70 Training Loss: 0.280068
batch: 71 Training Loss: 0.278529
batch: 72 Training Loss: 0.277895
batch: 73 Training Loss: 0.276137
batch: 74 Training Loss: 0.276492
batch: 75 Training Loss: 0.275790
batch: 76 Training Loss: 0.274431
batch: 77 Training Loss: 0.276642
batch: 78 Training Loss: 0.277342
batch: 79 Training Loss: 0.276945
batch: 80 Training Loss: 0.276514
batch: 81 Training Loss: 0.274651
batch: 82 Training Loss: 0.276664
batch: 83 Training Loss: 0.276894
batch: 84 Training Loss: 0.276918
batch: 85 Training Loss: 0.276731
batch: 86 Training Loss: 0.275427
batch: 87 Training Loss: 0.273715
batch: 88 Training Loss: 0.274979
batch: 89 Training Loss: 0.273423
batch: 90 Training Loss: 0.276332
batch: 91 Training Loss: 0.280581
batch: 92 Training Loss: 0.285319
batch: 93 Training Loss: 0.283696
batch: 94 Training Loss: 0.285214
batch: 95 Training Loss: 0.286195
batch: 96 Training Loss: 0.286939
batch: 97 Training Loss: 0.286907
batch: 98 Training Loss: 0.287134
batch: 99 Training Loss: 0.287450
batch: 100 Training Loss: 0.291099
batch: 101 Training Loss: 0.290681
batch: 102 Training Loss: 0.290241
batch: 103 Training Loss: 0.289909
batch: 104 Training Loss: 0.291939
batch: 105 Training Loss: 0.293444
batch: 106 Training Loss: 0.293393
batch: 107 Training Loss: 0.291913
batch: 108 Training Loss: 0.291699
batch: 109 Training Loss: 0.292075
batch: 110 Training Loss: 0.292243
batch: 111 Training Loss: 0.291897
batch: 112 Training Loss: 0.293010
batch: 113 Training Loss: 0.292059
batch: 114 Training Loss: 0.291732
batch: 115 Training Loss: 0.290493
batch: 116 Training Loss: 0.289418

batch: 117 Training Loss: 0.288470
batch: 118 Training Loss: 0.287760
batch: 119 Training Loss: 0.288770
batch: 120 Training Loss: 0.287222
batch: 121 Training Loss: 0.290351
batch: 122 Training Loss: 0.291313
batch: 123 Training Loss: 0.291184
batch: 124 Training Loss: 0.289794
batch: 125 Training Loss: 0.289082
batch: 126 Training Loss: 0.290354
batch: 127 Training Loss: 0.289690
batch: 128 Training Loss: 0.290383
batch: 129 Training Loss: 0.292600
batch: 130 Training Loss: 0.291714
batch: 131 Training Loss: 0.294276
batch: 132 Training Loss: 0.297737
batch: 133 Training Loss: 0.296857
batch: 134 Training Loss: 0.296936
batch: 135 Training Loss: 0.299080
batch: 136 Training Loss: 0.298681
batch: 137 Training Loss: 0.298838
batch: 138 Training Loss: 0.298785
batch: 139 Training Loss: 0.299581
batch: 140 Training Loss: 0.298830
batch: 141 Training Loss: 0.298452
batch: 142 Training Loss: 0.299374
batch: 143 Training Loss: 0.299238
batch: 144 Training Loss: 0.298624
batch: 145 Training Loss: 0.297746
batch: 146 Training Loss: 0.296751
batch: 147 Training Loss: 0.296286
batch: 148 Training Loss: 0.295483
batch: 149 Training Loss: 0.296788
batch: 150 Training Loss: 0.295995
batch: 151 Training Loss: 0.296611
batch: 152 Training Loss: 0.295395
batch: 153 Training Loss: 0.295526
batch: 154 Training Loss: 0.294307
batch: 155 Training Loss: 0.295772
batch: 156 Training Loss: 0.294725
batch: 157 Training Loss: 0.293974
batch: 158 Training Loss: 0.296810
batch: 159 Training Loss: 0.296311
batch: 160 Training Loss: 0.297074
batch: 161 Training Loss: 0.296439
batch: 162 Training Loss: 0.297279
batch: 163 Training Loss: 0.298456
batch: 164 Training Loss: 0.298466
batch: 165 Training Loss: 0.297734
batch: 166 Training Loss: 0.296912
batch: 167 Training Loss: 0.296198
batch: 168 Training Loss: 0.296136
batch: 169 Training Loss: 0.296656
batch: 170 Training Loss: 0.296411
batch: 171 Training Loss: 0.296783
batch: 172 Training Loss: 0.297379
batch: 173 Training Loss: 0.298096
batch: 174 Training Loss: 0.297631
batch: 175 Training Loss: 0.298836
batch: 176 Training Loss: 0.298762
batch: 177 Training Loss: 0.298367
batch: 178 Training Loss: 0.297752
batch: 179 Training Loss: 0.297188
batch: 180 Training Loss: 0.296897
batch: 181 Training Loss: 0.297267
batch: 182 Training Loss: 0.297010
batch: 183 Training Loss: 0.296613
batch: 184 Training Loss: 0.298398
batch: 185 Training Loss: 0.299014
batch: 186 Training Loss: 0.298229
batch: 187 Training Loss: 0.298178
batch: 188 Training Loss: 0.298966
batch: 189 Training Loss: 0.297892
batch: 190 Training Loss: 0.298770
batch: 191 Training Loss: 0.299557
batch: 192 Training Loss: 0.300898
batch: 193 Training Loss: 0.299988
batch: 194 Training Loss: 0.301191
batch: 195 Training Loss: 0.302888
batch: 196 Training Loss: 0.302327
batch: 197 Training Loss: 0.302422
batch: 198 Training Loss: 0.301928
batch: 199 Training Loss: 0.300939
batch: 200 Training Loss: 0.300101
batch: 201 Training Loss: 0.301084
batch: 202 Training Loss: 0.300088
batch: 203 Training Loss: 0.300470
batch: 204 Training Loss: 0.304683
batch: 205 Training Loss: 0.305200
batch: 206 Training Loss: 0.305214
batch: 207 Training Loss: 0.304209

batch: 208 Training Loss: 0.304143
Epoch: 39 Training Loss: 0.304143 Validation Loss: 1.117493
batch: 0 Training Loss: 0.042823
batch: 1 Training Loss: 0.115569
batch: 2 Training Loss: 0.155910
batch: 3 Training Loss: 0.274380
batch: 4 Training Loss: 0.240438
batch: 5 Training Loss: 0.230480
batch: 6 Training Loss: 0.252409
batch: 7 Training Loss: 0.294709
batch: 8 Training Loss: 0.330129
batch: 9 Training Loss: 0.333270
batch: 10 Training Loss: 0.354074
batch: 11 Training Loss: 0.359708
batch: 12 Training Loss: 0.347685
batch: 13 Training Loss: 0.347259
batch: 14 Training Loss: 0.336217
batch: 15 Training Loss: 0.325705
batch: 16 Training Loss: 0.320835
batch: 17 Training Loss: 0.312149
batch: 18 Training Loss: 0.311120
batch: 19 Training Loss: 0.308722
batch: 20 Training Loss: 0.311334
batch: 21 Training Loss: 0.320130
batch: 22 Training Loss: 0.311189
batch: 23 Training Loss: 0.310266
batch: 24 Training Loss: 0.305881
batch: 25 Training Loss: 0.302428
batch: 26 Training Loss: 0.298430
batch: 27 Training Loss: 0.291750
batch: 28 Training Loss: 0.287409
batch: 29 Training Loss: 0.289866
batch: 30 Training Loss: 0.292809
batch: 31 Training Loss: 0.290989
batch: 32 Training Loss: 0.296305
batch: 33 Training Loss: 0.296998
batch: 34 Training Loss: 0.296081
batch: 35 Training Loss: 0.305710
batch: 36 Training Loss: 0.310780
batch: 37 Training Loss: 0.309236
batch: 38 Training Loss: 0.313713
batch: 39 Training Loss: 0.309404
batch: 40 Training Loss: 0.306000
batch: 41 Training Loss: 0.312375
batch: 42 Training Loss: 0.308328
batch: 43 Training Loss: 0.306865
batch: 44 Training Loss: 0.307222
batch: 45 Training Loss: 0.311732
batch: 46 Training Loss: 0.311519
batch: 47 Training Loss: 0.315254
batch: 48 Training Loss: 0.318804
batch: 49 Training Loss: 0.318743
batch: 50 Training Loss: 0.316057
batch: 51 Training Loss: 0.321172
batch: 52 Training Loss: 0.321075
batch: 53 Training Loss: 0.318138
batch: 54 Training Loss: 0.318224
batch: 55 Training Loss: 0.320909
batch: 56 Training Loss: 0.317512
batch: 57 Training Loss: 0.314491
batch: 58 Training Loss: 0.310338
batch: 59 Training Loss: 0.308065
batch: 60 Training Loss: 0.305943
batch: 61 Training Loss: 0.304999
batch: 62 Training Loss: 0.301321
batch: 63 Training Loss: 0.299018
batch: 64 Training Loss: 0.298790
batch: 65 Training Loss: 0.298321
batch: 66 Training Loss: 0.297109
batch: 67 Training Loss: 0.297922
batch: 68 Training Loss: 0.295980
batch: 69 Training Loss: 0.295900
batch: 70 Training Loss: 0.297802
batch: 71 Training Loss: 0.296301
batch: 72 Training Loss: 0.295726
batch: 73 Training Loss: 0.294723
batch: 74 Training Loss: 0.298013
batch: 75 Training Loss: 0.295428
batch: 76 Training Loss: 0.294147
batch: 77 Training Loss: 0.295166
batch: 78 Training Loss: 0.295745
batch: 79 Training Loss: 0.295424
batch: 80 Training Loss: 0.292447
batch: 81 Training Loss: 0.291261
batch: 82 Training Loss: 0.292484
batch: 83 Training Loss: 0.290948
batch: 84 Training Loss: 0.290645
batch: 85 Training Loss: 0.292458
batch: 86 Training Loss: 0.291722
batch: 87 Training Loss: 0.293271
batch: 88 Training Loss: 0.293648

batch: 89 Training Loss: 0.291483
batch: 90 Training Loss: 0.291100
batch: 91 Training Loss: 0.290325
batch: 92 Training Loss: 0.289086
batch: 93 Training Loss: 0.289988
batch: 94 Training Loss: 0.289432
batch: 95 Training Loss: 0.291125
batch: 96 Training Loss: 0.290308
batch: 97 Training Loss: 0.290589
batch: 98 Training Loss: 0.288750
batch: 99 Training Loss: 0.287759
batch: 100 Training Loss: 0.289105
batch: 101 Training Loss: 0.287658
batch: 102 Training Loss: 0.289980
batch: 103 Training Loss: 0.289536
batch: 104 Training Loss: 0.290712
batch: 105 Training Loss: 0.291299
batch: 106 Training Loss: 0.292398
batch: 107 Training Loss: 0.291351
batch: 108 Training Loss: 0.290062
batch: 109 Training Loss: 0.289439
batch: 110 Training Loss: 0.289020
batch: 111 Training Loss: 0.288829
batch: 112 Training Loss: 0.288227
batch: 113 Training Loss: 0.290371
batch: 114 Training Loss: 0.290416
batch: 115 Training Loss: 0.292286
batch: 116 Training Loss: 0.294049
batch: 117 Training Loss: 0.294809
batch: 118 Training Loss: 0.294951
batch: 119 Training Loss: 0.294875
batch: 120 Training Loss: 0.295739
batch: 121 Training Loss: 0.295327
batch: 122 Training Loss: 0.293979
batch: 123 Training Loss: 0.294717
batch: 124 Training Loss: 0.295962
batch: 125 Training Loss: 0.296091
batch: 126 Training Loss: 0.296683
batch: 127 Training Loss: 0.297981
batch: 128 Training Loss: 0.297057
batch: 129 Training Loss: 0.297159
batch: 130 Training Loss: 0.295264
batch: 131 Training Loss: 0.295217
batch: 132 Training Loss: 0.296756
batch: 133 Training Loss: 0.295359
batch: 134 Training Loss: 0.297499
batch: 135 Training Loss: 0.297433
batch: 136 Training Loss: 0.298399
batch: 137 Training Loss: 0.298212
batch: 138 Training Loss: 0.299828
batch: 139 Training Loss: 0.299749
batch: 140 Training Loss: 0.299417
batch: 141 Training Loss: 0.299538
batch: 142 Training Loss: 0.299383
batch: 143 Training Loss: 0.299194
batch: 144 Training Loss: 0.299021
batch: 145 Training Loss: 0.300132
batch: 146 Training Loss: 0.299407
batch: 147 Training Loss: 0.298937
batch: 148 Training Loss: 0.298995
batch: 149 Training Loss: 0.299464
batch: 150 Training Loss: 0.299483
batch: 151 Training Loss: 0.298803
batch: 152 Training Loss: 0.298641
batch: 153 Training Loss: 0.297121
batch: 154 Training Loss: 0.298449
batch: 155 Training Loss: 0.298534
batch: 156 Training Loss: 0.297756
batch: 157 Training Loss: 0.297656
batch: 158 Training Loss: 0.296992
batch: 159 Training Loss: 0.297001
batch: 160 Training Loss: 0.298399
batch: 161 Training Loss: 0.297730
batch: 162 Training Loss: 0.297202
batch: 163 Training Loss: 0.297954
batch: 164 Training Loss: 0.299364
batch: 165 Training Loss: 0.298307
batch: 166 Training Loss: 0.301011
batch: 167 Training Loss: 0.302208
batch: 168 Training Loss: 0.301319
batch: 169 Training Loss: 0.301611
batch: 170 Training Loss: 0.303434
batch: 171 Training Loss: 0.304085
batch: 172 Training Loss: 0.304581
batch: 173 Training Loss: 0.303518
batch: 174 Training Loss: 0.302522
batch: 175 Training Loss: 0.303252
batch: 176 Training Loss: 0.303302
batch: 177 Training Loss: 0.302724
batch: 178 Training Loss: 0.302542
batch: 179 Training Loss: 0.302113

batch: 180 Training Loss: 0.301907
batch: 181 Training Loss: 0.301423
batch: 182 Training Loss: 0.302486
batch: 183 Training Loss: 0.302443
batch: 184 Training Loss: 0.301239
batch: 185 Training Loss: 0.301480
batch: 186 Training Loss: 0.300473
batch: 187 Training Loss: 0.301121
batch: 188 Training Loss: 0.301070
batch: 189 Training Loss: 0.300121
batch: 190 Training Loss: 0.303493
batch: 191 Training Loss: 0.302588
batch: 192 Training Loss: 0.303569
batch: 193 Training Loss: 0.303866
batch: 194 Training Loss: 0.303255
batch: 195 Training Loss: 0.303725
batch: 196 Training Loss: 0.303408
batch: 197 Training Loss: 0.302292
batch: 198 Training Loss: 0.301487
batch: 199 Training Loss: 0.303508
batch: 200 Training Loss: 0.303609
batch: 201 Training Loss: 0.304272
batch: 202 Training Loss: 0.305698
batch: 203 Training Loss: 0.305968
batch: 204 Training Loss: 0.305822
batch: 205 Training Loss: 0.305718
batch: 206 Training Loss: 0.305673
batch: 207 Training Loss: 0.306688
batch: 208 Training Loss: 0.306576
Epoch: 40 Training Loss: 0.306576 Validation Loss: 1.157872
batch: 0 Training Loss: 0.139485
batch: 1 Training Loss: 0.134080
batch: 2 Training Loss: 0.202602
batch: 3 Training Loss: 0.311496
batch: 4 Training Loss: 0.327113
batch: 5 Training Loss: 0.344107
batch: 6 Training Loss: 0.311543
batch: 7 Training Loss: 0.289989
batch: 8 Training Loss: 0.272428
batch: 9 Training Loss: 0.272739
batch: 10 Training Loss: 0.257543
batch: 11 Training Loss: 0.267639
batch: 12 Training Loss: 0.281325
batch: 13 Training Loss: 0.275515
batch: 14 Training Loss: 0.275207
batch: 15 Training Loss: 0.268251
batch: 16 Training Loss: 0.262183
batch: 17 Training Loss: 0.269412
batch: 18 Training Loss: 0.266189
batch: 19 Training Loss: 0.259892
batch: 20 Training Loss: 0.257502
batch: 21 Training Loss: 0.255674
batch: 22 Training Loss: 0.252739
batch: 23 Training Loss: 0.245498
batch: 24 Training Loss: 0.246175
batch: 25 Training Loss: 0.246088
batch: 26 Training Loss: 0.242878
batch: 27 Training Loss: 0.250962
batch: 28 Training Loss: 0.258443
batch: 29 Training Loss: 0.253872
batch: 30 Training Loss: 0.264459
batch: 31 Training Loss: 0.260920
batch: 32 Training Loss: 0.257210
batch: 33 Training Loss: 0.258406
batch: 34 Training Loss: 0.259905
batch: 35 Training Loss: 0.257219
batch: 36 Training Loss: 0.256550
batch: 37 Training Loss: 0.254662
batch: 38 Training Loss: 0.252814
batch: 39 Training Loss: 0.251235
batch: 40 Training Loss: 0.258778
batch: 41 Training Loss: 0.256462
batch: 42 Training Loss: 0.255858
batch: 43 Training Loss: 0.254693
batch: 44 Training Loss: 0.253048
batch: 45 Training Loss: 0.251609
batch: 46 Training Loss: 0.248816
batch: 47 Training Loss: 0.247122
batch: 48 Training Loss: 0.247336
batch: 49 Training Loss: 0.247729
batch: 50 Training Loss: 0.244277
batch: 51 Training Loss: 0.244455
batch: 52 Training Loss: 0.243025
batch: 53 Training Loss: 0.245039
batch: 54 Training Loss: 0.243308
batch: 55 Training Loss: 0.243251
batch: 56 Training Loss: 0.241851
batch: 57 Training Loss: 0.241718
batch: 58 Training Loss: 0.241895
batch: 59 Training Loss: 0.242487
batch: 60 Training Loss: 0.244026

batch: 61 Training Loss: 0.241114
batch: 62 Training Loss: 0.238964
batch: 63 Training Loss: 0.239362
batch: 64 Training Loss: 0.239230
batch: 65 Training Loss: 0.240536
batch: 66 Training Loss: 0.242113
batch: 67 Training Loss: 0.242538
batch: 68 Training Loss: 0.245440
batch: 69 Training Loss: 0.254966
batch: 70 Training Loss: 0.254532
batch: 71 Training Loss: 0.256487
batch: 72 Training Loss: 0.257392
batch: 73 Training Loss: 0.258714
batch: 74 Training Loss: 0.258278
batch: 75 Training Loss: 0.257228
batch: 76 Training Loss: 0.259037
batch: 77 Training Loss: 0.261349
batch: 78 Training Loss: 0.261343
batch: 79 Training Loss: 0.259644
batch: 80 Training Loss: 0.260129
batch: 81 Training Loss: 0.259397
batch: 82 Training Loss: 0.259234
batch: 83 Training Loss: 0.257857
batch: 84 Training Loss: 0.257429
batch: 85 Training Loss: 0.259216
batch: 86 Training Loss: 0.257707
batch: 87 Training Loss: 0.256257
batch: 88 Training Loss: 0.254841
batch: 89 Training Loss: 0.253919
batch: 90 Training Loss: 0.252298
batch: 91 Training Loss: 0.251891
batch: 92 Training Loss: 0.257506
batch: 93 Training Loss: 0.255595
batch: 94 Training Loss: 0.254287
batch: 95 Training Loss: 0.254983
batch: 96 Training Loss: 0.255500
batch: 97 Training Loss: 0.255169
batch: 98 Training Loss: 0.254322
batch: 99 Training Loss: 0.255151
batch: 100 Training Loss: 0.255552
batch: 101 Training Loss: 0.254836
batch: 102 Training Loss: 0.255170
batch: 103 Training Loss: 0.253723
batch: 104 Training Loss: 0.252903
batch: 105 Training Loss: 0.251383
batch: 106 Training Loss: 0.251366
batch: 107 Training Loss: 0.253904
batch: 108 Training Loss: 0.252146
batch: 109 Training Loss: 0.251679
batch: 110 Training Loss: 0.251416
batch: 111 Training Loss: 0.251005
batch: 112 Training Loss: 0.250251
batch: 113 Training Loss: 0.253862
batch: 114 Training Loss: 0.255469
batch: 115 Training Loss: 0.254197
batch: 116 Training Loss: 0.254334
batch: 117 Training Loss: 0.255121
batch: 118 Training Loss: 0.255409
batch: 119 Training Loss: 0.255373
batch: 120 Training Loss: 0.255076
batch: 121 Training Loss: 0.253898
batch: 122 Training Loss: 0.255143
batch: 123 Training Loss: 0.255919
batch: 124 Training Loss: 0.255176
batch: 125 Training Loss: 0.255571
batch: 126 Training Loss: 0.255483
batch: 127 Training Loss: 0.256749
batch: 128 Training Loss: 0.255359
batch: 129 Training Loss: 0.255156
batch: 130 Training Loss: 0.255519
batch: 131 Training Loss: 0.256757
batch: 132 Training Loss: 0.257245
batch: 133 Training Loss: 0.257322
batch: 134 Training Loss: 0.257059
batch: 135 Training Loss: 0.256178
batch: 136 Training Loss: 0.255729
batch: 137 Training Loss: 0.255128
batch: 138 Training Loss: 0.256537
batch: 139 Training Loss: 0.257119
batch: 140 Training Loss: 0.256659
batch: 141 Training Loss: 0.256094
batch: 142 Training Loss: 0.254920
batch: 143 Training Loss: 0.254429
batch: 144 Training Loss: 0.253881
batch: 145 Training Loss: 0.255099
batch: 146 Training Loss: 0.254388
batch: 147 Training Loss: 0.256229
batch: 148 Training Loss: 0.255230
batch: 149 Training Loss: 0.253824
batch: 150 Training Loss: 0.254916
batch: 151 Training Loss: 0.254898

batch: 152 Training Loss: 0.255615
batch: 153 Training Loss: 0.258676
batch: 154 Training Loss: 0.259128
batch: 155 Training Loss: 0.258365
batch: 156 Training Loss: 0.258644
batch: 157 Training Loss: 0.259074
batch: 158 Training Loss: 0.259537
batch: 159 Training Loss: 0.260227
batch: 160 Training Loss: 0.259852
batch: 161 Training Loss: 0.259522
batch: 162 Training Loss: 0.259176
batch: 163 Training Loss: 0.260125
batch: 164 Training Loss: 0.259467
batch: 165 Training Loss: 0.258791
batch: 166 Training Loss: 0.257911
batch: 167 Training Loss: 0.257696
batch: 168 Training Loss: 0.257401
batch: 169 Training Loss: 0.257083
batch: 170 Training Loss: 0.256606
batch: 171 Training Loss: 0.256705
batch: 172 Training Loss: 0.255638
batch: 173 Training Loss: 0.254670
batch: 174 Training Loss: 0.254808
batch: 175 Training Loss: 0.254322
batch: 176 Training Loss: 0.254472
batch: 177 Training Loss: 0.254613
batch: 178 Training Loss: 0.253736
batch: 179 Training Loss: 0.254749
batch: 180 Training Loss: 0.254096
batch: 181 Training Loss: 0.254338
batch: 182 Training Loss: 0.254368
batch: 183 Training Loss: 0.254279
batch: 184 Training Loss: 0.255231
batch: 185 Training Loss: 0.255746
batch: 186 Training Loss: 0.256803
batch: 187 Training Loss: 0.257508
batch: 188 Training Loss: 0.256783
batch: 189 Training Loss: 0.256207
batch: 190 Training Loss: 0.256436
batch: 191 Training Loss: 0.256958
batch: 192 Training Loss: 0.257096
batch: 193 Training Loss: 0.256785
batch: 194 Training Loss: 0.257542
batch: 195 Training Loss: 0.257072
batch: 196 Training Loss: 0.256878
batch: 197 Training Loss: 0.257525
batch: 198 Training Loss: 0.257282
batch: 199 Training Loss: 0.257903
batch: 200 Training Loss: 0.258244
batch: 201 Training Loss: 0.259084
batch: 202 Training Loss: 0.258907
batch: 203 Training Loss: 0.261901
batch: 204 Training Loss: 0.261001
batch: 205 Training Loss: 0.260776
batch: 206 Training Loss: 0.261045
batch: 207 Training Loss: 0.262187
batch: 208 Training Loss: 0.263059
Epoch: 41 Training Loss: 0.263059 Validation Loss: 1.176920
batch: 0 Training Loss: 0.199230
batch: 1 Training Loss: 0.190098
batch: 2 Training Loss: 0.187903
batch: 3 Training Loss: 0.196314
batch: 4 Training Loss: 0.207034
batch: 5 Training Loss: 0.178465
batch: 6 Training Loss: 0.197062
batch: 7 Training Loss: 0.218364
batch: 8 Training Loss: 0.216194
batch: 9 Training Loss: 0.202895
batch: 10 Training Loss: 0.229818
batch: 11 Training Loss: 0.225800
batch: 12 Training Loss: 0.228276
batch: 13 Training Loss: 0.229229
batch: 14 Training Loss: 0.229714
batch: 15 Training Loss: 0.222156
batch: 16 Training Loss: 0.227698
batch: 17 Training Loss: 0.226528
batch: 18 Training Loss: 0.239708
batch: 19 Training Loss: 0.241220
batch: 20 Training Loss: 0.256273
batch: 21 Training Loss: 0.257373
batch: 22 Training Loss: 0.258445
batch: 23 Training Loss: 0.260536
batch: 24 Training Loss: 0.259251
batch: 25 Training Loss: 0.268650
batch: 26 Training Loss: 0.273959
batch: 27 Training Loss: 0.271500
batch: 28 Training Loss: 0.274479
batch: 29 Training Loss: 0.274194
batch: 30 Training Loss: 0.269677
batch: 31 Training Loss: 0.265633
batch: 32 Training Loss: 0.263412

batch: 33 Training Loss: 0.259340
batch: 34 Training Loss: 0.261255
batch: 35 Training Loss: 0.256571
batch: 36 Training Loss: 0.256643
batch: 37 Training Loss: 0.254901
batch: 38 Training Loss: 0.249768
batch: 39 Training Loss: 0.246400
batch: 40 Training Loss: 0.244521
batch: 41 Training Loss: 0.249388
batch: 42 Training Loss: 0.260204
batch: 43 Training Loss: 0.263117
batch: 44 Training Loss: 0.262806
batch: 45 Training Loss: 0.261588
batch: 46 Training Loss: 0.260975
batch: 47 Training Loss: 0.258569
batch: 48 Training Loss: 0.255141
batch: 49 Training Loss: 0.252368
batch: 50 Training Loss: 0.250264
batch: 51 Training Loss: 0.247719
batch: 52 Training Loss: 0.250108
batch: 53 Training Loss: 0.252581
batch: 54 Training Loss: 0.250991
batch: 55 Training Loss: 0.249290
batch: 56 Training Loss: 0.251747
batch: 57 Training Loss: 0.251665
batch: 58 Training Loss: 0.248316
batch: 59 Training Loss: 0.250064
batch: 60 Training Loss: 0.248869
batch: 61 Training Loss: 0.248299
batch: 62 Training Loss: 0.250286
batch: 63 Training Loss: 0.249063
batch: 64 Training Loss: 0.250040
batch: 65 Training Loss: 0.247953
batch: 66 Training Loss: 0.246672
batch: 67 Training Loss: 0.246589
batch: 68 Training Loss: 0.246907
batch: 69 Training Loss: 0.246303
batch: 70 Training Loss: 0.244469
batch: 71 Training Loss: 0.251475
batch: 72 Training Loss: 0.254776
batch: 73 Training Loss: 0.254419
batch: 74 Training Loss: 0.254221
batch: 75 Training Loss: 0.254160
batch: 76 Training Loss: 0.254029
batch: 77 Training Loss: 0.252317
batch: 78 Training Loss: 0.252367
batch: 79 Training Loss: 0.252028
batch: 80 Training Loss: 0.251474
batch: 81 Training Loss: 0.250519
batch: 82 Training Loss: 0.250190
batch: 83 Training Loss: 0.251613
batch: 84 Training Loss: 0.252341
batch: 85 Training Loss: 0.253925
batch: 86 Training Loss: 0.252206
batch: 87 Training Loss: 0.250430
batch: 88 Training Loss: 0.249659
batch: 89 Training Loss: 0.249364
batch: 90 Training Loss: 0.249387
batch: 91 Training Loss: 0.249738
batch: 92 Training Loss: 0.248713
batch: 93 Training Loss: 0.250297
batch: 94 Training Loss: 0.252469
batch: 95 Training Loss: 0.251265
batch: 96 Training Loss: 0.250803
batch: 97 Training Loss: 0.249345
batch: 98 Training Loss: 0.248256
batch: 99 Training Loss: 0.247703
batch: 100 Training Loss: 0.247504
batch: 101 Training Loss: 0.247036
batch: 102 Training Loss: 0.248352
batch: 103 Training Loss: 0.249159
batch: 104 Training Loss: 0.250762
batch: 105 Training Loss: 0.250592
batch: 106 Training Loss: 0.252444
batch: 107 Training Loss: 0.251022
batch: 108 Training Loss: 0.253382
batch: 109 Training Loss: 0.251659
batch: 110 Training Loss: 0.251267
batch: 111 Training Loss: 0.250113
batch: 112 Training Loss: 0.252205
batch: 113 Training Loss: 0.254099
batch: 114 Training Loss: 0.255148
batch: 115 Training Loss: 0.253620
batch: 116 Training Loss: 0.253689
batch: 117 Training Loss: 0.252823
batch: 118 Training Loss: 0.252122
batch: 119 Training Loss: 0.250603
batch: 120 Training Loss: 0.253083
batch: 121 Training Loss: 0.252125
batch: 122 Training Loss: 0.255424
batch: 123 Training Loss: 0.256014

batch: 124 Training Loss: 0.258747
batch: 125 Training Loss: 0.260193
batch: 126 Training Loss: 0.259159
batch: 127 Training Loss: 0.259246
batch: 128 Training Loss: 0.259412
batch: 129 Training Loss: 0.258410
batch: 130 Training Loss: 0.258893
batch: 131 Training Loss: 0.258953
batch: 132 Training Loss: 0.258955
batch: 133 Training Loss: 0.258274
batch: 134 Training Loss: 0.258901
batch: 135 Training Loss: 0.259577
batch: 136 Training Loss: 0.263240
batch: 137 Training Loss: 0.262420
batch: 138 Training Loss: 0.262141
batch: 139 Training Loss: 0.262625
batch: 140 Training Loss: 0.265692
batch: 141 Training Loss: 0.266649
batch: 142 Training Loss: 0.264937
batch: 143 Training Loss: 0.265238
batch: 144 Training Loss: 0.264778
batch: 145 Training Loss: 0.264281
batch: 146 Training Loss: 0.265556
batch: 147 Training Loss: 0.266407
batch: 148 Training Loss: 0.267130
batch: 149 Training Loss: 0.267889
batch: 150 Training Loss: 0.267338
batch: 151 Training Loss: 0.268503
batch: 152 Training Loss: 0.268698
batch: 153 Training Loss: 0.269278
batch: 154 Training Loss: 0.269208
batch: 155 Training Loss: 0.270019
batch: 156 Training Loss: 0.270109
batch: 157 Training Loss: 0.271378
batch: 158 Training Loss: 0.273422
batch: 159 Training Loss: 0.273458
batch: 160 Training Loss: 0.274278
batch: 161 Training Loss: 0.273564
batch: 162 Training Loss: 0.273586
batch: 163 Training Loss: 0.273011
batch: 164 Training Loss: 0.273364
batch: 165 Training Loss: 0.276679
batch: 166 Training Loss: 0.277324
batch: 167 Training Loss: 0.276160
batch: 168 Training Loss: 0.276239
batch: 169 Training Loss: 0.278017
batch: 170 Training Loss: 0.277524
batch: 171 Training Loss: 0.277426
batch: 172 Training Loss: 0.278093
batch: 173 Training Loss: 0.277846
batch: 174 Training Loss: 0.279066
batch: 175 Training Loss: 0.278896
batch: 176 Training Loss: 0.278446
batch: 177 Training Loss: 0.277788
batch: 178 Training Loss: 0.277669
batch: 179 Training Loss: 0.280045
batch: 180 Training Loss: 0.282340
batch: 181 Training Loss: 0.281219
batch: 182 Training Loss: 0.281096
batch: 183 Training Loss: 0.280219
batch: 184 Training Loss: 0.279870
batch: 185 Training Loss: 0.279358
batch: 186 Training Loss: 0.279419
batch: 187 Training Loss: 0.279321
batch: 188 Training Loss: 0.279477
batch: 189 Training Loss: 0.279785
batch: 190 Training Loss: 0.279852
batch: 191 Training Loss: 0.280846
batch: 192 Training Loss: 0.282292
batch: 193 Training Loss: 0.282585
batch: 194 Training Loss: 0.283496
batch: 195 Training Loss: 0.283221
batch: 196 Training Loss: 0.282732
batch: 197 Training Loss: 0.282658
batch: 198 Training Loss: 0.282671
batch: 199 Training Loss: 0.282289
batch: 200 Training Loss: 0.281917
batch: 201 Training Loss: 0.281719
batch: 202 Training Loss: 0.282981
batch: 203 Training Loss: 0.282887
batch: 204 Training Loss: 0.282637
batch: 205 Training Loss: 0.281662
batch: 206 Training Loss: 0.281513
batch: 207 Training Loss: 0.282566
batch: 208 Training Loss: 0.281909
Epoch: 42 Training Loss: 0.281909 Validation Loss: 1.281966
batch: 0 Training Loss: 0.259954
batch: 1 Training Loss: 0.287184
batch: 2 Training Loss: 0.366800
batch: 3 Training Loss: 0.311588
batch: 4 Training Loss: 0.295604
. . . ^ -----

batch: 5 Training Loss: 0.277766
batch: 6 Training Loss: 0.262778
batch: 7 Training Loss: 0.283957
batch: 8 Training Loss: 0.278412
batch: 9 Training Loss: 0.262039
batch: 10 Training Loss: 0.262269
batch: 11 Training Loss: 0.265677
batch: 12 Training Loss: 0.261392
batch: 13 Training Loss: 0.269423
batch: 14 Training Loss: 0.263396
batch: 15 Training Loss: 0.254180
batch: 16 Training Loss: 0.252762
batch: 17 Training Loss: 0.252145
batch: 18 Training Loss: 0.250525
batch: 19 Training Loss: 0.250321
batch: 20 Training Loss: 0.267881
batch: 21 Training Loss: 0.284015
batch: 22 Training Loss: 0.291866
batch: 23 Training Loss: 0.290253
batch: 24 Training Loss: 0.290647
batch: 25 Training Loss: 0.295754
batch: 26 Training Loss: 0.292105
batch: 27 Training Loss: 0.293967
batch: 28 Training Loss: 0.297292
batch: 29 Training Loss: 0.299884
batch: 30 Training Loss: 0.296611
batch: 31 Training Loss: 0.298335
batch: 32 Training Loss: 0.299515
batch: 33 Training Loss: 0.295795
batch: 34 Training Loss: 0.295158
batch: 35 Training Loss: 0.301419
batch: 36 Training Loss: 0.297152
batch: 37 Training Loss: 0.295711
batch: 38 Training Loss: 0.294993
batch: 39 Training Loss: 0.308491
batch: 40 Training Loss: 0.305885
batch: 41 Training Loss: 0.303103
batch: 42 Training Loss: 0.302888
batch: 43 Training Loss: 0.302073
batch: 44 Training Loss: 0.300258
batch: 45 Training Loss: 0.295675
batch: 46 Training Loss: 0.294111
batch: 47 Training Loss: 0.295219
batch: 48 Training Loss: 0.298974
batch: 49 Training Loss: 0.305674
batch: 50 Training Loss: 0.305956
batch: 51 Training Loss: 0.312453
batch: 52 Training Loss: 0.309144
batch: 53 Training Loss: 0.308601
batch: 54 Training Loss: 0.308265
batch: 55 Training Loss: 0.307402
batch: 56 Training Loss: 0.305229
batch: 57 Training Loss: 0.304470
batch: 58 Training Loss: 0.302732
batch: 59 Training Loss: 0.303104
batch: 60 Training Loss: 0.308141
batch: 61 Training Loss: 0.305705
batch: 62 Training Loss: 0.304478
batch: 63 Training Loss: 0.304762
batch: 64 Training Loss: 0.303857
batch: 65 Training Loss: 0.302159
batch: 66 Training Loss: 0.301490
batch: 67 Training Loss: 0.303039
batch: 68 Training Loss: 0.299876
batch: 69 Training Loss: 0.300563
batch: 70 Training Loss: 0.299629
batch: 71 Training Loss: 0.299445
batch: 72 Training Loss: 0.306331
batch: 73 Training Loss: 0.303251
batch: 74 Training Loss: 0.300017
batch: 75 Training Loss: 0.299173
batch: 76 Training Loss: 0.299520
batch: 77 Training Loss: 0.302322
batch: 78 Training Loss: 0.301583
batch: 79 Training Loss: 0.299012
batch: 80 Training Loss: 0.299320
batch: 81 Training Loss: 0.298307
batch: 82 Training Loss: 0.296223
batch: 83 Training Loss: 0.296013
batch: 84 Training Loss: 0.295456
batch: 85 Training Loss: 0.293710
batch: 86 Training Loss: 0.292269
batch: 87 Training Loss: 0.290673
batch: 88 Training Loss: 0.290769
batch: 89 Training Loss: 0.290421
batch: 90 Training Loss: 0.289260
batch: 91 Training Loss: 0.287573
batch: 92 Training Loss: 0.287517
batch: 93 Training Loss: 0.285639
batch: 94 Training Loss: 0.286974
batch: 95 Training Loss: 0.285546

batch: 96 Training Loss: 0.285101
batch: 97 Training Loss: 0.283317
batch: 98 Training Loss: 0.282685
batch: 99 Training Loss: 0.284416
batch: 100 Training Loss: 0.282833
batch: 101 Training Loss: 0.282204
batch: 102 Training Loss: 0.281534
batch: 103 Training Loss: 0.280879
batch: 104 Training Loss: 0.283848
batch: 105 Training Loss: 0.285482
batch: 106 Training Loss: 0.285845
batch: 107 Training Loss: 0.284540
batch: 108 Training Loss: 0.284404
batch: 109 Training Loss: 0.282981
batch: 110 Training Loss: 0.282764
batch: 111 Training Loss: 0.281371
batch: 112 Training Loss: 0.280856
batch: 113 Training Loss: 0.283667
batch: 114 Training Loss: 0.283376
batch: 115 Training Loss: 0.282980
batch: 116 Training Loss: 0.282183
batch: 117 Training Loss: 0.280374
batch: 118 Training Loss: 0.279180
batch: 119 Training Loss: 0.280157
batch: 120 Training Loss: 0.278527
batch: 121 Training Loss: 0.279262
batch: 122 Training Loss: 0.278817
batch: 123 Training Loss: 0.278232
batch: 124 Training Loss: 0.278409
batch: 125 Training Loss: 0.281653
batch: 126 Training Loss: 0.280915
batch: 127 Training Loss: 0.280183
batch: 128 Training Loss: 0.279760
batch: 129 Training Loss: 0.279342
batch: 130 Training Loss: 0.279590
batch: 131 Training Loss: 0.280814
batch: 132 Training Loss: 0.279837
batch: 133 Training Loss: 0.278798
batch: 134 Training Loss: 0.279300
batch: 135 Training Loss: 0.278501
batch: 136 Training Loss: 0.280666
batch: 137 Training Loss: 0.280380
batch: 138 Training Loss: 0.279511
batch: 139 Training Loss: 0.279294
batch: 140 Training Loss: 0.278763
batch: 141 Training Loss: 0.280380
batch: 142 Training Loss: 0.281120
batch: 143 Training Loss: 0.281011
batch: 144 Training Loss: 0.281378
batch: 145 Training Loss: 0.281480
batch: 146 Training Loss: 0.281166
batch: 147 Training Loss: 0.280845
batch: 148 Training Loss: 0.282022
batch: 149 Training Loss: 0.282566
batch: 150 Training Loss: 0.281771
batch: 151 Training Loss: 0.281634
batch: 152 Training Loss: 0.280963
batch: 153 Training Loss: 0.279563
batch: 154 Training Loss: 0.278869
batch: 155 Training Loss: 0.279474
batch: 156 Training Loss: 0.278936
batch: 157 Training Loss: 0.279210
batch: 158 Training Loss: 0.278508
batch: 159 Training Loss: 0.278367
batch: 160 Training Loss: 0.278281
batch: 161 Training Loss: 0.277563
batch: 162 Training Loss: 0.276799
batch: 163 Training Loss: 0.276076
batch: 164 Training Loss: 0.275970
batch: 165 Training Loss: 0.275729
batch: 166 Training Loss: 0.275254
batch: 167 Training Loss: 0.275075
batch: 168 Training Loss: 0.274128
batch: 169 Training Loss: 0.274932
batch: 170 Training Loss: 0.274718
batch: 171 Training Loss: 0.274901
batch: 172 Training Loss: 0.275782
batch: 173 Training Loss: 0.276827
batch: 174 Training Loss: 0.275582
batch: 175 Training Loss: 0.275101
batch: 176 Training Loss: 0.276217
batch: 177 Training Loss: 0.276914
batch: 178 Training Loss: 0.277071
batch: 179 Training Loss: 0.277540
batch: 180 Training Loss: 0.277662
batch: 181 Training Loss: 0.277218
batch: 182 Training Loss: 0.277284
batch: 183 Training Loss: 0.276972
batch: 184 Training Loss: 0.277485
batch: 185 Training Loss: 0.276835
batch: 186 Training Loss: 0.277165
batch: 187 Training Loss: 0.280070

```
batch: 187      Training Loss: 0.280010
batch: 188      Training Loss: 0.280034
batch: 189      Training Loss: 0.279254
batch: 190      Training Loss: 0.278869
batch: 191      Training Loss: 0.279221
batch: 192      Training Loss: 0.278215
batch: 193      Training Loss: 0.278532
batch: 194      Training Loss: 0.279288
batch: 195      Training Loss: 0.279149
batch: 196      Training Loss: 0.279574
batch: 197      Training Loss: 0.279889
batch: 198      Training Loss: 0.279963
batch: 199      Training Loss: 0.279174
batch: 200      Training Loss: 0.280254
batch: 201      Training Loss: 0.280024
batch: 202      Training Loss: 0.281453
batch: 203      Training Loss: 0.281016
batch: 204      Training Loss: 0.281606
batch: 205      Training Loss: 0.283028
batch: 206      Training Loss: 0.282966
batch: 207      Training Loss: 0.282894
batch: 208      Training Loss: 0.282017
Epoch: 43       Validation Loss: 1.069352
batch: 0         Training Loss: 0.285696
batch: 1         Training Loss: 0.320833
batch: 2         Training Loss: 0.328833
batch: 3         Training Loss: 0.315504
batch: 4         Training Loss: 0.352385
batch: 5         Training Loss: 0.349463
batch: 6         Training Loss: 0.325466
batch: 7         Training Loss: 0.305390
batch: 8         Training Loss: 0.296379
batch: 9         Training Loss: 0.294129
batch: 10        Training Loss: 0.284099
batch: 11        Training Loss: 0.273808
batch: 12        Training Loss: 0.270635
batch: 13        Training Loss: 0.278996
batch: 14        Training Loss: 0.289053
batch: 15        Training Loss: 0.273616
batch: 16        Training Loss: 0.289780
batch: 17        Training Loss: 0.283767
batch: 18        Training Loss: 0.282545
batch: 19        Training Loss: 0.278907
batch: 20        Training Loss: 0.275590
batch: 21        Training Loss: 0.266753
batch: 22        Training Loss: 0.259214
batch: 23        Training Loss: 0.258602
batch: 24        Training Loss: 0.269334
batch: 25        Training Loss: 0.275664
batch: 26        Training Loss: 0.272942
batch: 27        Training Loss: 0.275627
batch: 28        Training Loss: 0.271525
batch: 29        Training Loss: 0.269343
batch: 30        Training Loss: 0.267707
batch: 31        Training Loss: 0.277029
batch: 32        Training Loss: 0.280183
batch: 33        Training Loss: 0.278863
batch: 34        Training Loss: 0.276162
batch: 35        Training Loss: 0.271218
batch: 36        Training Loss: 0.268787
batch: 37        Training Loss: 0.269212
batch: 38        Training Loss: 0.273886
batch: 39        Training Loss: 0.271340
batch: 40        Training Loss: 0.267496
batch: 41        Training Loss: 0.267523
batch: 42        Training Loss: 0.262365
batch: 43        Training Loss: 0.259587
batch: 44        Training Loss: 0.259017
batch: 45        Training Loss: 0.258291
batch: 46        Training Loss: 0.256892
batch: 47        Training Loss: 0.252361
batch: 48        Training Loss: 0.250153
batch: 49        Training Loss: 0.250735
batch: 50        Training Loss: 0.249106
batch: 51        Training Loss: 0.245678
batch: 52        Training Loss: 0.249547
batch: 53        Training Loss: 0.252860
batch: 54        Training Loss: 0.252432
batch: 55        Training Loss: 0.251789
batch: 56        Training Loss: 0.249464
batch: 57        Training Loss: 0.246968
batch: 58        Training Loss: 0.246765
batch: 59        Training Loss: 0.244616
batch: 60        Training Loss: 0.245743
batch: 61        Training Loss: 0.251109
batch: 62        Training Loss: 0.248961
batch: 63        Training Loss: 0.248570
batch: 64        Training Loss: 0.245851
batch: 65        Training Loss: 0.243199
batch: 66        Training Loss: 0.242979
batch: 67        Training Loss: 0.246287
batch: 68        Training Loss: 0.245720
```

batch: 00 Training Loss: 0.24674
batch: 69 Training Loss: 0.246704
batch: 70 Training Loss: 0.245487
batch: 71 Training Loss: 0.247770
batch: 72 Training Loss: 0.246495
batch: 73 Training Loss: 0.244682
batch: 74 Training Loss: 0.248098
batch: 75 Training Loss: 0.247359
batch: 76 Training Loss: 0.248477
batch: 77 Training Loss: 0.251727
batch: 78 Training Loss: 0.251487
batch: 79 Training Loss: 0.254315
batch: 80 Training Loss: 0.254727
batch: 81 Training Loss: 0.257581
batch: 82 Training Loss: 0.257190
batch: 83 Training Loss: 0.256724
batch: 84 Training Loss: 0.258299
batch: 85 Training Loss: 0.259935
batch: 86 Training Loss: 0.258396
batch: 87 Training Loss: 0.258207
batch: 88 Training Loss: 0.257381
batch: 89 Training Loss: 0.258196
batch: 90 Training Loss: 0.258571
batch: 91 Training Loss: 0.257553
batch: 92 Training Loss: 0.260951
batch: 93 Training Loss: 0.261106
batch: 94 Training Loss: 0.262105
batch: 95 Training Loss: 0.264345
batch: 96 Training Loss: 0.263469
batch: 97 Training Loss: 0.265662
batch: 98 Training Loss: 0.265349
batch: 99 Training Loss: 0.266387
batch: 100 Training Loss: 0.264848
batch: 101 Training Loss: 0.265277
batch: 102 Training Loss: 0.264547
batch: 103 Training Loss: 0.264746
batch: 104 Training Loss: 0.265105
batch: 105 Training Loss: 0.265217
batch: 106 Training Loss: 0.263541
batch: 107 Training Loss: 0.262290
batch: 108 Training Loss: 0.262828
batch: 109 Training Loss: 0.263220
batch: 110 Training Loss: 0.261811
batch: 111 Training Loss: 0.261421
batch: 112 Training Loss: 0.261809
batch: 113 Training Loss: 0.261039
batch: 114 Training Loss: 0.262837
batch: 115 Training Loss: 0.262143
batch: 116 Training Loss: 0.262218
batch: 117 Training Loss: 0.263093
batch: 118 Training Loss: 0.264071
batch: 119 Training Loss: 0.265796
batch: 120 Training Loss: 0.265629
batch: 121 Training Loss: 0.267460
batch: 122 Training Loss: 0.265949
batch: 123 Training Loss: 0.265874
batch: 124 Training Loss: 0.266552
batch: 125 Training Loss: 0.266830
batch: 126 Training Loss: 0.267326
batch: 127 Training Loss: 0.269131
batch: 128 Training Loss: 0.268117
batch: 129 Training Loss: 0.267224
batch: 130 Training Loss: 0.267051
batch: 131 Training Loss: 0.268399
batch: 132 Training Loss: 0.269708
batch: 133 Training Loss: 0.269227
batch: 134 Training Loss: 0.268632
batch: 135 Training Loss: 0.268131
batch: 136 Training Loss: 0.268866
batch: 137 Training Loss: 0.267454
batch: 138 Training Loss: 0.268582
batch: 139 Training Loss: 0.268486
batch: 140 Training Loss: 0.268449
batch: 141 Training Loss: 0.269174
batch: 142 Training Loss: 0.268348
batch: 143 Training Loss: 0.269991
batch: 144 Training Loss: 0.270709
batch: 145 Training Loss: 0.271214
batch: 146 Training Loss: 0.273309
batch: 147 Training Loss: 0.272835
batch: 148 Training Loss: 0.272370
batch: 149 Training Loss: 0.271024
batch: 150 Training Loss: 0.270856
batch: 151 Training Loss: 0.270421
batch: 152 Training Loss: 0.270176
batch: 153 Training Loss: 0.269915
batch: 154 Training Loss: 0.270076
batch: 155 Training Loss: 0.269571
batch: 156 Training Loss: 0.268740
batch: 157 Training Loss: 0.267280
batch: 158 Training Loss: 0.267258
batch: 159 Training Loss: 0.266167

batch: 157 Training Loss: 0.260407
batch: 160 Training Loss: 0.266255
batch: 161 Training Loss: 0.265846
batch: 162 Training Loss: 0.265924
batch: 163 Training Loss: 0.264991
batch: 164 Training Loss: 0.264666
batch: 165 Training Loss: 0.263990
batch: 166 Training Loss: 0.263776
batch: 167 Training Loss: 0.264319
batch: 168 Training Loss: 0.264549
batch: 169 Training Loss: 0.265239
batch: 170 Training Loss: 0.265373
batch: 171 Training Loss: 0.264652
batch: 172 Training Loss: 0.263824
batch: 173 Training Loss: 0.264120
batch: 174 Training Loss: 0.264398
batch: 175 Training Loss: 0.263264
batch: 176 Training Loss: 0.262722
batch: 177 Training Loss: 0.263278
batch: 178 Training Loss: 0.265222
batch: 179 Training Loss: 0.266163
batch: 180 Training Loss: 0.265870
batch: 181 Training Loss: 0.264947
batch: 182 Training Loss: 0.264999
batch: 183 Training Loss: 0.264686
batch: 184 Training Loss: 0.264529
batch: 185 Training Loss: 0.264711
batch: 186 Training Loss: 0.265018
batch: 187 Training Loss: 0.263920
batch: 188 Training Loss: 0.263699
batch: 189 Training Loss: 0.263073
batch: 190 Training Loss: 0.262656
batch: 191 Training Loss: 0.263064
batch: 192 Training Loss: 0.262915
batch: 193 Training Loss: 0.262853
batch: 194 Training Loss: 0.262008
batch: 195 Training Loss: 0.262601
batch: 196 Training Loss: 0.262269
batch: 197 Training Loss: 0.262233
batch: 198 Training Loss: 0.261949
batch: 199 Training Loss: 0.261365
batch: 200 Training Loss: 0.262652
batch: 201 Training Loss: 0.263465
batch: 202 Training Loss: 0.264859
batch: 203 Training Loss: 0.265016
batch: 204 Training Loss: 0.266000
batch: 205 Training Loss: 0.264990
batch: 206 Training Loss: 0.267841
batch: 207 Training Loss: 0.268116
batch: 208 Training Loss: 0.268854
Epoch: 44 Training Loss: 0.268854 Validation Loss: 1.205658
batch: 0 Training Loss: 0.406437
batch: 1 Training Loss: 0.365621
batch: 2 Training Loss: 0.270831
batch: 3 Training Loss: 0.233912
batch: 4 Training Loss: 0.205927
batch: 5 Training Loss: 0.214123
batch: 6 Training Loss: 0.209099
batch: 7 Training Loss: 0.216487
batch: 8 Training Loss: 0.247525
batch: 9 Training Loss: 0.257158
batch: 10 Training Loss: 0.250315
batch: 11 Training Loss: 0.250641
batch: 12 Training Loss: 0.293033
batch: 13 Training Loss: 0.302834
batch: 14 Training Loss: 0.315326
batch: 15 Training Loss: 0.314443
batch: 16 Training Loss: 0.315452
batch: 17 Training Loss: 0.341937
batch: 18 Training Loss: 0.330650
batch: 19 Training Loss: 0.316643
batch: 20 Training Loss: 0.306013
batch: 21 Training Loss: 0.303914
batch: 22 Training Loss: 0.302074
batch: 23 Training Loss: 0.299610
batch: 24 Training Loss: 0.310192
batch: 25 Training Loss: 0.314331
batch: 26 Training Loss: 0.305568
batch: 27 Training Loss: 0.311754
batch: 28 Training Loss: 0.318993
batch: 29 Training Loss: 0.312559
batch: 30 Training Loss: 0.321609
batch: 31 Training Loss: 0.328555
batch: 32 Training Loss: 0.324324
batch: 33 Training Loss: 0.325306
batch: 34 Training Loss: 0.321239
batch: 35 Training Loss: 0.317051
batch: 36 Training Loss: 0.312863
batch: 37 Training Loss: 0.311536
batch: 38 Training Loss: 0.309668
batch: 39 Training Loss: 0.314149
batch: 40 Training Loss: 0.312329

batch: 40 Training Loss: 0.312320
batch: 41 Training Loss: 0.308114
batch: 42 Training Loss: 0.308985
batch: 43 Training Loss: 0.305075
batch: 44 Training Loss: 0.304304
batch: 45 Training Loss: 0.302147
batch: 46 Training Loss: 0.299485
batch: 47 Training Loss: 0.307891
batch: 48 Training Loss: 0.309030
batch: 49 Training Loss: 0.305997
batch: 50 Training Loss: 0.304190
batch: 51 Training Loss: 0.302844
batch: 52 Training Loss: 0.303738
batch: 53 Training Loss: 0.303124
batch: 54 Training Loss: 0.301469
batch: 55 Training Loss: 0.299958
batch: 56 Training Loss: 0.298005
batch: 57 Training Loss: 0.294868
batch: 58 Training Loss: 0.297805
batch: 59 Training Loss: 0.294909
batch: 60 Training Loss: 0.295787
batch: 61 Training Loss: 0.293271
batch: 62 Training Loss: 0.291373
batch: 63 Training Loss: 0.292621
batch: 64 Training Loss: 0.290079
batch: 65 Training Loss: 0.289750
batch: 66 Training Loss: 0.289645
batch: 67 Training Loss: 0.286546
batch: 68 Training Loss: 0.285481
batch: 69 Training Loss: 0.282666
batch: 70 Training Loss: 0.281328
batch: 71 Training Loss: 0.279339
batch: 72 Training Loss: 0.282008
batch: 73 Training Loss: 0.284828
batch: 74 Training Loss: 0.287616
batch: 75 Training Loss: 0.289235
batch: 76 Training Loss: 0.288146
batch: 77 Training Loss: 0.288770
batch: 78 Training Loss: 0.289280
batch: 79 Training Loss: 0.289331
batch: 80 Training Loss: 0.288785
batch: 81 Training Loss: 0.288512
batch: 82 Training Loss: 0.285852
batch: 83 Training Loss: 0.284373
batch: 84 Training Loss: 0.282224
batch: 85 Training Loss: 0.279933
batch: 86 Training Loss: 0.277801
batch: 87 Training Loss: 0.278507
batch: 88 Training Loss: 0.277145
batch: 89 Training Loss: 0.275997
batch: 90 Training Loss: 0.275768
batch: 91 Training Loss: 0.275810
batch: 92 Training Loss: 0.275283
batch: 93 Training Loss: 0.277056
batch: 94 Training Loss: 0.278528
batch: 95 Training Loss: 0.278515
batch: 96 Training Loss: 0.278577
batch: 97 Training Loss: 0.276606
batch: 98 Training Loss: 0.274549
batch: 99 Training Loss: 0.276899
batch: 100 Training Loss: 0.276209
batch: 101 Training Loss: 0.277802
batch: 102 Training Loss: 0.276776
batch: 103 Training Loss: 0.275594
batch: 104 Training Loss: 0.275709
batch: 105 Training Loss: 0.275779
batch: 106 Training Loss: 0.274146
batch: 107 Training Loss: 0.274042
batch: 108 Training Loss: 0.275316
batch: 109 Training Loss: 0.275445
batch: 110 Training Loss: 0.276146
batch: 111 Training Loss: 0.274752
batch: 112 Training Loss: 0.274545
batch: 113 Training Loss: 0.274236
batch: 114 Training Loss: 0.273598
batch: 115 Training Loss: 0.274818
batch: 116 Training Loss: 0.274194
batch: 117 Training Loss: 0.273207
batch: 118 Training Loss: 0.273090
batch: 119 Training Loss: 0.274269
batch: 120 Training Loss: 0.274516
batch: 121 Training Loss: 0.274310
batch: 122 Training Loss: 0.273737
batch: 123 Training Loss: 0.273703
batch: 124 Training Loss: 0.271967
batch: 125 Training Loss: 0.272836
batch: 126 Training Loss: 0.273891
batch: 127 Training Loss: 0.273038
batch: 128 Training Loss: 0.274106
batch: 129 Training Loss: 0.274368
batch: 130 Training Loss: 0.275356
batch: 131 Training Loss: 0.276384

batch: 101 Training Loss: 0.27000
batch: 132 Training Loss: 0.277120
batch: 133 Training Loss: 0.276466
batch: 134 Training Loss: 0.275412
batch: 135 Training Loss: 0.274587
batch: 136 Training Loss: 0.275581
batch: 137 Training Loss: 0.275483
batch: 138 Training Loss: 0.274923
batch: 139 Training Loss: 0.275613
batch: 140 Training Loss: 0.274160
batch: 141 Training Loss: 0.274120
batch: 142 Training Loss: 0.274307
batch: 143 Training Loss: 0.273199
batch: 144 Training Loss: 0.273283
batch: 145 Training Loss: 0.275517
batch: 146 Training Loss: 0.275287
batch: 147 Training Loss: 0.274869
batch: 148 Training Loss: 0.273567
batch: 149 Training Loss: 0.272198
batch: 150 Training Loss: 0.272686
batch: 151 Training Loss: 0.272424
batch: 152 Training Loss: 0.273685
batch: 153 Training Loss: 0.273168
batch: 154 Training Loss: 0.272208
batch: 155 Training Loss: 0.272151
batch: 156 Training Loss: 0.270977
batch: 157 Training Loss: 0.270043
batch: 158 Training Loss: 0.269054
batch: 159 Training Loss: 0.267931
batch: 160 Training Loss: 0.268524
batch: 161 Training Loss: 0.267762
batch: 162 Training Loss: 0.267559
batch: 163 Training Loss: 0.267183
batch: 164 Training Loss: 0.266314
batch: 165 Training Loss: 0.268485
batch: 166 Training Loss: 0.268375
batch: 167 Training Loss: 0.268263
batch: 168 Training Loss: 0.268178
batch: 169 Training Loss: 0.268513
batch: 170 Training Loss: 0.268662
batch: 171 Training Loss: 0.268570
batch: 172 Training Loss: 0.267725
batch: 173 Training Loss: 0.268470
batch: 174 Training Loss: 0.267965
batch: 175 Training Loss: 0.267552
batch: 176 Training Loss: 0.267452
batch: 177 Training Loss: 0.267422
batch: 178 Training Loss: 0.268496
batch: 179 Training Loss: 0.268400
batch: 180 Training Loss: 0.269223
batch: 181 Training Loss: 0.271283
batch: 182 Training Loss: 0.272119
batch: 183 Training Loss: 0.271877
batch: 184 Training Loss: 0.272077
batch: 185 Training Loss: 0.272240
batch: 186 Training Loss: 0.274641
batch: 187 Training Loss: 0.276696
batch: 188 Training Loss: 0.276781
batch: 189 Training Loss: 0.277174
batch: 190 Training Loss: 0.276577
batch: 191 Training Loss: 0.276365
batch: 192 Training Loss: 0.275613
batch: 193 Training Loss: 0.275663
batch: 194 Training Loss: 0.276554
batch: 195 Training Loss: 0.276234
batch: 196 Training Loss: 0.276623
batch: 197 Training Loss: 0.276464
batch: 198 Training Loss: 0.276051
batch: 199 Training Loss: 0.275597
batch: 200 Training Loss: 0.275436
batch: 201 Training Loss: 0.274664
batch: 202 Training Loss: 0.274731
batch: 203 Training Loss: 0.274570
batch: 204 Training Loss: 0.274517
batch: 205 Training Loss: 0.275080
batch: 206 Training Loss: 0.274468
batch: 207 Training Loss: 0.274303
batch: 208 Training Loss: 0.274404
Epoch: 45 Training Loss: 0.274404 Validation Loss: 1.200998
batch: 0 Training Loss: 0.210687
batch: 1 Training Loss: 0.265768
batch: 2 Training Loss: 0.275505
batch: 3 Training Loss: 0.257139
batch: 4 Training Loss: 0.238677
batch: 5 Training Loss: 0.232545
batch: 6 Training Loss: 0.216265
batch: 7 Training Loss: 0.231362
batch: 8 Training Loss: 0.221713
batch: 9 Training Loss: 0.211539
batch: 10 Training Loss: 0.242159
batch: 11 Training Loss: 0.250451
batch: 12 Training Loss: 0.251406

```
-- -- Training Loss: 0.238707  
batch: 13 Training Loss: 0.246736  
batch: 14 Training Loss: 0.234774  
batch: 15 Training Loss: 0.231310  
batch: 16 Training Loss: 0.235540  
batch: 17 Training Loss: 0.228341  
batch: 18 Training Loss: 0.220605  
batch: 19 Training Loss: 0.220296  
batch: 20 Training Loss: 0.218591  
batch: 21 Training Loss: 0.212066  
batch: 22 Training Loss: 0.220130  
batch: 23 Training Loss: 0.215869  
batch: 24 Training Loss: 0.218271  
batch: 25 Training Loss: 0.219406  
batch: 26 Training Loss: 0.219433  
batch: 27 Training Loss: 0.223911  
batch: 28 Training Loss: 0.219799  
batch: 29 Training Loss: 0.224030  
batch: 30 Training Loss: 0.225227  
batch: 31 Training Loss: 0.222671  
batch: 32 Training Loss: 0.219083  
batch: 33 Training Loss: 0.226271  
batch: 34 Training Loss: 0.230956  
batch: 35 Training Loss: 0.229557  
batch: 36 Training Loss: 0.226761  
batch: 37 Training Loss: 0.223953  
batch: 38 Training Loss: 0.219223  
batch: 39 Training Loss: 0.220916  
batch: 40 Training Loss: 0.217101  
batch: 41 Training Loss: 0.216031  
batch: 42 Training Loss: 0.212270  
batch: 43 Training Loss: 0.210630  
batch: 44 Training Loss: 0.211440  
batch: 45 Training Loss: 0.208843  
batch: 46 Training Loss: 0.217404  
batch: 47 Training Loss: 0.218407  
batch: 48 Training Loss: 0.217501  
batch: 49 Training Loss: 0.217597  
batch: 50 Training Loss: 0.219295  
batch: 51 Training Loss: 0.216948  
batch: 52 Training Loss: 0.217338  
batch: 53 Training Loss: 0.217288  
batch: 54 Training Loss: 0.217714  
batch: 55 Training Loss: 0.225005  
batch: 56 Training Loss: 0.225629  
batch: 57 Training Loss: 0.226335  
batch: 58 Training Loss: 0.226398  
batch: 59 Training Loss: 0.224678  
batch: 60 Training Loss: 0.223349  
batch: 61 Training Loss: 0.224932  
batch: 62 Training Loss: 0.224026  
batch: 63 Training Loss: 0.221858  
batch: 64 Training Loss: 0.221188  
batch: 65 Training Loss: 0.222430  
batch: 66 Training Loss: 0.222620  
batch: 67 Training Loss: 0.222593  
batch: 68 Training Loss: 0.220736  
batch: 69 Training Loss: 0.219875  
batch: 70 Training Loss: 0.218043  
batch: 71 Training Loss: 0.219738  
batch: 72 Training Loss: 0.218946  
batch: 73 Training Loss: 0.218101  
batch: 74 Training Loss: 0.217137  
batch: 75 Training Loss: 0.218975  
batch: 76 Training Loss: 0.216900  
batch: 77 Training Loss: 0.216023  
batch: 78 Training Loss: 0.216556  
batch: 79 Training Loss: 0.217258  
batch: 80 Training Loss: 0.218122  
batch: 81 Training Loss: 0.222988  
batch: 82 Training Loss: 0.221015  
batch: 83 Training Loss: 0.220174  
batch: 84 Training Loss: 0.222535  
batch: 85 Training Loss: 0.220719  
batch: 86 Training Loss: 0.222787  
batch: 87 Training Loss: 0.222593  
batch: 88 Training Loss: 0.224112  
batch: 89 Training Loss: 0.222944  
batch: 90 Training Loss: 0.225378  
batch: 91 Training Loss: 0.225529  
batch: 92 Training Loss: 0.226642  
batch: 93 Training Loss: 0.227864  
batch: 94 Training Loss: 0.227463  
batch: 95 Training Loss: 0.226931  
batch: 96 Training Loss: 0.228642  
batch: 97 Training Loss: 0.230465  
batch: 98 Training Loss: 0.231973  
batch: 99 Training Loss: 0.234274  
batch: 100 Training Loss: 0.234900  
batch: 101 Training Loss: 0.236240  
batch: 102 Training Loss: 0.238853
```

batch: 104 Training Loss: 0.237718
batch: 105 Training Loss: 0.239123
batch: 106 Training Loss: 0.237783
batch: 107 Training Loss: 0.236625
batch: 108 Training Loss: 0.238725
batch: 109 Training Loss: 0.238657
batch: 110 Training Loss: 0.238285
batch: 111 Training Loss: 0.239856
batch: 112 Training Loss: 0.239203
batch: 113 Training Loss: 0.238668
batch: 114 Training Loss: 0.238418
batch: 115 Training Loss: 0.238058
batch: 116 Training Loss: 0.239395
batch: 117 Training Loss: 0.240527
batch: 118 Training Loss: 0.240301
batch: 119 Training Loss: 0.239374
batch: 120 Training Loss: 0.238940
batch: 121 Training Loss: 0.238942
batch: 122 Training Loss: 0.238810
batch: 123 Training Loss: 0.239056
batch: 124 Training Loss: 0.239976
batch: 125 Training Loss: 0.239054
batch: 126 Training Loss: 0.239822
batch: 127 Training Loss: 0.238543
batch: 128 Training Loss: 0.239307
batch: 129 Training Loss: 0.239119
batch: 130 Training Loss: 0.240170
batch: 131 Training Loss: 0.239571
batch: 132 Training Loss: 0.238998
batch: 133 Training Loss: 0.237940
batch: 134 Training Loss: 0.237647
batch: 135 Training Loss: 0.237489
batch: 136 Training Loss: 0.237661
batch: 137 Training Loss: 0.237686
batch: 138 Training Loss: 0.238337
batch: 139 Training Loss: 0.239422
batch: 140 Training Loss: 0.239923
batch: 141 Training Loss: 0.239417
batch: 142 Training Loss: 0.239229
batch: 143 Training Loss: 0.238664
batch: 144 Training Loss: 0.239733
batch: 145 Training Loss: 0.241200
batch: 146 Training Loss: 0.241808
batch: 147 Training Loss: 0.241327
batch: 148 Training Loss: 0.241360
batch: 149 Training Loss: 0.240676
batch: 150 Training Loss: 0.239968
batch: 151 Training Loss: 0.239758
batch: 152 Training Loss: 0.239689
batch: 153 Training Loss: 0.241481
batch: 154 Training Loss: 0.241995
batch: 155 Training Loss: 0.242758
batch: 156 Training Loss: 0.242362
batch: 157 Training Loss: 0.242743
batch: 158 Training Loss: 0.242671
batch: 159 Training Loss: 0.242579
batch: 160 Training Loss: 0.242665
batch: 161 Training Loss: 0.241950
batch: 162 Training Loss: 0.242208
batch: 163 Training Loss: 0.242189
batch: 164 Training Loss: 0.241879
batch: 165 Training Loss: 0.241334
batch: 166 Training Loss: 0.242302
batch: 167 Training Loss: 0.241914
batch: 168 Training Loss: 0.243136
batch: 169 Training Loss: 0.242936
batch: 170 Training Loss: 0.244162
batch: 171 Training Loss: 0.246199
batch: 172 Training Loss: 0.248377
batch: 173 Training Loss: 0.247939
batch: 174 Training Loss: 0.249333
batch: 175 Training Loss: 0.250092
batch: 176 Training Loss: 0.249366
batch: 177 Training Loss: 0.249573
batch: 178 Training Loss: 0.249242
batch: 179 Training Loss: 0.248246
batch: 180 Training Loss: 0.248829
batch: 181 Training Loss: 0.248779
batch: 182 Training Loss: 0.249825
batch: 183 Training Loss: 0.250854
batch: 184 Training Loss: 0.251531
batch: 185 Training Loss: 0.250879
batch: 186 Training Loss: 0.250379
batch: 187 Training Loss: 0.253052
batch: 188 Training Loss: 0.253357
batch: 189 Training Loss: 0.254033
batch: 190 Training Loss: 0.254252
batch: 191 Training Loss: 0.254793
batch: 192 Training Loss: 0.254581
batch: 193 Training Loss: 0.254862
batch: 194 Training Loss: 0.256385

```
batch: 195 Training Loss: 0.256247
batch: 196 Training Loss: 0.256845
batch: 197 Training Loss: 0.256143
batch: 198 Training Loss: 0.256591
batch: 199 Training Loss: 0.256014
batch: 200 Training Loss: 0.259164
batch: 201 Training Loss: 0.259760
batch: 202 Training Loss: 0.260115
batch: 203 Training Loss: 0.260625
batch: 204 Training Loss: 0.260566
batch: 205 Training Loss: 0.260576
batch: 206 Training Loss: 0.260308
batch: 207 Training Loss: 0.260460
batch: 208 Training Loss: 0.261637
Epoch: 46 Training Loss: 0.261637 Validation Loss: 1.201222
batch: 0 Training Loss: 0.118396
batch: 1 Training Loss: 0.121029
batch: 2 Training Loss: 0.103427
batch: 3 Training Loss: 0.216959
batch: 4 Training Loss: 0.203451
batch: 5 Training Loss: 0.186127
batch: 6 Training Loss: 0.184672
batch: 7 Training Loss: 0.191702
batch: 8 Training Loss: 0.185186
batch: 9 Training Loss: 0.190359
batch: 10 Training Loss: 0.189379
batch: 11 Training Loss: 0.196541
batch: 12 Training Loss: 0.202786
batch: 13 Training Loss: 0.213184
batch: 14 Training Loss: 0.201355
batch: 15 Training Loss: 0.202110
batch: 16 Training Loss: 0.205395
batch: 17 Training Loss: 0.210426
batch: 18 Training Loss: 0.215210
batch: 19 Training Loss: 0.215643
batch: 20 Training Loss: 0.216141
batch: 21 Training Loss: 0.218070
batch: 22 Training Loss: 0.216287
batch: 23 Training Loss: 0.220291
batch: 24 Training Loss: 0.223140
batch: 25 Training Loss: 0.219615
batch: 26 Training Loss: 0.224103
batch: 27 Training Loss: 0.234622
batch: 28 Training Loss: 0.244752
batch: 29 Training Loss: 0.240991
batch: 30 Training Loss: 0.244131
batch: 31 Training Loss: 0.245383
batch: 32 Training Loss: 0.245633
batch: 33 Training Loss: 0.243462
batch: 34 Training Loss: 0.239456
batch: 35 Training Loss: 0.235041
batch: 36 Training Loss: 0.233614
batch: 37 Training Loss: 0.234835
batch: 38 Training Loss: 0.230734
batch: 39 Training Loss: 0.228385
batch: 40 Training Loss: 0.226447
batch: 41 Training Loss: 0.228659
batch: 42 Training Loss: 0.225959
batch: 43 Training Loss: 0.227025
batch: 44 Training Loss: 0.225516
batch: 45 Training Loss: 0.225827
batch: 46 Training Loss: 0.222732
batch: 47 Training Loss: 0.223151
batch: 48 Training Loss: 0.222059
batch: 49 Training Loss: 0.222185
batch: 50 Training Loss: 0.220408
batch: 51 Training Loss: 0.218252
batch: 52 Training Loss: 0.216345
batch: 53 Training Loss: 0.216456
batch: 54 Training Loss: 0.215098
batch: 55 Training Loss: 0.212914
batch: 56 Training Loss: 0.217540
batch: 57 Training Loss: 0.214684
batch: 58 Training Loss: 0.216549
batch: 59 Training Loss: 0.218341
batch: 60 Training Loss: 0.220190
batch: 61 Training Loss: 0.218594
batch: 62 Training Loss: 0.217811
batch: 63 Training Loss: 0.217114
batch: 64 Training Loss: 0.218027
batch: 65 Training Loss: 0.221523
batch: 66 Training Loss: 0.218879
batch: 67 Training Loss: 0.219425
batch: 68 Training Loss: 0.216938
batch: 69 Training Loss: 0.217262
batch: 70 Training Loss: 0.217442
batch: 71 Training Loss: 0.217740
batch: 72 Training Loss: 0.217864
batch: 73 Training Loss: 0.217166
batch: 74 Training Loss: 0.218367
batch: 75 Training Loss: 0.218326
```

batch: 76 Training Loss: 0.216964
batch: 77 Training Loss: 0.217695
batch: 78 Training Loss: 0.217863
batch: 79 Training Loss: 0.218107
batch: 80 Training Loss: 0.217638
batch: 81 Training Loss: 0.216166
batch: 82 Training Loss: 0.218457
batch: 83 Training Loss: 0.219498
batch: 84 Training Loss: 0.217978
batch: 85 Training Loss: 0.217262
batch: 86 Training Loss: 0.217455
batch: 87 Training Loss: 0.216198
batch: 88 Training Loss: 0.215551
batch: 89 Training Loss: 0.215428
batch: 90 Training Loss: 0.215815
batch: 91 Training Loss: 0.216765
batch: 92 Training Loss: 0.217199
batch: 93 Training Loss: 0.217712
batch: 94 Training Loss: 0.215940
batch: 95 Training Loss: 0.216077
batch: 96 Training Loss: 0.214539
batch: 97 Training Loss: 0.216291
batch: 98 Training Loss: 0.215738
batch: 99 Training Loss: 0.214871
batch: 100 Training Loss: 0.213669
batch: 101 Training Loss: 0.213387
batch: 102 Training Loss: 0.213289
batch: 103 Training Loss: 0.214217
batch: 104 Training Loss: 0.214455
batch: 105 Training Loss: 0.215091
batch: 106 Training Loss: 0.214448
batch: 107 Training Loss: 0.214837
batch: 108 Training Loss: 0.214413
batch: 109 Training Loss: 0.213393
batch: 110 Training Loss: 0.213796
batch: 111 Training Loss: 0.213323
batch: 112 Training Loss: 0.213446
batch: 113 Training Loss: 0.216278
batch: 114 Training Loss: 0.216379
batch: 115 Training Loss: 0.217623
batch: 116 Training Loss: 0.217724
batch: 117 Training Loss: 0.216833
batch: 118 Training Loss: 0.217863
batch: 119 Training Loss: 0.217149
batch: 120 Training Loss: 0.217776
batch: 121 Training Loss: 0.217976
batch: 122 Training Loss: 0.218702
batch: 123 Training Loss: 0.219110
batch: 124 Training Loss: 0.218808
batch: 125 Training Loss: 0.220677
batch: 126 Training Loss: 0.221576
batch: 127 Training Loss: 0.221516
batch: 128 Training Loss: 0.223337
batch: 129 Training Loss: 0.223766
batch: 130 Training Loss: 0.223938
batch: 131 Training Loss: 0.224713
batch: 132 Training Loss: 0.225309
batch: 133 Training Loss: 0.224811
batch: 134 Training Loss: 0.225554
batch: 135 Training Loss: 0.225142
batch: 136 Training Loss: 0.225247
batch: 137 Training Loss: 0.225484
batch: 138 Training Loss: 0.225384
batch: 139 Training Loss: 0.224925
batch: 140 Training Loss: 0.225930
batch: 141 Training Loss: 0.226934
batch: 142 Training Loss: 0.226956
batch: 143 Training Loss: 0.226134
batch: 144 Training Loss: 0.227244
batch: 145 Training Loss: 0.227203
batch: 146 Training Loss: 0.228051
batch: 147 Training Loss: 0.228653
batch: 148 Training Loss: 0.228561
batch: 149 Training Loss: 0.229041
batch: 150 Training Loss: 0.229109
batch: 151 Training Loss: 0.228979
batch: 152 Training Loss: 0.228411
batch: 153 Training Loss: 0.227635
batch: 154 Training Loss: 0.228083
batch: 155 Training Loss: 0.227821
batch: 156 Training Loss: 0.227347
batch: 157 Training Loss: 0.228651
batch: 158 Training Loss: 0.229375
batch: 159 Training Loss: 0.228886
batch: 160 Training Loss: 0.228176
batch: 161 Training Loss: 0.228965
batch: 162 Training Loss: 0.228954
batch: 163 Training Loss: 0.230577
batch: 164 Training Loss: 0.230025
batch: 165 Training Loss: 0.230922
batch: 166 Training Loss: 0.230386

batch: 167 Training Loss: 0.230334
batch: 168 Training Loss: 0.230099
batch: 169 Training Loss: 0.230971
batch: 170 Training Loss: 0.231370
batch: 171 Training Loss: 0.231478
batch: 172 Training Loss: 0.231669
batch: 173 Training Loss: 0.231512
batch: 174 Training Loss: 0.230981
batch: 175 Training Loss: 0.230989
batch: 176 Training Loss: 0.230573
batch: 177 Training Loss: 0.230694
batch: 178 Training Loss: 0.231146
batch: 179 Training Loss: 0.232169
batch: 180 Training Loss: 0.231645
batch: 181 Training Loss: 0.231696
batch: 182 Training Loss: 0.231916
batch: 183 Training Loss: 0.231492
batch: 184 Training Loss: 0.231408
batch: 185 Training Loss: 0.231126
batch: 186 Training Loss: 0.231192
batch: 187 Training Loss: 0.232269
batch: 188 Training Loss: 0.232201
batch: 189 Training Loss: 0.233390
batch: 190 Training Loss: 0.232951
batch: 191 Training Loss: 0.232158
batch: 192 Training Loss: 0.231953
batch: 193 Training Loss: 0.231478
batch: 194 Training Loss: 0.231667
batch: 195 Training Loss: 0.232698
batch: 196 Training Loss: 0.233135
batch: 197 Training Loss: 0.233363
batch: 198 Training Loss: 0.234050
batch: 199 Training Loss: 0.234893
batch: 200 Training Loss: 0.235469
batch: 201 Training Loss: 0.234923
batch: 202 Training Loss: 0.236281
batch: 203 Training Loss: 0.236073
batch: 204 Training Loss: 0.235635
batch: 205 Training Loss: 0.237181
batch: 206 Training Loss: 0.237457
batch: 207 Training Loss: 0.236695
batch: 208 Training Loss: 0.235679
Epoch: 47 Training Loss: 0.235679 Validation Loss: 1.259252
batch: 0 Training Loss: 0.078765
batch: 1 Training Loss: 0.182626
batch: 2 Training Loss: 0.156379
batch: 3 Training Loss: 0.184771
batch: 4 Training Loss: 0.195155
batch: 5 Training Loss: 0.182824
batch: 6 Training Loss: 0.196154
batch: 7 Training Loss: 0.185397
batch: 8 Training Loss: 0.203428
batch: 9 Training Loss: 0.198623
batch: 10 Training Loss: 0.188868
batch: 11 Training Loss: 0.200036
batch: 12 Training Loss: 0.187925
batch: 13 Training Loss: 0.182996
batch: 14 Training Loss: 0.181186
batch: 15 Training Loss: 0.176181
batch: 16 Training Loss: 0.181661
batch: 17 Training Loss: 0.174779
batch: 18 Training Loss: 0.176897
batch: 19 Training Loss: 0.170844
batch: 20 Training Loss: 0.166191
batch: 21 Training Loss: 0.162345
batch: 22 Training Loss: 0.182333
batch: 23 Training Loss: 0.183931
batch: 24 Training Loss: 0.185330
batch: 25 Training Loss: 0.193076
batch: 26 Training Loss: 0.188738
batch: 27 Training Loss: 0.189465
batch: 28 Training Loss: 0.184412
batch: 29 Training Loss: 0.183448
batch: 30 Training Loss: 0.180748
batch: 31 Training Loss: 0.178580
batch: 32 Training Loss: 0.175797
batch: 33 Training Loss: 0.172853
batch: 34 Training Loss: 0.182033
batch: 35 Training Loss: 0.194463
batch: 36 Training Loss: 0.193580
batch: 37 Training Loss: 0.193626
batch: 38 Training Loss: 0.194422
batch: 39 Training Loss: 0.192586
batch: 40 Training Loss: 0.191335
batch: 41 Training Loss: 0.192728
batch: 42 Training Loss: 0.192356
batch: 43 Training Loss: 0.192522
batch: 44 Training Loss: 0.194228
batch: 45 Training Loss: 0.194478
batch: 46 Training Loss: 0.199728
batch: 47 Training Loss: 0.196945

batch: 48 Training Loss: 0.200557
batch: 49 Training Loss: 0.198240
batch: 50 Training Loss: 0.199459
batch: 51 Training Loss: 0.198514
batch: 52 Training Loss: 0.197812
batch: 53 Training Loss: 0.198815
batch: 54 Training Loss: 0.199838
batch: 55 Training Loss: 0.197956
batch: 56 Training Loss: 0.196678
batch: 57 Training Loss: 0.195097
batch: 58 Training Loss: 0.198131
batch: 59 Training Loss: 0.198508
batch: 60 Training Loss: 0.197688
batch: 61 Training Loss: 0.195936
batch: 62 Training Loss: 0.196466
batch: 63 Training Loss: 0.196332
batch: 64 Training Loss: 0.196436
batch: 65 Training Loss: 0.194373
batch: 66 Training Loss: 0.198954
batch: 67 Training Loss: 0.200130
batch: 68 Training Loss: 0.200749
batch: 69 Training Loss: 0.201694
batch: 70 Training Loss: 0.200896
batch: 71 Training Loss: 0.201320
batch: 72 Training Loss: 0.210567
batch: 73 Training Loss: 0.213105
batch: 74 Training Loss: 0.218118
batch: 75 Training Loss: 0.218695
batch: 76 Training Loss: 0.220637
batch: 77 Training Loss: 0.220418
batch: 78 Training Loss: 0.220702
batch: 79 Training Loss: 0.220808
batch: 80 Training Loss: 0.221748
batch: 81 Training Loss: 0.222947
batch: 82 Training Loss: 0.221583
batch: 83 Training Loss: 0.221625
batch: 84 Training Loss: 0.222623
batch: 85 Training Loss: 0.221692
batch: 86 Training Loss: 0.220675
batch: 87 Training Loss: 0.223619
batch: 88 Training Loss: 0.222455
batch: 89 Training Loss: 0.221685
batch: 90 Training Loss: 0.220909
batch: 91 Training Loss: 0.219511
batch: 92 Training Loss: 0.218770
batch: 93 Training Loss: 0.219415
batch: 94 Training Loss: 0.219546
batch: 95 Training Loss: 0.218929
batch: 96 Training Loss: 0.220385
batch: 97 Training Loss: 0.221262
batch: 98 Training Loss: 0.222532
batch: 99 Training Loss: 0.226206
batch: 100 Training Loss: 0.226430
batch: 101 Training Loss: 0.227828
batch: 102 Training Loss: 0.229645
batch: 103 Training Loss: 0.229160
batch: 104 Training Loss: 0.229213
batch: 105 Training Loss: 0.228170
batch: 106 Training Loss: 0.231256
batch: 107 Training Loss: 0.232454
batch: 108 Training Loss: 0.232728
batch: 109 Training Loss: 0.234996
batch: 110 Training Loss: 0.233849
batch: 111 Training Loss: 0.232920
batch: 112 Training Loss: 0.232723
batch: 113 Training Loss: 0.231447
batch: 114 Training Loss: 0.230355
batch: 115 Training Loss: 0.231002
batch: 116 Training Loss: 0.231243
batch: 117 Training Loss: 0.230595
batch: 118 Training Loss: 0.231120
batch: 119 Training Loss: 0.230542
batch: 120 Training Loss: 0.231312
batch: 121 Training Loss: 0.231312
batch: 122 Training Loss: 0.231300
batch: 123 Training Loss: 0.232583
batch: 124 Training Loss: 0.231938
batch: 125 Training Loss: 0.232640
batch: 126 Training Loss: 0.232647
batch: 127 Training Loss: 0.232266
batch: 128 Training Loss: 0.231757
batch: 129 Training Loss: 0.230982
batch: 130 Training Loss: 0.231188
batch: 131 Training Loss: 0.231368
batch: 132 Training Loss: 0.230497
batch: 133 Training Loss: 0.230815
batch: 134 Training Loss: 0.230061
batch: 135 Training Loss: 0.228943
batch: 136 Training Loss: 0.228673
batch: 137 Training Loss: 0.228455
batch: 138 Training Loss: 0.228293

batch: 139 Training Loss: 0.228580
batch: 140 Training Loss: 0.229243
batch: 141 Training Loss: 0.228912
batch: 142 Training Loss: 0.228162
batch: 143 Training Loss: 0.227667
batch: 144 Training Loss: 0.227136
batch: 145 Training Loss: 0.227649
batch: 146 Training Loss: 0.227680
batch: 147 Training Loss: 0.228613
batch: 148 Training Loss: 0.228698
batch: 149 Training Loss: 0.228483
batch: 150 Training Loss: 0.227850
batch: 151 Training Loss: 0.229119
batch: 152 Training Loss: 0.230533
batch: 153 Training Loss: 0.230712
batch: 154 Training Loss: 0.230199
batch: 155 Training Loss: 0.229053
batch: 156 Training Loss: 0.228890
batch: 157 Training Loss: 0.229803
batch: 158 Training Loss: 0.231795
batch: 159 Training Loss: 0.231071
batch: 160 Training Loss: 0.230720
batch: 161 Training Loss: 0.230841
batch: 162 Training Loss: 0.231246
batch: 163 Training Loss: 0.230508
batch: 164 Training Loss: 0.230738
batch: 165 Training Loss: 0.230602
batch: 166 Training Loss: 0.230068
batch: 167 Training Loss: 0.230673
batch: 168 Training Loss: 0.230087
batch: 169 Training Loss: 0.232189
batch: 170 Training Loss: 0.232023
batch: 171 Training Loss: 0.231318
batch: 172 Training Loss: 0.233292
batch: 173 Training Loss: 0.233586
batch: 174 Training Loss: 0.234090
batch: 175 Training Loss: 0.232949
batch: 176 Training Loss: 0.232546
batch: 177 Training Loss: 0.232451
batch: 178 Training Loss: 0.231887
batch: 179 Training Loss: 0.232257
batch: 180 Training Loss: 0.232072
batch: 181 Training Loss: 0.231882
batch: 182 Training Loss: 0.231443
batch: 183 Training Loss: 0.231632
batch: 184 Training Loss: 0.230982
batch: 185 Training Loss: 0.230327
batch: 186 Training Loss: 0.230077
batch: 187 Training Loss: 0.230515
batch: 188 Training Loss: 0.230489
batch: 189 Training Loss: 0.230683
batch: 190 Training Loss: 0.230922
batch: 191 Training Loss: 0.231637
batch: 192 Training Loss: 0.232445
batch: 193 Training Loss: 0.231700
batch: 194 Training Loss: 0.232247
batch: 195 Training Loss: 0.232878
batch: 196 Training Loss: 0.232659
batch: 197 Training Loss: 0.231917
batch: 198 Training Loss: 0.232168
batch: 199 Training Loss: 0.233740
batch: 200 Training Loss: 0.233984
batch: 201 Training Loss: 0.235759
batch: 202 Training Loss: 0.235496
batch: 203 Training Loss: 0.235241
batch: 204 Training Loss: 0.234442
batch: 205 Training Loss: 0.234151
batch: 206 Training Loss: 0.234080
batch: 207 Training Loss: 0.233174
batch: 208 Training Loss: 0.232518
Epoch: 48 Training Loss: 0.232518 Validation Loss: 1.140491
batch: 0 Training Loss: 0.073025
batch: 1 Training Loss: 0.082561
batch: 2 Training Loss: 0.091952
batch: 3 Training Loss: 0.162690
batch: 4 Training Loss: 0.171104
batch: 5 Training Loss: 0.194638
batch: 6 Training Loss: 0.198576
batch: 7 Training Loss: 0.193568
batch: 8 Training Loss: 0.222018
batch: 9 Training Loss: 0.236114
batch: 10 Training Loss: 0.228876
batch: 11 Training Loss: 0.223513
batch: 12 Training Loss: 0.222617
batch: 13 Training Loss: 0.228849
batch: 14 Training Loss: 0.225505
batch: 15 Training Loss: 0.216429
batch: 16 Training Loss: 0.218733
batch: 17 Training Loss: 0.209180
batch: 18 Training Loss: 0.212476
batch: 19 Training Loss: 0.207441

batch: 20 Training Loss: 0.206706
batch: 21 Training Loss: 0.208508
batch: 22 Training Loss: 0.203253
batch: 23 Training Loss: 0.201473
batch: 24 Training Loss: 0.195888
batch: 25 Training Loss: 0.194669
batch: 26 Training Loss: 0.194248
batch: 27 Training Loss: 0.194932
batch: 28 Training Loss: 0.199383
batch: 29 Training Loss: 0.196878
batch: 30 Training Loss: 0.198785
batch: 31 Training Loss: 0.200414
batch: 32 Training Loss: 0.203392
batch: 33 Training Loss: 0.204988
batch: 34 Training Loss: 0.203432
batch: 35 Training Loss: 0.201477
batch: 36 Training Loss: 0.198346
batch: 37 Training Loss: 0.198628
batch: 38 Training Loss: 0.197241
batch: 39 Training Loss: 0.194045
batch: 40 Training Loss: 0.190532
batch: 41 Training Loss: 0.187813
batch: 42 Training Loss: 0.189096
batch: 43 Training Loss: 0.188297
batch: 44 Training Loss: 0.188387
batch: 45 Training Loss: 0.186952
batch: 46 Training Loss: 0.186848
batch: 47 Training Loss: 0.189049
batch: 48 Training Loss: 0.187964
batch: 49 Training Loss: 0.186864
batch: 50 Training Loss: 0.189374
batch: 51 Training Loss: 0.190802
batch: 52 Training Loss: 0.190445
batch: 53 Training Loss: 0.189145
batch: 54 Training Loss: 0.190232
batch: 55 Training Loss: 0.191078
batch: 56 Training Loss: 0.192353
batch: 57 Training Loss: 0.193261
batch: 58 Training Loss: 0.193569
batch: 59 Training Loss: 0.201396
batch: 60 Training Loss: 0.204086
batch: 61 Training Loss: 0.203154
batch: 62 Training Loss: 0.203194
batch: 63 Training Loss: 0.202796
batch: 64 Training Loss: 0.200476
batch: 65 Training Loss: 0.201764
batch: 66 Training Loss: 0.201779
batch: 67 Training Loss: 0.204460
batch: 68 Training Loss: 0.204086
batch: 69 Training Loss: 0.205172
batch: 70 Training Loss: 0.203169
batch: 71 Training Loss: 0.204039
batch: 72 Training Loss: 0.203568
batch: 73 Training Loss: 0.207669
batch: 74 Training Loss: 0.208087
batch: 75 Training Loss: 0.209141
batch: 76 Training Loss: 0.208906
batch: 77 Training Loss: 0.208660
batch: 78 Training Loss: 0.210377
batch: 79 Training Loss: 0.209729
batch: 80 Training Loss: 0.208991
batch: 81 Training Loss: 0.206932
batch: 82 Training Loss: 0.205912
batch: 83 Training Loss: 0.205794
batch: 84 Training Loss: 0.206528
batch: 85 Training Loss: 0.206819
batch: 86 Training Loss: 0.210150
batch: 87 Training Loss: 0.209692
batch: 88 Training Loss: 0.209207
batch: 89 Training Loss: 0.209489
batch: 90 Training Loss: 0.209867
batch: 91 Training Loss: 0.208285
batch: 92 Training Loss: 0.207346
batch: 93 Training Loss: 0.205658
batch: 94 Training Loss: 0.204599
batch: 95 Training Loss: 0.207509
batch: 96 Training Loss: 0.208053
batch: 97 Training Loss: 0.207018
batch: 98 Training Loss: 0.207297
batch: 99 Training Loss: 0.212361
batch: 100 Training Loss: 0.213864
batch: 101 Training Loss: 0.213464
batch: 102 Training Loss: 0.213353
batch: 103 Training Loss: 0.211519
batch: 104 Training Loss: 0.211878
batch: 105 Training Loss: 0.215091
batch: 106 Training Loss: 0.215638
batch: 107 Training Loss: 0.214749
batch: 108 Training Loss: 0.214546
batch: 109 Training Loss: 0.214353
batch: 110 Training Loss: 0.213755

batch: 111 Training Loss: 0.213392
batch: 112 Training Loss: 0.214966
batch: 113 Training Loss: 0.215871
batch: 114 Training Loss: 0.214402
batch: 115 Training Loss: 0.214833
batch: 116 Training Loss: 0.218173
batch: 117 Training Loss: 0.216801
batch: 118 Training Loss: 0.216140
batch: 119 Training Loss: 0.215343
batch: 120 Training Loss: 0.216823
batch: 121 Training Loss: 0.216376
batch: 122 Training Loss: 0.216652
batch: 123 Training Loss: 0.216319
batch: 124 Training Loss: 0.216425
batch: 125 Training Loss: 0.216143
batch: 126 Training Loss: 0.215838
batch: 127 Training Loss: 0.215369
batch: 128 Training Loss: 0.214797
batch: 129 Training Loss: 0.214194
batch: 130 Training Loss: 0.213967
batch: 131 Training Loss: 0.213680
batch: 132 Training Loss: 0.213872
batch: 133 Training Loss: 0.214358
batch: 134 Training Loss: 0.215260
batch: 135 Training Loss: 0.216055
batch: 136 Training Loss: 0.215515
batch: 137 Training Loss: 0.217247
batch: 138 Training Loss: 0.216673
batch: 139 Training Loss: 0.216967
batch: 140 Training Loss: 0.216264
batch: 141 Training Loss: 0.215418
batch: 142 Training Loss: 0.216058
batch: 143 Training Loss: 0.215699
batch: 144 Training Loss: 0.215703
batch: 145 Training Loss: 0.215518
batch: 146 Training Loss: 0.216863
batch: 147 Training Loss: 0.218391
batch: 148 Training Loss: 0.219275
batch: 149 Training Loss: 0.220891
batch: 150 Training Loss: 0.221396
batch: 151 Training Loss: 0.220499
batch: 152 Training Loss: 0.220495
batch: 153 Training Loss: 0.220532
batch: 154 Training Loss: 0.219775
batch: 155 Training Loss: 0.220769
batch: 156 Training Loss: 0.219853
batch: 157 Training Loss: 0.219601
batch: 158 Training Loss: 0.218645
batch: 159 Training Loss: 0.218558
batch: 160 Training Loss: 0.220170
batch: 161 Training Loss: 0.220495
batch: 162 Training Loss: 0.221542
batch: 163 Training Loss: 0.221397
batch: 164 Training Loss: 0.221561
batch: 165 Training Loss: 0.220741
batch: 166 Training Loss: 0.221016
batch: 167 Training Loss: 0.221179
batch: 168 Training Loss: 0.220503
batch: 169 Training Loss: 0.220002
batch: 170 Training Loss: 0.220858
batch: 171 Training Loss: 0.220957
batch: 172 Training Loss: 0.222328
batch: 173 Training Loss: 0.222598
batch: 174 Training Loss: 0.223072
batch: 175 Training Loss: 0.222163
batch: 176 Training Loss: 0.221543
batch: 177 Training Loss: 0.222500
batch: 178 Training Loss: 0.222558
batch: 179 Training Loss: 0.221925
batch: 180 Training Loss: 0.221463
batch: 181 Training Loss: 0.221467
batch: 182 Training Loss: 0.220503
batch: 183 Training Loss: 0.219797
batch: 184 Training Loss: 0.219391
batch: 185 Training Loss: 0.220689
batch: 186 Training Loss: 0.220543
batch: 187 Training Loss: 0.219634
batch: 188 Training Loss: 0.221297
batch: 189 Training Loss: 0.221137
batch: 190 Training Loss: 0.220356
batch: 191 Training Loss: 0.219861
batch: 192 Training Loss: 0.219321
batch: 193 Training Loss: 0.218380
batch: 194 Training Loss: 0.217401
batch: 195 Training Loss: 0.217238
batch: 196 Training Loss: 0.216663
batch: 197 Training Loss: 0.217277
batch: 198 Training Loss: 0.216797
batch: 199 Training Loss: 0.217162
batch: 200 Training Loss: 0.217668
batch: 201 Training Loss: 0.217313
...
...

batch: 202 Training Loss: 0.217174
batch: 203 Training Loss: 0.216451
batch: 204 Training Loss: 0.215769
batch: 205 Training Loss: 0.215632
batch: 206 Training Loss: 0.214870
batch: 207 Training Loss: 0.214653
batch: 208 Training Loss: 0.214945
Epoch: 49 Training Loss: 0.214945 Validation Loss: 1.191178
batch: 0 Training Loss: 0.163992
batch: 1 Training Loss: 0.095837
batch: 2 Training Loss: 0.107212
batch: 3 Training Loss: 0.138686
batch: 4 Training Loss: 0.127970
batch: 5 Training Loss: 0.122158
batch: 6 Training Loss: 0.128214
batch: 7 Training Loss: 0.118614
batch: 8 Training Loss: 0.119226
batch: 9 Training Loss: 0.131452
batch: 10 Training Loss: 0.137793
batch: 11 Training Loss: 0.141622
batch: 12 Training Loss: 0.149965
batch: 13 Training Loss: 0.167203
batch: 14 Training Loss: 0.167530
batch: 15 Training Loss: 0.173186
batch: 16 Training Loss: 0.173140
batch: 17 Training Loss: 0.170616
batch: 18 Training Loss: 0.173568
batch: 19 Training Loss: 0.174352
batch: 20 Training Loss: 0.176958
batch: 21 Training Loss: 0.182835
batch: 22 Training Loss: 0.177600
batch: 23 Training Loss: 0.178320
batch: 24 Training Loss: 0.179686
batch: 25 Training Loss: 0.203519
batch: 26 Training Loss: 0.203267
batch: 27 Training Loss: 0.203504
batch: 28 Training Loss: 0.199813
batch: 29 Training Loss: 0.200085
batch: 30 Training Loss: 0.202984
batch: 31 Training Loss: 0.199826
batch: 32 Training Loss: 0.198219
batch: 33 Training Loss: 0.195684
batch: 34 Training Loss: 0.191810
batch: 35 Training Loss: 0.196200
batch: 36 Training Loss: 0.193824
batch: 37 Training Loss: 0.198345
batch: 38 Training Loss: 0.197838
batch: 39 Training Loss: 0.197964
batch: 40 Training Loss: 0.197847
batch: 41 Training Loss: 0.198214
batch: 42 Training Loss: 0.195581
batch: 43 Training Loss: 0.193511
batch: 44 Training Loss: 0.189754
batch: 45 Training Loss: 0.188836
batch: 46 Training Loss: 0.189959
batch: 47 Training Loss: 0.187240
batch: 48 Training Loss: 0.188414
batch: 49 Training Loss: 0.194555
batch: 50 Training Loss: 0.194182
batch: 51 Training Loss: 0.192396
batch: 52 Training Loss: 0.190016
batch: 53 Training Loss: 0.188749
batch: 54 Training Loss: 0.190230
batch: 55 Training Loss: 0.190202
batch: 56 Training Loss: 0.190997
batch: 57 Training Loss: 0.193704
batch: 58 Training Loss: 0.193071
batch: 59 Training Loss: 0.195528
batch: 60 Training Loss: 0.194821
batch: 61 Training Loss: 0.198151
batch: 62 Training Loss: 0.195471
batch: 63 Training Loss: 0.196643
batch: 64 Training Loss: 0.195803
batch: 65 Training Loss: 0.197332
batch: 66 Training Loss: 0.202955
batch: 67 Training Loss: 0.201600
batch: 68 Training Loss: 0.200484
batch: 69 Training Loss: 0.201884
batch: 70 Training Loss: 0.200044
batch: 71 Training Loss: 0.199014
batch: 72 Training Loss: 0.199096
batch: 73 Training Loss: 0.198184
batch: 74 Training Loss: 0.196693
batch: 75 Training Loss: 0.196123
batch: 76 Training Loss: 0.195692
batch: 77 Training Loss: 0.197015
batch: 78 Training Loss: 0.195634
batch: 79 Training Loss: 0.196097
batch: 80 Training Loss: 0.195208
batch: 81 Training Loss: 0.196194
batch: 82 Training Loss: 0.194529
. ~~~~~~

batch: 83 Training Loss: 0.193061
batch: 84 Training Loss: 0.191978
batch: 85 Training Loss: 0.189961
batch: 86 Training Loss: 0.190902
batch: 87 Training Loss: 0.191968
batch: 88 Training Loss: 0.191922
batch: 89 Training Loss: 0.190442
batch: 90 Training Loss: 0.190692
batch: 91 Training Loss: 0.190616
batch: 92 Training Loss: 0.190019
batch: 93 Training Loss: 0.190374
batch: 94 Training Loss: 0.190972
batch: 95 Training Loss: 0.194016
batch: 96 Training Loss: 0.195440
batch: 97 Training Loss: 0.195852
batch: 98 Training Loss: 0.197174
batch: 99 Training Loss: 0.196567
batch: 100 Training Loss: 0.200948
batch: 101 Training Loss: 0.200872
batch: 102 Training Loss: 0.199562
batch: 103 Training Loss: 0.201904
batch: 104 Training Loss: 0.201752
batch: 105 Training Loss: 0.200852
batch: 106 Training Loss: 0.200599
batch: 107 Training Loss: 0.201159
batch: 108 Training Loss: 0.201889
batch: 109 Training Loss: 0.201539
batch: 110 Training Loss: 0.203667
batch: 111 Training Loss: 0.203313
batch: 112 Training Loss: 0.208204
batch: 113 Training Loss: 0.207901
batch: 114 Training Loss: 0.209174
batch: 115 Training Loss: 0.208243
batch: 116 Training Loss: 0.207273
batch: 117 Training Loss: 0.207358
batch: 118 Training Loss: 0.206500
batch: 119 Training Loss: 0.207752
batch: 120 Training Loss: 0.208642
batch: 121 Training Loss: 0.208625
batch: 122 Training Loss: 0.209500
batch: 123 Training Loss: 0.210163
batch: 124 Training Loss: 0.209538
batch: 125 Training Loss: 0.209166
batch: 126 Training Loss: 0.208538
batch: 127 Training Loss: 0.207985
batch: 128 Training Loss: 0.208030
batch: 129 Training Loss: 0.208585
batch: 130 Training Loss: 0.209206
batch: 131 Training Loss: 0.208074
batch: 132 Training Loss: 0.207812
batch: 133 Training Loss: 0.207548
batch: 134 Training Loss: 0.211707
batch: 135 Training Loss: 0.211109
batch: 136 Training Loss: 0.211245
batch: 137 Training Loss: 0.211908
batch: 138 Training Loss: 0.211153
batch: 139 Training Loss: 0.210382
batch: 140 Training Loss: 0.210622
batch: 141 Training Loss: 0.209843
batch: 142 Training Loss: 0.210257
batch: 143 Training Loss: 0.209851
batch: 144 Training Loss: 0.208778
batch: 145 Training Loss: 0.208589
batch: 146 Training Loss: 0.209087
batch: 147 Training Loss: 0.208383
batch: 148 Training Loss: 0.207763
batch: 149 Training Loss: 0.207925
batch: 150 Training Loss: 0.207654
batch: 151 Training Loss: 0.206875
batch: 152 Training Loss: 0.205917
batch: 153 Training Loss: 0.205229
batch: 154 Training Loss: 0.204741
batch: 155 Training Loss: 0.204283
batch: 156 Training Loss: 0.203987
batch: 157 Training Loss: 0.203869
batch: 158 Training Loss: 0.204735
batch: 159 Training Loss: 0.205253
batch: 160 Training Loss: 0.205326
batch: 161 Training Loss: 0.206630
batch: 162 Training Loss: 0.205537
batch: 163 Training Loss: 0.204935
batch: 164 Training Loss: 0.204634
batch: 165 Training Loss: 0.204416
batch: 166 Training Loss: 0.205815
batch: 167 Training Loss: 0.206900
batch: 168 Training Loss: 0.206340
batch: 169 Training Loss: 0.207921
batch: 170 Training Loss: 0.207375
batch: 171 Training Loss: 0.207116
batch: 172 Training Loss: 0.206218
batch: 173 Training Loss: 0.205710

batch: 1/4 Training Loss: 0.205365
batch: 175 Training Loss: 0.206267
batch: 176 Training Loss: 0.206042
batch: 177 Training Loss: 0.205930
batch: 178 Training Loss: 0.207197
batch: 179 Training Loss: 0.206518
batch: 180 Training Loss: 0.206204
batch: 181 Training Loss: 0.205670
batch: 182 Training Loss: 0.205367
batch: 183 Training Loss: 0.204601
batch: 184 Training Loss: 0.205029
batch: 185 Training Loss: 0.204314
batch: 186 Training Loss: 0.203669
batch: 187 Training Loss: 0.203715
batch: 188 Training Loss: 0.204530
batch: 189 Training Loss: 0.204181
batch: 190 Training Loss: 0.205638
batch: 191 Training Loss: 0.205655
batch: 192 Training Loss: 0.205807
batch: 193 Training Loss: 0.205812
batch: 194 Training Loss: 0.206270
batch: 195 Training Loss: 0.205845
batch: 196 Training Loss: 0.206375
batch: 197 Training Loss: 0.207107
batch: 198 Training Loss: 0.206817
batch: 199 Training Loss: 0.205901
batch: 200 Training Loss: 0.205200
batch: 201 Training Loss: 0.204480
batch: 202 Training Loss: 0.204640
batch: 203 Training Loss: 0.205152
batch: 204 Training Loss: 0.205437
batch: 205 Training Loss: 0.205373
batch: 206 Training Loss: 0.205115
batch: 207 Training Loss: 0.205057
batch: 208 Training Loss: 0.204256
Epoch: 50 Training Loss: 0.204256 Validation Loss: 1.179073
batch: 0 Training Loss: 0.234415
batch: 1 Training Loss: 0.170799
batch: 2 Training Loss: 0.128386
batch: 3 Training Loss: 0.120235
batch: 4 Training Loss: 0.189008
batch: 5 Training Loss: 0.180572
batch: 6 Training Loss: 0.187262
batch: 7 Training Loss: 0.172489
batch: 8 Training Loss: 0.178738
batch: 9 Training Loss: 0.187439
batch: 10 Training Loss: 0.190167
batch: 11 Training Loss: 0.189952
batch: 12 Training Loss: 0.184432
batch: 13 Training Loss: 0.181074
batch: 14 Training Loss: 0.183842
batch: 15 Training Loss: 0.198995
batch: 16 Training Loss: 0.194327
batch: 17 Training Loss: 0.199323
batch: 18 Training Loss: 0.198336
batch: 19 Training Loss: 0.197730
batch: 20 Training Loss: 0.211413
batch: 21 Training Loss: 0.207674
batch: 22 Training Loss: 0.206778
batch: 23 Training Loss: 0.205752
batch: 24 Training Loss: 0.208656
batch: 25 Training Loss: 0.212223
batch: 26 Training Loss: 0.215436
batch: 27 Training Loss: 0.217556
batch: 28 Training Loss: 0.214187
batch: 29 Training Loss: 0.217478
batch: 30 Training Loss: 0.215576
batch: 31 Training Loss: 0.212101
batch: 32 Training Loss: 0.208513
batch: 33 Training Loss: 0.207850
batch: 34 Training Loss: 0.206797
batch: 35 Training Loss: 0.204728
batch: 36 Training Loss: 0.201415
batch: 37 Training Loss: 0.203932
batch: 38 Training Loss: 0.199504
batch: 39 Training Loss: 0.204868
batch: 40 Training Loss: 0.205769
batch: 41 Training Loss: 0.207090
batch: 42 Training Loss: 0.207430
batch: 43 Training Loss: 0.205930
batch: 44 Training Loss: 0.206476
batch: 45 Training Loss: 0.207400
batch: 46 Training Loss: 0.206755
batch: 47 Training Loss: 0.204807
batch: 48 Training Loss: 0.206863
batch: 49 Training Loss: 0.211083
batch: 50 Training Loss: 0.209422
batch: 51 Training Loss: 0.207995
batch: 52 Training Loss: 0.205440
batch: 53 Training Loss: 0.205498
batch: 54 Training Loss: 0.203723

batch: 55 Training Loss: 0.202618
batch: 56 Training Loss: 0.201521
batch: 57 Training Loss: 0.202609
batch: 58 Training Loss: 0.204377
batch: 59 Training Loss: 0.207032
batch: 60 Training Loss: 0.208024
batch: 61 Training Loss: 0.207600
batch: 62 Training Loss: 0.213652
batch: 63 Training Loss: 0.219965
batch: 64 Training Loss: 0.219821
batch: 65 Training Loss: 0.217472
batch: 66 Training Loss: 0.218210
batch: 67 Training Loss: 0.216661
batch: 68 Training Loss: 0.216155
batch: 69 Training Loss: 0.215062
batch: 70 Training Loss: 0.214943
batch: 71 Training Loss: 0.213078
batch: 72 Training Loss: 0.211303
batch: 73 Training Loss: 0.213158
batch: 74 Training Loss: 0.214255
batch: 75 Training Loss: 0.213105
batch: 76 Training Loss: 0.211384
batch: 77 Training Loss: 0.211354
batch: 78 Training Loss: 0.211704
batch: 79 Training Loss: 0.211115
batch: 80 Training Loss: 0.210917
batch: 81 Training Loss: 0.212007
batch: 82 Training Loss: 0.211214
batch: 83 Training Loss: 0.211522
batch: 84 Training Loss: 0.211176
batch: 85 Training Loss: 0.213800
batch: 86 Training Loss: 0.212309
batch: 87 Training Loss: 0.213567
batch: 88 Training Loss: 0.212390
batch: 89 Training Loss: 0.210971
batch: 90 Training Loss: 0.210414
batch: 91 Training Loss: 0.209952
batch: 92 Training Loss: 0.208083
batch: 93 Training Loss: 0.208317
batch: 94 Training Loss: 0.208251
batch: 95 Training Loss: 0.212897
batch: 96 Training Loss: 0.211387
batch: 97 Training Loss: 0.210468
batch: 98 Training Loss: 0.210689
batch: 99 Training Loss: 0.209510
batch: 100 Training Loss: 0.215065
batch: 101 Training Loss: 0.218789
batch: 102 Training Loss: 0.219208
batch: 103 Training Loss: 0.217973
batch: 104 Training Loss: 0.219422
batch: 105 Training Loss: 0.218936
batch: 106 Training Loss: 0.219545
batch: 107 Training Loss: 0.219899
batch: 108 Training Loss: 0.219880
batch: 109 Training Loss: 0.219013
batch: 110 Training Loss: 0.219477
batch: 111 Training Loss: 0.222049
batch: 112 Training Loss: 0.222843
batch: 113 Training Loss: 0.223392
batch: 114 Training Loss: 0.223260
batch: 115 Training Loss: 0.222017
batch: 116 Training Loss: 0.221092
batch: 117 Training Loss: 0.220438
batch: 118 Training Loss: 0.220017
batch: 119 Training Loss: 0.220866
batch: 120 Training Loss: 0.220455
batch: 121 Training Loss: 0.222261
batch: 122 Training Loss: 0.222488
batch: 123 Training Loss: 0.222686
batch: 124 Training Loss: 0.222917
batch: 125 Training Loss: 0.223499
batch: 126 Training Loss: 0.222936
batch: 127 Training Loss: 0.225994
batch: 128 Training Loss: 0.225137
batch: 129 Training Loss: 0.224427
batch: 130 Training Loss: 0.223636
batch: 131 Training Loss: 0.223379
batch: 132 Training Loss: 0.222391
batch: 133 Training Loss: 0.223933
batch: 134 Training Loss: 0.224710
batch: 135 Training Loss: 0.225092
batch: 136 Training Loss: 0.224777
batch: 137 Training Loss: 0.225205
batch: 138 Training Loss: 0.223765
batch: 139 Training Loss: 0.222866
batch: 140 Training Loss: 0.222775
batch: 141 Training Loss: 0.224559
batch: 142 Training Loss: 0.224150
batch: 143 Training Loss: 0.224012
batch: 144 Training Loss: 0.223086
batch: 145 Training Loss: 0.225131
batch: 146 Training Loss: 0.224512

batch: 140 Training Loss: 0.224494
batch: 147 Training Loss: 0.224497
batch: 148 Training Loss: 0.224517
batch: 149 Training Loss: 0.224196
batch: 150 Training Loss: 0.222907
batch: 151 Training Loss: 0.221975
batch: 152 Training Loss: 0.222212
batch: 153 Training Loss: 0.221284
batch: 154 Training Loss: 0.221293
batch: 155 Training Loss: 0.220968
batch: 156 Training Loss: 0.220239
batch: 157 Training Loss: 0.220108
batch: 158 Training Loss: 0.219877
batch: 159 Training Loss: 0.219364
batch: 160 Training Loss: 0.218918
batch: 161 Training Loss: 0.219395
batch: 162 Training Loss: 0.218871
batch: 163 Training Loss: 0.218276
batch: 164 Training Loss: 0.218675
batch: 165 Training Loss: 0.218339
batch: 166 Training Loss: 0.219073
batch: 167 Training Loss: 0.218298
batch: 168 Training Loss: 0.217265
batch: 169 Training Loss: 0.216961
batch: 170 Training Loss: 0.217339
batch: 171 Training Loss: 0.217810
batch: 172 Training Loss: 0.218463
batch: 173 Training Loss: 0.218874
batch: 174 Training Loss: 0.217803
batch: 175 Training Loss: 0.217445
batch: 176 Training Loss: 0.217575
batch: 177 Training Loss: 0.217327
batch: 178 Training Loss: 0.216601
batch: 179 Training Loss: 0.215841
batch: 180 Training Loss: 0.215481
batch: 181 Training Loss: 0.215347
batch: 182 Training Loss: 0.215173
batch: 183 Training Loss: 0.214362
batch: 184 Training Loss: 0.214560
batch: 185 Training Loss: 0.215177
batch: 186 Training Loss: 0.214893
batch: 187 Training Loss: 0.214321
batch: 188 Training Loss: 0.215307
batch: 189 Training Loss: 0.215931
batch: 190 Training Loss: 0.216628
batch: 191 Training Loss: 0.216648
batch: 192 Training Loss: 0.216872
batch: 193 Training Loss: 0.216322
batch: 194 Training Loss: 0.215958
batch: 195 Training Loss: 0.215361
batch: 196 Training Loss: 0.215113
batch: 197 Training Loss: 0.214911
batch: 198 Training Loss: 0.216091
batch: 199 Training Loss: 0.215743
batch: 200 Training Loss: 0.215583
batch: 201 Training Loss: 0.215379
batch: 202 Training Loss: 0.214438
batch: 203 Training Loss: 0.215069
batch: 204 Training Loss: 0.215585
batch: 205 Training Loss: 0.215408
batch: 206 Training Loss: 0.216965
batch: 207 Training Loss: 0.216975
batch: 208 Training Loss: 0.217482
Epoch: 51 Training Loss: 0.217482 Validation Loss: 1.086330
batch: 0 Training Loss: 0.384723
batch: 1 Training Loss: 0.268194
batch: 2 Training Loss: 0.190700
batch: 3 Training Loss: 0.179927
batch: 4 Training Loss: 0.203124
batch: 5 Training Loss: 0.189937
batch: 6 Training Loss: 0.203009
batch: 7 Training Loss: 0.191002
batch: 8 Training Loss: 0.176520
batch: 9 Training Loss: 0.177337
batch: 10 Training Loss: 0.165797
batch: 11 Training Loss: 0.171341
batch: 12 Training Loss: 0.177946
batch: 13 Training Loss: 0.177748
batch: 14 Training Loss: 0.178257
batch: 15 Training Loss: 0.169830
batch: 16 Training Loss: 0.165949
batch: 17 Training Loss: 0.159283
batch: 18 Training Loss: 0.157741
batch: 19 Training Loss: 0.171694
batch: 20 Training Loss: 0.175142
batch: 21 Training Loss: 0.178382
batch: 22 Training Loss: 0.176574
batch: 23 Training Loss: 0.174419
batch: 24 Training Loss: 0.178740
batch: 25 Training Loss: 0.173233
batch: 26 Training Loss: 0.179325
batch: 27 Training Loss: 0.180151

batch: 27 Training Loss: 0.188451
batch: 28 Training Loss: 0.179241
batch: 29 Training Loss: 0.182932
batch: 30 Training Loss: 0.177834
batch: 31 Training Loss: 0.175388
batch: 32 Training Loss: 0.181583
batch: 33 Training Loss: 0.180329
batch: 34 Training Loss: 0.177126
batch: 35 Training Loss: 0.180484
batch: 36 Training Loss: 0.177616
batch: 37 Training Loss: 0.175521
batch: 38 Training Loss: 0.180011
batch: 39 Training Loss: 0.184079
batch: 40 Training Loss: 0.184130
batch: 41 Training Loss: 0.185791
batch: 42 Training Loss: 0.183240
batch: 43 Training Loss: 0.190198
batch: 44 Training Loss: 0.187243
batch: 45 Training Loss: 0.184613
batch: 46 Training Loss: 0.183910
batch: 47 Training Loss: 0.182671
batch: 48 Training Loss: 0.183368
batch: 49 Training Loss: 0.185627
batch: 50 Training Loss: 0.185928
batch: 51 Training Loss: 0.185820
batch: 52 Training Loss: 0.188599
batch: 53 Training Loss: 0.185991
batch: 54 Training Loss: 0.184723
batch: 55 Training Loss: 0.187660
batch: 56 Training Loss: 0.186355
batch: 57 Training Loss: 0.186506
batch: 58 Training Loss: 0.186242
batch: 59 Training Loss: 0.189217
batch: 60 Training Loss: 0.190773
batch: 61 Training Loss: 0.191416
batch: 62 Training Loss: 0.191028
batch: 63 Training Loss: 0.189870
batch: 64 Training Loss: 0.188953
batch: 65 Training Loss: 0.186574
batch: 66 Training Loss: 0.185970
batch: 67 Training Loss: 0.185264
batch: 68 Training Loss: 0.185061
batch: 69 Training Loss: 0.185138
batch: 70 Training Loss: 0.187319
batch: 71 Training Loss: 0.186212
batch: 72 Training Loss: 0.185055
batch: 73 Training Loss: 0.183290
batch: 74 Training Loss: 0.183914
batch: 75 Training Loss: 0.187416
batch: 76 Training Loss: 0.187737
batch: 77 Training Loss: 0.187316
batch: 78 Training Loss: 0.185523
batch: 79 Training Loss: 0.185685
batch: 80 Training Loss: 0.187480
batch: 81 Training Loss: 0.187274
batch: 82 Training Loss: 0.186817
batch: 83 Training Loss: 0.186097
batch: 84 Training Loss: 0.185647
batch: 85 Training Loss: 0.186055
batch: 86 Training Loss: 0.187344
batch: 87 Training Loss: 0.186638
batch: 88 Training Loss: 0.186564
batch: 89 Training Loss: 0.185855
batch: 90 Training Loss: 0.184942
batch: 91 Training Loss: 0.184887
batch: 92 Training Loss: 0.183347
batch: 93 Training Loss: 0.184529
batch: 94 Training Loss: 0.184188
batch: 95 Training Loss: 0.187798
batch: 96 Training Loss: 0.187491
batch: 97 Training Loss: 0.187987
batch: 98 Training Loss: 0.187300
batch: 99 Training Loss: 0.192160
batch: 100 Training Loss: 0.192243
batch: 101 Training Loss: 0.194092
batch: 102 Training Loss: 0.195904
batch: 103 Training Loss: 0.195868
batch: 104 Training Loss: 0.195432
batch: 105 Training Loss: 0.195585
batch: 106 Training Loss: 0.195007
batch: 107 Training Loss: 0.195290
batch: 108 Training Loss: 0.194073
batch: 109 Training Loss: 0.194537
batch: 110 Training Loss: 0.194990
batch: 111 Training Loss: 0.196510
batch: 112 Training Loss: 0.196311
batch: 113 Training Loss: 0.196584
batch: 114 Training Loss: 0.197244
batch: 115 Training Loss: 0.198554
batch: 116 Training Loss: 0.199571
batch: 117 Training Loss: 0.201625
batch: 118 Training Loss: 0.201682

batch: 118 Training Loss: 0.201004
batch: 119 Training Loss: 0.201792
batch: 120 Training Loss: 0.201614
batch: 121 Training Loss: 0.202172
batch: 122 Training Loss: 0.202461
batch: 123 Training Loss: 0.202575
batch: 124 Training Loss: 0.202078
batch: 125 Training Loss: 0.201707
batch: 126 Training Loss: 0.202257
batch: 127 Training Loss: 0.202065
batch: 128 Training Loss: 0.201133
batch: 129 Training Loss: 0.204548
batch: 130 Training Loss: 0.203669
batch: 131 Training Loss: 0.203363
batch: 132 Training Loss: 0.204319
batch: 133 Training Loss: 0.206656
batch: 134 Training Loss: 0.206801
batch: 135 Training Loss: 0.209465
batch: 136 Training Loss: 0.210788
batch: 137 Training Loss: 0.210575
batch: 138 Training Loss: 0.210514
batch: 139 Training Loss: 0.210141
batch: 140 Training Loss: 0.210385
batch: 141 Training Loss: 0.210613
batch: 142 Training Loss: 0.210545
batch: 143 Training Loss: 0.211977
batch: 144 Training Loss: 0.212784
batch: 145 Training Loss: 0.212581
batch: 146 Training Loss: 0.213233
batch: 147 Training Loss: 0.212565
batch: 148 Training Loss: 0.212225
batch: 149 Training Loss: 0.212765
batch: 150 Training Loss: 0.211490
batch: 151 Training Loss: 0.210500
batch: 152 Training Loss: 0.210360
batch: 153 Training Loss: 0.210032
batch: 154 Training Loss: 0.211391
batch: 155 Training Loss: 0.211100
batch: 156 Training Loss: 0.211122
batch: 157 Training Loss: 0.211844
batch: 158 Training Loss: 0.213495
batch: 159 Training Loss: 0.212767
batch: 160 Training Loss: 0.214872
batch: 161 Training Loss: 0.215501
batch: 162 Training Loss: 0.215867
batch: 163 Training Loss: 0.214685
batch: 164 Training Loss: 0.214360
batch: 165 Training Loss: 0.213988
batch: 166 Training Loss: 0.213651
batch: 167 Training Loss: 0.213945
batch: 168 Training Loss: 0.213741
batch: 169 Training Loss: 0.214257
batch: 170 Training Loss: 0.214683
batch: 171 Training Loss: 0.213546
batch: 172 Training Loss: 0.214624
batch: 173 Training Loss: 0.214012
batch: 174 Training Loss: 0.214210
batch: 175 Training Loss: 0.213600
batch: 176 Training Loss: 0.213034
batch: 177 Training Loss: 0.213485
batch: 178 Training Loss: 0.213445
batch: 179 Training Loss: 0.213040
batch: 180 Training Loss: 0.212896
batch: 181 Training Loss: 0.212839
batch: 182 Training Loss: 0.212032
batch: 183 Training Loss: 0.212057
batch: 184 Training Loss: 0.211975
batch: 185 Training Loss: 0.211447
batch: 186 Training Loss: 0.212365
batch: 187 Training Loss: 0.212045
batch: 188 Training Loss: 0.211416
batch: 189 Training Loss: 0.211132
batch: 190 Training Loss: 0.210355
batch: 191 Training Loss: 0.210988
batch: 192 Training Loss: 0.211158
batch: 193 Training Loss: 0.210355
batch: 194 Training Loss: 0.210067
batch: 195 Training Loss: 0.210961
batch: 196 Training Loss: 0.210067
batch: 197 Training Loss: 0.211432
batch: 198 Training Loss: 0.212725
batch: 199 Training Loss: 0.212337
batch: 200 Training Loss: 0.213058
batch: 201 Training Loss: 0.214386
batch: 202 Training Loss: 0.214719
batch: 203 Training Loss: 0.214053
batch: 204 Training Loss: 0.214072
batch: 205 Training Loss: 0.213467
batch: 206 Training Loss: 0.214190
batch: 207 Training Loss: 0.213918
batch: 208 Training Loss: 0.213758

Epoch: 52 Training Loss: 0.213758 Validation Loss: 1.210130

batch: 0 Training Loss: 0.197268
batch: 1 Training Loss: 0.181959
batch: 2 Training Loss: 0.159767
batch: 3 Training Loss: 0.136757
batch: 4 Training Loss: 0.187621
batch: 5 Training Loss: 0.183638
batch: 6 Training Loss: 0.168491
batch: 7 Training Loss: 0.172969
batch: 8 Training Loss: 0.156543
batch: 9 Training Loss: 0.165619
batch: 10 Training Loss: 0.158819
batch: 11 Training Loss: 0.159428
batch: 12 Training Loss: 0.157393
batch: 13 Training Loss: 0.156401
batch: 14 Training Loss: 0.160895
batch: 15 Training Loss: 0.157456
batch: 16 Training Loss: 0.191417
batch: 17 Training Loss: 0.193417
batch: 18 Training Loss: 0.201699
batch: 19 Training Loss: 0.204935
batch: 20 Training Loss: 0.199323
batch: 21 Training Loss: 0.200121
batch: 22 Training Loss: 0.201101
batch: 23 Training Loss: 0.201810
batch: 24 Training Loss: 0.207292
batch: 25 Training Loss: 0.210963
batch: 26 Training Loss: 0.204284
batch: 27 Training Loss: 0.202648
batch: 28 Training Loss: 0.218918
batch: 29 Training Loss: 0.221713
batch: 30 Training Loss: 0.217872
batch: 31 Training Loss: 0.215759
batch: 32 Training Loss: 0.213982
batch: 33 Training Loss: 0.210937
batch: 34 Training Loss: 0.209997
batch: 35 Training Loss: 0.214779
batch: 36 Training Loss: 0.216340
batch: 37 Training Loss: 0.215646
batch: 38 Training Loss: 0.213106
batch: 39 Training Loss: 0.217823
batch: 40 Training Loss: 0.223667
batch: 41 Training Loss: 0.229180
batch: 42 Training Loss: 0.229073
batch: 43 Training Loss: 0.227441
batch: 44 Training Loss: 0.224159
batch: 45 Training Loss: 0.224200
batch: 46 Training Loss: 0.234231
batch: 47 Training Loss: 0.237494
batch: 48 Training Loss: 0.235821
batch: 49 Training Loss: 0.232467
batch: 50 Training Loss: 0.238294
batch: 51 Training Loss: 0.238898
batch: 52 Training Loss: 0.235440
batch: 53 Training Loss: 0.234945
batch: 54 Training Loss: 0.233032
batch: 55 Training Loss: 0.230144
batch: 56 Training Loss: 0.232094
batch: 57 Training Loss: 0.231834
batch: 58 Training Loss: 0.233793
batch: 59 Training Loss: 0.236651
batch: 60 Training Loss: 0.240343
batch: 61 Training Loss: 0.241139
batch: 62 Training Loss: 0.240336
batch: 63 Training Loss: 0.238028
batch: 64 Training Loss: 0.236342
batch: 65 Training Loss: 0.234813
batch: 66 Training Loss: 0.233806
batch: 67 Training Loss: 0.234694
batch: 68 Training Loss: 0.234936
batch: 69 Training Loss: 0.233975
batch: 70 Training Loss: 0.231666
batch: 71 Training Loss: 0.231014
batch: 72 Training Loss: 0.231059
batch: 73 Training Loss: 0.229427
batch: 74 Training Loss: 0.228711
batch: 75 Training Loss: 0.229468
batch: 76 Training Loss: 0.230227
batch: 77 Training Loss: 0.228259
batch: 78 Training Loss: 0.227769
batch: 79 Training Loss: 0.226479
batch: 80 Training Loss: 0.226602
batch: 81 Training Loss: 0.223951
batch: 82 Training Loss: 0.224367
batch: 83 Training Loss: 0.222957
batch: 84 Training Loss: 0.223709
batch: 85 Training Loss: 0.225416
batch: 86 Training Loss: 0.226176
batch: 87 Training Loss: 0.228399
batch: 88 Training Loss: 0.229369
batch: 89 Training Loss: 0.228908
batch: 90 Training Loss: 0.234886

Validation Loss: 0.226100

```
-- -- -- -- --  
batch: 91 Training Loss: 0.232599  
batch: 92 Training Loss: 0.232244  
batch: 93 Training Loss: 0.232077  
batch: 94 Training Loss: 0.231497  
batch: 95 Training Loss: 0.230538  
batch: 96 Training Loss: 0.231948  
batch: 97 Training Loss: 0.232388  
batch: 98 Training Loss: 0.232015  
batch: 99 Training Loss: 0.233201  
batch: 100 Training Loss: 0.233000  
batch: 101 Training Loss: 0.232872  
batch: 102 Training Loss: 0.232310  
batch: 103 Training Loss: 0.230741  
batch: 104 Training Loss: 0.229450  
batch: 105 Training Loss: 0.229436  
batch: 106 Training Loss: 0.228640  
batch: 107 Training Loss: 0.229929  
batch: 108 Training Loss: 0.228766  
batch: 109 Training Loss: 0.229583  
batch: 110 Training Loss: 0.229297  
batch: 111 Training Loss: 0.227819  
batch: 112 Training Loss: 0.231812  
batch: 113 Training Loss: 0.230814  
batch: 114 Training Loss: 0.231801  
batch: 115 Training Loss: 0.231363  
batch: 116 Training Loss: 0.229685  
batch: 117 Training Loss: 0.228614  
batch: 118 Training Loss: 0.228365  
batch: 119 Training Loss: 0.228451  
batch: 120 Training Loss: 0.229471  
batch: 121 Training Loss: 0.228407  
batch: 122 Training Loss: 0.228578  
batch: 123 Training Loss: 0.228744  
batch: 124 Training Loss: 0.228803  
batch: 125 Training Loss: 0.227900  
batch: 126 Training Loss: 0.227616  
batch: 127 Training Loss: 0.227313  
batch: 128 Training Loss: 0.228159  
batch: 129 Training Loss: 0.226820  
batch: 130 Training Loss: 0.226577  
batch: 131 Training Loss: 0.225319  
batch: 132 Training Loss: 0.224509  
batch: 133 Training Loss: 0.224035  
batch: 134 Training Loss: 0.223653  
batch: 135 Training Loss: 0.223545  
batch: 136 Training Loss: 0.222891  
batch: 137 Training Loss: 0.222864  
batch: 138 Training Loss: 0.222853  
batch: 139 Training Loss: 0.221871  
batch: 140 Training Loss: 0.224187  
batch: 141 Training Loss: 0.223248  
batch: 142 Training Loss: 0.224487  
batch: 143 Training Loss: 0.225312  
batch: 144 Training Loss: 0.224399  
batch: 145 Training Loss: 0.224156  
batch: 146 Training Loss: 0.224911  
batch: 147 Training Loss: 0.224809  
batch: 148 Training Loss: 0.227326  
batch: 149 Training Loss: 0.228532  
batch: 150 Training Loss: 0.228916  
batch: 151 Training Loss: 0.230115  
batch: 152 Training Loss: 0.229482  
batch: 153 Training Loss: 0.229370  
batch: 154 Training Loss: 0.228443  
batch: 155 Training Loss: 0.227471  
batch: 156 Training Loss: 0.228174  
batch: 157 Training Loss: 0.227838  
batch: 158 Training Loss: 0.227023  
batch: 159 Training Loss: 0.227242  
batch: 160 Training Loss: 0.227502  
batch: 161 Training Loss: 0.226811  
batch: 162 Training Loss: 0.226643  
batch: 163 Training Loss: 0.226582  
batch: 164 Training Loss: 0.226329  
batch: 165 Training Loss: 0.225153  
batch: 166 Training Loss: 0.226308  
batch: 167 Training Loss: 0.225514  
batch: 168 Training Loss: 0.227206  
batch: 169 Training Loss: 0.226584  
batch: 170 Training Loss: 0.227445  
batch: 171 Training Loss: 0.227150  
batch: 172 Training Loss: 0.226721  
batch: 173 Training Loss: 0.226405  
batch: 174 Training Loss: 0.225927  
batch: 175 Training Loss: 0.224841  
batch: 176 Training Loss: 0.224276  
batch: 177 Training Loss: 0.223849  
batch: 178 Training Loss: 0.224099  
batch: 179 Training Loss: 0.224520  
batch: 180 Training Loss: 0.224504  
batch: 181 Training Loss: 0.225625
```

```
batch: 182      Training Loss: 0.224948
batch: 183      Training Loss: 0.224936
batch: 184      Training Loss: 0.225463
batch: 185      Training Loss: 0.225137
batch: 186      Training Loss: 0.224107
batch: 187      Training Loss: 0.223602
batch: 188      Training Loss: 0.223098
batch: 189      Training Loss: 0.222474
batch: 190      Training Loss: 0.221895
batch: 191      Training Loss: 0.221638
batch: 192      Training Loss: 0.220753
batch: 193      Training Loss: 0.221499
batch: 194      Training Loss: 0.220680
batch: 195      Training Loss: 0.220613
batch: 196      Training Loss: 0.220332
batch: 197      Training Loss: 0.219923
batch: 198      Training Loss: 0.221633
batch: 199      Training Loss: 0.221017
batch: 200      Training Loss: 0.221663
batch: 201      Training Loss: 0.220791
batch: 202      Training Loss: 0.221019
batch: 203      Training Loss: 0.220752
batch: 204      Training Loss: 0.221183
batch: 205      Training Loss: 0.220408
batch: 206      Training Loss: 0.219849
batch: 207      Training Loss: 0.219245
batch: 208      Training Loss: 0.218860
Epoch: 53       Training Loss: 0.218860      Validation Loss: 1.220631
batch: 0         Training Loss: 0.108025
batch: 1         Training Loss: 0.184928
batch: 2         Training Loss: 0.222399
batch: 3         Training Loss: 0.191450
batch: 4         Training Loss: 0.165820
batch: 5         Training Loss: 0.175985
batch: 6         Training Loss: 0.154659
batch: 7         Training Loss: 0.145256
batch: 8         Training Loss: 0.161485
batch: 9         Training Loss: 0.178053
batch: 10        Training Loss: 0.193737
batch: 11        Training Loss: 0.186216
batch: 12        Training Loss: 0.180025
batch: 13        Training Loss: 0.188005
batch: 14        Training Loss: 0.177702
batch: 15        Training Loss: 0.175547
batch: 16        Training Loss: 0.171419
batch: 17        Training Loss: 0.170598
batch: 18        Training Loss: 0.174044
batch: 19        Training Loss: 0.178613
batch: 20        Training Loss: 0.177219
batch: 21        Training Loss: 0.176779
batch: 22        Training Loss: 0.173859
batch: 23        Training Loss: 0.171825
batch: 24        Training Loss: 0.174605
batch: 25        Training Loss: 0.177396
batch: 26        Training Loss: 0.179723
batch: 27        Training Loss: 0.179932
batch: 28        Training Loss: 0.177647
batch: 29        Training Loss: 0.173995
batch: 30        Training Loss: 0.171586
batch: 31        Training Loss: 0.170199
batch: 32        Training Loss: 0.169720
batch: 33        Training Loss: 0.173215
batch: 34        Training Loss: 0.176175
batch: 35        Training Loss: 0.176745
batch: 36        Training Loss: 0.177589
batch: 37        Training Loss: 0.178848
batch: 38        Training Loss: 0.176795
batch: 39        Training Loss: 0.184189
batch: 40        Training Loss: 0.185942
batch: 41        Training Loss: 0.188991
batch: 42        Training Loss: 0.187906
batch: 43        Training Loss: 0.184889
batch: 44        Training Loss: 0.182550
batch: 45        Training Loss: 0.181661
batch: 46        Training Loss: 0.182497
batch: 47        Training Loss: 0.183359
batch: 48        Training Loss: 0.185003
batch: 49        Training Loss: 0.182746
batch: 50        Training Loss: 0.183639
batch: 51        Training Loss: 0.180905
batch: 52        Training Loss: 0.182139
batch: 53        Training Loss: 0.183086
batch: 54        Training Loss: 0.184238
batch: 55        Training Loss: 0.184468
batch: 56        Training Loss: 0.183115
batch: 57        Training Loss: 0.183718
batch: 58        Training Loss: 0.188083
batch: 59        Training Loss: 0.187749
batch: 60        Training Loss: 0.187370
batch: 61        Training Loss: 0.189121
batch: 62        Training Loss: 0.189213
```

batch: 63 Training Loss: 0.191921
batch: 64 Training Loss: 0.190303
batch: 65 Training Loss: 0.193226
batch: 66 Training Loss: 0.192060
batch: 67 Training Loss: 0.192639
batch: 68 Training Loss: 0.193850
batch: 69 Training Loss: 0.195712
batch: 70 Training Loss: 0.193897
batch: 71 Training Loss: 0.192010
batch: 72 Training Loss: 0.191503
batch: 73 Training Loss: 0.190207
batch: 74 Training Loss: 0.190934
batch: 75 Training Loss: 0.191073
batch: 76 Training Loss: 0.190920
batch: 77 Training Loss: 0.189935
batch: 78 Training Loss: 0.189001
batch: 79 Training Loss: 0.188811
batch: 80 Training Loss: 0.187893
batch: 81 Training Loss: 0.187306
batch: 82 Training Loss: 0.186823
batch: 83 Training Loss: 0.186073
batch: 84 Training Loss: 0.185763
batch: 85 Training Loss: 0.184033
batch: 86 Training Loss: 0.184016
batch: 87 Training Loss: 0.183241
batch: 88 Training Loss: 0.181938
batch: 89 Training Loss: 0.184826
batch: 90 Training Loss: 0.187355
batch: 91 Training Loss: 0.190612
batch: 92 Training Loss: 0.190382
batch: 93 Training Loss: 0.190387
batch: 94 Training Loss: 0.190268
batch: 95 Training Loss: 0.189592
batch: 96 Training Loss: 0.189975
batch: 97 Training Loss: 0.188741
batch: 98 Training Loss: 0.189000
batch: 99 Training Loss: 0.189976
batch: 100 Training Loss: 0.189054
batch: 101 Training Loss: 0.191065
batch: 102 Training Loss: 0.193758
batch: 103 Training Loss: 0.193574
batch: 104 Training Loss: 0.193655
batch: 105 Training Loss: 0.194524
batch: 106 Training Loss: 0.194611
batch: 107 Training Loss: 0.193945
batch: 108 Training Loss: 0.195148
batch: 109 Training Loss: 0.195459
batch: 110 Training Loss: 0.196826
batch: 111 Training Loss: 0.196503
batch: 112 Training Loss: 0.198307
batch: 113 Training Loss: 0.200700
batch: 114 Training Loss: 0.199457
batch: 115 Training Loss: 0.200782
batch: 116 Training Loss: 0.199962
batch: 117 Training Loss: 0.199928
batch: 118 Training Loss: 0.199681
batch: 119 Training Loss: 0.199547
batch: 120 Training Loss: 0.199336
batch: 121 Training Loss: 0.198703
batch: 122 Training Loss: 0.198803
batch: 123 Training Loss: 0.200131
batch: 124 Training Loss: 0.199084
batch: 125 Training Loss: 0.199231
batch: 126 Training Loss: 0.199299
batch: 127 Training Loss: 0.200177
batch: 128 Training Loss: 0.199166
batch: 129 Training Loss: 0.198743
batch: 130 Training Loss: 0.198980
batch: 131 Training Loss: 0.199495
batch: 132 Training Loss: 0.199171
batch: 133 Training Loss: 0.199504
batch: 134 Training Loss: 0.198941
batch: 135 Training Loss: 0.197965
batch: 136 Training Loss: 0.197742
batch: 137 Training Loss: 0.197605
batch: 138 Training Loss: 0.196811
batch: 139 Training Loss: 0.196176
batch: 140 Training Loss: 0.196879
batch: 141 Training Loss: 0.195983
batch: 142 Training Loss: 0.195930
batch: 143 Training Loss: 0.194991
batch: 144 Training Loss: 0.194458
batch: 145 Training Loss: 0.196809
batch: 146 Training Loss: 0.197108
batch: 147 Training Loss: 0.196228
batch: 148 Training Loss: 0.195678
batch: 149 Training Loss: 0.195522
batch: 150 Training Loss: 0.194875
batch: 151 Training Loss: 0.195348
batch: 152 Training Loss: 0.194544
batch: 153 Training Loss: 0.194343

```
batch: 154      Training Loss: 0.194326
batch: 155      Training Loss: 0.197453
batch: 156      Training Loss: 0.199307
batch: 157      Training Loss: 0.199265
batch: 158      Training Loss: 0.199323
batch: 159      Training Loss: 0.198448
batch: 160      Training Loss: 0.199645
batch: 161      Training Loss: 0.199094
batch: 162      Training Loss: 0.198543
batch: 163      Training Loss: 0.198065
batch: 164      Training Loss: 0.197165
batch: 165      Training Loss: 0.196418
batch: 166      Training Loss: 0.199190
batch: 167      Training Loss: 0.199180
batch: 168      Training Loss: 0.200070
batch: 169      Training Loss: 0.199949
batch: 170      Training Loss: 0.202138
batch: 171      Training Loss: 0.202966
batch: 172      Training Loss: 0.203335
batch: 173      Training Loss: 0.204669
batch: 174      Training Loss: 0.207816
batch: 175      Training Loss: 0.208125
batch: 176      Training Loss: 0.207878
batch: 177      Training Loss: 0.207648
batch: 178      Training Loss: 0.207578
batch: 179      Training Loss: 0.207817
batch: 180      Training Loss: 0.207610
batch: 181      Training Loss: 0.207671
batch: 182      Training Loss: 0.208734
batch: 183      Training Loss: 0.208835
batch: 184      Training Loss: 0.208969
batch: 185      Training Loss: 0.208785
batch: 186      Training Loss: 0.208644
batch: 187      Training Loss: 0.208880
batch: 188      Training Loss: 0.208314
batch: 189      Training Loss: 0.208372
batch: 190      Training Loss: 0.210180
batch: 191      Training Loss: 0.210351
batch: 192      Training Loss: 0.211342
batch: 193      Training Loss: 0.210356
batch: 194      Training Loss: 0.209557
batch: 195      Training Loss: 0.209479
batch: 196      Training Loss: 0.208815
batch: 197      Training Loss: 0.210393
batch: 198      Training Loss: 0.209971
batch: 199      Training Loss: 0.209120
batch: 200      Training Loss: 0.208406
batch: 201      Training Loss: 0.209108
batch: 202      Training Loss: 0.208866
batch: 203      Training Loss: 0.208703
batch: 204      Training Loss: 0.208129
batch: 205      Training Loss: 0.208047
batch: 206      Training Loss: 0.207637
batch: 207      Training Loss: 0.207030
batch: 208      Training Loss: 0.206894
Epoch: 54       Training Loss: 0.206894      Validation Loss: 1.194457
batch: 0         Training Loss: 0.339185
batch: 1         Training Loss: 0.227300
batch: 2         Training Loss: 0.166681
batch: 3         Training Loss: 0.190278
batch: 4         Training Loss: 0.230635
batch: 5         Training Loss: 0.226519
batch: 6         Training Loss: 0.212880
batch: 7         Training Loss: 0.217730
batch: 8         Training Loss: 0.210316
batch: 9         Training Loss: 0.209216
batch: 10        Training Loss: 0.204231
batch: 11        Training Loss: 0.203680
batch: 12        Training Loss: 0.207769
batch: 13        Training Loss: 0.198765
batch: 14        Training Loss: 0.197882
batch: 15        Training Loss: 0.201798
batch: 16        Training Loss: 0.200568
batch: 17        Training Loss: 0.207324
batch: 18        Training Loss: 0.204807
batch: 19        Training Loss: 0.200683
batch: 20        Training Loss: 0.194824
batch: 21        Training Loss: 0.202531
batch: 22        Training Loss: 0.201640
batch: 23        Training Loss: 0.198161
batch: 24        Training Loss: 0.203716
batch: 25        Training Loss: 0.208864
batch: 26        Training Loss: 0.213693
batch: 27        Training Loss: 0.218188
batch: 28        Training Loss: 0.212600
batch: 29        Training Loss: 0.223147
batch: 30        Training Loss: 0.222389
batch: 31        Training Loss: 0.218447
batch: 32        Training Loss: 0.214671
batch: 33        Training Loss: 0.211016
batch: 34        Training Loss: 0.208210
```

batch: 35 Training Loss: 0.212280
batch: 36 Training Loss: 0.218167
batch: 37 Training Loss: 0.219107
batch: 38 Training Loss: 0.220881
batch: 39 Training Loss: 0.219040
batch: 40 Training Loss: 0.215231
batch: 41 Training Loss: 0.216374
batch: 42 Training Loss: 0.216205
batch: 43 Training Loss: 0.215139
batch: 44 Training Loss: 0.214384
batch: 45 Training Loss: 0.214318
batch: 46 Training Loss: 0.217252
batch: 47 Training Loss: 0.222189
batch: 48 Training Loss: 0.223131
batch: 49 Training Loss: 0.225605
batch: 50 Training Loss: 0.223531
batch: 51 Training Loss: 0.221685
batch: 52 Training Loss: 0.223358
batch: 53 Training Loss: 0.223472
batch: 54 Training Loss: 0.224698
batch: 55 Training Loss: 0.226485
batch: 56 Training Loss: 0.223019
batch: 57 Training Loss: 0.222319
batch: 58 Training Loss: 0.221633
batch: 59 Training Loss: 0.219747
batch: 60 Training Loss: 0.218712
batch: 61 Training Loss: 0.215938
batch: 62 Training Loss: 0.215054
batch: 63 Training Loss: 0.213839
batch: 64 Training Loss: 0.211784
batch: 65 Training Loss: 0.213539
batch: 66 Training Loss: 0.212624
batch: 67 Training Loss: 0.211908
batch: 68 Training Loss: 0.210727
batch: 69 Training Loss: 0.209493
batch: 70 Training Loss: 0.210961
batch: 71 Training Loss: 0.211557
batch: 72 Training Loss: 0.211735
batch: 73 Training Loss: 0.213244
batch: 74 Training Loss: 0.215607
batch: 75 Training Loss: 0.215373
batch: 76 Training Loss: 0.216137
batch: 77 Training Loss: 0.215806
batch: 78 Training Loss: 0.219009
batch: 79 Training Loss: 0.217267
batch: 80 Training Loss: 0.217991
batch: 81 Training Loss: 0.217150
batch: 82 Training Loss: 0.218341
batch: 83 Training Loss: 0.217320
batch: 84 Training Loss: 0.216033
batch: 85 Training Loss: 0.213843
batch: 86 Training Loss: 0.213322
batch: 87 Training Loss: 0.214512
batch: 88 Training Loss: 0.213662
batch: 89 Training Loss: 0.211550
batch: 90 Training Loss: 0.209806
batch: 91 Training Loss: 0.215521
batch: 92 Training Loss: 0.214072
batch: 93 Training Loss: 0.212791
batch: 94 Training Loss: 0.211596
batch: 95 Training Loss: 0.212655
batch: 96 Training Loss: 0.211258
batch: 97 Training Loss: 0.210230
batch: 98 Training Loss: 0.212621
batch: 99 Training Loss: 0.212879
batch: 100 Training Loss: 0.213372
batch: 101 Training Loss: 0.212079
batch: 102 Training Loss: 0.214056
batch: 103 Training Loss: 0.214553
batch: 104 Training Loss: 0.214950
batch: 105 Training Loss: 0.214578
batch: 106 Training Loss: 0.214881
batch: 107 Training Loss: 0.214159
batch: 108 Training Loss: 0.216229
batch: 109 Training Loss: 0.214519
batch: 110 Training Loss: 0.215902
batch: 111 Training Loss: 0.217969
batch: 112 Training Loss: 0.218490
batch: 113 Training Loss: 0.218256
batch: 114 Training Loss: 0.222181
batch: 115 Training Loss: 0.223605
batch: 116 Training Loss: 0.223533
batch: 117 Training Loss: 0.222942
batch: 118 Training Loss: 0.221415
batch: 119 Training Loss: 0.222000
batch: 120 Training Loss: 0.221255
batch: 121 Training Loss: 0.220878
batch: 122 Training Loss: 0.219813
batch: 123 Training Loss: 0.218886
batch: 124 Training Loss: 0.218417
batch: 125 Training Loss: 0.217047

batch: 126 Training Loss: 0.219628
batch: 127 Training Loss: 0.219774
batch: 128 Training Loss: 0.221495
batch: 129 Training Loss: 0.221409
batch: 130 Training Loss: 0.220420
batch: 131 Training Loss: 0.220481
batch: 132 Training Loss: 0.219797
batch: 133 Training Loss: 0.219054
batch: 134 Training Loss: 0.218946
batch: 135 Training Loss: 0.220232
batch: 136 Training Loss: 0.219901
batch: 137 Training Loss: 0.221960
batch: 138 Training Loss: 0.220805
batch: 139 Training Loss: 0.221385
batch: 140 Training Loss: 0.221073
batch: 141 Training Loss: 0.220125
batch: 142 Training Loss: 0.220047
batch: 143 Training Loss: 0.220009
batch: 144 Training Loss: 0.219767
batch: 145 Training Loss: 0.219877
batch: 146 Training Loss: 0.218886
batch: 147 Training Loss: 0.217943
batch: 148 Training Loss: 0.218187
batch: 149 Training Loss: 0.218102
batch: 150 Training Loss: 0.217728
batch: 151 Training Loss: 0.218271
batch: 152 Training Loss: 0.219021
batch: 153 Training Loss: 0.218284
batch: 154 Training Loss: 0.219891
batch: 155 Training Loss: 0.219559
batch: 156 Training Loss: 0.219121
batch: 157 Training Loss: 0.219268
batch: 158 Training Loss: 0.220571
batch: 159 Training Loss: 0.220399
batch: 160 Training Loss: 0.220674
batch: 161 Training Loss: 0.220214
batch: 162 Training Loss: 0.219454
batch: 163 Training Loss: 0.219522
batch: 164 Training Loss: 0.219380
batch: 165 Training Loss: 0.219762
batch: 166 Training Loss: 0.219488
batch: 167 Training Loss: 0.220709
batch: 168 Training Loss: 0.220926
batch: 169 Training Loss: 0.221030
batch: 170 Training Loss: 0.222807
batch: 171 Training Loss: 0.222056
batch: 172 Training Loss: 0.222586
batch: 173 Training Loss: 0.221961
batch: 174 Training Loss: 0.222901
batch: 175 Training Loss: 0.223141
batch: 176 Training Loss: 0.223477
batch: 177 Training Loss: 0.225937
batch: 178 Training Loss: 0.226899
batch: 179 Training Loss: 0.227483
batch: 180 Training Loss: 0.227131
batch: 181 Training Loss: 0.228223
batch: 182 Training Loss: 0.227879
batch: 183 Training Loss: 0.227448
batch: 184 Training Loss: 0.227273
batch: 185 Training Loss: 0.227511
batch: 186 Training Loss: 0.226809
batch: 187 Training Loss: 0.226486
batch: 188 Training Loss: 0.227243
batch: 189 Training Loss: 0.226369
batch: 190 Training Loss: 0.226079
batch: 191 Training Loss: 0.226537
batch: 192 Training Loss: 0.225763
batch: 193 Training Loss: 0.226452
batch: 194 Training Loss: 0.226743
batch: 195 Training Loss: 0.226933
batch: 196 Training Loss: 0.228536
batch: 197 Training Loss: 0.227805
batch: 198 Training Loss: 0.227431
batch: 199 Training Loss: 0.226992
batch: 200 Training Loss: 0.226260
batch: 201 Training Loss: 0.225299
batch: 202 Training Loss: 0.225266
batch: 203 Training Loss: 0.225439
batch: 204 Training Loss: 0.225201
batch: 205 Training Loss: 0.225830
batch: 206 Training Loss: 0.226761
batch: 207 Training Loss: 0.226861
batch: 208 Training Loss: 0.226511
Epoch: 55 Training Loss: 0.226511 Validation Loss: 1.187816
batch: 0 Training Loss: 0.099663
batch: 1 Training Loss: 0.164187
batch: 2 Training Loss: 0.192035
batch: 3 Training Loss: 0.229899
batch: 4 Training Loss: 0.212417
batch: 5 Training Loss: 0.191879
batch: 6 Training Loss: 0.212865

batch: 7 Training Loss: 0.193633
batch: 8 Training Loss: 0.223481
batch: 9 Training Loss: 0.218454
batch: 10 Training Loss: 0.233135
batch: 11 Training Loss: 0.220811
batch: 12 Training Loss: 0.227960
batch: 13 Training Loss: 0.226625
batch: 14 Training Loss: 0.228477
batch: 15 Training Loss: 0.222363
batch: 16 Training Loss: 0.213942
batch: 17 Training Loss: 0.216806
batch: 18 Training Loss: 0.219699
batch: 19 Training Loss: 0.215091
batch: 20 Training Loss: 0.224178
batch: 21 Training Loss: 0.219664
batch: 22 Training Loss: 0.218039
batch: 23 Training Loss: 0.214797
batch: 24 Training Loss: 0.211729
batch: 25 Training Loss: 0.210539
batch: 26 Training Loss: 0.210984
batch: 27 Training Loss: 0.211373
batch: 28 Training Loss: 0.207133
batch: 29 Training Loss: 0.203426
batch: 30 Training Loss: 0.204057
batch: 31 Training Loss: 0.206792
batch: 32 Training Loss: 0.202885
batch: 33 Training Loss: 0.201346
batch: 34 Training Loss: 0.203047
batch: 35 Training Loss: 0.198052
batch: 36 Training Loss: 0.196493
batch: 37 Training Loss: 0.199482
batch: 38 Training Loss: 0.197268
batch: 39 Training Loss: 0.196992
batch: 40 Training Loss: 0.197665
batch: 41 Training Loss: 0.195156
batch: 42 Training Loss: 0.193525
batch: 43 Training Loss: 0.193410
batch: 44 Training Loss: 0.193133
batch: 45 Training Loss: 0.190270
batch: 46 Training Loss: 0.188470
batch: 47 Training Loss: 0.189822
batch: 48 Training Loss: 0.189914
batch: 49 Training Loss: 0.193796
batch: 50 Training Loss: 0.193655
batch: 51 Training Loss: 0.195964
batch: 52 Training Loss: 0.198839
batch: 53 Training Loss: 0.197132
batch: 54 Training Loss: 0.197744
batch: 55 Training Loss: 0.197489
batch: 56 Training Loss: 0.195428
batch: 57 Training Loss: 0.193888
batch: 58 Training Loss: 0.193979
batch: 59 Training Loss: 0.195086
batch: 60 Training Loss: 0.196177
batch: 61 Training Loss: 0.194264
batch: 62 Training Loss: 0.192821
batch: 63 Training Loss: 0.190743
batch: 64 Training Loss: 0.188806
batch: 65 Training Loss: 0.190331
batch: 66 Training Loss: 0.190838
batch: 67 Training Loss: 0.189148
batch: 68 Training Loss: 0.188988
batch: 69 Training Loss: 0.190125
batch: 70 Training Loss: 0.190779
batch: 71 Training Loss: 0.192997
batch: 72 Training Loss: 0.194457
batch: 73 Training Loss: 0.194647
batch: 74 Training Loss: 0.194132
batch: 75 Training Loss: 0.195305
batch: 76 Training Loss: 0.197508
batch: 77 Training Loss: 0.196491
batch: 78 Training Loss: 0.196301
batch: 79 Training Loss: 0.195454
batch: 80 Training Loss: 0.193914
batch: 81 Training Loss: 0.192366
batch: 82 Training Loss: 0.191233
batch: 83 Training Loss: 0.192145
batch: 84 Training Loss: 0.193543
batch: 85 Training Loss: 0.192231
batch: 86 Training Loss: 0.192359
batch: 87 Training Loss: 0.191774
batch: 88 Training Loss: 0.190060
batch: 89 Training Loss: 0.188445
batch: 90 Training Loss: 0.188174
batch: 91 Training Loss: 0.186891
batch: 92 Training Loss: 0.186334
batch: 93 Training Loss: 0.186507
batch: 94 Training Loss: 0.184917
batch: 95 Training Loss: 0.184042
batch: 96 Training Loss: 0.183134
batch: 97 Training Loss: 0.187435

batch: 98 Training Loss: 0.189917
batch: 99 Training Loss: 0.191411
batch: 100 Training Loss: 0.191144
batch: 101 Training Loss: 0.190363
batch: 102 Training Loss: 0.194012
batch: 103 Training Loss: 0.193993
batch: 104 Training Loss: 0.195450
batch: 105 Training Loss: 0.197063
batch: 106 Training Loss: 0.195518
batch: 107 Training Loss: 0.196354
batch: 108 Training Loss: 0.195884
batch: 109 Training Loss: 0.195515
batch: 110 Training Loss: 0.194126
batch: 111 Training Loss: 0.195309
batch: 112 Training Loss: 0.194728
batch: 113 Training Loss: 0.193813
batch: 114 Training Loss: 0.193234
batch: 115 Training Loss: 0.193036
batch: 116 Training Loss: 0.192066
batch: 117 Training Loss: 0.192832
batch: 118 Training Loss: 0.192498
batch: 119 Training Loss: 0.192323
batch: 120 Training Loss: 0.194303
batch: 121 Training Loss: 0.193678
batch: 122 Training Loss: 0.192704
batch: 123 Training Loss: 0.192978
batch: 124 Training Loss: 0.194087
batch: 125 Training Loss: 0.195816
batch: 126 Training Loss: 0.195708
batch: 127 Training Loss: 0.195281
batch: 128 Training Loss: 0.194411
batch: 129 Training Loss: 0.195235
batch: 130 Training Loss: 0.195191
batch: 131 Training Loss: 0.197191
batch: 132 Training Loss: 0.196427
batch: 133 Training Loss: 0.195830
batch: 134 Training Loss: 0.196105
batch: 135 Training Loss: 0.195645
batch: 136 Training Loss: 0.194817
batch: 137 Training Loss: 0.194717
batch: 138 Training Loss: 0.194291
batch: 139 Training Loss: 0.194494
batch: 140 Training Loss: 0.195226
batch: 141 Training Loss: 0.195465
batch: 142 Training Loss: 0.194830
batch: 143 Training Loss: 0.197348
batch: 144 Training Loss: 0.198662
batch: 145 Training Loss: 0.198460
batch: 146 Training Loss: 0.197908
batch: 147 Training Loss: 0.197186
batch: 148 Training Loss: 0.197355
batch: 149 Training Loss: 0.197416
batch: 150 Training Loss: 0.196481
batch: 151 Training Loss: 0.196637
batch: 152 Training Loss: 0.197708
batch: 153 Training Loss: 0.197732
batch: 154 Training Loss: 0.197669
batch: 155 Training Loss: 0.196961
batch: 156 Training Loss: 0.198560
batch: 157 Training Loss: 0.198583
batch: 158 Training Loss: 0.199283
batch: 159 Training Loss: 0.198934
batch: 160 Training Loss: 0.199110
batch: 161 Training Loss: 0.199835
batch: 162 Training Loss: 0.199690
batch: 163 Training Loss: 0.200066
batch: 164 Training Loss: 0.199504
batch: 165 Training Loss: 0.199680
batch: 166 Training Loss: 0.198850
batch: 167 Training Loss: 0.199524
batch: 168 Training Loss: 0.198824
batch: 169 Training Loss: 0.198343
batch: 170 Training Loss: 0.198636
batch: 171 Training Loss: 0.199202
batch: 172 Training Loss: 0.198917
batch: 173 Training Loss: 0.199341
batch: 174 Training Loss: 0.200273
batch: 175 Training Loss: 0.200836
batch: 176 Training Loss: 0.201706
batch: 177 Training Loss: 0.201190
batch: 178 Training Loss: 0.200550
batch: 179 Training Loss: 0.200592
batch: 180 Training Loss: 0.199652
batch: 181 Training Loss: 0.199127
batch: 182 Training Loss: 0.198466
batch: 183 Training Loss: 0.197764
batch: 184 Training Loss: 0.198141
batch: 185 Training Loss: 0.199935
batch: 186 Training Loss: 0.201540
batch: 187 Training Loss: 0.202062
batch: 188 Training Loss: 0.201486

batch: 189 Training Loss: 0.201697
batch: 190 Training Loss: 0.203240
batch: 191 Training Loss: 0.202973
batch: 192 Training Loss: 0.203018
batch: 193 Training Loss: 0.203291
batch: 194 Training Loss: 0.204815
batch: 195 Training Loss: 0.205315
batch: 196 Training Loss: 0.204491
batch: 197 Training Loss: 0.203788
batch: 198 Training Loss: 0.204901
batch: 199 Training Loss: 0.205316
batch: 200 Training Loss: 0.204854
batch: 201 Training Loss: 0.205542
batch: 202 Training Loss: 0.205320
batch: 203 Training Loss: 0.205148
batch: 204 Training Loss: 0.205416
batch: 205 Training Loss: 0.204976
batch: 206 Training Loss: 0.204409
batch: 207 Training Loss: 0.203825
batch: 208 Training Loss: 0.203640
Epoch: 56 Training Loss: 0.203640 Validation Loss: 1.237696
batch: 0 Training Loss: 0.214060
batch: 1 Training Loss: 0.300675
batch: 2 Training Loss: 0.245765
batch: 3 Training Loss: 0.232957
batch: 4 Training Loss: 0.197383
batch: 5 Training Loss: 0.191535
batch: 6 Training Loss: 0.174238
batch: 7 Training Loss: 0.178463
batch: 8 Training Loss: 0.161556
batch: 9 Training Loss: 0.164024
batch: 10 Training Loss: 0.150654
batch: 11 Training Loss: 0.156568
batch: 12 Training Loss: 0.152436
batch: 13 Training Loss: 0.143556
batch: 14 Training Loss: 0.139345
batch: 15 Training Loss: 0.159771
batch: 16 Training Loss: 0.158451
batch: 17 Training Loss: 0.172060
batch: 18 Training Loss: 0.174716
batch: 19 Training Loss: 0.168065
batch: 20 Training Loss: 0.163806
batch: 21 Training Loss: 0.164831
batch: 22 Training Loss: 0.169862
batch: 23 Training Loss: 0.169400
batch: 24 Training Loss: 0.171696
batch: 25 Training Loss: 0.167413
batch: 26 Training Loss: 0.165728
batch: 27 Training Loss: 0.168997
batch: 28 Training Loss: 0.169564
batch: 29 Training Loss: 0.166796
batch: 30 Training Loss: 0.165342
batch: 31 Training Loss: 0.162283
batch: 32 Training Loss: 0.161473
batch: 33 Training Loss: 0.158629
batch: 34 Training Loss: 0.164046
batch: 35 Training Loss: 0.165256
batch: 36 Training Loss: 0.166761
batch: 37 Training Loss: 0.164976
batch: 38 Training Loss: 0.165393
batch: 39 Training Loss: 0.165546
batch: 40 Training Loss: 0.164994
batch: 41 Training Loss: 0.164115
batch: 42 Training Loss: 0.163449
batch: 43 Training Loss: 0.167770
batch: 44 Training Loss: 0.165800
batch: 45 Training Loss: 0.169052
batch: 46 Training Loss: 0.169316
batch: 47 Training Loss: 0.172511
batch: 48 Training Loss: 0.175607
batch: 49 Training Loss: 0.172968
batch: 50 Training Loss: 0.182178
batch: 51 Training Loss: 0.180775
batch: 52 Training Loss: 0.178742
batch: 53 Training Loss: 0.178012
batch: 54 Training Loss: 0.182440
batch: 55 Training Loss: 0.180836
batch: 56 Training Loss: 0.183022
batch: 57 Training Loss: 0.182384
batch: 58 Training Loss: 0.180515
batch: 59 Training Loss: 0.180177
batch: 60 Training Loss: 0.179725
batch: 61 Training Loss: 0.180325
batch: 62 Training Loss: 0.179589
batch: 63 Training Loss: 0.180290
batch: 64 Training Loss: 0.180180
batch: 65 Training Loss: 0.180606
batch: 66 Training Loss: 0.179828
batch: 67 Training Loss: 0.178152
batch: 68 Training Loss: 0.178434
batch: 69 Training Loss: 0.177689

batch: 70 Training Loss: 0.177406
batch: 71 Training Loss: 0.176865
batch: 72 Training Loss: 0.178194
batch: 73 Training Loss: 0.176882
batch: 74 Training Loss: 0.175664
batch: 75 Training Loss: 0.173582
batch: 76 Training Loss: 0.174864
batch: 77 Training Loss: 0.173527
batch: 78 Training Loss: 0.173735
batch: 79 Training Loss: 0.173657
batch: 80 Training Loss: 0.173096
batch: 81 Training Loss: 0.174228
batch: 82 Training Loss: 0.172969
batch: 83 Training Loss: 0.173235
batch: 84 Training Loss: 0.172953
batch: 85 Training Loss: 0.171971
batch: 86 Training Loss: 0.171788
batch: 87 Training Loss: 0.171623
batch: 88 Training Loss: 0.172899
batch: 89 Training Loss: 0.171828
batch: 90 Training Loss: 0.174989
batch: 91 Training Loss: 0.173404
batch: 92 Training Loss: 0.172927
batch: 93 Training Loss: 0.173159
batch: 94 Training Loss: 0.173818
batch: 95 Training Loss: 0.173426
batch: 96 Training Loss: 0.174172
batch: 97 Training Loss: 0.174322
batch: 98 Training Loss: 0.174672
batch: 99 Training Loss: 0.173788
batch: 100 Training Loss: 0.175968
batch: 101 Training Loss: 0.178241
batch: 102 Training Loss: 0.180022
batch: 103 Training Loss: 0.181526
batch: 104 Training Loss: 0.183853
batch: 105 Training Loss: 0.183988
batch: 106 Training Loss: 0.185547
batch: 107 Training Loss: 0.184327
batch: 108 Training Loss: 0.183370
batch: 109 Training Loss: 0.184221
batch: 110 Training Loss: 0.184541
batch: 111 Training Loss: 0.183780
batch: 112 Training Loss: 0.183684
batch: 113 Training Loss: 0.191061
batch: 114 Training Loss: 0.189984
batch: 115 Training Loss: 0.191923
batch: 116 Training Loss: 0.192405
batch: 117 Training Loss: 0.192024
batch: 118 Training Loss: 0.191390
batch: 119 Training Loss: 0.192123
batch: 120 Training Loss: 0.193088
batch: 121 Training Loss: 0.192230
batch: 122 Training Loss: 0.191543
batch: 123 Training Loss: 0.190968
batch: 124 Training Loss: 0.190934
batch: 125 Training Loss: 0.190219
batch: 126 Training Loss: 0.189386
batch: 127 Training Loss: 0.189197
batch: 128 Training Loss: 0.188240
batch: 129 Training Loss: 0.188773
batch: 130 Training Loss: 0.188305
batch: 131 Training Loss: 0.187144
batch: 132 Training Loss: 0.186325
batch: 133 Training Loss: 0.187408
batch: 134 Training Loss: 0.187284
batch: 135 Training Loss: 0.186083
batch: 136 Training Loss: 0.185398
batch: 137 Training Loss: 0.185522
batch: 138 Training Loss: 0.184470
batch: 139 Training Loss: 0.183491
batch: 140 Training Loss: 0.182278
batch: 141 Training Loss: 0.181513
batch: 142 Training Loss: 0.181193
batch: 143 Training Loss: 0.180440
batch: 144 Training Loss: 0.180099
batch: 145 Training Loss: 0.179666
batch: 146 Training Loss: 0.179775
batch: 147 Training Loss: 0.179764
batch: 148 Training Loss: 0.179980
batch: 149 Training Loss: 0.179661
batch: 150 Training Loss: 0.179645
batch: 151 Training Loss: 0.179077
batch: 152 Training Loss: 0.178465
batch: 153 Training Loss: 0.178138
batch: 154 Training Loss: 0.177735
batch: 155 Training Loss: 0.176988
batch: 156 Training Loss: 0.176001
batch: 157 Training Loss: 0.177043
batch: 158 Training Loss: 0.177170
batch: 159 Training Loss: 0.176698
batch: 160 Training Loss: 0.176128
... ---

batch: 161 Training Loss: 0.176677
batch: 162 Training Loss: 0.176174
batch: 163 Training Loss: 0.175657
batch: 164 Training Loss: 0.177372
batch: 165 Training Loss: 0.178301
batch: 166 Training Loss: 0.178267
batch: 167 Training Loss: 0.178044
batch: 168 Training Loss: 0.177750
batch: 169 Training Loss: 0.177075
batch: 170 Training Loss: 0.177214
batch: 171 Training Loss: 0.177916
batch: 172 Training Loss: 0.177198
batch: 173 Training Loss: 0.177067
batch: 174 Training Loss: 0.176724
batch: 175 Training Loss: 0.176872
batch: 176 Training Loss: 0.176369
batch: 177 Training Loss: 0.176534
batch: 178 Training Loss: 0.176174
batch: 179 Training Loss: 0.176087
batch: 180 Training Loss: 0.175342
batch: 181 Training Loss: 0.175595
batch: 182 Training Loss: 0.175159
batch: 183 Training Loss: 0.174719
batch: 184 Training Loss: 0.174584
batch: 185 Training Loss: 0.174182
batch: 186 Training Loss: 0.173716
batch: 187 Training Loss: 0.173453
batch: 188 Training Loss: 0.173323
batch: 189 Training Loss: 0.173230
batch: 190 Training Loss: 0.174802
batch: 191 Training Loss: 0.174546
batch: 192 Training Loss: 0.175491
batch: 193 Training Loss: 0.175037
batch: 194 Training Loss: 0.176005
batch: 195 Training Loss: 0.175626
batch: 196 Training Loss: 0.176030
batch: 197 Training Loss: 0.175511
batch: 198 Training Loss: 0.175859
batch: 199 Training Loss: 0.175959
batch: 200 Training Loss: 0.175761
batch: 201 Training Loss: 0.176118
batch: 202 Training Loss: 0.175867
batch: 203 Training Loss: 0.175379
batch: 204 Training Loss: 0.175384
batch: 205 Training Loss: 0.176478
batch: 206 Training Loss: 0.176358
batch: 207 Training Loss: 0.177934
batch: 208 Training Loss: 0.178002
Epoch: 57 Training Loss: 0.178002 Validation Loss: 1.228790
batch: 0 Training Loss: 0.160037
batch: 1 Training Loss: 0.177840
batch: 2 Training Loss: 0.136233
batch: 3 Training Loss: 0.160622
batch: 4 Training Loss: 0.210513
batch: 5 Training Loss: 0.178350
batch: 6 Training Loss: 0.171564
batch: 7 Training Loss: 0.193354
batch: 8 Training Loss: 0.189842
batch: 9 Training Loss: 0.189072
batch: 10 Training Loss: 0.181052
batch: 11 Training Loss: 0.192824
batch: 12 Training Loss: 0.182065
batch: 13 Training Loss: 0.173582
batch: 14 Training Loss: 0.167934
batch: 15 Training Loss: 0.164256
batch: 16 Training Loss: 0.159306
batch: 17 Training Loss: 0.157246
batch: 18 Training Loss: 0.167123
batch: 19 Training Loss: 0.164887
batch: 20 Training Loss: 0.162727
batch: 21 Training Loss: 0.167039
batch: 22 Training Loss: 0.175806
batch: 23 Training Loss: 0.185893
batch: 24 Training Loss: 0.180730
batch: 25 Training Loss: 0.177467
batch: 26 Training Loss: 0.174137
batch: 27 Training Loss: 0.169516
batch: 28 Training Loss: 0.166855
batch: 29 Training Loss: 0.167771
batch: 30 Training Loss: 0.163689
batch: 31 Training Loss: 0.164209
batch: 32 Training Loss: 0.164102
batch: 33 Training Loss: 0.161269
batch: 34 Training Loss: 0.159391
batch: 35 Training Loss: 0.171351
batch: 36 Training Loss: 0.172632
batch: 37 Training Loss: 0.174307
batch: 38 Training Loss: 0.171097
batch: 39 Training Loss: 0.172423
batch: 40 Training Loss: 0.171706
batch: 41 Training Loss: 0.169838

batch: 42 Training Loss: 0.168070
batch: 43 Training Loss: 0.170938
batch: 44 Training Loss: 0.171406
batch: 45 Training Loss: 0.171779
batch: 46 Training Loss: 0.170633
batch: 47 Training Loss: 0.171112
batch: 48 Training Loss: 0.170589
batch: 49 Training Loss: 0.170828
batch: 50 Training Loss: 0.171356
batch: 51 Training Loss: 0.171483
batch: 52 Training Loss: 0.169886
batch: 53 Training Loss: 0.169322
batch: 54 Training Loss: 0.167708
batch: 55 Training Loss: 0.166934
batch: 56 Training Loss: 0.165769
batch: 57 Training Loss: 0.165201
batch: 58 Training Loss: 0.164790
batch: 59 Training Loss: 0.164058
batch: 60 Training Loss: 0.163731
batch: 61 Training Loss: 0.165347
batch: 62 Training Loss: 0.164769
batch: 63 Training Loss: 0.166287
batch: 64 Training Loss: 0.167480
batch: 65 Training Loss: 0.168867
batch: 66 Training Loss: 0.166969
batch: 67 Training Loss: 0.174645
batch: 68 Training Loss: 0.173647
batch: 69 Training Loss: 0.171730
batch: 70 Training Loss: 0.170409
batch: 71 Training Loss: 0.168531
batch: 72 Training Loss: 0.166884
batch: 73 Training Loss: 0.165612
batch: 74 Training Loss: 0.164023
batch: 75 Training Loss: 0.163397
batch: 76 Training Loss: 0.161909
batch: 77 Training Loss: 0.160509
batch: 78 Training Loss: 0.161311
batch: 79 Training Loss: 0.161556
batch: 80 Training Loss: 0.162234
batch: 81 Training Loss: 0.161772
batch: 82 Training Loss: 0.160732
batch: 83 Training Loss: 0.159042
batch: 84 Training Loss: 0.159004
batch: 85 Training Loss: 0.158086
batch: 86 Training Loss: 0.157105
batch: 87 Training Loss: 0.156931
batch: 88 Training Loss: 0.159588
batch: 89 Training Loss: 0.160922
batch: 90 Training Loss: 0.160949
batch: 91 Training Loss: 0.161577
batch: 92 Training Loss: 0.161658
batch: 93 Training Loss: 0.160517
batch: 94 Training Loss: 0.159380
batch: 95 Training Loss: 0.158493
batch: 96 Training Loss: 0.157852
batch: 97 Training Loss: 0.158974
batch: 98 Training Loss: 0.158813
batch: 99 Training Loss: 0.157949
batch: 100 Training Loss: 0.157151
batch: 101 Training Loss: 0.156941
batch: 102 Training Loss: 0.156228
batch: 103 Training Loss: 0.155779
batch: 104 Training Loss: 0.155252
batch: 105 Training Loss: 0.154700
batch: 106 Training Loss: 0.157126
batch: 107 Training Loss: 0.155946
batch: 108 Training Loss: 0.155644
batch: 109 Training Loss: 0.154809
batch: 110 Training Loss: 0.153754
batch: 111 Training Loss: 0.154693
batch: 112 Training Loss: 0.154824
batch: 113 Training Loss: 0.154665
batch: 114 Training Loss: 0.155828
batch: 115 Training Loss: 0.156670
batch: 116 Training Loss: 0.157772
batch: 117 Training Loss: 0.156733
batch: 118 Training Loss: 0.156473
batch: 119 Training Loss: 0.157920
batch: 120 Training Loss: 0.157189
batch: 121 Training Loss: 0.157042
batch: 122 Training Loss: 0.159200
batch: 123 Training Loss: 0.158624
batch: 124 Training Loss: 0.159805
batch: 125 Training Loss: 0.159742
batch: 126 Training Loss: 0.158778
batch: 127 Training Loss: 0.158512
batch: 128 Training Loss: 0.158664
batch: 129 Training Loss: 0.160304
batch: 130 Training Loss: 0.159974
batch: 131 Training Loss: 0.159618
batch: 132 Training Loss: 0.159007
batch: 133 Training Loss: 0.159200

batch: 155 Training Loss: 0.159200
batch: 134 Training Loss: 0.159168
batch: 135 Training Loss: 0.158752
batch: 136 Training Loss: 0.158669
batch: 137 Training Loss: 0.159188
batch: 138 Training Loss: 0.159881
batch: 139 Training Loss: 0.159293
batch: 140 Training Loss: 0.160187
batch: 141 Training Loss: 0.160409
batch: 142 Training Loss: 0.161203
batch: 143 Training Loss: 0.160795
batch: 144 Training Loss: 0.162495
batch: 145 Training Loss: 0.162127
batch: 146 Training Loss: 0.161843
batch: 147 Training Loss: 0.161383
batch: 148 Training Loss: 0.161495
batch: 149 Training Loss: 0.161117
batch: 150 Training Loss: 0.160328
batch: 151 Training Loss: 0.161203
batch: 152 Training Loss: 0.160931
batch: 153 Training Loss: 0.160279
batch: 154 Training Loss: 0.160050
batch: 155 Training Loss: 0.159585
batch: 156 Training Loss: 0.160177
batch: 157 Training Loss: 0.160896
batch: 158 Training Loss: 0.160252
batch: 159 Training Loss: 0.161336
batch: 160 Training Loss: 0.164239
batch: 161 Training Loss: 0.163979
batch: 162 Training Loss: 0.164269
batch: 163 Training Loss: 0.165008
batch: 164 Training Loss: 0.164740
batch: 165 Training Loss: 0.165110
batch: 166 Training Loss: 0.164651
batch: 167 Training Loss: 0.165434
batch: 168 Training Loss: 0.165515
batch: 169 Training Loss: 0.164912
batch: 170 Training Loss: 0.165224
batch: 171 Training Loss: 0.165236
batch: 172 Training Loss: 0.166594
batch: 173 Training Loss: 0.166762
batch: 174 Training Loss: 0.166806
batch: 175 Training Loss: 0.166496
batch: 176 Training Loss: 0.165857
batch: 177 Training Loss: 0.166618
batch: 178 Training Loss: 0.166847
batch: 179 Training Loss: 0.167034
batch: 180 Training Loss: 0.169000
batch: 181 Training Loss: 0.168711
batch: 182 Training Loss: 0.168117
batch: 183 Training Loss: 0.167664
batch: 184 Training Loss: 0.167972
batch: 185 Training Loss: 0.167571
batch: 186 Training Loss: 0.167324
batch: 187 Training Loss: 0.166983
batch: 188 Training Loss: 0.166492
batch: 189 Training Loss: 0.166570
batch: 190 Training Loss: 0.166337
batch: 191 Training Loss: 0.166197
batch: 192 Training Loss: 0.166211
batch: 193 Training Loss: 0.166298
batch: 194 Training Loss: 0.165977
batch: 195 Training Loss: 0.165519
batch: 196 Training Loss: 0.165655
batch: 197 Training Loss: 0.165236
batch: 198 Training Loss: 0.164985
batch: 199 Training Loss: 0.164843
batch: 200 Training Loss: 0.164842
batch: 201 Training Loss: 0.165015
batch: 202 Training Loss: 0.164466
batch: 203 Training Loss: 0.164705
batch: 204 Training Loss: 0.164745
batch: 205 Training Loss: 0.164651
batch: 206 Training Loss: 0.165233
batch: 207 Training Loss: 0.164835
batch: 208 Training Loss: 0.164514
Epoch: 58 Training Loss: 0.164514 Validation Loss: 1.228628
batch: 0 Training Loss: 0.173076
batch: 1 Training Loss: 0.114556
batch: 2 Training Loss: 0.125842
batch: 3 Training Loss: 0.118749
batch: 4 Training Loss: 0.104472
batch: 5 Training Loss: 0.101138
batch: 6 Training Loss: 0.098648
batch: 7 Training Loss: 0.118217
batch: 8 Training Loss: 0.115072
batch: 9 Training Loss: 0.132343
batch: 10 Training Loss: 0.127215
batch: 11 Training Loss: 0.125185
batch: 12 Training Loss: 0.119159
batch: 13 Training Loss: 0.119683
batch: 14 Training Loss: 0.124801

batch: 14 Training Loss: 0.124081
batch: 15 Training Loss: 0.149876
batch: 16 Training Loss: 0.146182
batch: 17 Training Loss: 0.141445
batch: 18 Training Loss: 0.143782
batch: 19 Training Loss: 0.140478
batch: 20 Training Loss: 0.136307
batch: 21 Training Loss: 0.132401
batch: 22 Training Loss: 0.132268
batch: 23 Training Loss: 0.129159
batch: 24 Training Loss: 0.129400
batch: 25 Training Loss: 0.127045
batch: 26 Training Loss: 0.124032
batch: 27 Training Loss: 0.122924
batch: 28 Training Loss: 0.121827
batch: 29 Training Loss: 0.119736
batch: 30 Training Loss: 0.122366
batch: 31 Training Loss: 0.120574
batch: 32 Training Loss: 0.126799
batch: 33 Training Loss: 0.124383
batch: 34 Training Loss: 0.121180
batch: 35 Training Loss: 0.120768
batch: 36 Training Loss: 0.123422
batch: 37 Training Loss: 0.126176
batch: 38 Training Loss: 0.123542
batch: 39 Training Loss: 0.124287
batch: 40 Training Loss: 0.127966
batch: 41 Training Loss: 0.126726
batch: 42 Training Loss: 0.127813
batch: 43 Training Loss: 0.125120
batch: 44 Training Loss: 0.130583
batch: 45 Training Loss: 0.128633
batch: 46 Training Loss: 0.128950
batch: 47 Training Loss: 0.128895
batch: 48 Training Loss: 0.127185
batch: 49 Training Loss: 0.129450
batch: 50 Training Loss: 0.131494
batch: 51 Training Loss: 0.132762
batch: 52 Training Loss: 0.133932
batch: 53 Training Loss: 0.133324
batch: 54 Training Loss: 0.134697
batch: 55 Training Loss: 0.139916
batch: 56 Training Loss: 0.138897
batch: 57 Training Loss: 0.141554
batch: 58 Training Loss: 0.141179
batch: 59 Training Loss: 0.140660
batch: 60 Training Loss: 0.139837
batch: 61 Training Loss: 0.140250
batch: 62 Training Loss: 0.139418
batch: 63 Training Loss: 0.140857
batch: 64 Training Loss: 0.140099
batch: 65 Training Loss: 0.140263
batch: 66 Training Loss: 0.140334
batch: 67 Training Loss: 0.141303
batch: 68 Training Loss: 0.141772
batch: 69 Training Loss: 0.140444
batch: 70 Training Loss: 0.143645
batch: 71 Training Loss: 0.143560
batch: 72 Training Loss: 0.142028
batch: 73 Training Loss: 0.141806
batch: 74 Training Loss: 0.141830
batch: 75 Training Loss: 0.140660
batch: 76 Training Loss: 0.140916
batch: 77 Training Loss: 0.139930
batch: 78 Training Loss: 0.139894
batch: 79 Training Loss: 0.143282
batch: 80 Training Loss: 0.143583
batch: 81 Training Loss: 0.143984
batch: 82 Training Loss: 0.144101
batch: 83 Training Loss: 0.143323
batch: 84 Training Loss: 0.144058
batch: 85 Training Loss: 0.144236
batch: 86 Training Loss: 0.148529
batch: 87 Training Loss: 0.148735
batch: 88 Training Loss: 0.150303
batch: 89 Training Loss: 0.150151
batch: 90 Training Loss: 0.149702
batch: 91 Training Loss: 0.148732
batch: 92 Training Loss: 0.149418
batch: 93 Training Loss: 0.151260
batch: 94 Training Loss: 0.150273
batch: 95 Training Loss: 0.150597
batch: 96 Training Loss: 0.149688
batch: 97 Training Loss: 0.149072
batch: 98 Training Loss: 0.149947
batch: 99 Training Loss: 0.150348
batch: 100 Training Loss: 0.150316
batch: 101 Training Loss: 0.150101
batch: 102 Training Loss: 0.151653
batch: 103 Training Loss: 0.154363
batch: 104 Training Loss: 0.153179
batch: 105 Training Loss: 0.156602

batch: 105 Training Loss: 0.159009
batch: 106 Training Loss: 0.157799
batch: 107 Training Loss: 0.158866
batch: 108 Training Loss: 0.158905
batch: 109 Training Loss: 0.158181
batch: 110 Training Loss: 0.157667
batch: 111 Training Loss: 0.159160
batch: 112 Training Loss: 0.159311
batch: 113 Training Loss: 0.158152
batch: 114 Training Loss: 0.157179
batch: 115 Training Loss: 0.156707
batch: 116 Training Loss: 0.156160
batch: 117 Training Loss: 0.156771
batch: 118 Training Loss: 0.156974
batch: 119 Training Loss: 0.156655
batch: 120 Training Loss: 0.156577
batch: 121 Training Loss: 0.156350
batch: 122 Training Loss: 0.156107
batch: 123 Training Loss: 0.155680
batch: 124 Training Loss: 0.157230
batch: 125 Training Loss: 0.156212
batch: 126 Training Loss: 0.156718
batch: 127 Training Loss: 0.156642
batch: 128 Training Loss: 0.156198
batch: 129 Training Loss: 0.155320
batch: 130 Training Loss: 0.157177
batch: 131 Training Loss: 0.159732
batch: 132 Training Loss: 0.159375
batch: 133 Training Loss: 0.158440
batch: 134 Training Loss: 0.160631
batch: 135 Training Loss: 0.160440
batch: 136 Training Loss: 0.160042
batch: 137 Training Loss: 0.159363
batch: 138 Training Loss: 0.159111
batch: 139 Training Loss: 0.159647
batch: 140 Training Loss: 0.160667
batch: 141 Training Loss: 0.161001
batch: 142 Training Loss: 0.160138
batch: 143 Training Loss: 0.161331
batch: 144 Training Loss: 0.162195
batch: 145 Training Loss: 0.163962
batch: 146 Training Loss: 0.163885
batch: 147 Training Loss: 0.163436
batch: 148 Training Loss: 0.162552
batch: 149 Training Loss: 0.163064
batch: 150 Training Loss: 0.163147
batch: 151 Training Loss: 0.164162
batch: 152 Training Loss: 0.164325
batch: 153 Training Loss: 0.164685
batch: 154 Training Loss: 0.164009
batch: 155 Training Loss: 0.163588
batch: 156 Training Loss: 0.163643
batch: 157 Training Loss: 0.163048
batch: 158 Training Loss: 0.162677
batch: 159 Training Loss: 0.161807
batch: 160 Training Loss: 0.161490
batch: 161 Training Loss: 0.160648
batch: 162 Training Loss: 0.160933
batch: 163 Training Loss: 0.161547
batch: 164 Training Loss: 0.163165
batch: 165 Training Loss: 0.163266
batch: 166 Training Loss: 0.163339
batch: 167 Training Loss: 0.162652
batch: 168 Training Loss: 0.162790
batch: 169 Training Loss: 0.163429
batch: 170 Training Loss: 0.163448
batch: 171 Training Loss: 0.163404
batch: 172 Training Loss: 0.163076
batch: 173 Training Loss: 0.163103
batch: 174 Training Loss: 0.163328
batch: 175 Training Loss: 0.163582
batch: 176 Training Loss: 0.163667
batch: 177 Training Loss: 0.163633
batch: 178 Training Loss: 0.163223
batch: 179 Training Loss: 0.163649
batch: 180 Training Loss: 0.163362
batch: 181 Training Loss: 0.163924
batch: 182 Training Loss: 0.164418
batch: 183 Training Loss: 0.164413
batch: 184 Training Loss: 0.166520
batch: 185 Training Loss: 0.166499
batch: 186 Training Loss: 0.166856
batch: 187 Training Loss: 0.167264
batch: 188 Training Loss: 0.167332
batch: 189 Training Loss: 0.166627
batch: 190 Training Loss: 0.167334
batch: 191 Training Loss: 0.167872
batch: 192 Training Loss: 0.168137
batch: 193 Training Loss: 0.167523
batch: 194 Training Loss: 0.168125
batch: 195 Training Loss: 0.167730
batch: 196 Training Loss: 0.167330

batch: 196 Training Loss: 0.167559
batch: 197 Training Loss: 0.167519
batch: 198 Training Loss: 0.168243
batch: 199 Training Loss: 0.167800
batch: 200 Training Loss: 0.168462
batch: 201 Training Loss: 0.168732
batch: 202 Training Loss: 0.168396
batch: 203 Training Loss: 0.168157
batch: 204 Training Loss: 0.168949
batch: 205 Training Loss: 0.168341
batch: 206 Training Loss: 0.167989
batch: 207 Training Loss: 0.168158
batch: 208 Training Loss: 0.168971
Epoch: 59 Training Loss: 0.168971 Validation Loss: 1.124295
batch: 0 Training Loss: 0.161341
batch: 1 Training Loss: 0.197730
batch: 2 Training Loss: 0.228928
batch: 3 Training Loss: 0.211971
batch: 4 Training Loss: 0.198014
batch: 5 Training Loss: 0.168296
batch: 6 Training Loss: 0.156075
batch: 7 Training Loss: 0.147434
batch: 8 Training Loss: 0.168889
batch: 9 Training Loss: 0.182623
batch: 10 Training Loss: 0.183127
batch: 11 Training Loss: 0.207828
batch: 12 Training Loss: 0.196027
batch: 13 Training Loss: 0.188662
batch: 14 Training Loss: 0.187940
batch: 15 Training Loss: 0.179321
batch: 16 Training Loss: 0.177968
batch: 17 Training Loss: 0.178787
batch: 18 Training Loss: 0.176726
batch: 19 Training Loss: 0.185244
batch: 20 Training Loss: 0.178110
batch: 21 Training Loss: 0.172054
batch: 22 Training Loss: 0.176022
batch: 23 Training Loss: 0.174263
batch: 24 Training Loss: 0.169604
batch: 25 Training Loss: 0.168057
batch: 26 Training Loss: 0.164363
batch: 27 Training Loss: 0.165987
batch: 28 Training Loss: 0.164543
batch: 29 Training Loss: 0.161591
batch: 30 Training Loss: 0.157938
batch: 31 Training Loss: 0.154679
batch: 32 Training Loss: 0.153631
batch: 33 Training Loss: 0.153636
batch: 34 Training Loss: 0.151488
batch: 35 Training Loss: 0.160347
batch: 36 Training Loss: 0.165549
batch: 37 Training Loss: 0.161867
batch: 38 Training Loss: 0.160229
batch: 39 Training Loss: 0.159374
batch: 40 Training Loss: 0.158329
batch: 41 Training Loss: 0.164290
batch: 42 Training Loss: 0.170953
batch: 43 Training Loss: 0.168536
batch: 44 Training Loss: 0.173944
batch: 45 Training Loss: 0.177046
batch: 46 Training Loss: 0.183949
batch: 47 Training Loss: 0.180390
batch: 48 Training Loss: 0.180619
batch: 49 Training Loss: 0.187311
batch: 50 Training Loss: 0.185098
batch: 51 Training Loss: 0.184844
batch: 52 Training Loss: 0.186012
batch: 53 Training Loss: 0.185030
batch: 54 Training Loss: 0.185664
batch: 55 Training Loss: 0.185000
batch: 56 Training Loss: 0.186884
batch: 57 Training Loss: 0.184806
batch: 58 Training Loss: 0.182854
batch: 59 Training Loss: 0.182204
batch: 60 Training Loss: 0.183032
batch: 61 Training Loss: 0.181372
batch: 62 Training Loss: 0.179145
batch: 63 Training Loss: 0.176900
batch: 64 Training Loss: 0.177766
batch: 65 Training Loss: 0.178276
batch: 66 Training Loss: 0.176439
batch: 67 Training Loss: 0.177692
batch: 68 Training Loss: 0.175864
batch: 69 Training Loss: 0.183349
batch: 70 Training Loss: 0.186176
batch: 71 Training Loss: 0.186177
batch: 72 Training Loss: 0.186266
batch: 73 Training Loss: 0.186939
batch: 74 Training Loss: 0.185091
batch: 75 Training Loss: 0.184583
batch: 76 Training Loss: 0.185068
batch: 77 Training Loss: 0.184589

batch: 78 Training Loss: 0.182912
batch: 79 Training Loss: 0.181752
batch: 80 Training Loss: 0.180985
batch: 81 Training Loss: 0.186646
batch: 82 Training Loss: 0.185906
batch: 83 Training Loss: 0.186677
batch: 84 Training Loss: 0.185733
batch: 85 Training Loss: 0.184210
batch: 86 Training Loss: 0.185721
batch: 87 Training Loss: 0.185209
batch: 88 Training Loss: 0.186625
batch: 89 Training Loss: 0.187154
batch: 90 Training Loss: 0.187880
batch: 91 Training Loss: 0.189850
batch: 92 Training Loss: 0.189154
batch: 93 Training Loss: 0.189237
batch: 94 Training Loss: 0.188860
batch: 95 Training Loss: 0.189294
batch: 96 Training Loss: 0.190147
batch: 97 Training Loss: 0.190472
batch: 98 Training Loss: 0.190683
batch: 99 Training Loss: 0.189376
batch: 100 Training Loss: 0.188693
batch: 101 Training Loss: 0.187295
batch: 102 Training Loss: 0.186367
batch: 103 Training Loss: 0.188940
batch: 104 Training Loss: 0.188429
batch: 105 Training Loss: 0.187521
batch: 106 Training Loss: 0.187279
batch: 107 Training Loss: 0.186365
batch: 108 Training Loss: 0.185975
batch: 109 Training Loss: 0.185543
batch: 110 Training Loss: 0.186191
batch: 111 Training Loss: 0.190152
batch: 112 Training Loss: 0.189955
batch: 113 Training Loss: 0.188648
batch: 114 Training Loss: 0.188532
batch: 115 Training Loss: 0.188421
batch: 116 Training Loss: 0.188292
batch: 117 Training Loss: 0.187717
batch: 118 Training Loss: 0.187695
batch: 119 Training Loss: 0.189137
batch: 120 Training Loss: 0.190172
batch: 121 Training Loss: 0.193113
batch: 122 Training Loss: 0.192084
batch: 123 Training Loss: 0.192140
batch: 124 Training Loss: 0.191688
batch: 125 Training Loss: 0.190865
batch: 126 Training Loss: 0.190576
batch: 127 Training Loss: 0.189469
batch: 128 Training Loss: 0.188412
batch: 129 Training Loss: 0.188075
batch: 130 Training Loss: 0.187593
batch: 131 Training Loss: 0.189926
batch: 132 Training Loss: 0.191851
batch: 133 Training Loss: 0.191418
batch: 134 Training Loss: 0.190716
batch: 135 Training Loss: 0.190706
batch: 136 Training Loss: 0.190910
batch: 137 Training Loss: 0.191682
batch: 138 Training Loss: 0.190722
batch: 139 Training Loss: 0.189665
batch: 140 Training Loss: 0.188961
batch: 141 Training Loss: 0.189885
batch: 142 Training Loss: 0.189386
batch: 143 Training Loss: 0.189240
batch: 144 Training Loss: 0.188649
batch: 145 Training Loss: 0.189296
batch: 146 Training Loss: 0.188965
batch: 147 Training Loss: 0.188641
batch: 148 Training Loss: 0.188584
batch: 149 Training Loss: 0.188467
batch: 150 Training Loss: 0.187527
batch: 151 Training Loss: 0.186852
batch: 152 Training Loss: 0.186628
batch: 153 Training Loss: 0.185902
batch: 154 Training Loss: 0.185429
batch: 155 Training Loss: 0.185649
batch: 156 Training Loss: 0.185135
batch: 157 Training Loss: 0.185141
batch: 158 Training Loss: 0.186660
batch: 159 Training Loss: 0.187433
batch: 160 Training Loss: 0.187096
batch: 161 Training Loss: 0.187362
batch: 162 Training Loss: 0.187961
batch: 163 Training Loss: 0.188503
batch: 164 Training Loss: 0.187972
batch: 165 Training Loss: 0.189035
batch: 166 Training Loss: 0.190250
batch: 167 Training Loss: 0.189968
batch: 168 Training Loss: 0.189668

```
batch: 169 Training Loss: 0.190073
batch: 170 Training Loss: 0.189600
batch: 171 Training Loss: 0.189189
batch: 172 Training Loss: 0.189010
batch: 173 Training Loss: 0.188800
batch: 174 Training Loss: 0.189509
batch: 175 Training Loss: 0.189216
batch: 176 Training Loss: 0.189628
batch: 177 Training Loss: 0.189264
batch: 178 Training Loss: 0.188470
batch: 179 Training Loss: 0.187618
batch: 180 Training Loss: 0.187351
batch: 181 Training Loss: 0.187839
batch: 182 Training Loss: 0.187968
batch: 183 Training Loss: 0.188225
batch: 184 Training Loss: 0.188249
batch: 185 Training Loss: 0.187598
batch: 186 Training Loss: 0.187354
batch: 187 Training Loss: 0.186753
batch: 188 Training Loss: 0.188463
batch: 189 Training Loss: 0.189013
batch: 190 Training Loss: 0.190121
batch: 191 Training Loss: 0.190383
batch: 192 Training Loss: 0.189765
batch: 193 Training Loss: 0.190573
batch: 194 Training Loss: 0.190032
batch: 195 Training Loss: 0.190872
batch: 196 Training Loss: 0.192368
batch: 197 Training Loss: 0.192602
batch: 198 Training Loss: 0.192285
batch: 199 Training Loss: 0.192879
batch: 200 Training Loss: 0.192701
batch: 201 Training Loss: 0.193312
batch: 202 Training Loss: 0.192497
batch: 203 Training Loss: 0.192400
batch: 204 Training Loss: 0.192683
batch: 205 Training Loss: 0.192328
batch: 206 Training Loss: 0.192283
batch: 207 Training Loss: 0.192222
batch: 208 Training Loss: 0.192560
Epoch: 60 Training Loss: 0.192560 Validation Loss: 1.261854
batch: 0 Training Loss: 0.068024
batch: 1 Training Loss: 0.138636
batch: 2 Training Loss: 0.142432
batch: 3 Training Loss: 0.168833
batch: 4 Training Loss: 0.149974
batch: 5 Training Loss: 0.148108
batch: 6 Training Loss: 0.143510
batch: 7 Training Loss: 0.151478
batch: 8 Training Loss: 0.145182
batch: 9 Training Loss: 0.160113
batch: 10 Training Loss: 0.174514
batch: 11 Training Loss: 0.168954
batch: 12 Training Loss: 0.166157
batch: 13 Training Loss: 0.171877
batch: 14 Training Loss: 0.166277
batch: 15 Training Loss: 0.173461
batch: 16 Training Loss: 0.175217
batch: 17 Training Loss: 0.186132
batch: 18 Training Loss: 0.186943
batch: 19 Training Loss: 0.181630
batch: 20 Training Loss: 0.189637
batch: 21 Training Loss: 0.189974
batch: 22 Training Loss: 0.183812
batch: 23 Training Loss: 0.179191
batch: 24 Training Loss: 0.178850
batch: 25 Training Loss: 0.183801
batch: 26 Training Loss: 0.185111
batch: 27 Training Loss: 0.189028
batch: 28 Training Loss: 0.186250
batch: 29 Training Loss: 0.190380
batch: 30 Training Loss: 0.197775
batch: 31 Training Loss: 0.195301
batch: 32 Training Loss: 0.192751
batch: 33 Training Loss: 0.188259
batch: 34 Training Loss: 0.189343
batch: 35 Training Loss: 0.188344
batch: 36 Training Loss: 0.186327
batch: 37 Training Loss: 0.183208
batch: 38 Training Loss: 0.182164
batch: 39 Training Loss: 0.182968
batch: 40 Training Loss: 0.183620
batch: 41 Training Loss: 0.184979
batch: 42 Training Loss: 0.184927
batch: 43 Training Loss: 0.180987
batch: 44 Training Loss: 0.180645
batch: 45 Training Loss: 0.180378
batch: 46 Training Loss: 0.182228
batch: 47 Training Loss: 0.180620
batch: 48 Training Loss: 0.182757
batch: 49 Training Loss: 0.180886
```

batch: 50 Training Loss: 0.179055
batch: 51 Training Loss: 0.176238
batch: 52 Training Loss: 0.175088
batch: 53 Training Loss: 0.178386
batch: 54 Training Loss: 0.176816
batch: 55 Training Loss: 0.179050
batch: 56 Training Loss: 0.178455
batch: 57 Training Loss: 0.182203
batch: 58 Training Loss: 0.181183
batch: 59 Training Loss: 0.181856
batch: 60 Training Loss: 0.182284
batch: 61 Training Loss: 0.185631
batch: 62 Training Loss: 0.187732
batch: 63 Training Loss: 0.190649
batch: 64 Training Loss: 0.189469
batch: 65 Training Loss: 0.194563
batch: 66 Training Loss: 0.194834
batch: 67 Training Loss: 0.194068
batch: 68 Training Loss: 0.194316
batch: 69 Training Loss: 0.193264
batch: 70 Training Loss: 0.192546
batch: 71 Training Loss: 0.194201
batch: 72 Training Loss: 0.193222
batch: 73 Training Loss: 0.191629
batch: 74 Training Loss: 0.190897
batch: 75 Training Loss: 0.192413
batch: 76 Training Loss: 0.192820
batch: 77 Training Loss: 0.192619
batch: 78 Training Loss: 0.191124
batch: 79 Training Loss: 0.190135
batch: 80 Training Loss: 0.188710
batch: 81 Training Loss: 0.189431
batch: 82 Training Loss: 0.190555
batch: 83 Training Loss: 0.189873
batch: 84 Training Loss: 0.191085
batch: 85 Training Loss: 0.190220
batch: 86 Training Loss: 0.190590
batch: 87 Training Loss: 0.190377
batch: 88 Training Loss: 0.192338
batch: 89 Training Loss: 0.190822
batch: 90 Training Loss: 0.190222
batch: 91 Training Loss: 0.189386
batch: 92 Training Loss: 0.189611
batch: 93 Training Loss: 0.188440
batch: 94 Training Loss: 0.187828
batch: 95 Training Loss: 0.193396
batch: 96 Training Loss: 0.195330
batch: 97 Training Loss: 0.196509
batch: 98 Training Loss: 0.196148
batch: 99 Training Loss: 0.195721
batch: 100 Training Loss: 0.194760
batch: 101 Training Loss: 0.193871
batch: 102 Training Loss: 0.194214
batch: 103 Training Loss: 0.193058
batch: 104 Training Loss: 0.192530
batch: 105 Training Loss: 0.193714
batch: 106 Training Loss: 0.193484
batch: 107 Training Loss: 0.193336
batch: 108 Training Loss: 0.193374
batch: 109 Training Loss: 0.192952
batch: 110 Training Loss: 0.191810
batch: 111 Training Loss: 0.190821
batch: 112 Training Loss: 0.190186
batch: 113 Training Loss: 0.190229
batch: 114 Training Loss: 0.188887
batch: 115 Training Loss: 0.187541
batch: 116 Training Loss: 0.186112
batch: 117 Training Loss: 0.186360
batch: 118 Training Loss: 0.187357
batch: 119 Training Loss: 0.186549
batch: 120 Training Loss: 0.187185
batch: 121 Training Loss: 0.187691
batch: 122 Training Loss: 0.187223
batch: 123 Training Loss: 0.186149
batch: 124 Training Loss: 0.187568
batch: 125 Training Loss: 0.186514
batch: 126 Training Loss: 0.186729
batch: 127 Training Loss: 0.189390
batch: 128 Training Loss: 0.188566
batch: 129 Training Loss: 0.187680
batch: 130 Training Loss: 0.188759
batch: 131 Training Loss: 0.188143
batch: 132 Training Loss: 0.187381
batch: 133 Training Loss: 0.186710
batch: 134 Training Loss: 0.186761
batch: 135 Training Loss: 0.186852
batch: 136 Training Loss: 0.186945
batch: 137 Training Loss: 0.186229
batch: 138 Training Loss: 0.186054
batch: 139 Training Loss: 0.185999
batch: 140 Training Loss: 0.186011

```
batch: 141 Training Loss: 0.185474
batch: 142 Training Loss: 0.184974
batch: 143 Training Loss: 0.184706
batch: 144 Training Loss: 0.186421
batch: 145 Training Loss: 0.186136
batch: 146 Training Loss: 0.185585
batch: 147 Training Loss: 0.186441
batch: 148 Training Loss: 0.185989
batch: 149 Training Loss: 0.185588
batch: 150 Training Loss: 0.189346
batch: 151 Training Loss: 0.189420
batch: 152 Training Loss: 0.188643
batch: 153 Training Loss: 0.188166
batch: 154 Training Loss: 0.189014
batch: 155 Training Loss: 0.188456
batch: 156 Training Loss: 0.189490
batch: 157 Training Loss: 0.189659
batch: 158 Training Loss: 0.189771
batch: 159 Training Loss: 0.189514
batch: 160 Training Loss: 0.189600
batch: 161 Training Loss: 0.189118
batch: 162 Training Loss: 0.189299
batch: 163 Training Loss: 0.188960
batch: 164 Training Loss: 0.189260
batch: 165 Training Loss: 0.189997
batch: 166 Training Loss: 0.189840
batch: 167 Training Loss: 0.189909
batch: 168 Training Loss: 0.189616
batch: 169 Training Loss: 0.189334
batch: 170 Training Loss: 0.188592
batch: 171 Training Loss: 0.188594
batch: 172 Training Loss: 0.187754
batch: 173 Training Loss: 0.188295
batch: 174 Training Loss: 0.187841
batch: 175 Training Loss: 0.187945
batch: 176 Training Loss: 0.188022
batch: 177 Training Loss: 0.187805
batch: 178 Training Loss: 0.187502
batch: 179 Training Loss: 0.186592
batch: 180 Training Loss: 0.188209
batch: 181 Training Loss: 0.188206
batch: 182 Training Loss: 0.187647
batch: 183 Training Loss: 0.187335
batch: 184 Training Loss: 0.187430
batch: 185 Training Loss: 0.186853
batch: 186 Training Loss: 0.187491
batch: 187 Training Loss: 0.186778
batch: 188 Training Loss: 0.187362
batch: 189 Training Loss: 0.186717
batch: 190 Training Loss: 0.186091
batch: 191 Training Loss: 0.186723
batch: 192 Training Loss: 0.186433
batch: 193 Training Loss: 0.186338
batch: 194 Training Loss: 0.187894
batch: 195 Training Loss: 0.187944
batch: 196 Training Loss: 0.187617
batch: 197 Training Loss: 0.187857
batch: 198 Training Loss: 0.188323
batch: 199 Training Loss: 0.187677
batch: 200 Training Loss: 0.187069
batch: 201 Training Loss: 0.186550
batch: 202 Training Loss: 0.185929
batch: 203 Training Loss: 0.186405
batch: 204 Training Loss: 0.186320
batch: 205 Training Loss: 0.187218
batch: 206 Training Loss: 0.186792
batch: 207 Training Loss: 0.187032
batch: 208 Training Loss: 0.187115
Epoch: 61 Training Loss: 0.187115 Validation Loss: 1.303685
batch: 0 Training Loss: 0.022806
batch: 1 Training Loss: 0.040663
batch: 2 Training Loss: 0.151131
batch: 3 Training Loss: 0.167461
batch: 4 Training Loss: 0.164531
batch: 5 Training Loss: 0.167379
batch: 6 Training Loss: 0.170163
batch: 7 Training Loss: 0.173681
batch: 8 Training Loss: 0.167752
batch: 9 Training Loss: 0.153090
batch: 10 Training Loss: 0.152126
batch: 11 Training Loss: 0.147087
batch: 12 Training Loss: 0.146029
batch: 13 Training Loss: 0.149401
batch: 14 Training Loss: 0.147504
batch: 15 Training Loss: 0.140247
batch: 16 Training Loss: 0.137394
batch: 17 Training Loss: 0.138490
batch: 18 Training Loss: 0.135184
batch: 19 Training Loss: 0.138251
batch: 20 Training Loss: 0.135317
batch: 21 Training Loss: 0.136465
```

batch: 22 Training Loss: 0.132505
batch: 23 Training Loss: 0.131832
batch: 24 Training Loss: 0.136831
batch: 25 Training Loss: 0.136345
batch: 26 Training Loss: 0.136510
batch: 27 Training Loss: 0.136375
batch: 28 Training Loss: 0.135289
batch: 29 Training Loss: 0.135592
batch: 30 Training Loss: 0.134216
batch: 31 Training Loss: 0.135696
batch: 32 Training Loss: 0.133214
batch: 33 Training Loss: 0.132011
batch: 34 Training Loss: 0.131018
batch: 35 Training Loss: 0.130995
batch: 36 Training Loss: 0.128614
batch: 37 Training Loss: 0.130468
batch: 38 Training Loss: 0.128632
batch: 39 Training Loss: 0.129346
batch: 40 Training Loss: 0.127310
batch: 41 Training Loss: 0.124665
batch: 42 Training Loss: 0.124739
batch: 43 Training Loss: 0.124294
batch: 44 Training Loss: 0.122883
batch: 45 Training Loss: 0.123146
batch: 46 Training Loss: 0.121374
batch: 47 Training Loss: 0.124022
batch: 48 Training Loss: 0.122248
batch: 49 Training Loss: 0.120333
batch: 50 Training Loss: 0.121128
batch: 51 Training Loss: 0.119694
batch: 52 Training Loss: 0.119192
batch: 53 Training Loss: 0.117872
batch: 54 Training Loss: 0.119749
batch: 55 Training Loss: 0.118086
batch: 56 Training Loss: 0.119096
batch: 57 Training Loss: 0.119901
batch: 58 Training Loss: 0.120135
batch: 59 Training Loss: 0.120630
batch: 60 Training Loss: 0.120324
batch: 61 Training Loss: 0.119266
batch: 62 Training Loss: 0.119307
batch: 63 Training Loss: 0.120719
batch: 64 Training Loss: 0.124499
batch: 65 Training Loss: 0.123229
batch: 66 Training Loss: 0.122866
batch: 67 Training Loss: 0.123427
batch: 68 Training Loss: 0.123226
batch: 69 Training Loss: 0.122218
batch: 70 Training Loss: 0.121827
batch: 71 Training Loss: 0.122446
batch: 72 Training Loss: 0.122693
batch: 73 Training Loss: 0.123970
batch: 74 Training Loss: 0.123718
batch: 75 Training Loss: 0.123948
batch: 76 Training Loss: 0.125239
batch: 77 Training Loss: 0.125858
batch: 78 Training Loss: 0.125230
batch: 79 Training Loss: 0.125489
batch: 80 Training Loss: 0.127248
batch: 81 Training Loss: 0.128605
batch: 82 Training Loss: 0.129767
batch: 83 Training Loss: 0.130828
batch: 84 Training Loss: 0.130314
batch: 85 Training Loss: 0.130391
batch: 86 Training Loss: 0.129712
batch: 87 Training Loss: 0.129856
batch: 88 Training Loss: 0.128616
batch: 89 Training Loss: 0.128150
batch: 90 Training Loss: 0.127832
batch: 91 Training Loss: 0.126957
batch: 92 Training Loss: 0.126450
batch: 93 Training Loss: 0.125548
batch: 94 Training Loss: 0.126139
batch: 95 Training Loss: 0.125905
batch: 96 Training Loss: 0.128288
batch: 97 Training Loss: 0.127778
batch: 98 Training Loss: 0.128192
batch: 99 Training Loss: 0.128057
batch: 100 Training Loss: 0.128426
batch: 101 Training Loss: 0.127665
batch: 102 Training Loss: 0.128766
batch: 103 Training Loss: 0.128523
batch: 104 Training Loss: 0.128441
batch: 105 Training Loss: 0.127585
batch: 106 Training Loss: 0.128832
batch: 107 Training Loss: 0.128993
batch: 108 Training Loss: 0.129773
batch: 109 Training Loss: 0.130013
batch: 110 Training Loss: 0.131637
batch: 111 Training Loss: 0.131878
batch: 112 Training Loss: 0.131773

batch: 113 Training Loss: 0.132746
batch: 114 Training Loss: 0.132513
batch: 115 Training Loss: 0.135538
batch: 116 Training Loss: 0.135430
batch: 117 Training Loss: 0.135198
batch: 118 Training Loss: 0.134649
batch: 119 Training Loss: 0.135830
batch: 120 Training Loss: 0.136908
batch: 121 Training Loss: 0.136754
batch: 122 Training Loss: 0.136739
batch: 123 Training Loss: 0.136872
batch: 124 Training Loss: 0.136819
batch: 125 Training Loss: 0.137931
batch: 126 Training Loss: 0.137797
batch: 127 Training Loss: 0.137250
batch: 128 Training Loss: 0.137457
batch: 129 Training Loss: 0.138326
batch: 130 Training Loss: 0.139762
batch: 131 Training Loss: 0.140341
batch: 132 Training Loss: 0.141179
batch: 133 Training Loss: 0.141471
batch: 134 Training Loss: 0.140862
batch: 135 Training Loss: 0.140323
batch: 136 Training Loss: 0.142284
batch: 137 Training Loss: 0.142354
batch: 138 Training Loss: 0.143017
batch: 139 Training Loss: 0.142974
batch: 140 Training Loss: 0.142795
batch: 141 Training Loss: 0.143068
batch: 142 Training Loss: 0.143144
batch: 143 Training Loss: 0.144142
batch: 144 Training Loss: 0.143965
batch: 145 Training Loss: 0.143293
batch: 146 Training Loss: 0.143704
batch: 147 Training Loss: 0.144220
batch: 148 Training Loss: 0.144028
batch: 149 Training Loss: 0.143578
batch: 150 Training Loss: 0.143477
batch: 151 Training Loss: 0.143042
batch: 152 Training Loss: 0.142798
batch: 153 Training Loss: 0.142925
batch: 154 Training Loss: 0.142384
batch: 155 Training Loss: 0.142200
batch: 156 Training Loss: 0.142558
batch: 157 Training Loss: 0.143381
batch: 158 Training Loss: 0.143511
batch: 159 Training Loss: 0.143327
batch: 160 Training Loss: 0.143177
batch: 161 Training Loss: 0.143468
batch: 162 Training Loss: 0.142911
batch: 163 Training Loss: 0.142325
batch: 164 Training Loss: 0.142599
batch: 165 Training Loss: 0.143144
batch: 166 Training Loss: 0.142616
batch: 167 Training Loss: 0.143955
batch: 168 Training Loss: 0.144409
batch: 169 Training Loss: 0.144238
batch: 170 Training Loss: 0.143775
batch: 171 Training Loss: 0.143174
batch: 172 Training Loss: 0.143864
batch: 173 Training Loss: 0.144251
batch: 174 Training Loss: 0.143961
batch: 175 Training Loss: 0.143482
batch: 176 Training Loss: 0.145561
batch: 177 Training Loss: 0.145550
batch: 178 Training Loss: 0.145642
batch: 179 Training Loss: 0.145356
batch: 180 Training Loss: 0.145502
batch: 181 Training Loss: 0.146207
batch: 182 Training Loss: 0.146221
batch: 183 Training Loss: 0.146311
batch: 184 Training Loss: 0.147595
batch: 185 Training Loss: 0.147315
batch: 186 Training Loss: 0.147137
batch: 187 Training Loss: 0.146925
batch: 188 Training Loss: 0.147345
batch: 189 Training Loss: 0.147192
batch: 190 Training Loss: 0.147554
batch: 191 Training Loss: 0.147831
batch: 192 Training Loss: 0.148176
batch: 193 Training Loss: 0.148061
batch: 194 Training Loss: 0.148030
batch: 195 Training Loss: 0.147652
batch: 196 Training Loss: 0.148181
batch: 197 Training Loss: 0.148258
batch: 198 Training Loss: 0.149108
batch: 199 Training Loss: 0.149360
batch: 200 Training Loss: 0.149837
batch: 201 Training Loss: 0.151698
batch: 202 Training Loss: 0.152098
batch: 203 Training Loss: 0.151637

batch: 204 Training Loss: 0.151567
batch: 205 Training Loss: 0.152147
batch: 206 Training Loss: 0.152469
batch: 207 Training Loss: 0.152405
batch: 208 Training Loss: 0.151883
Epoch: 62 Training Loss: 0.151883 Validation Loss: 1.268923
batch: 0 Training Loss: 0.179981
batch: 1 Training Loss: 0.232519
batch: 2 Training Loss: 0.182817
batch: 3 Training Loss: 0.148140
batch: 4 Training Loss: 0.175324
batch: 5 Training Loss: 0.178851
batch: 6 Training Loss: 0.175466
batch: 7 Training Loss: 0.177697
batch: 8 Training Loss: 0.170848
batch: 9 Training Loss: 0.169877
batch: 10 Training Loss: 0.168985
batch: 11 Training Loss: 0.156952
batch: 12 Training Loss: 0.155347
batch: 13 Training Loss: 0.146351
batch: 14 Training Loss: 0.159917
batch: 15 Training Loss: 0.159176
batch: 16 Training Loss: 0.153074
batch: 17 Training Loss: 0.155633
batch: 18 Training Loss: 0.152710
batch: 19 Training Loss: 0.151922
batch: 20 Training Loss: 0.156023
batch: 21 Training Loss: 0.152833
batch: 22 Training Loss: 0.149471
batch: 23 Training Loss: 0.160268
batch: 24 Training Loss: 0.169589
batch: 25 Training Loss: 0.171030
batch: 26 Training Loss: 0.172128
batch: 27 Training Loss: 0.167507
batch: 28 Training Loss: 0.168570
batch: 29 Training Loss: 0.164520
batch: 30 Training Loss: 0.164009
batch: 31 Training Loss: 0.161590
batch: 32 Training Loss: 0.160368
batch: 33 Training Loss: 0.160382
batch: 34 Training Loss: 0.157152
batch: 35 Training Loss: 0.157861
batch: 36 Training Loss: 0.157523
batch: 37 Training Loss: 0.156662
batch: 38 Training Loss: 0.154270
batch: 39 Training Loss: 0.150705
batch: 40 Training Loss: 0.152507
batch: 41 Training Loss: 0.152866
batch: 42 Training Loss: 0.155668
batch: 43 Training Loss: 0.153671
batch: 44 Training Loss: 0.154506
batch: 45 Training Loss: 0.153638
batch: 46 Training Loss: 0.154326
batch: 47 Training Loss: 0.152366
batch: 48 Training Loss: 0.149635
batch: 49 Training Loss: 0.147715
batch: 50 Training Loss: 0.149072
batch: 51 Training Loss: 0.152593
batch: 52 Training Loss: 0.152625
batch: 53 Training Loss: 0.150643
batch: 54 Training Loss: 0.151676
batch: 55 Training Loss: 0.152180
batch: 56 Training Loss: 0.150714
batch: 57 Training Loss: 0.148342
batch: 58 Training Loss: 0.149397
batch: 59 Training Loss: 0.149700
batch: 60 Training Loss: 0.149067
batch: 61 Training Loss: 0.147111
batch: 62 Training Loss: 0.148264
batch: 63 Training Loss: 0.148077
batch: 64 Training Loss: 0.151026
batch: 65 Training Loss: 0.150824
batch: 66 Training Loss: 0.150573
batch: 67 Training Loss: 0.150447
batch: 68 Training Loss: 0.149401
batch: 69 Training Loss: 0.148255
batch: 70 Training Loss: 0.150159
batch: 71 Training Loss: 0.151339
batch: 72 Training Loss: 0.151900
batch: 73 Training Loss: 0.153155
batch: 74 Training Loss: 0.152132
batch: 75 Training Loss: 0.152920
batch: 76 Training Loss: 0.155762
batch: 77 Training Loss: 0.155398
batch: 78 Training Loss: 0.154171
batch: 79 Training Loss: 0.157477
batch: 80 Training Loss: 0.157379
batch: 81 Training Loss: 0.156394
batch: 82 Training Loss: 0.155940
batch: 83 Training Loss: 0.155158
batch: 84 Training Loss: 0.154772

batch: 85 Training Loss: 0.154211
batch: 86 Training Loss: 0.152862
batch: 87 Training Loss: 0.152240
batch: 88 Training Loss: 0.152027
batch: 89 Training Loss: 0.152023
batch: 90 Training Loss: 0.151877
batch: 91 Training Loss: 0.150981
batch: 92 Training Loss: 0.152210
batch: 93 Training Loss: 0.150977
batch: 94 Training Loss: 0.152503
batch: 95 Training Loss: 0.151879
batch: 96 Training Loss: 0.156089
batch: 97 Training Loss: 0.156251
batch: 98 Training Loss: 0.155407
batch: 99 Training Loss: 0.155830
batch: 100 Training Loss: 0.155719
batch: 101 Training Loss: 0.156624
batch: 102 Training Loss: 0.156360
batch: 103 Training Loss: 0.155826
batch: 104 Training Loss: 0.154773
batch: 105 Training Loss: 0.154698
batch: 106 Training Loss: 0.154152
batch: 107 Training Loss: 0.153073
batch: 108 Training Loss: 0.151894
batch: 109 Training Loss: 0.151308
batch: 110 Training Loss: 0.151438
batch: 111 Training Loss: 0.150497
batch: 112 Training Loss: 0.149738
batch: 113 Training Loss: 0.148793
batch: 114 Training Loss: 0.150308
batch: 115 Training Loss: 0.149811
batch: 116 Training Loss: 0.149396
batch: 117 Training Loss: 0.148926
batch: 118 Training Loss: 0.150670
batch: 119 Training Loss: 0.149663
batch: 120 Training Loss: 0.148758
batch: 121 Training Loss: 0.148500
batch: 122 Training Loss: 0.147959
batch: 123 Training Loss: 0.147723
batch: 124 Training Loss: 0.146822
batch: 125 Training Loss: 0.146462
batch: 126 Training Loss: 0.146799
batch: 127 Training Loss: 0.147302
batch: 128 Training Loss: 0.146725
batch: 129 Training Loss: 0.146521
batch: 130 Training Loss: 0.146713
batch: 131 Training Loss: 0.148370
batch: 132 Training Loss: 0.148856
batch: 133 Training Loss: 0.148081
batch: 134 Training Loss: 0.147361
batch: 135 Training Loss: 0.147156
batch: 136 Training Loss: 0.147087
batch: 137 Training Loss: 0.147286
batch: 138 Training Loss: 0.146726
batch: 139 Training Loss: 0.146577
batch: 140 Training Loss: 0.146418
batch: 141 Training Loss: 0.146157
batch: 142 Training Loss: 0.146225
batch: 143 Training Loss: 0.146467
batch: 144 Training Loss: 0.146340
batch: 145 Training Loss: 0.145940
batch: 146 Training Loss: 0.145383
batch: 147 Training Loss: 0.145599
batch: 148 Training Loss: 0.145594
batch: 149 Training Loss: 0.146364
batch: 150 Training Loss: 0.145852
batch: 151 Training Loss: 0.146534
batch: 152 Training Loss: 0.146083
batch: 153 Training Loss: 0.145353
batch: 154 Training Loss: 0.145159
batch: 155 Training Loss: 0.145038
batch: 156 Training Loss: 0.144694
batch: 157 Training Loss: 0.144329
batch: 158 Training Loss: 0.144353
batch: 159 Training Loss: 0.143730
batch: 160 Training Loss: 0.146153
batch: 161 Training Loss: 0.146364
batch: 162 Training Loss: 0.146002
batch: 163 Training Loss: 0.147005
batch: 164 Training Loss: 0.146581
batch: 165 Training Loss: 0.146239
batch: 166 Training Loss: 0.145684
batch: 167 Training Loss: 0.145653
batch: 168 Training Loss: 0.145328
batch: 169 Training Loss: 0.145629
batch: 170 Training Loss: 0.146007
batch: 171 Training Loss: 0.145491
batch: 172 Training Loss: 0.146793
batch: 173 Training Loss: 0.148103
batch: 174 Training Loss: 0.148359
batch: 175 Training Loss: 0.148145

batch: 176 Training Loss: 0.147731
batch: 177 Training Loss: 0.149063
batch: 178 Training Loss: 0.150348
batch: 179 Training Loss: 0.150007
batch: 180 Training Loss: 0.150471
batch: 181 Training Loss: 0.150933
batch: 182 Training Loss: 0.150674
batch: 183 Training Loss: 0.151465
batch: 184 Training Loss: 0.152300
batch: 185 Training Loss: 0.152471
batch: 186 Training Loss: 0.152911
batch: 187 Training Loss: 0.153406
batch: 188 Training Loss: 0.153423
batch: 189 Training Loss: 0.153704
batch: 190 Training Loss: 0.153803
batch: 191 Training Loss: 0.153970
batch: 192 Training Loss: 0.153388
batch: 193 Training Loss: 0.154841
batch: 194 Training Loss: 0.155132
batch: 195 Training Loss: 0.154512
batch: 196 Training Loss: 0.154420
batch: 197 Training Loss: 0.155911
batch: 198 Training Loss: 0.155623
batch: 199 Training Loss: 0.156596
batch: 200 Training Loss: 0.159702
batch: 201 Training Loss: 0.160202
batch: 202 Training Loss: 0.159947
batch: 203 Training Loss: 0.159676
batch: 204 Training Loss: 0.159228
batch: 205 Training Loss: 0.159408
batch: 206 Training Loss: 0.160187
batch: 207 Training Loss: 0.160190
batch: 208 Training Loss: 0.160032
Epoch: 63 Training Loss: 0.160032 Validation Loss: 1.487389
batch: 0 Training Loss: 0.092179
batch: 1 Training Loss: 0.161791
batch: 2 Training Loss: 0.172114
batch: 3 Training Loss: 0.151327
batch: 4 Training Loss: 0.165580
batch: 5 Training Loss: 0.149418
batch: 6 Training Loss: 0.208271
batch: 7 Training Loss: 0.191921
batch: 8 Training Loss: 0.203173
batch: 9 Training Loss: 0.196769
batch: 10 Training Loss: 0.194666
batch: 11 Training Loss: 0.194620
batch: 12 Training Loss: 0.194986
batch: 13 Training Loss: 0.195439
batch: 14 Training Loss: 0.191653
batch: 15 Training Loss: 0.180941
batch: 16 Training Loss: 0.188752
batch: 17 Training Loss: 0.188093
batch: 18 Training Loss: 0.185756
batch: 19 Training Loss: 0.183877
batch: 20 Training Loss: 0.182125
batch: 21 Training Loss: 0.179919
batch: 22 Training Loss: 0.179872
batch: 23 Training Loss: 0.174641
batch: 24 Training Loss: 0.180750
batch: 25 Training Loss: 0.178338
batch: 26 Training Loss: 0.174577
batch: 27 Training Loss: 0.169663
batch: 28 Training Loss: 0.166626
batch: 29 Training Loss: 0.167687
batch: 30 Training Loss: 0.165097
batch: 31 Training Loss: 0.174768
batch: 32 Training Loss: 0.173773
batch: 33 Training Loss: 0.171888
batch: 34 Training Loss: 0.178661
batch: 35 Training Loss: 0.176349
batch: 36 Training Loss: 0.172052
batch: 37 Training Loss: 0.170270
batch: 38 Training Loss: 0.170983
batch: 39 Training Loss: 0.174799
batch: 40 Training Loss: 0.172512
batch: 41 Training Loss: 0.171067
batch: 42 Training Loss: 0.168907
batch: 43 Training Loss: 0.166917
batch: 44 Training Loss: 0.165278
batch: 45 Training Loss: 0.162557
batch: 46 Training Loss: 0.164652
batch: 47 Training Loss: 0.162647
batch: 48 Training Loss: 0.163183
batch: 49 Training Loss: 0.161599
batch: 50 Training Loss: 0.159847
batch: 51 Training Loss: 0.161769
batch: 52 Training Loss: 0.160932
batch: 53 Training Loss: 0.158948
batch: 54 Training Loss: 0.157635
batch: 55 Training Loss: 0.159524
batch: 56 Training Loss: 0.160779

batch: 57 Training Loss: 0.159186
batch: 58 Training Loss: 0.162112
batch: 59 Training Loss: 0.161410
batch: 60 Training Loss: 0.160131
batch: 61 Training Loss: 0.164002
batch: 62 Training Loss: 0.164325
batch: 63 Training Loss: 0.168596
batch: 64 Training Loss: 0.173365
batch: 65 Training Loss: 0.175571
batch: 66 Training Loss: 0.173730
batch: 67 Training Loss: 0.181842
batch: 68 Training Loss: 0.180294
batch: 69 Training Loss: 0.189585
batch: 70 Training Loss: 0.192301
batch: 71 Training Loss: 0.195745
batch: 72 Training Loss: 0.193786
batch: 73 Training Loss: 0.192275
batch: 74 Training Loss: 0.192188
batch: 75 Training Loss: 0.191625
batch: 76 Training Loss: 0.193649
batch: 77 Training Loss: 0.191976
batch: 78 Training Loss: 0.195701
batch: 79 Training Loss: 0.193784
batch: 80 Training Loss: 0.193984
batch: 81 Training Loss: 0.193455
batch: 82 Training Loss: 0.192372
batch: 83 Training Loss: 0.191911
batch: 84 Training Loss: 0.191266
batch: 85 Training Loss: 0.192075
batch: 86 Training Loss: 0.190707
batch: 87 Training Loss: 0.189257
batch: 88 Training Loss: 0.187775
batch: 89 Training Loss: 0.186177
batch: 90 Training Loss: 0.184938
batch: 91 Training Loss: 0.183589
batch: 92 Training Loss: 0.182753
batch: 93 Training Loss: 0.182241
batch: 94 Training Loss: 0.181733
batch: 95 Training Loss: 0.180658
batch: 96 Training Loss: 0.180847
batch: 97 Training Loss: 0.180390
batch: 98 Training Loss: 0.179641
batch: 99 Training Loss: 0.179235
batch: 100 Training Loss: 0.178459
batch: 101 Training Loss: 0.178044
batch: 102 Training Loss: 0.177801
batch: 103 Training Loss: 0.177060
batch: 104 Training Loss: 0.175847
batch: 105 Training Loss: 0.175524
batch: 106 Training Loss: 0.175544
batch: 107 Training Loss: 0.175168
batch: 108 Training Loss: 0.175564
batch: 109 Training Loss: 0.174945
batch: 110 Training Loss: 0.174533
batch: 111 Training Loss: 0.173399
batch: 112 Training Loss: 0.172303
batch: 113 Training Loss: 0.171200
batch: 114 Training Loss: 0.170467
batch: 115 Training Loss: 0.169360
batch: 116 Training Loss: 0.170928
batch: 117 Training Loss: 0.170351
batch: 118 Training Loss: 0.169951
batch: 119 Training Loss: 0.169250
batch: 120 Training Loss: 0.168699
batch: 121 Training Loss: 0.167971
batch: 122 Training Loss: 0.167451
batch: 123 Training Loss: 0.166346
batch: 124 Training Loss: 0.167546
batch: 125 Training Loss: 0.167885
batch: 126 Training Loss: 0.167974
batch: 127 Training Loss: 0.168006
batch: 128 Training Loss: 0.167278
batch: 129 Training Loss: 0.167424
batch: 130 Training Loss: 0.166990
batch: 131 Training Loss: 0.167792
batch: 132 Training Loss: 0.166968
batch: 133 Training Loss: 0.166647
batch: 134 Training Loss: 0.166117
batch: 135 Training Loss: 0.165138
batch: 136 Training Loss: 0.164201
batch: 137 Training Loss: 0.163824
batch: 138 Training Loss: 0.163851
batch: 139 Training Loss: 0.162744
batch: 140 Training Loss: 0.161899
batch: 141 Training Loss: 0.161732
batch: 142 Training Loss: 0.163677
batch: 143 Training Loss: 0.162782
batch: 144 Training Loss: 0.162158
batch: 145 Training Loss: 0.161958
batch: 146 Training Loss: 0.162037
batch: 147 Training Loss: 0.161985

batch: 148 Training Loss: 0.161873
batch: 149 Training Loss: 0.162237
batch: 150 Training Loss: 0.162246
batch: 151 Training Loss: 0.166028
batch: 152 Training Loss: 0.165218
batch: 153 Training Loss: 0.166087
batch: 154 Training Loss: 0.165610
batch: 155 Training Loss: 0.165725
batch: 156 Training Loss: 0.165374
batch: 157 Training Loss: 0.167383
batch: 158 Training Loss: 0.166788
batch: 159 Training Loss: 0.167487
batch: 160 Training Loss: 0.167272
batch: 161 Training Loss: 0.167484
batch: 162 Training Loss: 0.168103
batch: 163 Training Loss: 0.168092
batch: 164 Training Loss: 0.167431
batch: 165 Training Loss: 0.167947
batch: 166 Training Loss: 0.167421
batch: 167 Training Loss: 0.166769
batch: 168 Training Loss: 0.166159
batch: 169 Training Loss: 0.166095
batch: 170 Training Loss: 0.166348
batch: 171 Training Loss: 0.166095
batch: 172 Training Loss: 0.165567
batch: 173 Training Loss: 0.166791
batch: 174 Training Loss: 0.166903
batch: 175 Training Loss: 0.166719
batch: 176 Training Loss: 0.166514
batch: 177 Training Loss: 0.166211
batch: 178 Training Loss: 0.165756
batch: 179 Training Loss: 0.165617
batch: 180 Training Loss: 0.165369
batch: 181 Training Loss: 0.165412
batch: 182 Training Loss: 0.165552
batch: 183 Training Loss: 0.165237
batch: 184 Training Loss: 0.165454
batch: 185 Training Loss: 0.165684
batch: 186 Training Loss: 0.165892
batch: 187 Training Loss: 0.165261
batch: 188 Training Loss: 0.164727
batch: 189 Training Loss: 0.164834
batch: 190 Training Loss: 0.164651
batch: 191 Training Loss: 0.164406
batch: 192 Training Loss: 0.163904
batch: 193 Training Loss: 0.164212
batch: 194 Training Loss: 0.163641
batch: 195 Training Loss: 0.164205
batch: 196 Training Loss: 0.163816
batch: 197 Training Loss: 0.163776
batch: 198 Training Loss: 0.163113
batch: 199 Training Loss: 0.163521
batch: 200 Training Loss: 0.162858
batch: 201 Training Loss: 0.163105
batch: 202 Training Loss: 0.162831
batch: 203 Training Loss: 0.163209
batch: 204 Training Loss: 0.164397
batch: 205 Training Loss: 0.164416
batch: 206 Training Loss: 0.163781
batch: 207 Training Loss: 0.164423
batch: 208 Training Loss: 0.164251
Epoch: 64 Training Loss: 0.164251 Validation Loss: 1.316377
batch: 0 Training Loss: 0.145480
batch: 1 Training Loss: 0.150322
batch: 2 Training Loss: 0.179499
batch: 3 Training Loss: 0.144624
batch: 4 Training Loss: 0.154541
batch: 5 Training Loss: 0.151259
batch: 6 Training Loss: 0.173385
batch: 7 Training Loss: 0.186961
batch: 8 Training Loss: 0.201454
batch: 9 Training Loss: 0.190024
batch: 10 Training Loss: 0.187888
batch: 11 Training Loss: 0.208947
batch: 12 Training Loss: 0.207716
batch: 13 Training Loss: 0.201533
batch: 14 Training Loss: 0.219916
batch: 15 Training Loss: 0.209992
batch: 16 Training Loss: 0.218253
batch: 17 Training Loss: 0.213706
batch: 18 Training Loss: 0.209342
batch: 19 Training Loss: 0.201404
batch: 20 Training Loss: 0.203462
batch: 21 Training Loss: 0.206931
batch: 22 Training Loss: 0.200618
batch: 23 Training Loss: 0.195641
batch: 24 Training Loss: 0.199944
batch: 25 Training Loss: 0.202067
batch: 26 Training Loss: 0.198449
batch: 27 Training Loss: 0.200752
batch: 28 Training Loss: 0.197075
. ^ ~~~~~~

batch: 29 Training Loss: 0.204023
batch: 30 Training Loss: 0.200697
batch: 31 Training Loss: 0.195157
batch: 32 Training Loss: 0.192269
batch: 33 Training Loss: 0.190765
batch: 34 Training Loss: 0.193630
batch: 35 Training Loss: 0.200794
batch: 36 Training Loss: 0.201602
batch: 37 Training Loss: 0.199127
batch: 38 Training Loss: 0.200523
batch: 39 Training Loss: 0.198626
batch: 40 Training Loss: 0.195759
batch: 41 Training Loss: 0.191754
batch: 42 Training Loss: 0.189066
batch: 43 Training Loss: 0.185736
batch: 44 Training Loss: 0.185675
batch: 45 Training Loss: 0.185282
batch: 46 Training Loss: 0.183814
batch: 47 Training Loss: 0.182257
batch: 48 Training Loss: 0.181380
batch: 49 Training Loss: 0.182495
batch: 50 Training Loss: 0.180056
batch: 51 Training Loss: 0.177922
batch: 52 Training Loss: 0.174819
batch: 53 Training Loss: 0.175240
batch: 54 Training Loss: 0.175330
batch: 55 Training Loss: 0.174927
batch: 56 Training Loss: 0.172981
batch: 57 Training Loss: 0.171106
batch: 58 Training Loss: 0.168756
batch: 59 Training Loss: 0.170102
batch: 60 Training Loss: 0.171225
batch: 61 Training Loss: 0.172460
batch: 62 Training Loss: 0.172417
batch: 63 Training Loss: 0.174023
batch: 64 Training Loss: 0.174155
batch: 65 Training Loss: 0.172899
batch: 66 Training Loss: 0.171287
batch: 67 Training Loss: 0.170122
batch: 68 Training Loss: 0.168092
batch: 69 Training Loss: 0.166558
batch: 70 Training Loss: 0.166261
batch: 71 Training Loss: 0.164552
batch: 72 Training Loss: 0.162835
batch: 73 Training Loss: 0.162325
batch: 74 Training Loss: 0.161793
batch: 75 Training Loss: 0.160926
batch: 76 Training Loss: 0.160384
batch: 77 Training Loss: 0.159454
batch: 78 Training Loss: 0.157901
batch: 79 Training Loss: 0.156827
batch: 80 Training Loss: 0.156783
batch: 81 Training Loss: 0.156432
batch: 82 Training Loss: 0.158633
batch: 83 Training Loss: 0.160610
batch: 84 Training Loss: 0.158987
batch: 85 Training Loss: 0.157666
batch: 86 Training Loss: 0.160448
batch: 87 Training Loss: 0.159589
batch: 88 Training Loss: 0.160515
batch: 89 Training Loss: 0.160695
batch: 90 Training Loss: 0.159524
batch: 91 Training Loss: 0.158592
batch: 92 Training Loss: 0.159634
batch: 93 Training Loss: 0.160150
batch: 94 Training Loss: 0.160353
batch: 95 Training Loss: 0.158997
batch: 96 Training Loss: 0.159613
batch: 97 Training Loss: 0.158982
batch: 98 Training Loss: 0.159052
batch: 99 Training Loss: 0.159242
batch: 100 Training Loss: 0.158579
batch: 101 Training Loss: 0.158421
batch: 102 Training Loss: 0.159589
batch: 103 Training Loss: 0.161155
batch: 104 Training Loss: 0.160871
batch: 105 Training Loss: 0.161477
batch: 106 Training Loss: 0.160498
batch: 107 Training Loss: 0.161380
batch: 108 Training Loss: 0.162134
batch: 109 Training Loss: 0.162408
batch: 110 Training Loss: 0.161692
batch: 111 Training Loss: 0.161567
batch: 112 Training Loss: 0.162603
batch: 113 Training Loss: 0.162458
batch: 114 Training Loss: 0.162230
batch: 115 Training Loss: 0.162368
batch: 116 Training Loss: 0.161320
batch: 117 Training Loss: 0.161125
batch: 118 Training Loss: 0.163322
batch: 119 Training Loss: 0.163418
batch: 120 Training Loss: 0.162510

batch: 120 Training Loss: 0.163518
batch: 121 Training Loss: 0.162786
batch: 122 Training Loss: 0.162697
batch: 123 Training Loss: 0.163175
batch: 124 Training Loss: 0.162685
batch: 125 Training Loss: 0.162592
batch: 126 Training Loss: 0.162214
batch: 127 Training Loss: 0.162484
batch: 128 Training Loss: 0.161486
batch: 129 Training Loss: 0.161162
batch: 130 Training Loss: 0.160757
batch: 131 Training Loss: 0.161160
batch: 132 Training Loss: 0.160313
batch: 133 Training Loss: 0.159923
batch: 134 Training Loss: 0.160016
batch: 135 Training Loss: 0.159968
batch: 136 Training Loss: 0.159549
batch: 137 Training Loss: 0.159303
batch: 138 Training Loss: 0.161524
batch: 139 Training Loss: 0.164664
batch: 140 Training Loss: 0.164006
batch: 141 Training Loss: 0.163500
batch: 142 Training Loss: 0.162899
batch: 143 Training Loss: 0.162276
batch: 144 Training Loss: 0.161866
batch: 145 Training Loss: 0.163111
batch: 146 Training Loss: 0.163126
batch: 147 Training Loss: 0.162284
batch: 148 Training Loss: 0.161908
batch: 149 Training Loss: 0.162591
batch: 150 Training Loss: 0.164078
batch: 151 Training Loss: 0.163496
batch: 152 Training Loss: 0.162527
batch: 153 Training Loss: 0.162075
batch: 154 Training Loss: 0.162089
batch: 155 Training Loss: 0.161618
batch: 156 Training Loss: 0.161359
batch: 157 Training Loss: 0.161912
batch: 158 Training Loss: 0.161538
batch: 159 Training Loss: 0.161432
batch: 160 Training Loss: 0.160788
batch: 161 Training Loss: 0.161266
batch: 162 Training Loss: 0.161491
batch: 163 Training Loss: 0.162836
batch: 164 Training Loss: 0.163557
batch: 165 Training Loss: 0.163531
batch: 166 Training Loss: 0.163087
batch: 167 Training Loss: 0.162572
batch: 168 Training Loss: 0.162835
batch: 169 Training Loss: 0.162830
batch: 170 Training Loss: 0.165500
batch: 171 Training Loss: 0.165385
batch: 172 Training Loss: 0.165711
batch: 173 Training Loss: 0.165762
batch: 174 Training Loss: 0.165957
batch: 175 Training Loss: 0.165461
batch: 176 Training Loss: 0.164988
batch: 177 Training Loss: 0.164590
batch: 178 Training Loss: 0.165107
batch: 179 Training Loss: 0.166135
batch: 180 Training Loss: 0.166179
batch: 181 Training Loss: 0.166279
batch: 182 Training Loss: 0.166010
batch: 183 Training Loss: 0.165571
batch: 184 Training Loss: 0.165338
batch: 185 Training Loss: 0.165749
batch: 186 Training Loss: 0.166069
batch: 187 Training Loss: 0.165459
batch: 188 Training Loss: 0.166610
batch: 189 Training Loss: 0.166833
batch: 190 Training Loss: 0.166829
batch: 191 Training Loss: 0.166889
batch: 192 Training Loss: 0.166782
batch: 193 Training Loss: 0.167066
batch: 194 Training Loss: 0.166491
batch: 195 Training Loss: 0.166699
batch: 196 Training Loss: 0.166861
batch: 197 Training Loss: 0.167150
batch: 198 Training Loss: 0.167367
batch: 199 Training Loss: 0.166874
batch: 200 Training Loss: 0.166966
batch: 201 Training Loss: 0.166948
batch: 202 Training Loss: 0.166566
batch: 203 Training Loss: 0.166346
batch: 204 Training Loss: 0.167463
batch: 205 Training Loss: 0.167631
batch: 206 Training Loss: 0.167290
batch: 207 Training Loss: 0.167593
batch: 208 Training Loss: 0.167264
Epoch: 65 Training Loss: 0.167264 Validation Loss: 1.625480
batch: 0 Training Loss: 0.267167
batch: 1 Training Loss: 0.184402

batch: 1 Training Loss: 0.184403
batch: 2 Training Loss: 0.193515
batch: 3 Training Loss: 0.230148
batch: 4 Training Loss: 0.193888
batch: 5 Training Loss: 0.171154
batch: 6 Training Loss: 0.188601
batch: 7 Training Loss: 0.177184
batch: 8 Training Loss: 0.163465
batch: 9 Training Loss: 0.194544
batch: 10 Training Loss: 0.179923
batch: 11 Training Loss: 0.175632
batch: 12 Training Loss: 0.170119
batch: 13 Training Loss: 0.179015
batch: 14 Training Loss: 0.181732
batch: 15 Training Loss: 0.176536
batch: 16 Training Loss: 0.185547
batch: 17 Training Loss: 0.177239
batch: 18 Training Loss: 0.170124
batch: 19 Training Loss: 0.175459
batch: 20 Training Loss: 0.175788
batch: 21 Training Loss: 0.170920
batch: 22 Training Loss: 0.167433
batch: 23 Training Loss: 0.163831
batch: 24 Training Loss: 0.167165
batch: 25 Training Loss: 0.163079
batch: 26 Training Loss: 0.160769
batch: 27 Training Loss: 0.162829
batch: 28 Training Loss: 0.158160
batch: 29 Training Loss: 0.160108
batch: 30 Training Loss: 0.158316
batch: 31 Training Loss: 0.159074
batch: 32 Training Loss: 0.157971
batch: 33 Training Loss: 0.160144
batch: 34 Training Loss: 0.156575
batch: 35 Training Loss: 0.156641
batch: 36 Training Loss: 0.155824
batch: 37 Training Loss: 0.154255
batch: 38 Training Loss: 0.154839
batch: 39 Training Loss: 0.155636
batch: 40 Training Loss: 0.152931
batch: 41 Training Loss: 0.151387
batch: 42 Training Loss: 0.148466
batch: 43 Training Loss: 0.146667
batch: 44 Training Loss: 0.145139
batch: 45 Training Loss: 0.149224
batch: 46 Training Loss: 0.147001
batch: 47 Training Loss: 0.150678
batch: 48 Training Loss: 0.151501
batch: 49 Training Loss: 0.157397
batch: 50 Training Loss: 0.158164
batch: 51 Training Loss: 0.156750
batch: 52 Training Loss: 0.159586
batch: 53 Training Loss: 0.162647
batch: 54 Training Loss: 0.161420
batch: 55 Training Loss: 0.161997
batch: 56 Training Loss: 0.163149
batch: 57 Training Loss: 0.162235
batch: 58 Training Loss: 0.161256
batch: 59 Training Loss: 0.160417
batch: 60 Training Loss: 0.160160
batch: 61 Training Loss: 0.160779
batch: 62 Training Loss: 0.160301
batch: 63 Training Loss: 0.161926
batch: 64 Training Loss: 0.163165
batch: 65 Training Loss: 0.161696
batch: 66 Training Loss: 0.160538
batch: 67 Training Loss: 0.158422
batch: 68 Training Loss: 0.157786
batch: 69 Training Loss: 0.157463
batch: 70 Training Loss: 0.155686
batch: 71 Training Loss: 0.156762
batch: 72 Training Loss: 0.156884
batch: 73 Training Loss: 0.160010
batch: 74 Training Loss: 0.162201
batch: 75 Training Loss: 0.162328
batch: 76 Training Loss: 0.162460
batch: 77 Training Loss: 0.177949
batch: 78 Training Loss: 0.176894
batch: 79 Training Loss: 0.176662
batch: 80 Training Loss: 0.177031
batch: 81 Training Loss: 0.175769
batch: 82 Training Loss: 0.175016
batch: 83 Training Loss: 0.173288
batch: 84 Training Loss: 0.171713
batch: 85 Training Loss: 0.170245
batch: 86 Training Loss: 0.168944
batch: 87 Training Loss: 0.169560
batch: 88 Training Loss: 0.170402
batch: 89 Training Loss: 0.169736
batch: 90 Training Loss: 0.168611
batch: 91 Training Loss: 0.173472
batch: 92 Training Loss: 0.173169

batch: 92 Training Loss: 0.170111
batch: 93 Training Loss: 0.173792
batch: 94 Training Loss: 0.172459
batch: 95 Training Loss: 0.170709
batch: 96 Training Loss: 0.170141
batch: 97 Training Loss: 0.169186
batch: 98 Training Loss: 0.168457
batch: 99 Training Loss: 0.168297
batch: 100 Training Loss: 0.170115
batch: 101 Training Loss: 0.171316
batch: 102 Training Loss: 0.172099
batch: 103 Training Loss: 0.170726
batch: 104 Training Loss: 0.171446
batch: 105 Training Loss: 0.170794
batch: 106 Training Loss: 0.170999
batch: 107 Training Loss: 0.170704
batch: 108 Training Loss: 0.169330
batch: 109 Training Loss: 0.171450
batch: 110 Training Loss: 0.170305
batch: 111 Training Loss: 0.169565
batch: 112 Training Loss: 0.168906
batch: 113 Training Loss: 0.168498
batch: 114 Training Loss: 0.168313
batch: 115 Training Loss: 0.168409
batch: 116 Training Loss: 0.167912
batch: 117 Training Loss: 0.168020
batch: 118 Training Loss: 0.167483
batch: 119 Training Loss: 0.169739
batch: 120 Training Loss: 0.168647
batch: 121 Training Loss: 0.167897
batch: 122 Training Loss: 0.168104
batch: 123 Training Loss: 0.168111
batch: 124 Training Loss: 0.168676
batch: 125 Training Loss: 0.167830
batch: 126 Training Loss: 0.166693
batch: 127 Training Loss: 0.166724
batch: 128 Training Loss: 0.166092
batch: 129 Training Loss: 0.166117
batch: 130 Training Loss: 0.165500
batch: 131 Training Loss: 0.164709
batch: 132 Training Loss: 0.164641
batch: 133 Training Loss: 0.164415
batch: 134 Training Loss: 0.164412
batch: 135 Training Loss: 0.163543
batch: 136 Training Loss: 0.163708
batch: 137 Training Loss: 0.162934
batch: 138 Training Loss: 0.164032
batch: 139 Training Loss: 0.163582
batch: 140 Training Loss: 0.162894
batch: 141 Training Loss: 0.162379
batch: 142 Training Loss: 0.161533
batch: 143 Training Loss: 0.160952
batch: 144 Training Loss: 0.160417
batch: 145 Training Loss: 0.161124
batch: 146 Training Loss: 0.160315
batch: 147 Training Loss: 0.159613
batch: 148 Training Loss: 0.158719
batch: 149 Training Loss: 0.157975
batch: 150 Training Loss: 0.157679
batch: 151 Training Loss: 0.157157
batch: 152 Training Loss: 0.157246
batch: 153 Training Loss: 0.156558
batch: 154 Training Loss: 0.156712
batch: 155 Training Loss: 0.156118
batch: 156 Training Loss: 0.155394
batch: 157 Training Loss: 0.154740
batch: 158 Training Loss: 0.154102
batch: 159 Training Loss: 0.154070
batch: 160 Training Loss: 0.154151
batch: 161 Training Loss: 0.154983
batch: 162 Training Loss: 0.154891
batch: 163 Training Loss: 0.154773
batch: 164 Training Loss: 0.154330
batch: 165 Training Loss: 0.156018
batch: 166 Training Loss: 0.155829
batch: 167 Training Loss: 0.155391
batch: 168 Training Loss: 0.154928
batch: 169 Training Loss: 0.154670
batch: 170 Training Loss: 0.153882
batch: 171 Training Loss: 0.153264
batch: 172 Training Loss: 0.153143
batch: 173 Training Loss: 0.153024
batch: 174 Training Loss: 0.153165
batch: 175 Training Loss: 0.152420
batch: 176 Training Loss: 0.151956
batch: 177 Training Loss: 0.151716
batch: 178 Training Loss: 0.151636
batch: 179 Training Loss: 0.151531
batch: 180 Training Loss: 0.152009
batch: 181 Training Loss: 0.151399
batch: 182 Training Loss: 0.151470
batch: 183 Training Loss: 0.152122

batch: 183 Training Loss: 0.152159
batch: 184 Training Loss: 0.151848
batch: 185 Training Loss: 0.151421
batch: 186 Training Loss: 0.151360
batch: 187 Training Loss: 0.150743
batch: 188 Training Loss: 0.150312
batch: 189 Training Loss: 0.150443
batch: 190 Training Loss: 0.150438
batch: 191 Training Loss: 0.150539
batch: 192 Training Loss: 0.150294
batch: 193 Training Loss: 0.150112
batch: 194 Training Loss: 0.149921
batch: 195 Training Loss: 0.149491
batch: 196 Training Loss: 0.149251
batch: 197 Training Loss: 0.149128
batch: 198 Training Loss: 0.148497
batch: 199 Training Loss: 0.148553
batch: 200 Training Loss: 0.148358
batch: 201 Training Loss: 0.149408
batch: 202 Training Loss: 0.148766
batch: 203 Training Loss: 0.148889
batch: 204 Training Loss: 0.148272
batch: 205 Training Loss: 0.147923
batch: 206 Training Loss: 0.147504
batch: 207 Training Loss: 0.149407
batch: 208 Training Loss: 0.148983
Epoch: 66 Training Loss: 0.148983 Validation Loss: 1.304695
batch: 0 Training Loss: 0.188801
batch: 1 Training Loss: 0.174144
batch: 2 Training Loss: 0.142495
batch: 3 Training Loss: 0.160833
batch: 4 Training Loss: 0.146911
batch: 5 Training Loss: 0.175362
batch: 6 Training Loss: 0.155800
batch: 7 Training Loss: 0.147089
batch: 8 Training Loss: 0.140533
batch: 9 Training Loss: 0.132191
batch: 10 Training Loss: 0.133467
batch: 11 Training Loss: 0.132992
batch: 12 Training Loss: 0.130670
batch: 13 Training Loss: 0.122628
batch: 14 Training Loss: 0.126953
batch: 15 Training Loss: 0.130201
batch: 16 Training Loss: 0.126330
batch: 17 Training Loss: 0.121079
batch: 18 Training Loss: 0.127881
batch: 19 Training Loss: 0.123776
batch: 20 Training Loss: 0.122874
batch: 21 Training Loss: 0.119221
batch: 22 Training Loss: 0.121613
batch: 23 Training Loss: 0.121407
batch: 24 Training Loss: 0.118248
batch: 25 Training Loss: 0.118337
batch: 26 Training Loss: 0.119657
batch: 27 Training Loss: 0.124126
batch: 28 Training Loss: 0.123854
batch: 29 Training Loss: 0.126447
batch: 30 Training Loss: 0.123792
batch: 31 Training Loss: 0.123411
batch: 32 Training Loss: 0.123522
batch: 33 Training Loss: 0.122217
batch: 34 Training Loss: 0.124012
batch: 35 Training Loss: 0.125468
batch: 36 Training Loss: 0.124173
batch: 37 Training Loss: 0.123407
batch: 38 Training Loss: 0.127863
batch: 39 Training Loss: 0.126348
batch: 40 Training Loss: 0.126236
batch: 41 Training Loss: 0.128844
batch: 42 Training Loss: 0.127072
batch: 43 Training Loss: 0.125635
batch: 44 Training Loss: 0.123958
batch: 45 Training Loss: 0.122386
batch: 46 Training Loss: 0.124636
batch: 47 Training Loss: 0.122920
batch: 48 Training Loss: 0.123524
batch: 49 Training Loss: 0.122674
batch: 50 Training Loss: 0.123994
batch: 51 Training Loss: 0.124109
batch: 52 Training Loss: 0.123737
batch: 53 Training Loss: 0.122419
batch: 54 Training Loss: 0.121707
batch: 55 Training Loss: 0.121549
batch: 56 Training Loss: 0.121343
batch: 57 Training Loss: 0.124157
batch: 58 Training Loss: 0.128987
batch: 59 Training Loss: 0.128462
batch: 60 Training Loss: 0.129418
batch: 61 Training Loss: 0.127766
batch: 62 Training Loss: 0.127703
batch: 63 Training Loss: 0.127646
batch: 64 Training Loss: 0.129359

batch: 0 Training Loss: 0.129999
batch: 65 Training Loss: 0.131621
batch: 66 Training Loss: 0.131264
batch: 67 Training Loss: 0.132037
batch: 68 Training Loss: 0.131948
batch: 69 Training Loss: 0.131934
batch: 70 Training Loss: 0.131561
batch: 71 Training Loss: 0.132669
batch: 72 Training Loss: 0.132526
batch: 73 Training Loss: 0.131826
batch: 74 Training Loss: 0.134009
batch: 75 Training Loss: 0.132769
batch: 76 Training Loss: 0.131513
batch: 77 Training Loss: 0.131702
batch: 78 Training Loss: 0.131088
batch: 79 Training Loss: 0.137351
batch: 80 Training Loss: 0.136206
batch: 81 Training Loss: 0.136456
batch: 82 Training Loss: 0.135554
batch: 83 Training Loss: 0.134380
batch: 84 Training Loss: 0.135363
batch: 85 Training Loss: 0.134664
batch: 86 Training Loss: 0.134420
batch: 87 Training Loss: 0.135099
batch: 88 Training Loss: 0.134097
batch: 89 Training Loss: 0.134952
batch: 90 Training Loss: 0.135349
batch: 91 Training Loss: 0.138509
batch: 92 Training Loss: 0.138603
batch: 93 Training Loss: 0.139238
batch: 94 Training Loss: 0.142129
batch: 95 Training Loss: 0.142039
batch: 96 Training Loss: 0.141267
batch: 97 Training Loss: 0.142508
batch: 98 Training Loss: 0.142077
batch: 99 Training Loss: 0.141185
batch: 100 Training Loss: 0.140275
batch: 101 Training Loss: 0.140450
batch: 102 Training Loss: 0.139468
batch: 103 Training Loss: 0.139343
batch: 104 Training Loss: 0.138929
batch: 105 Training Loss: 0.137849
batch: 106 Training Loss: 0.139159
batch: 107 Training Loss: 0.139441
batch: 108 Training Loss: 0.140104
batch: 109 Training Loss: 0.140956
batch: 110 Training Loss: 0.140859
batch: 111 Training Loss: 0.141127
batch: 112 Training Loss: 0.142586
batch: 113 Training Loss: 0.142868
batch: 114 Training Loss: 0.143928
batch: 115 Training Loss: 0.142996
batch: 116 Training Loss: 0.143057
batch: 117 Training Loss: 0.145388
batch: 118 Training Loss: 0.145750
batch: 119 Training Loss: 0.145682
batch: 120 Training Loss: 0.144869
batch: 121 Training Loss: 0.144790
batch: 122 Training Loss: 0.144580
batch: 123 Training Loss: 0.143595
batch: 124 Training Loss: 0.142618
batch: 125 Training Loss: 0.142591
batch: 126 Training Loss: 0.142604
batch: 127 Training Loss: 0.141678
batch: 128 Training Loss: 0.140944
batch: 129 Training Loss: 0.141282
batch: 130 Training Loss: 0.140678
batch: 131 Training Loss: 0.140604
batch: 132 Training Loss: 0.140555
batch: 133 Training Loss: 0.139862
batch: 134 Training Loss: 0.140074
batch: 135 Training Loss: 0.139516
batch: 136 Training Loss: 0.138718
batch: 137 Training Loss: 0.138218
batch: 138 Training Loss: 0.137736
batch: 139 Training Loss: 0.137549
batch: 140 Training Loss: 0.138255
batch: 141 Training Loss: 0.138037
batch: 142 Training Loss: 0.138607
batch: 143 Training Loss: 0.137945
batch: 144 Training Loss: 0.138405
batch: 145 Training Loss: 0.139874
batch: 146 Training Loss: 0.139650
batch: 147 Training Loss: 0.139419
batch: 148 Training Loss: 0.139261
batch: 149 Training Loss: 0.138772
batch: 150 Training Loss: 0.139114
batch: 151 Training Loss: 0.138744
batch: 152 Training Loss: 0.139973
batch: 153 Training Loss: 0.141638
batch: 154 Training Loss: 0.141125
batch: 155 Training Loss: 0.140960

batch: 100 Training Loss: 0.140700
batch: 156 Training Loss: 0.140781
batch: 157 Training Loss: 0.140253
batch: 158 Training Loss: 0.142121
batch: 159 Training Loss: 0.142259
batch: 160 Training Loss: 0.142509
batch: 161 Training Loss: 0.142405
batch: 162 Training Loss: 0.143471
batch: 163 Training Loss: 0.143474
batch: 164 Training Loss: 0.144384
batch: 165 Training Loss: 0.144110
batch: 166 Training Loss: 0.143840
batch: 167 Training Loss: 0.144717
batch: 168 Training Loss: 0.144316
batch: 169 Training Loss: 0.143936
batch: 170 Training Loss: 0.143510
batch: 171 Training Loss: 0.142825
batch: 172 Training Loss: 0.142240
batch: 173 Training Loss: 0.141971
batch: 174 Training Loss: 0.141695
batch: 175 Training Loss: 0.141687
batch: 176 Training Loss: 0.141456
batch: 177 Training Loss: 0.141012
batch: 178 Training Loss: 0.140989
batch: 179 Training Loss: 0.140718
batch: 180 Training Loss: 0.140008
batch: 181 Training Loss: 0.139747
batch: 182 Training Loss: 0.139708
batch: 183 Training Loss: 0.139333
batch: 184 Training Loss: 0.139566
batch: 185 Training Loss: 0.139635
batch: 186 Training Loss: 0.140127
batch: 187 Training Loss: 0.139525
batch: 188 Training Loss: 0.139950
batch: 189 Training Loss: 0.140113
batch: 190 Training Loss: 0.139760
batch: 191 Training Loss: 0.139113
batch: 192 Training Loss: 0.139285
batch: 193 Training Loss: 0.139372
batch: 194 Training Loss: 0.139567
batch: 195 Training Loss: 0.139927
batch: 196 Training Loss: 0.140084
batch: 197 Training Loss: 0.140172
batch: 198 Training Loss: 0.140606
batch: 199 Training Loss: 0.141759
batch: 200 Training Loss: 0.142260
batch: 201 Training Loss: 0.142253
batch: 202 Training Loss: 0.142998
batch: 203 Training Loss: 0.142939
batch: 204 Training Loss: 0.143216
batch: 205 Training Loss: 0.143388
batch: 206 Training Loss: 0.142832
batch: 207 Training Loss: 0.145127
batch: 208 Training Loss: 0.144625
Epoch: 67 Training Loss: 0.144625 Validation Loss: 1.532619
batch: 0 Training Loss: 0.138750
batch: 1 Training Loss: 0.235219
batch: 2 Training Loss: 0.173210
batch: 3 Training Loss: 0.169432
batch: 4 Training Loss: 0.162054
batch: 5 Training Loss: 0.172923
batch: 6 Training Loss: 0.177234
batch: 7 Training Loss: 0.184782
batch: 8 Training Loss: 0.178063
batch: 9 Training Loss: 0.170333
batch: 10 Training Loss: 0.157610
batch: 11 Training Loss: 0.154145
batch: 12 Training Loss: 0.162710
batch: 13 Training Loss: 0.155288
batch: 14 Training Loss: 0.151526
batch: 15 Training Loss: 0.146526
batch: 16 Training Loss: 0.144074
batch: 17 Training Loss: 0.141208
batch: 18 Training Loss: 0.140411
batch: 19 Training Loss: 0.146340
batch: 20 Training Loss: 0.148587
batch: 21 Training Loss: 0.144625
batch: 22 Training Loss: 0.150629
batch: 23 Training Loss: 0.150305
batch: 24 Training Loss: 0.146011
batch: 25 Training Loss: 0.144015
batch: 26 Training Loss: 0.149148
batch: 27 Training Loss: 0.147199
batch: 28 Training Loss: 0.144633
batch: 29 Training Loss: 0.144842
batch: 30 Training Loss: 0.143814
batch: 31 Training Loss: 0.140826
batch: 32 Training Loss: 0.138570
batch: 33 Training Loss: 0.156686
batch: 34 Training Loss: 0.157373
batch: 35 Training Loss: 0.157462
batch: 36 Training Loss: 0.157108

```
-- -- -- -- --  
batch: 37 Training Loss: 0.155200  
batch: 38 Training Loss: 0.155683  
batch: 39 Training Loss: 0.154922  
batch: 40 Training Loss: 0.151682  
batch: 41 Training Loss: 0.150222  
batch: 42 Training Loss: 0.147372  
batch: 43 Training Loss: 0.145268  
batch: 44 Training Loss: 0.142566  
batch: 45 Training Loss: 0.141507  
batch: 46 Training Loss: 0.140726  
batch: 47 Training Loss: 0.138969  
batch: 48 Training Loss: 0.139486  
batch: 49 Training Loss: 0.137927  
batch: 50 Training Loss: 0.136230  
batch: 51 Training Loss: 0.138508  
batch: 52 Training Loss: 0.140969  
batch: 53 Training Loss: 0.141926  
batch: 54 Training Loss: 0.140401  
batch: 55 Training Loss: 0.138447  
batch: 56 Training Loss: 0.138358  
batch: 57 Training Loss: 0.137143  
batch: 58 Training Loss: 0.136803  
batch: 59 Training Loss: 0.135755  
batch: 60 Training Loss: 0.134710  
batch: 61 Training Loss: 0.136055  
batch: 62 Training Loss: 0.137454  
batch: 63 Training Loss: 0.137648  
batch: 64 Training Loss: 0.138648  
batch: 65 Training Loss: 0.141159  
batch: 66 Training Loss: 0.139188  
batch: 67 Training Loss: 0.139436  
batch: 68 Training Loss: 0.138315  
batch: 69 Training Loss: 0.137828  
batch: 70 Training Loss: 0.136367  
batch: 71 Training Loss: 0.135996  
batch: 72 Training Loss: 0.134476  
batch: 73 Training Loss: 0.134808  
batch: 74 Training Loss: 0.133214  
batch: 75 Training Loss: 0.133796  
batch: 76 Training Loss: 0.133397  
batch: 77 Training Loss: 0.133348  
batch: 78 Training Loss: 0.132568  
batch: 79 Training Loss: 0.132898  
batch: 80 Training Loss: 0.135045  
batch: 81 Training Loss: 0.137293  
batch: 82 Training Loss: 0.136930  
batch: 83 Training Loss: 0.137293  
batch: 84 Training Loss: 0.138055  
batch: 85 Training Loss: 0.140197  
batch: 86 Training Loss: 0.141012  
batch: 87 Training Loss: 0.140367  
batch: 88 Training Loss: 0.140158  
batch: 89 Training Loss: 0.140781  
batch: 90 Training Loss: 0.141261  
batch: 91 Training Loss: 0.144932  
batch: 92 Training Loss: 0.144414  
batch: 93 Training Loss: 0.144044  
batch: 94 Training Loss: 0.143936  
batch: 95 Training Loss: 0.143458  
batch: 96 Training Loss: 0.142692  
batch: 97 Training Loss: 0.141782  
batch: 98 Training Loss: 0.142399  
batch: 99 Training Loss: 0.141130  
batch: 100 Training Loss: 0.145979  
batch: 101 Training Loss: 0.145487  
batch: 102 Training Loss: 0.148936  
batch: 103 Training Loss: 0.149119  
batch: 104 Training Loss: 0.148042  
batch: 105 Training Loss: 0.147509  
batch: 106 Training Loss: 0.146951  
batch: 107 Training Loss: 0.146561  
batch: 108 Training Loss: 0.145446  
batch: 109 Training Loss: 0.144566  
batch: 110 Training Loss: 0.143373  
batch: 111 Training Loss: 0.143990  
batch: 112 Training Loss: 0.143113  
batch: 113 Training Loss: 0.142049  
batch: 114 Training Loss: 0.141461  
batch: 115 Training Loss: 0.140750  
batch: 116 Training Loss: 0.140104  
batch: 117 Training Loss: 0.141421  
batch: 118 Training Loss: 0.143231  
batch: 119 Training Loss: 0.142219  
batch: 120 Training Loss: 0.141822  
batch: 121 Training Loss: 0.141907  
batch: 122 Training Loss: 0.140855  
batch: 123 Training Loss: 0.141788  
batch: 124 Training Loss: 0.141207  
batch: 125 Training Loss: 0.143452  
batch: 126 Training Loss: 0.143907  
batch: 127 Training Loss: 0.143906
```

batch: 128 Training Loss: 0.143231
batch: 129 Training Loss: 0.143760
batch: 130 Training Loss: 0.143187
batch: 131 Training Loss: 0.142541
batch: 132 Training Loss: 0.142735
batch: 133 Training Loss: 0.144319
batch: 134 Training Loss: 0.144006
batch: 135 Training Loss: 0.143345
batch: 136 Training Loss: 0.143304
batch: 137 Training Loss: 0.143206
batch: 138 Training Loss: 0.143215
batch: 139 Training Loss: 0.142274
batch: 140 Training Loss: 0.141924
batch: 141 Training Loss: 0.141418
batch: 142 Training Loss: 0.142318
batch: 143 Training Loss: 0.141768
batch: 144 Training Loss: 0.141294
batch: 145 Training Loss: 0.141420
batch: 146 Training Loss: 0.140964
batch: 147 Training Loss: 0.140251
batch: 148 Training Loss: 0.139888
batch: 149 Training Loss: 0.139598
batch: 150 Training Loss: 0.139187
batch: 151 Training Loss: 0.139122
batch: 152 Training Loss: 0.138354
batch: 153 Training Loss: 0.138026
batch: 154 Training Loss: 0.137303
batch: 155 Training Loss: 0.136541
batch: 156 Training Loss: 0.136538
batch: 157 Training Loss: 0.136683
batch: 158 Training Loss: 0.136308
batch: 159 Training Loss: 0.136173
batch: 160 Training Loss: 0.135418
batch: 161 Training Loss: 0.134794
batch: 162 Training Loss: 0.134168
batch: 163 Training Loss: 0.133681
batch: 164 Training Loss: 0.134838
batch: 165 Training Loss: 0.135150
batch: 166 Training Loss: 0.135379
batch: 167 Training Loss: 0.134709
batch: 168 Training Loss: 0.134367
batch: 169 Training Loss: 0.133912
batch: 170 Training Loss: 0.135436
batch: 171 Training Loss: 0.135022
batch: 172 Training Loss: 0.134537
batch: 173 Training Loss: 0.134172
batch: 174 Training Loss: 0.134301
batch: 175 Training Loss: 0.133975
batch: 176 Training Loss: 0.135125
batch: 177 Training Loss: 0.135196
batch: 178 Training Loss: 0.136729
batch: 179 Training Loss: 0.136491
batch: 180 Training Loss: 0.135910
batch: 181 Training Loss: 0.135329
batch: 182 Training Loss: 0.134995
batch: 183 Training Loss: 0.135510
batch: 184 Training Loss: 0.135106
batch: 185 Training Loss: 0.135573
batch: 186 Training Loss: 0.136327
batch: 187 Training Loss: 0.135798
batch: 188 Training Loss: 0.136061
batch: 189 Training Loss: 0.136137
batch: 190 Training Loss: 0.135654
batch: 191 Training Loss: 0.135986
batch: 192 Training Loss: 0.136431
batch: 193 Training Loss: 0.136578
batch: 194 Training Loss: 0.136412
batch: 195 Training Loss: 0.136108
batch: 196 Training Loss: 0.136502
batch: 197 Training Loss: 0.136626
batch: 198 Training Loss: 0.136117
batch: 199 Training Loss: 0.137340
batch: 200 Training Loss: 0.137117
batch: 201 Training Loss: 0.137407
batch: 202 Training Loss: 0.137147
batch: 203 Training Loss: 0.136732
batch: 204 Training Loss: 0.136239
batch: 205 Training Loss: 0.135779
batch: 206 Training Loss: 0.135210
batch: 207 Training Loss: 0.135344
batch: 208 Training Loss: 0.135561
Epoch: 68 Training Loss: 0.135561 Validation Loss: 1.267294
batch: 0 Training Loss: 0.128946
batch: 1 Training Loss: 0.129970
batch: 2 Training Loss: 0.106303
batch: 3 Training Loss: 0.084664
batch: 4 Training Loss: 0.074474
batch: 5 Training Loss: 0.069323
batch: 6 Training Loss: 0.075728
batch: 7 Training Loss: 0.076273
batch: 8 Training Loss: 0.077349

batch: 9 Training Loss: 0.108180
batch: 10 Training Loss: 0.104255
batch: 11 Training Loss: 0.114735
batch: 12 Training Loss: 0.122086
batch: 13 Training Loss: 0.135880
batch: 14 Training Loss: 0.129849
batch: 15 Training Loss: 0.123227
batch: 16 Training Loss: 0.129407
batch: 17 Training Loss: 0.132353
batch: 18 Training Loss: 0.129031
batch: 19 Training Loss: 0.123930
batch: 20 Training Loss: 0.118870
batch: 21 Training Loss: 0.118998
batch: 22 Training Loss: 0.119868
batch: 23 Training Loss: 0.119581
batch: 24 Training Loss: 0.115295
batch: 25 Training Loss: 0.114398
batch: 26 Training Loss: 0.117126
batch: 27 Training Loss: 0.113691
batch: 28 Training Loss: 0.112527
batch: 29 Training Loss: 0.115286
batch: 30 Training Loss: 0.116356
batch: 31 Training Loss: 0.115784
batch: 32 Training Loss: 0.114596
batch: 33 Training Loss: 0.114430
batch: 34 Training Loss: 0.112565
batch: 35 Training Loss: 0.112872
batch: 36 Training Loss: 0.112757
batch: 37 Training Loss: 0.113116
batch: 38 Training Loss: 0.112801
batch: 39 Training Loss: 0.110303
batch: 40 Training Loss: 0.108498
batch: 41 Training Loss: 0.110237
batch: 42 Training Loss: 0.110990
batch: 43 Training Loss: 0.113059
batch: 44 Training Loss: 0.114570
batch: 45 Training Loss: 0.112855
batch: 46 Training Loss: 0.113655
batch: 47 Training Loss: 0.114936
batch: 48 Training Loss: 0.114520
batch: 49 Training Loss: 0.114058
batch: 50 Training Loss: 0.118258
batch: 51 Training Loss: 0.120792
batch: 52 Training Loss: 0.120515
batch: 53 Training Loss: 0.119774
batch: 54 Training Loss: 0.118825
batch: 55 Training Loss: 0.117740
batch: 56 Training Loss: 0.117754
batch: 57 Training Loss: 0.121282
batch: 58 Training Loss: 0.122760
batch: 59 Training Loss: 0.121129
batch: 60 Training Loss: 0.122249
batch: 61 Training Loss: 0.122952
batch: 62 Training Loss: 0.121457
batch: 63 Training Loss: 0.123822
batch: 64 Training Loss: 0.124329
batch: 65 Training Loss: 0.126681
batch: 66 Training Loss: 0.128217
batch: 67 Training Loss: 0.129379
batch: 68 Training Loss: 0.132444
batch: 69 Training Loss: 0.130904
batch: 70 Training Loss: 0.129945
batch: 71 Training Loss: 0.134420
batch: 72 Training Loss: 0.132987
batch: 73 Training Loss: 0.132626
batch: 74 Training Loss: 0.131871
batch: 75 Training Loss: 0.133015
batch: 76 Training Loss: 0.134150
batch: 77 Training Loss: 0.133913
batch: 78 Training Loss: 0.134580
batch: 79 Training Loss: 0.134523
batch: 80 Training Loss: 0.134144
batch: 81 Training Loss: 0.135846
batch: 82 Training Loss: 0.137787
batch: 83 Training Loss: 0.138568
batch: 84 Training Loss: 0.137354
batch: 85 Training Loss: 0.138736
batch: 86 Training Loss: 0.138612
batch: 87 Training Loss: 0.139265
batch: 88 Training Loss: 0.138908
batch: 89 Training Loss: 0.138807
batch: 90 Training Loss: 0.138288
batch: 91 Training Loss: 0.137485
batch: 92 Training Loss: 0.137575
batch: 93 Training Loss: 0.137730
batch: 94 Training Loss: 0.137862
batch: 95 Training Loss: 0.138653
batch: 96 Training Loss: 0.142392
batch: 97 Training Loss: 0.142177
batch: 98 Training Loss: 0.145135
batch: 99 Training Loss: 0.146997

batch: 100 Training Loss: 0.145735
batch: 101 Training Loss: 0.145193
batch: 102 Training Loss: 0.144747
batch: 103 Training Loss: 0.145508
batch: 104 Training Loss: 0.144541
batch: 105 Training Loss: 0.145972
batch: 106 Training Loss: 0.145786
batch: 107 Training Loss: 0.146712
batch: 108 Training Loss: 0.145758
batch: 109 Training Loss: 0.146760
batch: 110 Training Loss: 0.148915
batch: 111 Training Loss: 0.148494
batch: 112 Training Loss: 0.147471
batch: 113 Training Loss: 0.146493
batch: 114 Training Loss: 0.147241
batch: 115 Training Loss: 0.148070
batch: 116 Training Loss: 0.147620
batch: 117 Training Loss: 0.147352
batch: 118 Training Loss: 0.147993
batch: 119 Training Loss: 0.149834
batch: 120 Training Loss: 0.149386
batch: 121 Training Loss: 0.148700
batch: 122 Training Loss: 0.150349
batch: 123 Training Loss: 0.149742
batch: 124 Training Loss: 0.149838
batch: 125 Training Loss: 0.148791
batch: 126 Training Loss: 0.149711
batch: 127 Training Loss: 0.149672
batch: 128 Training Loss: 0.149622
batch: 129 Training Loss: 0.149098
batch: 130 Training Loss: 0.149242
batch: 131 Training Loss: 0.148173
batch: 132 Training Loss: 0.148495
batch: 133 Training Loss: 0.147667
batch: 134 Training Loss: 0.147916
batch: 135 Training Loss: 0.147686
batch: 136 Training Loss: 0.147630
batch: 137 Training Loss: 0.146898
batch: 138 Training Loss: 0.147064
batch: 139 Training Loss: 0.147162
batch: 140 Training Loss: 0.148506
batch: 141 Training Loss: 0.148051
batch: 142 Training Loss: 0.147548
batch: 143 Training Loss: 0.147904
batch: 144 Training Loss: 0.147976
batch: 145 Training Loss: 0.147456
batch: 146 Training Loss: 0.148174
batch: 147 Training Loss: 0.147583
batch: 148 Training Loss: 0.146913
batch: 149 Training Loss: 0.146529
batch: 150 Training Loss: 0.146275
batch: 151 Training Loss: 0.147883
batch: 152 Training Loss: 0.148724
batch: 153 Training Loss: 0.148240
batch: 154 Training Loss: 0.148017
batch: 155 Training Loss: 0.147838
batch: 156 Training Loss: 0.148212
batch: 157 Training Loss: 0.147954
batch: 158 Training Loss: 0.148641
batch: 159 Training Loss: 0.148106
batch: 160 Training Loss: 0.148255
batch: 161 Training Loss: 0.148247
batch: 162 Training Loss: 0.147811
batch: 163 Training Loss: 0.147420
batch: 164 Training Loss: 0.147627
batch: 165 Training Loss: 0.147035
batch: 166 Training Loss: 0.146583
batch: 167 Training Loss: 0.147238
batch: 168 Training Loss: 0.146700
batch: 169 Training Loss: 0.146867
batch: 170 Training Loss: 0.146362
batch: 171 Training Loss: 0.147122
batch: 172 Training Loss: 0.146446
batch: 173 Training Loss: 0.147025
batch: 174 Training Loss: 0.146375
batch: 175 Training Loss: 0.145990
batch: 176 Training Loss: 0.145678
batch: 177 Training Loss: 0.145660
batch: 178 Training Loss: 0.145335
batch: 179 Training Loss: 0.145447
batch: 180 Training Loss: 0.144916
batch: 181 Training Loss: 0.144310
batch: 182 Training Loss: 0.144408
batch: 183 Training Loss: 0.144771
batch: 184 Training Loss: 0.144588
batch: 185 Training Loss: 0.144243
batch: 186 Training Loss: 0.143864
batch: 187 Training Loss: 0.143285
batch: 188 Training Loss: 0.143011
batch: 189 Training Loss: 0.143159
batch: 190 Training Loss: 0.142591

batch: 191 Training Loss: 0.142622
batch: 192 Training Loss: 0.142824
batch: 193 Training Loss: 0.142687
batch: 194 Training Loss: 0.143061
batch: 195 Training Loss: 0.143059
batch: 196 Training Loss: 0.142840
batch: 197 Training Loss: 0.142504
batch: 198 Training Loss: 0.142331
batch: 199 Training Loss: 0.142289
batch: 200 Training Loss: 0.142147
batch: 201 Training Loss: 0.142152
batch: 202 Training Loss: 0.141812
batch: 203 Training Loss: 0.141639
batch: 204 Training Loss: 0.141198
batch: 205 Training Loss: 0.141504
batch: 206 Training Loss: 0.141245
batch: 207 Training Loss: 0.141649
batch: 208 Training Loss: 0.141058
Epoch: 69 Training Loss: 0.141058 Validation Loss: 1.395895
batch: 0 Training Loss: 0.134206
batch: 1 Training Loss: 0.094819
batch: 2 Training Loss: 0.113276
batch: 3 Training Loss: 0.097071
batch: 4 Training Loss: 0.107163
batch: 5 Training Loss: 0.097526
batch: 6 Training Loss: 0.091434
batch: 7 Training Loss: 0.092069
batch: 8 Training Loss: 0.097607
batch: 9 Training Loss: 0.107580
batch: 10 Training Loss: 0.103414
batch: 11 Training Loss: 0.103172
batch: 12 Training Loss: 0.097889
batch: 13 Training Loss: 0.104026
batch: 14 Training Loss: 0.106831
batch: 15 Training Loss: 0.104243
batch: 16 Training Loss: 0.100724
batch: 17 Training Loss: 0.096548
batch: 18 Training Loss: 0.100330
batch: 19 Training Loss: 0.102430
batch: 20 Training Loss: 0.102804
batch: 21 Training Loss: 0.102652
batch: 22 Training Loss: 0.104269
batch: 23 Training Loss: 0.102908
batch: 24 Training Loss: 0.102558
batch: 25 Training Loss: 0.104512
batch: 26 Training Loss: 0.102827
batch: 27 Training Loss: 0.101676
batch: 28 Training Loss: 0.102891
batch: 29 Training Loss: 0.101558
batch: 30 Training Loss: 0.098797
batch: 31 Training Loss: 0.103349
batch: 32 Training Loss: 0.100562
batch: 33 Training Loss: 0.099229
batch: 34 Training Loss: 0.098710
batch: 35 Training Loss: 0.096851
batch: 36 Training Loss: 0.100401
batch: 37 Training Loss: 0.101425
batch: 38 Training Loss: 0.100527
batch: 39 Training Loss: 0.100515
batch: 40 Training Loss: 0.099346
batch: 41 Training Loss: 0.099998
batch: 42 Training Loss: 0.102920
batch: 43 Training Loss: 0.102221
batch: 44 Training Loss: 0.104505
batch: 45 Training Loss: 0.105174
batch: 46 Training Loss: 0.104421
batch: 47 Training Loss: 0.103178
batch: 48 Training Loss: 0.104169
batch: 49 Training Loss: 0.104360
batch: 50 Training Loss: 0.107100
batch: 51 Training Loss: 0.110887
batch: 52 Training Loss: 0.110285
batch: 53 Training Loss: 0.109568
batch: 54 Training Loss: 0.108905
batch: 55 Training Loss: 0.110103
batch: 56 Training Loss: 0.109274
batch: 57 Training Loss: 0.108315
batch: 58 Training Loss: 0.108253
batch: 59 Training Loss: 0.107206
batch: 60 Training Loss: 0.106965
batch: 61 Training Loss: 0.107012
batch: 62 Training Loss: 0.111592
batch: 63 Training Loss: 0.113342
batch: 64 Training Loss: 0.112656
batch: 65 Training Loss: 0.112761
batch: 66 Training Loss: 0.112671
batch: 67 Training Loss: 0.117364
batch: 68 Training Loss: 0.116333
batch: 69 Training Loss: 0.119946
batch: 70 Training Loss: 0.120628
batch: 71 Training Loss: 0.121032

batch: 72 Training Loss: 0.120630
batch: 73 Training Loss: 0.122315
batch: 74 Training Loss: 0.122413
batch: 75 Training Loss: 0.122675
batch: 76 Training Loss: 0.121333
batch: 77 Training Loss: 0.120768
batch: 78 Training Loss: 0.120163
batch: 79 Training Loss: 0.121521
batch: 80 Training Loss: 0.120935
batch: 81 Training Loss: 0.119998
batch: 82 Training Loss: 0.119663
batch: 83 Training Loss: 0.119306
batch: 84 Training Loss: 0.118305
batch: 85 Training Loss: 0.117693
batch: 86 Training Loss: 0.117458
batch: 87 Training Loss: 0.117343
batch: 88 Training Loss: 0.119132
batch: 89 Training Loss: 0.119023
batch: 90 Training Loss: 0.118179
batch: 91 Training Loss: 0.118419
batch: 92 Training Loss: 0.118684
batch: 93 Training Loss: 0.121363
batch: 94 Training Loss: 0.120421
batch: 95 Training Loss: 0.122160
batch: 96 Training Loss: 0.121503
batch: 97 Training Loss: 0.121838
batch: 98 Training Loss: 0.121429
batch: 99 Training Loss: 0.121106
batch: 100 Training Loss: 0.120082
batch: 101 Training Loss: 0.119158
batch: 102 Training Loss: 0.121184
batch: 103 Training Loss: 0.120283
batch: 104 Training Loss: 0.119989
batch: 105 Training Loss: 0.120204
batch: 106 Training Loss: 0.120121
batch: 107 Training Loss: 0.119439
batch: 108 Training Loss: 0.119187
batch: 109 Training Loss: 0.118685
batch: 110 Training Loss: 0.118068
batch: 111 Training Loss: 0.120341
batch: 112 Training Loss: 0.119673
batch: 113 Training Loss: 0.119721
batch: 114 Training Loss: 0.119598
batch: 115 Training Loss: 0.121626
batch: 116 Training Loss: 0.121089
batch: 117 Training Loss: 0.120460
batch: 118 Training Loss: 0.121952
batch: 119 Training Loss: 0.121646
batch: 120 Training Loss: 0.120704
batch: 121 Training Loss: 0.119866
batch: 122 Training Loss: 0.119163
batch: 123 Training Loss: 0.119055
batch: 124 Training Loss: 0.118230
batch: 125 Training Loss: 0.117609
batch: 126 Training Loss: 0.117537
batch: 127 Training Loss: 0.117863
batch: 128 Training Loss: 0.118417
batch: 129 Training Loss: 0.118944
batch: 130 Training Loss: 0.120125
batch: 131 Training Loss: 0.120974
batch: 132 Training Loss: 0.120572
batch: 133 Training Loss: 0.120936
batch: 134 Training Loss: 0.121864
batch: 135 Training Loss: 0.121303
batch: 136 Training Loss: 0.124560
batch: 137 Training Loss: 0.125254
batch: 138 Training Loss: 0.124651
batch: 139 Training Loss: 0.124412
batch: 140 Training Loss: 0.124856
batch: 141 Training Loss: 0.124840
batch: 142 Training Loss: 0.124736
batch: 143 Training Loss: 0.125232
batch: 144 Training Loss: 0.124717
batch: 145 Training Loss: 0.124630
batch: 146 Training Loss: 0.124968
batch: 147 Training Loss: 0.124496
batch: 148 Training Loss: 0.124314
batch: 149 Training Loss: 0.123933
batch: 150 Training Loss: 0.125044
batch: 151 Training Loss: 0.125109
batch: 152 Training Loss: 0.125075
batch: 153 Training Loss: 0.125490
batch: 154 Training Loss: 0.125311
batch: 155 Training Loss: 0.125063
batch: 156 Training Loss: 0.125548
batch: 157 Training Loss: 0.125634
batch: 158 Training Loss: 0.125157
batch: 159 Training Loss: 0.125426
batch: 160 Training Loss: 0.125654
batch: 161 Training Loss: 0.125274
batch: 162 Training Loss: 0.124925

batch: 163 Training Loss: 0.125007
batch: 164 Training Loss: 0.125086
batch: 165 Training Loss: 0.125635
batch: 166 Training Loss: 0.125242
batch: 167 Training Loss: 0.125610
batch: 168 Training Loss: 0.125279
batch: 169 Training Loss: 0.125190
batch: 170 Training Loss: 0.125069
batch: 171 Training Loss: 0.125133
batch: 172 Training Loss: 0.125695
batch: 173 Training Loss: 0.128108
batch: 174 Training Loss: 0.127461
batch: 175 Training Loss: 0.128016
batch: 176 Training Loss: 0.128165
batch: 177 Training Loss: 0.127675
batch: 178 Training Loss: 0.127219
batch: 179 Training Loss: 0.126667
batch: 180 Training Loss: 0.128184
batch: 181 Training Loss: 0.129933
batch: 182 Training Loss: 0.130566
batch: 183 Training Loss: 0.130738
batch: 184 Training Loss: 0.131197
batch: 185 Training Loss: 0.131500
batch: 186 Training Loss: 0.131797
batch: 187 Training Loss: 0.133356
batch: 188 Training Loss: 0.132843
batch: 189 Training Loss: 0.134111
batch: 190 Training Loss: 0.133925
batch: 191 Training Loss: 0.135690
batch: 192 Training Loss: 0.135349
batch: 193 Training Loss: 0.135120
batch: 194 Training Loss: 0.134719
batch: 195 Training Loss: 0.134624
batch: 196 Training Loss: 0.134568
batch: 197 Training Loss: 0.135146
batch: 198 Training Loss: 0.135273
batch: 199 Training Loss: 0.135695
batch: 200 Training Loss: 0.136489
batch: 201 Training Loss: 0.139586
batch: 202 Training Loss: 0.139386
batch: 203 Training Loss: 0.140462
batch: 204 Training Loss: 0.142217
batch: 205 Training Loss: 0.141811
batch: 206 Training Loss: 0.141301
batch: 207 Training Loss: 0.140806
batch: 208 Training Loss: 0.143716
Epoch: 70 Training Loss: 0.143716 Validation Loss: 1.681711
batch: 0 Training Loss: 0.314035
batch: 1 Training Loss: 0.188417
batch: 2 Training Loss: 0.185566
batch: 3 Training Loss: 0.160302
batch: 4 Training Loss: 0.241785
batch: 5 Training Loss: 0.208385
batch: 6 Training Loss: 0.189373
batch: 7 Training Loss: 0.169673
batch: 8 Training Loss: 0.152316
batch: 9 Training Loss: 0.140833
batch: 10 Training Loss: 0.130691
batch: 11 Training Loss: 0.133460
batch: 12 Training Loss: 0.131559
batch: 13 Training Loss: 0.138744
batch: 14 Training Loss: 0.133911
batch: 15 Training Loss: 0.128349
batch: 16 Training Loss: 0.141259
batch: 17 Training Loss: 0.147880
batch: 18 Training Loss: 0.144173
batch: 19 Training Loss: 0.142430
batch: 20 Training Loss: 0.144936
batch: 21 Training Loss: 0.150015
batch: 22 Training Loss: 0.150558
batch: 23 Training Loss: 0.146600
batch: 24 Training Loss: 0.145039
batch: 25 Training Loss: 0.154841
batch: 26 Training Loss: 0.149793
batch: 27 Training Loss: 0.147986
batch: 28 Training Loss: 0.148057
batch: 29 Training Loss: 0.148792
batch: 30 Training Loss: 0.149060
batch: 31 Training Loss: 0.149160
batch: 32 Training Loss: 0.155316
batch: 33 Training Loss: 0.156661
batch: 34 Training Loss: 0.157885
batch: 35 Training Loss: 0.154733
batch: 36 Training Loss: 0.159142
batch: 37 Training Loss: 0.158601
batch: 38 Training Loss: 0.157109
batch: 39 Training Loss: 0.154507
batch: 40 Training Loss: 0.151562
batch: 41 Training Loss: 0.151936
batch: 42 Training Loss: 0.152621
batch: 43 Training Loss: 0.149563

batch: 44 Training Loss: 0.155398
batch: 45 Training Loss: 0.156141
batch: 46 Training Loss: 0.154080
batch: 47 Training Loss: 0.152359
batch: 48 Training Loss: 0.151674
batch: 49 Training Loss: 0.152108
batch: 50 Training Loss: 0.151338
batch: 51 Training Loss: 0.150945
batch: 52 Training Loss: 0.154626
batch: 53 Training Loss: 0.153417
batch: 54 Training Loss: 0.156085
batch: 55 Training Loss: 0.157877
batch: 56 Training Loss: 0.156443
batch: 57 Training Loss: 0.156762
batch: 58 Training Loss: 0.155660
batch: 59 Training Loss: 0.154576
batch: 60 Training Loss: 0.152520
batch: 61 Training Loss: 0.151132
batch: 62 Training Loss: 0.151549
batch: 63 Training Loss: 0.149944
batch: 64 Training Loss: 0.148260
batch: 65 Training Loss: 0.147178
batch: 66 Training Loss: 0.145788
batch: 67 Training Loss: 0.145135
batch: 68 Training Loss: 0.145341
batch: 69 Training Loss: 0.144072
batch: 70 Training Loss: 0.143408
batch: 71 Training Loss: 0.142367
batch: 72 Training Loss: 0.143662
batch: 73 Training Loss: 0.143068
batch: 74 Training Loss: 0.142574
batch: 75 Training Loss: 0.141790
batch: 76 Training Loss: 0.140390
batch: 77 Training Loss: 0.139159
batch: 78 Training Loss: 0.138068
batch: 79 Training Loss: 0.137427
batch: 80 Training Loss: 0.136082
batch: 81 Training Loss: 0.135482
batch: 82 Training Loss: 0.134547
batch: 83 Training Loss: 0.134740
batch: 84 Training Loss: 0.135624
batch: 85 Training Loss: 0.136396
batch: 86 Training Loss: 0.136100
batch: 87 Training Loss: 0.135497
batch: 88 Training Loss: 0.135956
batch: 89 Training Loss: 0.138889
batch: 90 Training Loss: 0.140885
batch: 91 Training Loss: 0.140465
batch: 92 Training Loss: 0.140752
batch: 93 Training Loss: 0.141050
batch: 94 Training Loss: 0.140214
batch: 95 Training Loss: 0.139498
batch: 96 Training Loss: 0.138709
batch: 97 Training Loss: 0.138845
batch: 98 Training Loss: 0.137677
batch: 99 Training Loss: 0.138590
batch: 100 Training Loss: 0.138766
batch: 101 Training Loss: 0.137634
batch: 102 Training Loss: 0.137742
batch: 103 Training Loss: 0.137321
batch: 104 Training Loss: 0.136373
batch: 105 Training Loss: 0.136344
batch: 106 Training Loss: 0.135661
batch: 107 Training Loss: 0.134619
batch: 108 Training Loss: 0.134248
batch: 109 Training Loss: 0.135969
batch: 110 Training Loss: 0.135366
batch: 111 Training Loss: 0.135524
batch: 112 Training Loss: 0.135042
batch: 113 Training Loss: 0.136221
batch: 114 Training Loss: 0.136891
batch: 115 Training Loss: 0.135999
batch: 116 Training Loss: 0.135397
batch: 117 Training Loss: 0.136076
batch: 118 Training Loss: 0.135434
batch: 119 Training Loss: 0.135723
batch: 120 Training Loss: 0.134957
batch: 121 Training Loss: 0.135910
batch: 122 Training Loss: 0.136579
batch: 123 Training Loss: 0.136881
batch: 124 Training Loss: 0.135972
batch: 125 Training Loss: 0.136284
batch: 126 Training Loss: 0.135786
batch: 127 Training Loss: 0.135111
batch: 128 Training Loss: 0.135917
batch: 129 Training Loss: 0.135438
batch: 130 Training Loss: 0.134952
batch: 131 Training Loss: 0.134436
batch: 132 Training Loss: 0.134838
batch: 133 Training Loss: 0.134107
batch: 134 Training Loss: 0.133404

batch: 135 Training Loss: 0.133279
batch: 136 Training Loss: 0.132931
batch: 137 Training Loss: 0.132448
batch: 138 Training Loss: 0.132613
batch: 139 Training Loss: 0.131843
batch: 140 Training Loss: 0.131576
batch: 141 Training Loss: 0.131572
batch: 142 Training Loss: 0.131595
batch: 143 Training Loss: 0.130895
batch: 144 Training Loss: 0.130766
batch: 145 Training Loss: 0.130591
batch: 146 Training Loss: 0.131006
batch: 147 Training Loss: 0.130441
batch: 148 Training Loss: 0.129702
batch: 149 Training Loss: 0.131423
batch: 150 Training Loss: 0.131169
batch: 151 Training Loss: 0.131074
batch: 152 Training Loss: 0.130547
batch: 153 Training Loss: 0.129972
batch: 154 Training Loss: 0.129545
batch: 155 Training Loss: 0.129488
batch: 156 Training Loss: 0.129837
batch: 157 Training Loss: 0.129806
batch: 158 Training Loss: 0.129320
batch: 159 Training Loss: 0.129627
batch: 160 Training Loss: 0.129061
batch: 161 Training Loss: 0.128757
batch: 162 Training Loss: 0.128970
batch: 163 Training Loss: 0.128553
batch: 164 Training Loss: 0.128350
batch: 165 Training Loss: 0.130709
batch: 166 Training Loss: 0.130362
batch: 167 Training Loss: 0.130413
batch: 168 Training Loss: 0.130603
batch: 169 Training Loss: 0.130735
batch: 170 Training Loss: 0.130660
batch: 171 Training Loss: 0.130643
batch: 172 Training Loss: 0.130338
batch: 173 Training Loss: 0.129929
batch: 174 Training Loss: 0.129549
batch: 175 Training Loss: 0.129760
batch: 176 Training Loss: 0.129584
batch: 177 Training Loss: 0.130651
batch: 178 Training Loss: 0.130243
batch: 179 Training Loss: 0.130253
batch: 180 Training Loss: 0.129974
batch: 181 Training Loss: 0.129605
batch: 182 Training Loss: 0.130030
batch: 183 Training Loss: 0.129935
batch: 184 Training Loss: 0.129413
batch: 185 Training Loss: 0.128845
batch: 186 Training Loss: 0.128473
batch: 187 Training Loss: 0.128198
batch: 188 Training Loss: 0.129882
batch: 189 Training Loss: 0.129826
batch: 190 Training Loss: 0.129535
batch: 191 Training Loss: 0.129656
batch: 192 Training Loss: 0.130876
batch: 193 Training Loss: 0.131542
batch: 194 Training Loss: 0.130928
batch: 195 Training Loss: 0.130535
batch: 196 Training Loss: 0.131220
batch: 197 Training Loss: 0.131432
batch: 198 Training Loss: 0.131224
batch: 199 Training Loss: 0.130942
batch: 200 Training Loss: 0.130464
batch: 201 Training Loss: 0.130533
batch: 202 Training Loss: 0.130257
batch: 203 Training Loss: 0.130091
batch: 204 Training Loss: 0.130057
batch: 205 Training Loss: 0.129968
batch: 206 Training Loss: 0.130013
batch: 207 Training Loss: 0.129914
batch: 208 Training Loss: 0.129771
Epoch: 71 Training Loss: 0.129771 Validation Loss: 1.613096
batch: 0 Training Loss: 0.027615
batch: 1 Training Loss: 0.090938
batch: 2 Training Loss: 0.076343
batch: 3 Training Loss: 0.127106
batch: 4 Training Loss: 0.153638
batch: 5 Training Loss: 0.148595
batch: 6 Training Loss: 0.139278
batch: 7 Training Loss: 0.125499
batch: 8 Training Loss: 0.114208
batch: 9 Training Loss: 0.109940
batch: 10 Training Loss: 0.113835
batch: 11 Training Loss: 0.134387
batch: 12 Training Loss: 0.134580
batch: 13 Training Loss: 0.134580
batch: 14 Training Loss: 0.135183
batch: 15 Training Loss: 0.129674

batch: 16 Training Loss: 0.127805
batch: 17 Training Loss: 0.121485
batch: 18 Training Loss: 0.134809
batch: 19 Training Loss: 0.136656
batch: 20 Training Loss: 0.133189
batch: 21 Training Loss: 0.129823
batch: 22 Training Loss: 0.130564
batch: 23 Training Loss: 0.126567
batch: 24 Training Loss: 0.127931
batch: 25 Training Loss: 0.126424
batch: 26 Training Loss: 0.128697
batch: 27 Training Loss: 0.131599
batch: 28 Training Loss: 0.129063
batch: 29 Training Loss: 0.132125
batch: 30 Training Loss: 0.129714
batch: 31 Training Loss: 0.126700
batch: 32 Training Loss: 0.131054
batch: 33 Training Loss: 0.129752
batch: 34 Training Loss: 0.128012
batch: 35 Training Loss: 0.126995
batch: 36 Training Loss: 0.127468
batch: 37 Training Loss: 0.127482
batch: 38 Training Loss: 0.126060
batch: 39 Training Loss: 0.126050
batch: 40 Training Loss: 0.124984
batch: 41 Training Loss: 0.123757
batch: 42 Training Loss: 0.122605
batch: 43 Training Loss: 0.121485
batch: 44 Training Loss: 0.122814
batch: 45 Training Loss: 0.124512
batch: 46 Training Loss: 0.127148
batch: 47 Training Loss: 0.129348
batch: 48 Training Loss: 0.128847
batch: 49 Training Loss: 0.129555
batch: 50 Training Loss: 0.128643
batch: 51 Training Loss: 0.128279
batch: 52 Training Loss: 0.130711
batch: 53 Training Loss: 0.129372
batch: 54 Training Loss: 0.128390
batch: 55 Training Loss: 0.130665
batch: 56 Training Loss: 0.130154
batch: 57 Training Loss: 0.129535
batch: 58 Training Loss: 0.128113
batch: 59 Training Loss: 0.128664
batch: 60 Training Loss: 0.127457
batch: 61 Training Loss: 0.126116
batch: 62 Training Loss: 0.126558
batch: 63 Training Loss: 0.126533
batch: 64 Training Loss: 0.128174
batch: 65 Training Loss: 0.130127
batch: 66 Training Loss: 0.133006
batch: 67 Training Loss: 0.132594
batch: 68 Training Loss: 0.133595
batch: 69 Training Loss: 0.134670
batch: 70 Training Loss: 0.133087
batch: 71 Training Loss: 0.133816
batch: 72 Training Loss: 0.134011
batch: 73 Training Loss: 0.133262
batch: 74 Training Loss: 0.133379
batch: 75 Training Loss: 0.132266
batch: 76 Training Loss: 0.131315
batch: 77 Training Loss: 0.131807
batch: 78 Training Loss: 0.131486
batch: 79 Training Loss: 0.131856
batch: 80 Training Loss: 0.131768
batch: 81 Training Loss: 0.131248
batch: 82 Training Loss: 0.130580
batch: 83 Training Loss: 0.131052
batch: 84 Training Loss: 0.129759
batch: 85 Training Loss: 0.130435
batch: 86 Training Loss: 0.129233
batch: 87 Training Loss: 0.131551
batch: 88 Training Loss: 0.130620
batch: 89 Training Loss: 0.135860
batch: 90 Training Loss: 0.135220
batch: 91 Training Loss: 0.136182
batch: 92 Training Loss: 0.135062
batch: 93 Training Loss: 0.134787
batch: 94 Training Loss: 0.135392
batch: 95 Training Loss: 0.134555
batch: 96 Training Loss: 0.134415
batch: 97 Training Loss: 0.134558
batch: 98 Training Loss: 0.133398
batch: 99 Training Loss: 0.134249
batch: 100 Training Loss: 0.136524
batch: 101 Training Loss: 0.135784
batch: 102 Training Loss: 0.136097
batch: 103 Training Loss: 0.137485
batch: 104 Training Loss: 0.136594
batch: 105 Training Loss: 0.135750
batch: 106 Training Loss: 0.137175
... 100

batch: 107 Training Loss: 0.139334
batch: 108 Training Loss: 0.138424
batch: 109 Training Loss: 0.138167
batch: 110 Training Loss: 0.137545
batch: 111 Training Loss: 0.138170
batch: 112 Training Loss: 0.138557
batch: 113 Training Loss: 0.138396
batch: 114 Training Loss: 0.138307
batch: 115 Training Loss: 0.138494
batch: 116 Training Loss: 0.138230
batch: 117 Training Loss: 0.140242
batch: 118 Training Loss: 0.140405
batch: 119 Training Loss: 0.139758
batch: 120 Training Loss: 0.139827
batch: 121 Training Loss: 0.142551
batch: 122 Training Loss: 0.141956
batch: 123 Training Loss: 0.143542
batch: 124 Training Loss: 0.143023
batch: 125 Training Loss: 0.144121
batch: 126 Training Loss: 0.144356
batch: 127 Training Loss: 0.144826
batch: 128 Training Loss: 0.145389
batch: 129 Training Loss: 0.146150
batch: 130 Training Loss: 0.148127
batch: 131 Training Loss: 0.147478
batch: 132 Training Loss: 0.147882
batch: 133 Training Loss: 0.147793
batch: 134 Training Loss: 0.148084
batch: 135 Training Loss: 0.150914
batch: 136 Training Loss: 0.151473
batch: 137 Training Loss: 0.151262
batch: 138 Training Loss: 0.150331
batch: 139 Training Loss: 0.151283
batch: 140 Training Loss: 0.154238
batch: 141 Training Loss: 0.153935
batch: 142 Training Loss: 0.153716
batch: 143 Training Loss: 0.154692
batch: 144 Training Loss: 0.156131
batch: 145 Training Loss: 0.158033
batch: 146 Training Loss: 0.158875
batch: 147 Training Loss: 0.162365
batch: 148 Training Loss: 0.161856
batch: 149 Training Loss: 0.161138
batch: 150 Training Loss: 0.160388
batch: 151 Training Loss: 0.160253
batch: 152 Training Loss: 0.159345
batch: 153 Training Loss: 0.160142
batch: 154 Training Loss: 0.160098
batch: 155 Training Loss: 0.160039
batch: 156 Training Loss: 0.159378
batch: 157 Training Loss: 0.159979
batch: 158 Training Loss: 0.159739
batch: 159 Training Loss: 0.161179
batch: 160 Training Loss: 0.161185
batch: 161 Training Loss: 0.161051
batch: 162 Training Loss: 0.160332
batch: 163 Training Loss: 0.161030
batch: 164 Training Loss: 0.160612
batch: 165 Training Loss: 0.160829
batch: 166 Training Loss: 0.160537
batch: 167 Training Loss: 0.160536
batch: 168 Training Loss: 0.160155
batch: 169 Training Loss: 0.159975
batch: 170 Training Loss: 0.159510
batch: 171 Training Loss: 0.159588
batch: 172 Training Loss: 0.160284
batch: 173 Training Loss: 0.159867
batch: 174 Training Loss: 0.159580
batch: 175 Training Loss: 0.159190
batch: 176 Training Loss: 0.158470
batch: 177 Training Loss: 0.158157
batch: 178 Training Loss: 0.157898
batch: 179 Training Loss: 0.158006
batch: 180 Training Loss: 0.158149
batch: 181 Training Loss: 0.157866
batch: 182 Training Loss: 0.157258
batch: 183 Training Loss: 0.156633
batch: 184 Training Loss: 0.156048
batch: 185 Training Loss: 0.156027
batch: 186 Training Loss: 0.156149
batch: 187 Training Loss: 0.156428
batch: 188 Training Loss: 0.156354
batch: 189 Training Loss: 0.156453
batch: 190 Training Loss: 0.156500
batch: 191 Training Loss: 0.157173
batch: 192 Training Loss: 0.157498
batch: 193 Training Loss: 0.157483
batch: 194 Training Loss: 0.157359
batch: 195 Training Loss: 0.157123
batch: 196 Training Loss: 0.157685
batch: 197 Training Loss: 0.157117
batch: 198 Training Loss: 0.156428

```
batch: 198      Training Loss: 0.156425
batch: 199      Training Loss: 0.156096
batch: 200      Training Loss: 0.156299
batch: 201      Training Loss: 0.156307
batch: 202      Training Loss: 0.156428
batch: 203      Training Loss: 0.156612
batch: 204      Training Loss: 0.156330
batch: 205      Training Loss: 0.156429
batch: 206      Training Loss: 0.156842
batch: 207      Training Loss: 0.156503
batch: 208      Training Loss: 0.155918
Epoch: 72       Training Loss: 0.155918      Validation Loss: 1.365184
batch: 0        Training Loss: 0.058851
batch: 1        Training Loss: 0.073749
batch: 2        Training Loss: 0.058932
batch: 3        Training Loss: 0.085134
batch: 4        Training Loss: 0.091692
batch: 5        Training Loss: 0.122068
batch: 6        Training Loss: 0.121642
batch: 7        Training Loss: 0.141151
batch: 8        Training Loss: 0.137522
batch: 9        Training Loss: 0.155067
batch: 10       Training Loss: 0.146857
batch: 11       Training Loss: 0.139085
batch: 12       Training Loss: 0.133343
batch: 13       Training Loss: 0.136371
batch: 14       Training Loss: 0.147387
batch: 15       Training Loss: 0.146193
batch: 16       Training Loss: 0.140125
batch: 17       Training Loss: 0.135261
batch: 18       Training Loss: 0.130264
batch: 19       Training Loss: 0.129252
batch: 20       Training Loss: 0.127999
batch: 21       Training Loss: 0.124091
batch: 22       Training Loss: 0.125681
batch: 23       Training Loss: 0.130394
batch: 24       Training Loss: 0.127165
batch: 25       Training Loss: 0.127453
batch: 26       Training Loss: 0.126914
batch: 27       Training Loss: 0.124200
batch: 28       Training Loss: 0.121410
batch: 29       Training Loss: 0.121469
batch: 30       Training Loss: 0.118848
batch: 31       Training Loss: 0.120399
batch: 32       Training Loss: 0.128462
batch: 33       Training Loss: 0.127112
batch: 34       Training Loss: 0.124182
batch: 35       Training Loss: 0.122453
batch: 36       Training Loss: 0.122758
batch: 37       Training Loss: 0.122317
batch: 38       Training Loss: 0.120377
batch: 39       Training Loss: 0.118903
batch: 40       Training Loss: 0.118217
batch: 41       Training Loss: 0.117556
batch: 42       Training Loss: 0.116311
batch: 43       Training Loss: 0.114921
batch: 44       Training Loss: 0.112602
batch: 45       Training Loss: 0.112839
batch: 46       Training Loss: 0.111614
batch: 47       Training Loss: 0.118939
batch: 48       Training Loss: 0.117894
batch: 49       Training Loss: 0.116610
batch: 50       Training Loss: 0.121378
batch: 51       Training Loss: 0.121982
batch: 52       Training Loss: 0.122739
batch: 53       Training Loss: 0.120884
batch: 54       Training Loss: 0.120126
batch: 55       Training Loss: 0.120320
batch: 56       Training Loss: 0.120167
batch: 57       Training Loss: 0.118682
batch: 58       Training Loss: 0.117382
batch: 59       Training Loss: 0.117242
batch: 60       Training Loss: 0.118492
batch: 61       Training Loss: 0.118551
batch: 62       Training Loss: 0.116997
batch: 63       Training Loss: 0.119714
batch: 64       Training Loss: 0.118461
batch: 65       Training Loss: 0.121374
batch: 66       Training Loss: 0.120642
batch: 67       Training Loss: 0.119382
batch: 68       Training Loss: 0.119653
batch: 69       Training Loss: 0.122242
batch: 70       Training Loss: 0.121728
batch: 71       Training Loss: 0.120508
batch: 72       Training Loss: 0.121784
batch: 73       Training Loss: 0.120353
batch: 74       Training Loss: 0.119893
batch: 75       Training Loss: 0.122644
batch: 76       Training Loss: 0.126279
batch: 77       Training Loss: 0.129446
batch: 78       Training Loss: 0.128947
batch: 79       Training Loss: 0.128550
```

batch: 79 Training Loss: 0.128559
batch: 80 Training Loss: 0.127400
batch: 81 Training Loss: 0.127655
batch: 82 Training Loss: 0.127711
batch: 83 Training Loss: 0.127120
batch: 84 Training Loss: 0.129984
batch: 85 Training Loss: 0.128790
batch: 86 Training Loss: 0.130314
batch: 87 Training Loss: 0.129594
batch: 88 Training Loss: 0.128923
batch: 89 Training Loss: 0.129122
batch: 90 Training Loss: 0.129020
batch: 91 Training Loss: 0.129949
batch: 92 Training Loss: 0.130781
batch: 93 Training Loss: 0.133244
batch: 94 Training Loss: 0.132600
batch: 95 Training Loss: 0.132273
batch: 96 Training Loss: 0.133412
batch: 97 Training Loss: 0.135391
batch: 98 Training Loss: 0.136418
batch: 99 Training Loss: 0.137550
batch: 100 Training Loss: 0.138589
batch: 101 Training Loss: 0.138062
batch: 102 Training Loss: 0.138245
batch: 103 Training Loss: 0.139097
batch: 104 Training Loss: 0.137985
batch: 105 Training Loss: 0.138944
batch: 106 Training Loss: 0.139306
batch: 107 Training Loss: 0.138745
batch: 108 Training Loss: 0.138470
batch: 109 Training Loss: 0.139273
batch: 110 Training Loss: 0.139898
batch: 111 Training Loss: 0.140321
batch: 112 Training Loss: 0.139834
batch: 113 Training Loss: 0.138862
batch: 114 Training Loss: 0.137849
batch: 115 Training Loss: 0.138026
batch: 116 Training Loss: 0.137048
batch: 117 Training Loss: 0.136830
batch: 118 Training Loss: 0.137129
batch: 119 Training Loss: 0.137996
batch: 120 Training Loss: 0.137280
batch: 121 Training Loss: 0.138464
batch: 122 Training Loss: 0.139414
batch: 123 Training Loss: 0.138633
batch: 124 Training Loss: 0.138055
batch: 125 Training Loss: 0.137828
batch: 126 Training Loss: 0.137367
batch: 127 Training Loss: 0.136730
batch: 128 Training Loss: 0.136077
batch: 129 Training Loss: 0.135146
batch: 130 Training Loss: 0.135346
batch: 131 Training Loss: 0.134804
batch: 132 Training Loss: 0.134078
batch: 133 Training Loss: 0.135489
batch: 134 Training Loss: 0.134574
batch: 135 Training Loss: 0.134137
batch: 136 Training Loss: 0.135875
batch: 137 Training Loss: 0.135840
batch: 138 Training Loss: 0.136602
batch: 139 Training Loss: 0.135928
batch: 140 Training Loss: 0.135303
batch: 141 Training Loss: 0.134712
batch: 142 Training Loss: 0.135718
batch: 143 Training Loss: 0.135175
batch: 144 Training Loss: 0.136644
batch: 145 Training Loss: 0.136051
batch: 146 Training Loss: 0.135326
batch: 147 Training Loss: 0.135531
batch: 148 Training Loss: 0.135055
batch: 149 Training Loss: 0.134449
batch: 150 Training Loss: 0.134261
batch: 151 Training Loss: 0.135047
batch: 152 Training Loss: 0.135782
batch: 153 Training Loss: 0.135345
batch: 154 Training Loss: 0.135242
batch: 155 Training Loss: 0.137244
batch: 156 Training Loss: 0.136549
batch: 157 Training Loss: 0.138756
batch: 158 Training Loss: 0.138334
batch: 159 Training Loss: 0.137725
batch: 160 Training Loss: 0.137712
batch: 161 Training Loss: 0.136948
batch: 162 Training Loss: 0.137453
batch: 163 Training Loss: 0.136981
batch: 164 Training Loss: 0.137947
batch: 165 Training Loss: 0.137358
batch: 166 Training Loss: 0.137597
batch: 167 Training Loss: 0.136992
batch: 168 Training Loss: 0.136582
batch: 169 Training Loss: 0.137007
batch: 170 Training Loss: 0.137107

batch: 1/9 Training Loss: 0.137221
batch: 171 Training Loss: 0.137357
batch: 172 Training Loss: 0.137213
batch: 173 Training Loss: 0.137227
batch: 174 Training Loss: 0.136930
batch: 175 Training Loss: 0.136292
batch: 176 Training Loss: 0.136120
batch: 177 Training Loss: 0.136171
batch: 178 Training Loss: 0.135603
batch: 179 Training Loss: 0.135203
batch: 180 Training Loss: 0.135728
batch: 181 Training Loss: 0.136106
batch: 182 Training Loss: 0.135831
batch: 183 Training Loss: 0.135254
batch: 184 Training Loss: 0.135605
batch: 185 Training Loss: 0.135870
batch: 186 Training Loss: 0.135239
batch: 187 Training Loss: 0.136163
batch: 188 Training Loss: 0.137069
batch: 189 Training Loss: 0.137240
batch: 190 Training Loss: 0.137164
batch: 191 Training Loss: 0.136713
batch: 192 Training Loss: 0.136168
batch: 193 Training Loss: 0.135714
batch: 194 Training Loss: 0.136916
batch: 195 Training Loss: 0.137236
batch: 196 Training Loss: 0.137542
batch: 197 Training Loss: 0.136895
batch: 198 Training Loss: 0.136893
batch: 199 Training Loss: 0.137045
batch: 200 Training Loss: 0.136873
batch: 201 Training Loss: 0.136863
batch: 202 Training Loss: 0.136773
batch: 203 Training Loss: 0.136758
batch: 204 Training Loss: 0.136269
batch: 205 Training Loss: 0.135726
batch: 206 Training Loss: 0.135268
batch: 207 Training Loss: 0.135037
batch: 208 Training Loss: 0.136300
Epoch: 73 Training Loss: 0.136300 Validation Loss: 1.398560
batch: 0 Training Loss: 0.043698
batch: 1 Training Loss: 0.063987
batch: 2 Training Loss: 0.076653
batch: 3 Training Loss: 0.300798
batch: 4 Training Loss: 0.248913
batch: 5 Training Loss: 0.214778
batch: 6 Training Loss: 0.260537
batch: 7 Training Loss: 0.257822
batch: 8 Training Loss: 0.232833
batch: 9 Training Loss: 0.243589
batch: 10 Training Loss: 0.223541
batch: 11 Training Loss: 0.222295
batch: 12 Training Loss: 0.207652
batch: 13 Training Loss: 0.219853
batch: 14 Training Loss: 0.233648
batch: 15 Training Loss: 0.220061
batch: 16 Training Loss: 0.210071
batch: 17 Training Loss: 0.200194
batch: 18 Training Loss: 0.193938
batch: 19 Training Loss: 0.186429
batch: 20 Training Loss: 0.181315
batch: 21 Training Loss: 0.175338
batch: 22 Training Loss: 0.168893
batch: 23 Training Loss: 0.164537
batch: 24 Training Loss: 0.160659
batch: 25 Training Loss: 0.159736
batch: 26 Training Loss: 0.155110
batch: 27 Training Loss: 0.150814
batch: 28 Training Loss: 0.151030
batch: 29 Training Loss: 0.148162
batch: 30 Training Loss: 0.147611
batch: 31 Training Loss: 0.151514
batch: 32 Training Loss: 0.151804
batch: 33 Training Loss: 0.148101
batch: 34 Training Loss: 0.151792
batch: 35 Training Loss: 0.153317
batch: 36 Training Loss: 0.152292
batch: 37 Training Loss: 0.151082
batch: 38 Training Loss: 0.150127
batch: 39 Training Loss: 0.148640
batch: 40 Training Loss: 0.150373
batch: 41 Training Loss: 0.150924
batch: 42 Training Loss: 0.163026
batch: 43 Training Loss: 0.162198
batch: 44 Training Loss: 0.164721
batch: 45 Training Loss: 0.165851
batch: 46 Training Loss: 0.164217
batch: 47 Training Loss: 0.162316
batch: 48 Training Loss: 0.162320
batch: 49 Training Loss: 0.162395
batch: 50 Training Loss: 0.159841
batch: 51 Training Loss: 0.158721

batch: 51 Training Loss: 0.158254
batch: 52 Training Loss: 0.158964
batch: 53 Training Loss: 0.160242
batch: 54 Training Loss: 0.158859
batch: 55 Training Loss: 0.158723
batch: 56 Training Loss: 0.158356
batch: 57 Training Loss: 0.156783
batch: 58 Training Loss: 0.154585
batch: 59 Training Loss: 0.152433
batch: 60 Training Loss: 0.151384
batch: 61 Training Loss: 0.150480
batch: 62 Training Loss: 0.151417
batch: 63 Training Loss: 0.151390
batch: 64 Training Loss: 0.150456
batch: 65 Training Loss: 0.150913
batch: 66 Training Loss: 0.152515
batch: 67 Training Loss: 0.151452
batch: 68 Training Loss: 0.150305
batch: 69 Training Loss: 0.148830
batch: 70 Training Loss: 0.147247
batch: 71 Training Loss: 0.145402
batch: 72 Training Loss: 0.143845
batch: 73 Training Loss: 0.143802
batch: 74 Training Loss: 0.143219
batch: 75 Training Loss: 0.144497
batch: 76 Training Loss: 0.143215
batch: 77 Training Loss: 0.142005
batch: 78 Training Loss: 0.142224
batch: 79 Training Loss: 0.141127
batch: 80 Training Loss: 0.139462
batch: 81 Training Loss: 0.139810
batch: 82 Training Loss: 0.138708
batch: 83 Training Loss: 0.137323
batch: 84 Training Loss: 0.138870
batch: 85 Training Loss: 0.138363
batch: 86 Training Loss: 0.139704
batch: 87 Training Loss: 0.138344
batch: 88 Training Loss: 0.138559
batch: 89 Training Loss: 0.137802
batch: 90 Training Loss: 0.137867
batch: 91 Training Loss: 0.137384
batch: 92 Training Loss: 0.136535
batch: 93 Training Loss: 0.137341
batch: 94 Training Loss: 0.136938
batch: 95 Training Loss: 0.136144
batch: 96 Training Loss: 0.137151
batch: 97 Training Loss: 0.139376
batch: 98 Training Loss: 0.138726
batch: 99 Training Loss: 0.138244
batch: 100 Training Loss: 0.137547
batch: 101 Training Loss: 0.138863
batch: 102 Training Loss: 0.139404
batch: 103 Training Loss: 0.138831
batch: 104 Training Loss: 0.138859
batch: 105 Training Loss: 0.137891
batch: 106 Training Loss: 0.137496
batch: 107 Training Loss: 0.137005
batch: 108 Training Loss: 0.137046
batch: 109 Training Loss: 0.137284
batch: 110 Training Loss: 0.137396
batch: 111 Training Loss: 0.137611
batch: 112 Training Loss: 0.137783
batch: 113 Training Loss: 0.139339
batch: 114 Training Loss: 0.139072
batch: 115 Training Loss: 0.138971
batch: 116 Training Loss: 0.139325
batch: 117 Training Loss: 0.138885
batch: 118 Training Loss: 0.138595
batch: 119 Training Loss: 0.139897
batch: 120 Training Loss: 0.139769
batch: 121 Training Loss: 0.141536
batch: 122 Training Loss: 0.142777
batch: 123 Training Loss: 0.143506
batch: 124 Training Loss: 0.143641
batch: 125 Training Loss: 0.142668
batch: 126 Training Loss: 0.143631
batch: 127 Training Loss: 0.143903
batch: 128 Training Loss: 0.143190
batch: 129 Training Loss: 0.143733
batch: 130 Training Loss: 0.143338
batch: 131 Training Loss: 0.144475
batch: 132 Training Loss: 0.143824
batch: 133 Training Loss: 0.143537
batch: 134 Training Loss: 0.143367
batch: 135 Training Loss: 0.142908
batch: 136 Training Loss: 0.142373
batch: 137 Training Loss: 0.142191
batch: 138 Training Loss: 0.142513
batch: 139 Training Loss: 0.141763
batch: 140 Training Loss: 0.142824
batch: 141 Training Loss: 0.142193
batch: 142 Training Loss: 0.141270

batch: 174 Training Loss: 0.141270
batch: 143 Training Loss: 0.141025
batch: 144 Training Loss: 0.140591
batch: 145 Training Loss: 0.140546
batch: 146 Training Loss: 0.139673
batch: 147 Training Loss: 0.138942
batch: 148 Training Loss: 0.138367
batch: 149 Training Loss: 0.137688
batch: 150 Training Loss: 0.139074
batch: 151 Training Loss: 0.138593
batch: 152 Training Loss: 0.138083
batch: 153 Training Loss: 0.138831
batch: 154 Training Loss: 0.138191
batch: 155 Training Loss: 0.137875
batch: 156 Training Loss: 0.137504
batch: 157 Training Loss: 0.137196
batch: 158 Training Loss: 0.136539
batch: 159 Training Loss: 0.136588
batch: 160 Training Loss: 0.136027
batch: 161 Training Loss: 0.137544
batch: 162 Training Loss: 0.138132
batch: 163 Training Loss: 0.137424
batch: 164 Training Loss: 0.137574
batch: 165 Training Loss: 0.137910
batch: 166 Training Loss: 0.138819
batch: 167 Training Loss: 0.138103
batch: 168 Training Loss: 0.138769
batch: 169 Training Loss: 0.140439
batch: 170 Training Loss: 0.139835
batch: 171 Training Loss: 0.140051
batch: 172 Training Loss: 0.139952
batch: 173 Training Loss: 0.139861
batch: 174 Training Loss: 0.139427
batch: 175 Training Loss: 0.141490
batch: 176 Training Loss: 0.141070
batch: 177 Training Loss: 0.140470
batch: 178 Training Loss: 0.140131
batch: 179 Training Loss: 0.139494
batch: 180 Training Loss: 0.138758
batch: 181 Training Loss: 0.138585
batch: 182 Training Loss: 0.138251
batch: 183 Training Loss: 0.138010
batch: 184 Training Loss: 0.137684
batch: 185 Training Loss: 0.138352
batch: 186 Training Loss: 0.137689
batch: 187 Training Loss: 0.137858
batch: 188 Training Loss: 0.137918
batch: 189 Training Loss: 0.137430
batch: 190 Training Loss: 0.137424
batch: 191 Training Loss: 0.136925
batch: 192 Training Loss: 0.136545
batch: 193 Training Loss: 0.136193
batch: 194 Training Loss: 0.136807
batch: 195 Training Loss: 0.136194
batch: 196 Training Loss: 0.135710
batch: 197 Training Loss: 0.136310
batch: 198 Training Loss: 0.136445
batch: 199 Training Loss: 0.137521
batch: 200 Training Loss: 0.137383
batch: 201 Training Loss: 0.137710
batch: 202 Training Loss: 0.137296
batch: 203 Training Loss: 0.136927
batch: 204 Training Loss: 0.136778
batch: 205 Training Loss: 0.136211
batch: 206 Training Loss: 0.136138
batch: 207 Training Loss: 0.137315
batch: 208 Training Loss: 0.137432
Epoch: 74 Training Loss: 0.137432 Validation Loss: 1.387038
batch: 0 Training Loss: 0.045648
batch: 1 Training Loss: 0.035579
batch: 2 Training Loss: 0.054852
batch: 3 Training Loss: 0.056387
batch: 4 Training Loss: 0.073511
batch: 5 Training Loss: 0.082386
batch: 6 Training Loss: 0.082672
batch: 7 Training Loss: 0.081284
batch: 8 Training Loss: 0.100380
batch: 9 Training Loss: 0.110895
batch: 10 Training Loss: 0.116685
batch: 11 Training Loss: 0.117490
batch: 12 Training Loss: 0.114676
batch: 13 Training Loss: 0.112372
batch: 14 Training Loss: 0.117492
batch: 15 Training Loss: 0.123366
batch: 16 Training Loss: 0.118681
batch: 17 Training Loss: 0.124727
batch: 18 Training Loss: 0.121136
batch: 19 Training Loss: 0.121755
batch: 20 Training Loss: 0.120490
batch: 21 Training Loss: 0.116076
batch: 22 Training Loss: 0.118248
batch: 23 Training Loss: 0.116056

batch: 24 Training Loss: 0.114181
batch: 25 Training Loss: 0.110557
batch: 26 Training Loss: 0.111982
batch: 27 Training Loss: 0.108314
batch: 28 Training Loss: 0.105744
batch: 29 Training Loss: 0.108289
batch: 30 Training Loss: 0.105675
batch: 31 Training Loss: 0.102704
batch: 32 Training Loss: 0.105606
batch: 33 Training Loss: 0.107284
batch: 34 Training Loss: 0.105705
batch: 35 Training Loss: 0.106389
batch: 36 Training Loss: 0.104220
batch: 37 Training Loss: 0.105742
batch: 38 Training Loss: 0.106489
batch: 39 Training Loss: 0.106259
batch: 40 Training Loss: 0.106507
batch: 41 Training Loss: 0.107263
batch: 42 Training Loss: 0.105918
batch: 43 Training Loss: 0.106240
batch: 44 Training Loss: 0.111327
batch: 45 Training Loss: 0.112407
batch: 46 Training Loss: 0.110962
batch: 47 Training Loss: 0.108863
batch: 48 Training Loss: 0.112154
batch: 49 Training Loss: 0.111277
batch: 50 Training Loss: 0.114258
batch: 51 Training Loss: 0.114907
batch: 52 Training Loss: 0.115357
batch: 53 Training Loss: 0.114833
batch: 54 Training Loss: 0.113446
batch: 55 Training Loss: 0.114450
batch: 56 Training Loss: 0.115207
batch: 57 Training Loss: 0.113830
batch: 58 Training Loss: 0.116791
batch: 59 Training Loss: 0.116989
batch: 60 Training Loss: 0.118125
batch: 61 Training Loss: 0.120092
batch: 62 Training Loss: 0.118876
batch: 63 Training Loss: 0.118429
batch: 64 Training Loss: 0.120383
batch: 65 Training Loss: 0.119007
batch: 66 Training Loss: 0.118694
batch: 67 Training Loss: 0.119507
batch: 68 Training Loss: 0.119317
batch: 69 Training Loss: 0.118435
batch: 70 Training Loss: 0.117695
batch: 71 Training Loss: 0.118593
batch: 72 Training Loss: 0.117252
batch: 73 Training Loss: 0.116315
batch: 74 Training Loss: 0.119382
batch: 75 Training Loss: 0.118966
batch: 76 Training Loss: 0.120236
batch: 77 Training Loss: 0.119829
batch: 78 Training Loss: 0.120955
batch: 79 Training Loss: 0.120541
batch: 80 Training Loss: 0.119525
batch: 81 Training Loss: 0.119603
batch: 82 Training Loss: 0.119529
batch: 83 Training Loss: 0.119297
batch: 84 Training Loss: 0.119344
batch: 85 Training Loss: 0.120628
batch: 86 Training Loss: 0.120194
batch: 87 Training Loss: 0.119123
batch: 88 Training Loss: 0.119113
batch: 89 Training Loss: 0.118905
batch: 90 Training Loss: 0.118211
batch: 91 Training Loss: 0.119062
batch: 92 Training Loss: 0.119212
batch: 93 Training Loss: 0.119249
batch: 94 Training Loss: 0.118809
batch: 95 Training Loss: 0.118408
batch: 96 Training Loss: 0.118627
batch: 97 Training Loss: 0.118736
batch: 98 Training Loss: 0.118904
batch: 99 Training Loss: 0.121211
batch: 100 Training Loss: 0.121478
batch: 101 Training Loss: 0.120844
batch: 102 Training Loss: 0.121595
batch: 103 Training Loss: 0.120576
batch: 104 Training Loss: 0.121503
batch: 105 Training Loss: 0.120959
batch: 106 Training Loss: 0.120255
batch: 107 Training Loss: 0.120985
batch: 108 Training Loss: 0.121060
batch: 109 Training Loss: 0.120704
batch: 110 Training Loss: 0.119689
batch: 111 Training Loss: 0.119403
batch: 112 Training Loss: 0.119138
batch: 113 Training Loss: 0.118418
batch: 114 Training Loss: 0.117660

batch: 115 Training Loss: 0.118694
batch: 116 Training Loss: 0.118858
batch: 117 Training Loss: 0.118293
batch: 118 Training Loss: 0.117648
batch: 119 Training Loss: 0.117678
batch: 120 Training Loss: 0.118356
batch: 121 Training Loss: 0.117482
batch: 122 Training Loss: 0.117262
batch: 123 Training Loss: 0.117765
batch: 124 Training Loss: 0.117388
batch: 125 Training Loss: 0.116759
batch: 126 Training Loss: 0.116602
batch: 127 Training Loss: 0.116627
batch: 128 Training Loss: 0.116034
batch: 129 Training Loss: 0.115917
batch: 130 Training Loss: 0.116344
batch: 131 Training Loss: 0.117301
batch: 132 Training Loss: 0.116632
batch: 133 Training Loss: 0.116183
batch: 134 Training Loss: 0.116466
batch: 135 Training Loss: 0.115714
batch: 136 Training Loss: 0.115804
batch: 137 Training Loss: 0.116047
batch: 138 Training Loss: 0.115902
batch: 139 Training Loss: 0.117019
batch: 140 Training Loss: 0.116815
batch: 141 Training Loss: 0.117023
batch: 142 Training Loss: 0.117845
batch: 143 Training Loss: 0.117514
batch: 144 Training Loss: 0.117625
batch: 145 Training Loss: 0.119319
batch: 146 Training Loss: 0.119508
batch: 147 Training Loss: 0.119207
batch: 148 Training Loss: 0.118537
batch: 149 Training Loss: 0.119645
batch: 150 Training Loss: 0.119353
batch: 151 Training Loss: 0.119016
batch: 152 Training Loss: 0.118494
batch: 153 Training Loss: 0.119207
batch: 154 Training Loss: 0.118866
batch: 155 Training Loss: 0.119379
batch: 156 Training Loss: 0.119491
batch: 157 Training Loss: 0.118918
batch: 158 Training Loss: 0.118336
batch: 159 Training Loss: 0.117998
batch: 160 Training Loss: 0.118967
batch: 161 Training Loss: 0.118858
batch: 162 Training Loss: 0.120454
batch: 163 Training Loss: 0.120237
batch: 164 Training Loss: 0.119907
batch: 165 Training Loss: 0.119270
batch: 166 Training Loss: 0.119118
batch: 167 Training Loss: 0.118652
batch: 168 Training Loss: 0.118016
batch: 169 Training Loss: 0.118670
batch: 170 Training Loss: 0.119011
batch: 171 Training Loss: 0.118544
batch: 172 Training Loss: 0.118947
batch: 173 Training Loss: 0.118451
batch: 174 Training Loss: 0.117882
batch: 175 Training Loss: 0.119944
batch: 176 Training Loss: 0.122171
batch: 177 Training Loss: 0.121719
batch: 178 Training Loss: 0.121330
batch: 179 Training Loss: 0.121202
batch: 180 Training Loss: 0.121429
batch: 181 Training Loss: 0.121746
batch: 182 Training Loss: 0.121563
batch: 183 Training Loss: 0.121447
batch: 184 Training Loss: 0.122116
batch: 185 Training Loss: 0.122361
batch: 186 Training Loss: 0.121875
batch: 187 Training Loss: 0.121862
batch: 188 Training Loss: 0.122639
batch: 189 Training Loss: 0.122508
batch: 190 Training Loss: 0.122887
batch: 191 Training Loss: 0.122487
batch: 192 Training Loss: 0.121965
batch: 193 Training Loss: 0.122710
batch: 194 Training Loss: 0.123281
batch: 195 Training Loss: 0.123015
batch: 196 Training Loss: 0.124157
batch: 197 Training Loss: 0.124674
batch: 198 Training Loss: 0.124497
batch: 199 Training Loss: 0.124003
batch: 200 Training Loss: 0.123495
batch: 201 Training Loss: 0.123338
batch: 202 Training Loss: 0.124366
batch: 203 Training Loss: 0.125287
batch: 204 Training Loss: 0.125031
batch: 205 Training Loss: 0.125239

batch: 206 Training Loss: 0.125241
batch: 207 Training Loss: 0.124855
batch: 208 Training Loss: 0.124756
Epoch: 75 Training Loss: 0.124756 Validation Loss: 1.807530
batch: 0 Training Loss: 0.026956
batch: 1 Training Loss: 0.092176
batch: 2 Training Loss: 0.064476
batch: 3 Training Loss: 0.078822
batch: 4 Training Loss: 0.081609
batch: 5 Training Loss: 0.070883
batch: 6 Training Loss: 0.072968
batch: 7 Training Loss: 0.072627
batch: 8 Training Loss: 0.073537
batch: 9 Training Loss: 0.094044
batch: 10 Training Loss: 0.088384
batch: 11 Training Loss: 0.084648
batch: 12 Training Loss: 0.087978
batch: 13 Training Loss: 0.093407
batch: 14 Training Loss: 0.091550
batch: 15 Training Loss: 0.090062
batch: 16 Training Loss: 0.088631
batch: 17 Training Loss: 0.085843
batch: 18 Training Loss: 0.084291
batch: 19 Training Loss: 0.087148
batch: 20 Training Loss: 0.085756
batch: 21 Training Loss: 0.083245
batch: 22 Training Loss: 0.086261
batch: 23 Training Loss: 0.105014
batch: 24 Training Loss: 0.109525
batch: 25 Training Loss: 0.112053
batch: 26 Training Loss: 0.108724
batch: 27 Training Loss: 0.111133
batch: 28 Training Loss: 0.113201
batch: 29 Training Loss: 0.119517
batch: 30 Training Loss: 0.119245
batch: 31 Training Loss: 0.118782
batch: 32 Training Loss: 0.116671
batch: 33 Training Loss: 0.115001
batch: 34 Training Loss: 0.116310
batch: 35 Training Loss: 0.114798
batch: 36 Training Loss: 0.116196
batch: 37 Training Loss: 0.115302
batch: 38 Training Loss: 0.120923
batch: 39 Training Loss: 0.119606
batch: 40 Training Loss: 0.117871
batch: 41 Training Loss: 0.116114
batch: 42 Training Loss: 0.116027
batch: 43 Training Loss: 0.128107
batch: 44 Training Loss: 0.127269
batch: 45 Training Loss: 0.125047
batch: 46 Training Loss: 0.127552
batch: 47 Training Loss: 0.132225
batch: 48 Training Loss: 0.130608
batch: 49 Training Loss: 0.130118
batch: 50 Training Loss: 0.128362
batch: 51 Training Loss: 0.129527
batch: 52 Training Loss: 0.130218
batch: 53 Training Loss: 0.128745
batch: 54 Training Loss: 0.128401
batch: 55 Training Loss: 0.126939
batch: 56 Training Loss: 0.126197
batch: 57 Training Loss: 0.133216
batch: 58 Training Loss: 0.131449
batch: 59 Training Loss: 0.130946
batch: 60 Training Loss: 0.134235
batch: 61 Training Loss: 0.136111
batch: 62 Training Loss: 0.134921
batch: 63 Training Loss: 0.145162
batch: 64 Training Loss: 0.143984
batch: 65 Training Loss: 0.143454
batch: 66 Training Loss: 0.143536
batch: 67 Training Loss: 0.141616
batch: 68 Training Loss: 0.143710
batch: 69 Training Loss: 0.141814
batch: 70 Training Loss: 0.142413
batch: 71 Training Loss: 0.142763
batch: 72 Training Loss: 0.141157
batch: 73 Training Loss: 0.140954
batch: 74 Training Loss: 0.139485
batch: 75 Training Loss: 0.138410
batch: 76 Training Loss: 0.139729
batch: 77 Training Loss: 0.138061
batch: 78 Training Loss: 0.137632
batch: 79 Training Loss: 0.136415
batch: 80 Training Loss: 0.135120
batch: 81 Training Loss: 0.133908
batch: 82 Training Loss: 0.133154
batch: 83 Training Loss: 0.132705
batch: 84 Training Loss: 0.131656
batch: 85 Training Loss: 0.130349
batch: 86 Training Loss: 0.129211

batch: 87 Training Loss: 0.130677
batch: 88 Training Loss: 0.131896
batch: 89 Training Loss: 0.131191
batch: 90 Training Loss: 0.130424
batch: 91 Training Loss: 0.130373
batch: 92 Training Loss: 0.130031
batch: 93 Training Loss: 0.131286
batch: 94 Training Loss: 0.130857
batch: 95 Training Loss: 0.129894
batch: 96 Training Loss: 0.129681
batch: 97 Training Loss: 0.129093
batch: 98 Training Loss: 0.128118
batch: 99 Training Loss: 0.129029
batch: 100 Training Loss: 0.128812
batch: 101 Training Loss: 0.127593
batch: 102 Training Loss: 0.127712
batch: 103 Training Loss: 0.127988
batch: 104 Training Loss: 0.127195
batch: 105 Training Loss: 0.126581
batch: 106 Training Loss: 0.125705
batch: 107 Training Loss: 0.126111
batch: 108 Training Loss: 0.125779
batch: 109 Training Loss: 0.127128
batch: 110 Training Loss: 0.129285
batch: 111 Training Loss: 0.130328
batch: 112 Training Loss: 0.132929
batch: 113 Training Loss: 0.131829
batch: 114 Training Loss: 0.131916
batch: 115 Training Loss: 0.132386
batch: 116 Training Loss: 0.137652
batch: 117 Training Loss: 0.136924
batch: 118 Training Loss: 0.138639
batch: 119 Training Loss: 0.138097
batch: 120 Training Loss: 0.137261
batch: 121 Training Loss: 0.136646
batch: 122 Training Loss: 0.137018
batch: 123 Training Loss: 0.137305
batch: 124 Training Loss: 0.136684
batch: 125 Training Loss: 0.136771
batch: 126 Training Loss: 0.135779
batch: 127 Training Loss: 0.136098
batch: 128 Training Loss: 0.137205
batch: 129 Training Loss: 0.137020
batch: 130 Training Loss: 0.136369
batch: 131 Training Loss: 0.135666
batch: 132 Training Loss: 0.136366
batch: 133 Training Loss: 0.135979
batch: 134 Training Loss: 0.136112
batch: 135 Training Loss: 0.137768
batch: 136 Training Loss: 0.137421
batch: 137 Training Loss: 0.137323
batch: 138 Training Loss: 0.136565
batch: 139 Training Loss: 0.136847
batch: 140 Training Loss: 0.137957
batch: 141 Training Loss: 0.137223
batch: 142 Training Loss: 0.137437
batch: 143 Training Loss: 0.137130
batch: 144 Training Loss: 0.136490
batch: 145 Training Loss: 0.135845
batch: 146 Training Loss: 0.135932
batch: 147 Training Loss: 0.135403
batch: 148 Training Loss: 0.135401
batch: 149 Training Loss: 0.135285
batch: 150 Training Loss: 0.134959
batch: 151 Training Loss: 0.134956
batch: 152 Training Loss: 0.134437
batch: 153 Training Loss: 0.136917
batch: 154 Training Loss: 0.136681
batch: 155 Training Loss: 0.136153
batch: 156 Training Loss: 0.136778
batch: 157 Training Loss: 0.137317
batch: 158 Training Loss: 0.136780
batch: 159 Training Loss: 0.136228
batch: 160 Training Loss: 0.135896
batch: 161 Training Loss: 0.135659
batch: 162 Training Loss: 0.135756
batch: 163 Training Loss: 0.136601
batch: 164 Training Loss: 0.136125
batch: 165 Training Loss: 0.135626
batch: 166 Training Loss: 0.135058
batch: 167 Training Loss: 0.134376
batch: 168 Training Loss: 0.133930
batch: 169 Training Loss: 0.133543
batch: 170 Training Loss: 0.132982
batch: 171 Training Loss: 0.132412
batch: 172 Training Loss: 0.132079
batch: 173 Training Loss: 0.132100
batch: 174 Training Loss: 0.133542
batch: 175 Training Loss: 0.133647
batch: 176 Training Loss: 0.133278
batch: 177 Training Loss: 0.132705

batch: 178 Training Loss: 0.132117
batch: 179 Training Loss: 0.132488
batch: 180 Training Loss: 0.132250
batch: 181 Training Loss: 0.132188
batch: 182 Training Loss: 0.131712
batch: 183 Training Loss: 0.131383
batch: 184 Training Loss: 0.132678
batch: 185 Training Loss: 0.132302
batch: 186 Training Loss: 0.132900
batch: 187 Training Loss: 0.132704
batch: 188 Training Loss: 0.132187
batch: 189 Training Loss: 0.132424
batch: 190 Training Loss: 0.132459
batch: 191 Training Loss: 0.132141
batch: 192 Training Loss: 0.131533
batch: 193 Training Loss: 0.131674
batch: 194 Training Loss: 0.131274
batch: 195 Training Loss: 0.130723
batch: 196 Training Loss: 0.131287
batch: 197 Training Loss: 0.132188
batch: 198 Training Loss: 0.132741
batch: 199 Training Loss: 0.132313
batch: 200 Training Loss: 0.131803
batch: 201 Training Loss: 0.131991
batch: 202 Training Loss: 0.131832
batch: 203 Training Loss: 0.131685
batch: 204 Training Loss: 0.131753
batch: 205 Training Loss: 0.131298
batch: 206 Training Loss: 0.130829
batch: 207 Training Loss: 0.130934
batch: 208 Training Loss: 0.130593
Epoch: 76 Training Loss: 0.130593 Validation Loss: 1.355570
batch: 0 Training Loss: 0.095517
batch: 1 Training Loss: 0.161116
batch: 2 Training Loss: 0.133569
batch: 3 Training Loss: 0.187929
batch: 4 Training Loss: 0.182458
batch: 5 Training Loss: 0.169718
batch: 6 Training Loss: 0.148972
batch: 7 Training Loss: 0.165594
batch: 8 Training Loss: 0.162786
batch: 9 Training Loss: 0.154602
batch: 10 Training Loss: 0.151789
batch: 11 Training Loss: 0.149635
batch: 12 Training Loss: 0.146133
batch: 13 Training Loss: 0.139998
batch: 14 Training Loss: 0.140385
batch: 15 Training Loss: 0.139008
batch: 16 Training Loss: 0.137966
batch: 17 Training Loss: 0.135154
batch: 18 Training Loss: 0.136622
batch: 19 Training Loss: 0.139643
batch: 20 Training Loss: 0.140886
batch: 21 Training Loss: 0.136884
batch: 22 Training Loss: 0.132752
batch: 23 Training Loss: 0.132712
batch: 24 Training Loss: 0.136998
batch: 25 Training Loss: 0.132589
batch: 26 Training Loss: 0.135837
batch: 27 Training Loss: 0.134352
batch: 28 Training Loss: 0.134387
batch: 29 Training Loss: 0.133682
batch: 30 Training Loss: 0.130570
batch: 31 Training Loss: 0.132241
batch: 32 Training Loss: 0.130379
batch: 33 Training Loss: 0.128529
batch: 34 Training Loss: 0.127234
batch: 35 Training Loss: 0.127238
batch: 36 Training Loss: 0.125108
batch: 37 Training Loss: 0.124103
batch: 38 Training Loss: 0.127056
batch: 39 Training Loss: 0.127986
batch: 40 Training Loss: 0.128608
batch: 41 Training Loss: 0.130018
batch: 42 Training Loss: 0.127847
batch: 43 Training Loss: 0.125995
batch: 44 Training Loss: 0.124797
batch: 45 Training Loss: 0.122741
batch: 46 Training Loss: 0.120991
batch: 47 Training Loss: 0.121312
batch: 48 Training Loss: 0.120501
batch: 49 Training Loss: 0.119175
batch: 50 Training Loss: 0.120585
batch: 51 Training Loss: 0.122231
batch: 52 Training Loss: 0.121671
batch: 53 Training Loss: 0.120498
batch: 54 Training Loss: 0.119911
batch: 55 Training Loss: 0.118208
batch: 56 Training Loss: 0.118177
batch: 57 Training Loss: 0.118212
batch: 58 Training Loss: 0.117487

batch: 59 Training Loss: 0.118352
batch: 60 Training Loss: 0.117958
batch: 61 Training Loss: 0.116503
batch: 62 Training Loss: 0.119553
batch: 63 Training Loss: 0.119043
batch: 64 Training Loss: 0.117843
batch: 65 Training Loss: 0.117676
batch: 66 Training Loss: 0.116375
batch: 67 Training Loss: 0.119019
batch: 68 Training Loss: 0.119007
batch: 69 Training Loss: 0.122820
batch: 70 Training Loss: 0.122322
batch: 71 Training Loss: 0.120869
batch: 72 Training Loss: 0.120338
batch: 73 Training Loss: 0.119121
batch: 74 Training Loss: 0.119240
batch: 75 Training Loss: 0.118292
batch: 76 Training Loss: 0.119004
batch: 77 Training Loss: 0.119343
batch: 78 Training Loss: 0.118599
batch: 79 Training Loss: 0.120724
batch: 80 Training Loss: 0.120591
batch: 81 Training Loss: 0.119907
batch: 82 Training Loss: 0.124902
batch: 83 Training Loss: 0.123655
batch: 84 Training Loss: 0.123008
batch: 85 Training Loss: 0.122745
batch: 86 Training Loss: 0.123433
batch: 87 Training Loss: 0.123946
batch: 88 Training Loss: 0.123669
batch: 89 Training Loss: 0.122789
batch: 90 Training Loss: 0.121992
batch: 91 Training Loss: 0.121013
batch: 92 Training Loss: 0.121020
batch: 93 Training Loss: 0.120734
batch: 94 Training Loss: 0.119844
batch: 95 Training Loss: 0.120201
batch: 96 Training Loss: 0.119450
batch: 97 Training Loss: 0.120520
batch: 98 Training Loss: 0.121147
batch: 99 Training Loss: 0.121688
batch: 100 Training Loss: 0.123534
batch: 101 Training Loss: 0.123141
batch: 102 Training Loss: 0.122703
batch: 103 Training Loss: 0.122793
batch: 104 Training Loss: 0.122407
batch: 105 Training Loss: 0.126282
batch: 106 Training Loss: 0.125744
batch: 107 Training Loss: 0.125764
batch: 108 Training Loss: 0.126297
batch: 109 Training Loss: 0.126021
batch: 110 Training Loss: 0.126269
batch: 111 Training Loss: 0.125761
batch: 112 Training Loss: 0.125126
batch: 113 Training Loss: 0.126216
batch: 114 Training Loss: 0.125549
batch: 115 Training Loss: 0.125118
batch: 116 Training Loss: 0.125031
batch: 117 Training Loss: 0.124285
batch: 118 Training Loss: 0.123686
batch: 119 Training Loss: 0.123024
batch: 120 Training Loss: 0.124863
batch: 121 Training Loss: 0.123923
batch: 122 Training Loss: 0.123495
batch: 123 Training Loss: 0.124161
batch: 124 Training Loss: 0.123520
batch: 125 Training Loss: 0.123559
batch: 126 Training Loss: 0.122881
batch: 127 Training Loss: 0.122866
batch: 128 Training Loss: 0.122403
batch: 129 Training Loss: 0.124028
batch: 130 Training Loss: 0.123991
batch: 131 Training Loss: 0.123246
batch: 132 Training Loss: 0.123467
batch: 133 Training Loss: 0.124278
batch: 134 Training Loss: 0.124940
batch: 135 Training Loss: 0.124440
batch: 136 Training Loss: 0.123968
batch: 137 Training Loss: 0.124150
batch: 138 Training Loss: 0.125980
batch: 139 Training Loss: 0.125501
batch: 140 Training Loss: 0.125085
batch: 141 Training Loss: 0.124889
batch: 142 Training Loss: 0.126091
batch: 143 Training Loss: 0.126648
batch: 144 Training Loss: 0.125827
batch: 145 Training Loss: 0.127009
batch: 146 Training Loss: 0.129762
batch: 147 Training Loss: 0.129212
batch: 148 Training Loss: 0.130593
batch: 149 Training Loss: 0.130943

batch: 150 Training Loss: 0.131194
batch: 151 Training Loss: 0.130640
batch: 152 Training Loss: 0.132583
batch: 153 Training Loss: 0.132103
batch: 154 Training Loss: 0.131439
batch: 155 Training Loss: 0.131421
batch: 156 Training Loss: 0.131212
batch: 157 Training Loss: 0.131449
batch: 158 Training Loss: 0.131506
batch: 159 Training Loss: 0.131504
batch: 160 Training Loss: 0.130851
batch: 161 Training Loss: 0.132297
batch: 162 Training Loss: 0.132997
batch: 163 Training Loss: 0.133088
batch: 164 Training Loss: 0.132617
batch: 165 Training Loss: 0.132506
batch: 166 Training Loss: 0.132079
batch: 167 Training Loss: 0.131568
batch: 168 Training Loss: 0.130953
batch: 169 Training Loss: 0.130780
batch: 170 Training Loss: 0.132209
batch: 171 Training Loss: 0.131615
batch: 172 Training Loss: 0.131849
batch: 173 Training Loss: 0.131296
batch: 174 Training Loss: 0.131316
batch: 175 Training Loss: 0.132483
batch: 176 Training Loss: 0.132119
batch: 177 Training Loss: 0.132291
batch: 178 Training Loss: 0.131844
batch: 179 Training Loss: 0.131853
batch: 180 Training Loss: 0.131313
batch: 181 Training Loss: 0.130907
batch: 182 Training Loss: 0.130838
batch: 183 Training Loss: 0.133016
batch: 184 Training Loss: 0.134381
batch: 185 Training Loss: 0.134494
batch: 186 Training Loss: 0.134208
batch: 187 Training Loss: 0.134236
batch: 188 Training Loss: 0.133645
batch: 189 Training Loss: 0.133092
batch: 190 Training Loss: 0.133275
batch: 191 Training Loss: 0.132742
batch: 192 Training Loss: 0.134110
batch: 193 Training Loss: 0.133754
batch: 194 Training Loss: 0.133297
batch: 195 Training Loss: 0.132862
batch: 196 Training Loss: 0.132380
batch: 197 Training Loss: 0.132101
batch: 198 Training Loss: 0.131903
batch: 199 Training Loss: 0.131531
batch: 200 Training Loss: 0.131429
batch: 201 Training Loss: 0.130952
batch: 202 Training Loss: 0.132084
batch: 203 Training Loss: 0.132148
batch: 204 Training Loss: 0.131640
batch: 205 Training Loss: 0.131497
batch: 206 Training Loss: 0.130996
batch: 207 Training Loss: 0.131559
batch: 208 Training Loss: 0.130994
Epoch: 77 Training Loss: 0.130994 Validation Loss: 1.286262
batch: 0 Training Loss: 0.243295
batch: 1 Training Loss: 0.155807
batch: 2 Training Loss: 0.115266
batch: 3 Training Loss: 0.088669
batch: 4 Training Loss: 0.080465
batch: 5 Training Loss: 0.072819
batch: 6 Training Loss: 0.078514
batch: 7 Training Loss: 0.081772
batch: 8 Training Loss: 0.080444
batch: 9 Training Loss: 0.074352
batch: 10 Training Loss: 0.072179
batch: 11 Training Loss: 0.078092
batch: 12 Training Loss: 0.074416
batch: 13 Training Loss: 0.073920
batch: 14 Training Loss: 0.070871
batch: 15 Training Loss: 0.076742
batch: 16 Training Loss: 0.077858
batch: 17 Training Loss: 0.080506
batch: 18 Training Loss: 0.078862
batch: 19 Training Loss: 0.075285
batch: 20 Training Loss: 0.072479
batch: 21 Training Loss: 0.073961
batch: 22 Training Loss: 0.072618
batch: 23 Training Loss: 0.071549
batch: 24 Training Loss: 0.074462
batch: 25 Training Loss: 0.076517
batch: 26 Training Loss: 0.077284
batch: 27 Training Loss: 0.076709
batch: 28 Training Loss: 0.077099
batch: 29 Training Loss: 0.078341
batch: 30 Training Loss: 0.077897

batch: 31 Training Loss: 0.076747
batch: 32 Training Loss: 0.077568
batch: 33 Training Loss: 0.075805
batch: 34 Training Loss: 0.075233
batch: 35 Training Loss: 0.074821
batch: 36 Training Loss: 0.073598
batch: 37 Training Loss: 0.072820
batch: 38 Training Loss: 0.071847
batch: 39 Training Loss: 0.080592
batch: 40 Training Loss: 0.080176
batch: 41 Training Loss: 0.080898
batch: 42 Training Loss: 0.081473
batch: 43 Training Loss: 0.080986
batch: 44 Training Loss: 0.080114
batch: 45 Training Loss: 0.080887
batch: 46 Training Loss: 0.079812
batch: 47 Training Loss: 0.081519
batch: 48 Training Loss: 0.081093
batch: 49 Training Loss: 0.081934
batch: 50 Training Loss: 0.083442
batch: 51 Training Loss: 0.082812
batch: 52 Training Loss: 0.082307
batch: 53 Training Loss: 0.081183
batch: 54 Training Loss: 0.080373
batch: 55 Training Loss: 0.081043
batch: 56 Training Loss: 0.083211
batch: 57 Training Loss: 0.083912
batch: 58 Training Loss: 0.085697
batch: 59 Training Loss: 0.088066
batch: 60 Training Loss: 0.088872
batch: 61 Training Loss: 0.088257
batch: 62 Training Loss: 0.087771
batch: 63 Training Loss: 0.086779
batch: 64 Training Loss: 0.090222
batch: 65 Training Loss: 0.091866
batch: 66 Training Loss: 0.092291
batch: 67 Training Loss: 0.094035
batch: 68 Training Loss: 0.093365
batch: 69 Training Loss: 0.092829
batch: 70 Training Loss: 0.094549
batch: 71 Training Loss: 0.093948
batch: 72 Training Loss: 0.094606
batch: 73 Training Loss: 0.094390
batch: 74 Training Loss: 0.096829
batch: 75 Training Loss: 0.096751
batch: 76 Training Loss: 0.095567
batch: 77 Training Loss: 0.094800
batch: 78 Training Loss: 0.094358
batch: 79 Training Loss: 0.095874
batch: 80 Training Loss: 0.096260
batch: 81 Training Loss: 0.097529
batch: 82 Training Loss: 0.097547
batch: 83 Training Loss: 0.098591
batch: 84 Training Loss: 0.100773
batch: 85 Training Loss: 0.100459
batch: 86 Training Loss: 0.101647
batch: 87 Training Loss: 0.101166
batch: 88 Training Loss: 0.100481
batch: 89 Training Loss: 0.102457
batch: 90 Training Loss: 0.102994
batch: 91 Training Loss: 0.102253
batch: 92 Training Loss: 0.101394
batch: 93 Training Loss: 0.103027
batch: 94 Training Loss: 0.103801
batch: 95 Training Loss: 0.103384
batch: 96 Training Loss: 0.106503
batch: 97 Training Loss: 0.106668
batch: 98 Training Loss: 0.106221
batch: 99 Training Loss: 0.105784
batch: 100 Training Loss: 0.106855
batch: 101 Training Loss: 0.107051
batch: 102 Training Loss: 0.113037
batch: 103 Training Loss: 0.114671
batch: 104 Training Loss: 0.120443
batch: 105 Training Loss: 0.120867
batch: 106 Training Loss: 0.120485
batch: 107 Training Loss: 0.120821
batch: 108 Training Loss: 0.120301
batch: 109 Training Loss: 0.121331
batch: 110 Training Loss: 0.121080
batch: 111 Training Loss: 0.120645
batch: 112 Training Loss: 0.121699
batch: 113 Training Loss: 0.121993
batch: 114 Training Loss: 0.122633
batch: 115 Training Loss: 0.122099
batch: 116 Training Loss: 0.121230
batch: 117 Training Loss: 0.120425
batch: 118 Training Loss: 0.119473
batch: 119 Training Loss: 0.118785
batch: 120 Training Loss: 0.120118
batch: 121 Training Loss: 0.119403

batch: 122 Training Loss: 0.118604
batch: 123 Training Loss: 0.117729
batch: 124 Training Loss: 0.117230
batch: 125 Training Loss: 0.117181
batch: 126 Training Loss: 0.117217
batch: 127 Training Loss: 0.119144
batch: 128 Training Loss: 0.119422
batch: 129 Training Loss: 0.119037
batch: 130 Training Loss: 0.119160
batch: 131 Training Loss: 0.119284
batch: 132 Training Loss: 0.124900
batch: 133 Training Loss: 0.126077
batch: 134 Training Loss: 0.125759
batch: 135 Training Loss: 0.126467
batch: 136 Training Loss: 0.126761
batch: 137 Training Loss: 0.126685
batch: 138 Training Loss: 0.128979
batch: 139 Training Loss: 0.129561
batch: 140 Training Loss: 0.130205
batch: 141 Training Loss: 0.130011
batch: 142 Training Loss: 0.130107
batch: 143 Training Loss: 0.129379
batch: 144 Training Loss: 0.133559
batch: 145 Training Loss: 0.133564
batch: 146 Training Loss: 0.133385
batch: 147 Training Loss: 0.133564
batch: 148 Training Loss: 0.134139
batch: 149 Training Loss: 0.133609
batch: 150 Training Loss: 0.136287
batch: 151 Training Loss: 0.135486
batch: 152 Training Loss: 0.134794
batch: 153 Training Loss: 0.134084
batch: 154 Training Loss: 0.134035
batch: 155 Training Loss: 0.133639
batch: 156 Training Loss: 0.133254
batch: 157 Training Loss: 0.132549
batch: 158 Training Loss: 0.132059
batch: 159 Training Loss: 0.132303
batch: 160 Training Loss: 0.133384
batch: 161 Training Loss: 0.132717
batch: 162 Training Loss: 0.134945
batch: 163 Training Loss: 0.135063
batch: 164 Training Loss: 0.135605
batch: 165 Training Loss: 0.135811
batch: 166 Training Loss: 0.135443
batch: 167 Training Loss: 0.135275
batch: 168 Training Loss: 0.135034
batch: 169 Training Loss: 0.134912
batch: 170 Training Loss: 0.135053
batch: 171 Training Loss: 0.134723
batch: 172 Training Loss: 0.134577
batch: 173 Training Loss: 0.136243
batch: 174 Training Loss: 0.135921
batch: 175 Training Loss: 0.136423
batch: 176 Training Loss: 0.136144
batch: 177 Training Loss: 0.135821
batch: 178 Training Loss: 0.135511
batch: 179 Training Loss: 0.135264
batch: 180 Training Loss: 0.135779
batch: 181 Training Loss: 0.138066
batch: 182 Training Loss: 0.139497
batch: 183 Training Loss: 0.139436
batch: 184 Training Loss: 0.139216
batch: 185 Training Loss: 0.139328
batch: 186 Training Loss: 0.141438
batch: 187 Training Loss: 0.141772
batch: 188 Training Loss: 0.141235
batch: 189 Training Loss: 0.141070
batch: 190 Training Loss: 0.140884
batch: 191 Training Loss: 0.141179
batch: 192 Training Loss: 0.142885
batch: 193 Training Loss: 0.143993
batch: 194 Training Loss: 0.143648
batch: 195 Training Loss: 0.143806
batch: 196 Training Loss: 0.143492
batch: 197 Training Loss: 0.144988
batch: 198 Training Loss: 0.144867
batch: 199 Training Loss: 0.144308
batch: 200 Training Loss: 0.143936
batch: 201 Training Loss: 0.143726
batch: 202 Training Loss: 0.143663
batch: 203 Training Loss: 0.143092
batch: 204 Training Loss: 0.143884
batch: 205 Training Loss: 0.143738
batch: 206 Training Loss: 0.143476
batch: 207 Training Loss: 0.142905
batch: 208 Training Loss: 0.143281
Epoch: 78 Training Loss: 0.143281 Validation Loss: 1.361197
batch: 0 Training Loss: 0.113788
batch: 1 Training Loss: 0.097753
batch: 2 Training Loss: 0.092950

batch: 3 Training Loss: 0.124693
batch: 4 Training Loss: 0.115394
batch: 5 Training Loss: 0.120494
batch: 6 Training Loss: 0.118622
batch: 7 Training Loss: 0.116218
batch: 8 Training Loss: 0.119689
batch: 9 Training Loss: 0.119834
batch: 10 Training Loss: 0.117397
batch: 11 Training Loss: 0.124266
batch: 12 Training Loss: 0.127580
batch: 13 Training Loss: 0.127838
batch: 14 Training Loss: 0.132530
batch: 15 Training Loss: 0.128419
batch: 16 Training Loss: 0.129504
batch: 17 Training Loss: 0.127447
batch: 18 Training Loss: 0.140034
batch: 19 Training Loss: 0.138880
batch: 20 Training Loss: 0.135167
batch: 21 Training Loss: 0.135034
batch: 22 Training Loss: 0.139177
batch: 23 Training Loss: 0.137612
batch: 24 Training Loss: 0.138297
batch: 25 Training Loss: 0.138386
batch: 26 Training Loss: 0.135815
batch: 27 Training Loss: 0.131376
batch: 28 Training Loss: 0.128782
batch: 29 Training Loss: 0.128502
batch: 30 Training Loss: 0.127332
batch: 31 Training Loss: 0.123866
batch: 32 Training Loss: 0.120316
batch: 33 Training Loss: 0.117385
batch: 34 Training Loss: 0.114590
batch: 35 Training Loss: 0.113650
batch: 36 Training Loss: 0.114196
batch: 37 Training Loss: 0.112914
batch: 38 Training Loss: 0.111624
batch: 39 Training Loss: 0.110466
batch: 40 Training Loss: 0.109912
batch: 41 Training Loss: 0.107969
batch: 42 Training Loss: 0.107562
batch: 43 Training Loss: 0.108855
batch: 44 Training Loss: 0.108442
batch: 45 Training Loss: 0.108953
batch: 46 Training Loss: 0.109173
batch: 47 Training Loss: 0.109295
batch: 48 Training Loss: 0.107605
batch: 49 Training Loss: 0.109775
batch: 50 Training Loss: 0.118553
batch: 51 Training Loss: 0.118908
batch: 52 Training Loss: 0.117942
batch: 53 Training Loss: 0.118883
batch: 54 Training Loss: 0.117497
batch: 55 Training Loss: 0.116030
batch: 56 Training Loss: 0.114919
batch: 57 Training Loss: 0.114333
batch: 58 Training Loss: 0.116538
batch: 59 Training Loss: 0.117887
batch: 60 Training Loss: 0.121848
batch: 61 Training Loss: 0.121624
batch: 62 Training Loss: 0.122751
batch: 63 Training Loss: 0.121332
batch: 64 Training Loss: 0.120819
batch: 65 Training Loss: 0.123282
batch: 66 Training Loss: 0.124287
batch: 67 Training Loss: 0.124098
batch: 68 Training Loss: 0.126531
batch: 69 Training Loss: 0.129209
batch: 70 Training Loss: 0.130350
batch: 71 Training Loss: 0.128996
batch: 72 Training Loss: 0.127836
batch: 73 Training Loss: 0.126857
batch: 74 Training Loss: 0.125651
batch: 75 Training Loss: 0.125102
batch: 76 Training Loss: 0.124123
batch: 77 Training Loss: 0.124690
batch: 78 Training Loss: 0.124921
batch: 79 Training Loss: 0.124019
batch: 80 Training Loss: 0.123346
batch: 81 Training Loss: 0.122908
batch: 82 Training Loss: 0.122433
batch: 83 Training Loss: 0.121228
batch: 84 Training Loss: 0.120637
batch: 85 Training Loss: 0.121339
batch: 86 Training Loss: 0.120232
batch: 87 Training Loss: 0.119132
batch: 88 Training Loss: 0.118520
batch: 89 Training Loss: 0.118099
batch: 90 Training Loss: 0.118928
batch: 91 Training Loss: 0.118974
batch: 92 Training Loss: 0.118235
batch: 93 Training Loss: 0.119439

batch: 94 Training Loss: 0.118864
batch: 95 Training Loss: 0.118356
batch: 96 Training Loss: 0.118166
batch: 97 Training Loss: 0.118442
batch: 98 Training Loss: 0.118004
batch: 99 Training Loss: 0.117886
batch: 100 Training Loss: 0.118044
batch: 101 Training Loss: 0.117407
batch: 102 Training Loss: 0.117836
batch: 103 Training Loss: 0.117557
batch: 104 Training Loss: 0.116982
batch: 105 Training Loss: 0.117285
batch: 106 Training Loss: 0.117019
batch: 107 Training Loss: 0.118231
batch: 108 Training Loss: 0.118347
batch: 109 Training Loss: 0.117976
batch: 110 Training Loss: 0.117499
batch: 111 Training Loss: 0.118239
batch: 112 Training Loss: 0.117622
batch: 113 Training Loss: 0.117335
batch: 114 Training Loss: 0.118251
batch: 115 Training Loss: 0.117898
batch: 116 Training Loss: 0.117178
batch: 117 Training Loss: 0.117321
batch: 118 Training Loss: 0.118289
batch: 119 Training Loss: 0.119864
batch: 120 Training Loss: 0.119680
batch: 121 Training Loss: 0.119958
batch: 122 Training Loss: 0.119332
batch: 123 Training Loss: 0.118853
batch: 124 Training Loss: 0.118904
batch: 125 Training Loss: 0.119998
batch: 126 Training Loss: 0.119810
batch: 127 Training Loss: 0.119190
batch: 128 Training Loss: 0.118970
batch: 129 Training Loss: 0.118770
batch: 130 Training Loss: 0.118559
batch: 131 Training Loss: 0.118537
batch: 132 Training Loss: 0.118176
batch: 133 Training Loss: 0.117476
batch: 134 Training Loss: 0.116859
batch: 135 Training Loss: 0.118147
batch: 136 Training Loss: 0.117548
batch: 137 Training Loss: 0.116797
batch: 138 Training Loss: 0.116722
batch: 139 Training Loss: 0.117860
batch: 140 Training Loss: 0.117365
batch: 141 Training Loss: 0.117114
batch: 142 Training Loss: 0.116815
batch: 143 Training Loss: 0.116515
batch: 144 Training Loss: 0.115991
batch: 145 Training Loss: 0.115430
batch: 146 Training Loss: 0.115571
batch: 147 Training Loss: 0.116062
batch: 148 Training Loss: 0.115563
batch: 149 Training Loss: 0.115317
batch: 150 Training Loss: 0.115721
batch: 151 Training Loss: 0.115289
batch: 152 Training Loss: 0.114701
batch: 153 Training Loss: 0.114524
batch: 154 Training Loss: 0.116969
batch: 155 Training Loss: 0.116769
batch: 156 Training Loss: 0.116812
batch: 157 Training Loss: 0.116591
batch: 158 Training Loss: 0.116762
batch: 159 Training Loss: 0.117059
batch: 160 Training Loss: 0.117366
batch: 161 Training Loss: 0.116765
batch: 162 Training Loss: 0.116339
batch: 163 Training Loss: 0.115926
batch: 164 Training Loss: 0.115410
batch: 165 Training Loss: 0.115013
batch: 166 Training Loss: 0.114779
batch: 167 Training Loss: 0.115413
batch: 168 Training Loss: 0.115987
batch: 169 Training Loss: 0.115388
batch: 170 Training Loss: 0.114817
batch: 171 Training Loss: 0.114347
batch: 172 Training Loss: 0.114423
batch: 173 Training Loss: 0.114121
batch: 174 Training Loss: 0.113803
batch: 175 Training Loss: 0.113923
batch: 176 Training Loss: 0.113793
batch: 177 Training Loss: 0.113643
batch: 178 Training Loss: 0.113153
batch: 179 Training Loss: 0.114176
batch: 180 Training Loss: 0.116086
batch: 181 Training Loss: 0.115704
batch: 182 Training Loss: 0.115494
batch: 183 Training Loss: 0.115939
batch: 184 Training Loss: 0.115857
... 100

batch: 185 Training Loss: 0.116093
batch: 186 Training Loss: 0.116390
batch: 187 Training Loss: 0.116420
batch: 188 Training Loss: 0.115839
batch: 189 Training Loss: 0.116804
batch: 190 Training Loss: 0.117277
batch: 191 Training Loss: 0.117136
batch: 192 Training Loss: 0.117589
batch: 193 Training Loss: 0.117496
batch: 194 Training Loss: 0.117463
batch: 195 Training Loss: 0.118747
batch: 196 Training Loss: 0.118878
batch: 197 Training Loss: 0.118721
batch: 198 Training Loss: 0.118627
batch: 199 Training Loss: 0.118428
batch: 200 Training Loss: 0.118142
batch: 201 Training Loss: 0.117873
batch: 202 Training Loss: 0.117695
batch: 203 Training Loss: 0.117159
batch: 204 Training Loss: 0.117832
batch: 205 Training Loss: 0.118442
batch: 206 Training Loss: 0.118038
batch: 207 Training Loss: 0.117862
batch: 208 Training Loss: 0.118607
Epoch: 79 Training Loss: 0.118607 Validation Loss: 1.471219
batch: 0 Training Loss: 0.075774
batch: 1 Training Loss: 0.043119
batch: 2 Training Loss: 0.081120
batch: 3 Training Loss: 0.136951
batch: 4 Training Loss: 0.170468
batch: 5 Training Loss: 0.148313
batch: 6 Training Loss: 0.135232
batch: 7 Training Loss: 0.150815
batch: 8 Training Loss: 0.154898
batch: 9 Training Loss: 0.140855
batch: 10 Training Loss: 0.130569
batch: 11 Training Loss: 0.128153
batch: 12 Training Loss: 0.119633
batch: 13 Training Loss: 0.132961
batch: 14 Training Loss: 0.125531
batch: 15 Training Loss: 0.132548
batch: 16 Training Loss: 0.126751
batch: 17 Training Loss: 0.124121
batch: 18 Training Loss: 0.119464
batch: 19 Training Loss: 0.114705
batch: 20 Training Loss: 0.110670
batch: 21 Training Loss: 0.109288
batch: 22 Training Loss: 0.109063
batch: 23 Training Loss: 0.105494
batch: 24 Training Loss: 0.102561
batch: 25 Training Loss: 0.103800
batch: 26 Training Loss: 0.101480
batch: 27 Training Loss: 0.108670
batch: 28 Training Loss: 0.105861
batch: 29 Training Loss: 0.104921
batch: 30 Training Loss: 0.113902
batch: 31 Training Loss: 0.114059
batch: 32 Training Loss: 0.114956
batch: 33 Training Loss: 0.116619
batch: 34 Training Loss: 0.114117
batch: 35 Training Loss: 0.113448
batch: 36 Training Loss: 0.112138
batch: 37 Training Loss: 0.112608
batch: 38 Training Loss: 0.112652
batch: 39 Training Loss: 0.110831
batch: 40 Training Loss: 0.112104
batch: 41 Training Loss: 0.111244
batch: 42 Training Loss: 0.111335
batch: 43 Training Loss: 0.110341
batch: 44 Training Loss: 0.108080
batch: 45 Training Loss: 0.106804
batch: 46 Training Loss: 0.107145
batch: 47 Training Loss: 0.107772
batch: 48 Training Loss: 0.110683
batch: 49 Training Loss: 0.109441
batch: 50 Training Loss: 0.109569
batch: 51 Training Loss: 0.107888
batch: 52 Training Loss: 0.106368
batch: 53 Training Loss: 0.105358
batch: 54 Training Loss: 0.105375
batch: 55 Training Loss: 0.106910
batch: 56 Training Loss: 0.107029
batch: 57 Training Loss: 0.110916
batch: 58 Training Loss: 0.110184
batch: 59 Training Loss: 0.109868
batch: 60 Training Loss: 0.108453
batch: 61 Training Loss: 0.107221
batch: 62 Training Loss: 0.108671
batch: 63 Training Loss: 0.110038
batch: 64 Training Loss: 0.110009
batch: 65 Training Loss: 0.108473

batch: 66 Training Loss: 0.109046
batch: 67 Training Loss: 0.108026
batch: 68 Training Loss: 0.111624
batch: 69 Training Loss: 0.111433
batch: 70 Training Loss: 0.112827
batch: 71 Training Loss: 0.112338
batch: 72 Training Loss: 0.113823
batch: 73 Training Loss: 0.115043
batch: 74 Training Loss: 0.114086
batch: 75 Training Loss: 0.113072
batch: 76 Training Loss: 0.112168
batch: 77 Training Loss: 0.112970
batch: 78 Training Loss: 0.112569
batch: 79 Training Loss: 0.111478
batch: 80 Training Loss: 0.116097
batch: 81 Training Loss: 0.115020
batch: 82 Training Loss: 0.114933
batch: 83 Training Loss: 0.114323
batch: 84 Training Loss: 0.113095
batch: 85 Training Loss: 0.114086
batch: 86 Training Loss: 0.113001
batch: 87 Training Loss: 0.112876
batch: 88 Training Loss: 0.115293
batch: 89 Training Loss: 0.115173
batch: 90 Training Loss: 0.114135
batch: 91 Training Loss: 0.114653
batch: 92 Training Loss: 0.115790
batch: 93 Training Loss: 0.115524
batch: 94 Training Loss: 0.114953
batch: 95 Training Loss: 0.114577
batch: 96 Training Loss: 0.118650
batch: 97 Training Loss: 0.117627
batch: 98 Training Loss: 0.117067
batch: 99 Training Loss: 0.117889
batch: 100 Training Loss: 0.117136
batch: 101 Training Loss: 0.117800
batch: 102 Training Loss: 0.117401
batch: 103 Training Loss: 0.118120
batch: 104 Training Loss: 0.118610
batch: 105 Training Loss: 0.119683
batch: 106 Training Loss: 0.118890
batch: 107 Training Loss: 0.118143
batch: 108 Training Loss: 0.118721
batch: 109 Training Loss: 0.118188
batch: 110 Training Loss: 0.117621
batch: 111 Training Loss: 0.117437
batch: 112 Training Loss: 0.118103
batch: 113 Training Loss: 0.118588
batch: 114 Training Loss: 0.120594
batch: 115 Training Loss: 0.120294
batch: 116 Training Loss: 0.120106
batch: 117 Training Loss: 0.121043
batch: 118 Training Loss: 0.120521
batch: 119 Training Loss: 0.120325
batch: 120 Training Loss: 0.120277
batch: 121 Training Loss: 0.119413
batch: 122 Training Loss: 0.119255
batch: 123 Training Loss: 0.118635
batch: 124 Training Loss: 0.118541
batch: 125 Training Loss: 0.117942
batch: 126 Training Loss: 0.118305
batch: 127 Training Loss: 0.122195
batch: 128 Training Loss: 0.122835
batch: 129 Training Loss: 0.122009
batch: 130 Training Loss: 0.122316
batch: 131 Training Loss: 0.122003
batch: 132 Training Loss: 0.121567
batch: 133 Training Loss: 0.121242
batch: 134 Training Loss: 0.121294
batch: 135 Training Loss: 0.123955
batch: 136 Training Loss: 0.123494
batch: 137 Training Loss: 0.123931
batch: 138 Training Loss: 0.123655
batch: 139 Training Loss: 0.123023
batch: 140 Training Loss: 0.122532
batch: 141 Training Loss: 0.123132
batch: 142 Training Loss: 0.122685
batch: 143 Training Loss: 0.122149
batch: 144 Training Loss: 0.121486
batch: 145 Training Loss: 0.121894
batch: 146 Training Loss: 0.121142
batch: 147 Training Loss: 0.120782
batch: 148 Training Loss: 0.120827
batch: 149 Training Loss: 0.120580
batch: 150 Training Loss: 0.120395
batch: 151 Training Loss: 0.119896
batch: 152 Training Loss: 0.120462
batch: 153 Training Loss: 0.119891
batch: 154 Training Loss: 0.119692
batch: 155 Training Loss: 0.119553
batch: 156 Training Loss: 0.120050

```
batch: 157  Training Loss: 0.120515
batch: 158  Training Loss: 0.120218
batch: 159  Training Loss: 0.119748
batch: 160  Training Loss: 0.120900
batch: 161  Training Loss: 0.120527
batch: 162  Training Loss: 0.121217
batch: 163  Training Loss: 0.121951
batch: 164  Training Loss: 0.121440
batch: 165  Training Loss: 0.121074
batch: 166  Training Loss: 0.120792
batch: 167  Training Loss: 0.120268
batch: 168  Training Loss: 0.119715
batch: 169  Training Loss: 0.119541
batch: 170  Training Loss: 0.119004
batch: 171  Training Loss: 0.118909
batch: 172  Training Loss: 0.118634
batch: 173  Training Loss: 0.118113
batch: 174  Training Loss: 0.117573
batch: 175  Training Loss: 0.117080
batch: 176  Training Loss: 0.116590
batch: 177  Training Loss: 0.115997
batch: 178  Training Loss: 0.115636
batch: 179  Training Loss: 0.115244
batch: 180  Training Loss: 0.114723
batch: 181  Training Loss: 0.115030
batch: 182  Training Loss: 0.115567
batch: 183  Training Loss: 0.115381
batch: 184  Training Loss: 0.115161
batch: 185  Training Loss: 0.114724
batch: 186  Training Loss: 0.114927
batch: 187  Training Loss: 0.114423
batch: 188  Training Loss: 0.116708
batch: 189  Training Loss: 0.116731
batch: 190  Training Loss: 0.118124
batch: 191  Training Loss: 0.117823
batch: 192  Training Loss: 0.117964
batch: 193  Training Loss: 0.117564
batch: 194  Training Loss: 0.118191
batch: 195  Training Loss: 0.118009
batch: 196  Training Loss: 0.117677
batch: 197  Training Loss: 0.117512
batch: 198  Training Loss: 0.117084
batch: 199  Training Loss: 0.117255
batch: 200  Training Loss: 0.118091
batch: 201  Training Loss: 0.118612
batch: 202  Training Loss: 0.118139
batch: 203  Training Loss: 0.117862
batch: 204  Training Loss: 0.119067
batch: 205  Training Loss: 0.120178
batch: 206  Training Loss: 0.120175
batch: 207  Training Loss: 0.119964
batch: 208  Training Loss: 0.119442
Epoch: 80   Training Loss: 0.119442          Validation Loss: 1.348528
batch: 0    Training Loss: 0.105971
batch: 1    Training Loss: 0.107373
batch: 2    Training Loss: 0.095568
batch: 3    Training Loss: 0.102515
batch: 4    Training Loss: 0.085343
batch: 5    Training Loss: 0.080517
batch: 6    Training Loss: 0.096115
batch: 7    Training Loss: 0.087944
batch: 8    Training Loss: 0.086366
batch: 9    Training Loss: 0.085871
batch: 10   Training Loss: 0.082602
batch: 11   Training Loss: 0.092708
batch: 12   Training Loss: 0.100413
batch: 13   Training Loss: 0.100552
batch: 14   Training Loss: 0.098023
batch: 15   Training Loss: 0.095180
batch: 16   Training Loss: 0.093491
batch: 17   Training Loss: 0.091574
batch: 18   Training Loss: 0.088877
batch: 19   Training Loss: 0.086252
batch: 20   Training Loss: 0.087396
batch: 21   Training Loss: 0.087630
batch: 22   Training Loss: 0.084608
batch: 23   Training Loss: 0.083631
batch: 24   Training Loss: 0.082390
batch: 25   Training Loss: 0.080249
batch: 26   Training Loss: 0.078450
batch: 27   Training Loss: 0.082115
batch: 28   Training Loss: 0.087630
batch: 29   Training Loss: 0.086514
batch: 30   Training Loss: 0.087207
batch: 31   Training Loss: 0.096602
batch: 32   Training Loss: 0.097022
batch: 33   Training Loss: 0.095911
batch: 34   Training Loss: 0.094377
batch: 35   Training Loss: 0.093065
batch: 36   Training Loss: 0.096957
batch: 37   Training Loss: 0.095343
batch: 38   Training Loss: 0.095599
```

batch: 30 Training Loss: 0.090006
batch: 39 Training Loss: 0.098450
batch: 40 Training Loss: 0.097219
batch: 41 Training Loss: 0.099087
batch: 42 Training Loss: 0.097439
batch: 43 Training Loss: 0.098197
batch: 44 Training Loss: 0.097203
batch: 45 Training Loss: 0.098191
batch: 46 Training Loss: 0.097991
batch: 47 Training Loss: 0.099292
batch: 48 Training Loss: 0.101425
batch: 49 Training Loss: 0.102640
batch: 50 Training Loss: 0.101343
batch: 51 Training Loss: 0.101111
batch: 52 Training Loss: 0.104908
batch: 53 Training Loss: 0.103202
batch: 54 Training Loss: 0.102116
batch: 55 Training Loss: 0.103302
batch: 56 Training Loss: 0.101886
batch: 57 Training Loss: 0.103747
batch: 58 Training Loss: 0.102165
batch: 59 Training Loss: 0.103164
batch: 60 Training Loss: 0.103697
batch: 61 Training Loss: 0.104180
batch: 62 Training Loss: 0.106232
batch: 63 Training Loss: 0.105543
batch: 64 Training Loss: 0.111142
batch: 65 Training Loss: 0.110184
batch: 66 Training Loss: 0.111896
batch: 67 Training Loss: 0.111906
batch: 68 Training Loss: 0.111317
batch: 69 Training Loss: 0.114552
batch: 70 Training Loss: 0.116687
batch: 71 Training Loss: 0.115475
batch: 72 Training Loss: 0.116103
batch: 73 Training Loss: 0.115902
batch: 74 Training Loss: 0.116434
batch: 75 Training Loss: 0.116457
batch: 76 Training Loss: 0.116147
batch: 77 Training Loss: 0.114916
batch: 78 Training Loss: 0.118565
batch: 79 Training Loss: 0.117418
batch: 80 Training Loss: 0.117596
batch: 81 Training Loss: 0.116571
batch: 82 Training Loss: 0.115552
batch: 83 Training Loss: 0.114907
batch: 84 Training Loss: 0.115557
batch: 85 Training Loss: 0.115730
batch: 86 Training Loss: 0.115337
batch: 87 Training Loss: 0.114247
batch: 88 Training Loss: 0.115225
batch: 89 Training Loss: 0.114386
batch: 90 Training Loss: 0.113560
batch: 91 Training Loss: 0.115926
batch: 92 Training Loss: 0.114979
batch: 93 Training Loss: 0.114395
batch: 94 Training Loss: 0.114194
batch: 95 Training Loss: 0.113350
batch: 96 Training Loss: 0.112814
batch: 97 Training Loss: 0.112335
batch: 98 Training Loss: 0.112329
batch: 99 Training Loss: 0.112282
batch: 100 Training Loss: 0.111556
batch: 101 Training Loss: 0.110713
batch: 102 Training Loss: 0.110163
batch: 103 Training Loss: 0.110341
batch: 104 Training Loss: 0.110245
batch: 105 Training Loss: 0.110941
batch: 106 Training Loss: 0.111041
batch: 107 Training Loss: 0.110572
batch: 108 Training Loss: 0.110568
batch: 109 Training Loss: 0.111020
batch: 110 Training Loss: 0.110514
batch: 111 Training Loss: 0.110616
batch: 112 Training Loss: 0.111084
batch: 113 Training Loss: 0.110376
batch: 114 Training Loss: 0.109734
batch: 115 Training Loss: 0.109893
batch: 116 Training Loss: 0.109151
batch: 117 Training Loss: 0.110685
batch: 118 Training Loss: 0.110294
batch: 119 Training Loss: 0.109970
batch: 120 Training Loss: 0.112009
batch: 121 Training Loss: 0.112566
batch: 122 Training Loss: 0.112081
batch: 123 Training Loss: 0.111962
batch: 124 Training Loss: 0.112098
batch: 125 Training Loss: 0.112445
batch: 126 Training Loss: 0.112251
batch: 127 Training Loss: 0.112685
batch: 128 Training Loss: 0.114125
batch: 129 Training Loss: 0.112615

batch: 127 Training Loss: 0.113049
batch: 130 Training Loss: 0.112978
batch: 131 Training Loss: 0.112554
batch: 132 Training Loss: 0.112409
batch: 133 Training Loss: 0.112817
batch: 134 Training Loss: 0.112309
batch: 135 Training Loss: 0.112227
batch: 136 Training Loss: 0.113018
batch: 137 Training Loss: 0.113106
batch: 138 Training Loss: 0.112995
batch: 139 Training Loss: 0.113029
batch: 140 Training Loss: 0.112493
batch: 141 Training Loss: 0.113194
batch: 142 Training Loss: 0.112573
batch: 143 Training Loss: 0.112236
batch: 144 Training Loss: 0.112314
batch: 145 Training Loss: 0.111895
batch: 146 Training Loss: 0.112241
batch: 147 Training Loss: 0.111675
batch: 148 Training Loss: 0.111452
batch: 149 Training Loss: 0.112136
batch: 150 Training Loss: 0.111632
batch: 151 Training Loss: 0.111305
batch: 152 Training Loss: 0.111841
batch: 153 Training Loss: 0.111854
batch: 154 Training Loss: 0.112648
batch: 155 Training Loss: 0.112428
batch: 156 Training Loss: 0.112398
batch: 157 Training Loss: 0.112381
batch: 158 Training Loss: 0.112633
batch: 159 Training Loss: 0.112472
batch: 160 Training Loss: 0.112704
batch: 161 Training Loss: 0.113161
batch: 162 Training Loss: 0.113262
batch: 163 Training Loss: 0.113045
batch: 164 Training Loss: 0.112884
batch: 165 Training Loss: 0.113028
batch: 166 Training Loss: 0.113390
batch: 167 Training Loss: 0.112965
batch: 168 Training Loss: 0.112534
batch: 169 Training Loss: 0.113187
batch: 170 Training Loss: 0.112974
batch: 171 Training Loss: 0.114904
batch: 172 Training Loss: 0.114667
batch: 173 Training Loss: 0.114979
batch: 174 Training Loss: 0.114466
batch: 175 Training Loss: 0.114455
batch: 176 Training Loss: 0.114018
batch: 177 Training Loss: 0.113936
batch: 178 Training Loss: 0.113657
batch: 179 Training Loss: 0.113279
batch: 180 Training Loss: 0.112801
batch: 181 Training Loss: 0.112305
batch: 182 Training Loss: 0.112836
batch: 183 Training Loss: 0.112973
batch: 184 Training Loss: 0.112617
batch: 185 Training Loss: 0.112512
batch: 186 Training Loss: 0.112116
batch: 187 Training Loss: 0.112599
batch: 188 Training Loss: 0.112630
batch: 189 Training Loss: 0.112587
batch: 190 Training Loss: 0.112309
batch: 191 Training Loss: 0.111901
batch: 192 Training Loss: 0.111971
batch: 193 Training Loss: 0.112546
batch: 194 Training Loss: 0.112275
batch: 195 Training Loss: 0.111941
batch: 196 Training Loss: 0.111549
batch: 197 Training Loss: 0.111645
batch: 198 Training Loss: 0.111552
batch: 199 Training Loss: 0.111393
batch: 200 Training Loss: 0.111462
batch: 201 Training Loss: 0.111296
batch: 202 Training Loss: 0.111196
batch: 203 Training Loss: 0.112849
batch: 204 Training Loss: 0.112974
batch: 205 Training Loss: 0.113317
batch: 206 Training Loss: 0.113186
batch: 207 Training Loss: 0.113106
batch: 208 Training Loss: 0.112949
Epoch: 81 Training Loss: 0.112949 Validation Loss: 1.339150
batch: 0 Training Loss: 0.082135
batch: 1 Training Loss: 0.045189
batch: 2 Training Loss: 0.080111
batch: 3 Training Loss: 0.078061
batch: 4 Training Loss: 0.079450
batch: 5 Training Loss: 0.086491
batch: 6 Training Loss: 0.108368
batch: 7 Training Loss: 0.102786
batch: 8 Training Loss: 0.118123
batch: 9 Training Loss: 0.119460
batch: 10 Training Loss: 0.116460

batch: 10 Training Loss: 0.110700
batch: 11 Training Loss: 0.115676
batch: 12 Training Loss: 0.112335
batch: 13 Training Loss: 0.106623
batch: 14 Training Loss: 0.103558
batch: 15 Training Loss: 0.098343
batch: 16 Training Loss: 0.095956
batch: 17 Training Loss: 0.099239
batch: 18 Training Loss: 0.096767
batch: 19 Training Loss: 0.107949
batch: 20 Training Loss: 0.108322
batch: 21 Training Loss: 0.117228
batch: 22 Training Loss: 0.118322
batch: 23 Training Loss: 0.115388
batch: 24 Training Loss: 0.111475
batch: 25 Training Loss: 0.112164
batch: 26 Training Loss: 0.115562
batch: 27 Training Loss: 0.117212
batch: 28 Training Loss: 0.116018
batch: 29 Training Loss: 0.121353
batch: 30 Training Loss: 0.118658
batch: 31 Training Loss: 0.117677
batch: 32 Training Loss: 0.133194
batch: 33 Training Loss: 0.130060
batch: 34 Training Loss: 0.127852
batch: 35 Training Loss: 0.126704
batch: 36 Training Loss: 0.128808
batch: 37 Training Loss: 0.142546
batch: 38 Training Loss: 0.144580
batch: 39 Training Loss: 0.141873
batch: 40 Training Loss: 0.139867
batch: 41 Training Loss: 0.142903
batch: 42 Training Loss: 0.142181
batch: 43 Training Loss: 0.141508
batch: 44 Training Loss: 0.149052
batch: 45 Training Loss: 0.149158
batch: 46 Training Loss: 0.147204
batch: 47 Training Loss: 0.144996
batch: 48 Training Loss: 0.142806
batch: 49 Training Loss: 0.145952
batch: 50 Training Loss: 0.145765
batch: 51 Training Loss: 0.144445
batch: 52 Training Loss: 0.143857
batch: 53 Training Loss: 0.142957
batch: 54 Training Loss: 0.141851
batch: 55 Training Loss: 0.139757
batch: 56 Training Loss: 0.139637
batch: 57 Training Loss: 0.143829
batch: 58 Training Loss: 0.142347
batch: 59 Training Loss: 0.142935
batch: 60 Training Loss: 0.143609
batch: 61 Training Loss: 0.143033
batch: 62 Training Loss: 0.143069
batch: 63 Training Loss: 0.141929
batch: 64 Training Loss: 0.143857
batch: 65 Training Loss: 0.142514
batch: 66 Training Loss: 0.142467
batch: 67 Training Loss: 0.141219
batch: 68 Training Loss: 0.141472
batch: 69 Training Loss: 0.140727
batch: 70 Training Loss: 0.140620
batch: 71 Training Loss: 0.139030
batch: 72 Training Loss: 0.137318
batch: 73 Training Loss: 0.138014
batch: 74 Training Loss: 0.137301
batch: 75 Training Loss: 0.135715
batch: 76 Training Loss: 0.135583
batch: 77 Training Loss: 0.134329
batch: 78 Training Loss: 0.133431
batch: 79 Training Loss: 0.134654
batch: 80 Training Loss: 0.134061
batch: 81 Training Loss: 0.133278
batch: 82 Training Loss: 0.133759
batch: 83 Training Loss: 0.132566
batch: 84 Training Loss: 0.136895
batch: 85 Training Loss: 0.137165
batch: 86 Training Loss: 0.137737
batch: 87 Training Loss: 0.137235
batch: 88 Training Loss: 0.136264
batch: 89 Training Loss: 0.140276
batch: 90 Training Loss: 0.141454
batch: 91 Training Loss: 0.140679
batch: 92 Training Loss: 0.139623
batch: 93 Training Loss: 0.139817
batch: 94 Training Loss: 0.139824
batch: 95 Training Loss: 0.139198
batch: 96 Training Loss: 0.137942
batch: 97 Training Loss: 0.137081
batch: 98 Training Loss: 0.135836
batch: 99 Training Loss: 0.134907
batch: 100 Training Loss: 0.133908
batch: 101 Training Loss: 0.133187

batch: 101 Training Loss: 0.130719
batch: 102 Training Loss: 0.132597
batch: 103 Training Loss: 0.131631
batch: 104 Training Loss: 0.130758
batch: 105 Training Loss: 0.130241
batch: 106 Training Loss: 0.129517
batch: 107 Training Loss: 0.130191
batch: 108 Training Loss: 0.131014
batch: 109 Training Loss: 0.130736
batch: 110 Training Loss: 0.130652
batch: 111 Training Loss: 0.129661
batch: 112 Training Loss: 0.129154
batch: 113 Training Loss: 0.128427
batch: 114 Training Loss: 0.127511
batch: 115 Training Loss: 0.126682
batch: 116 Training Loss: 0.128980
batch: 117 Training Loss: 0.129008
batch: 118 Training Loss: 0.128338
batch: 119 Training Loss: 0.127843
batch: 120 Training Loss: 0.129559
batch: 121 Training Loss: 0.130381
batch: 122 Training Loss: 0.129489
batch: 123 Training Loss: 0.130318
batch: 124 Training Loss: 0.129468
batch: 125 Training Loss: 0.131593
batch: 126 Training Loss: 0.131073
batch: 127 Training Loss: 0.130822
batch: 128 Training Loss: 0.129957
batch: 129 Training Loss: 0.129620
batch: 130 Training Loss: 0.129235
batch: 131 Training Loss: 0.130326
batch: 132 Training Loss: 0.129559
batch: 133 Training Loss: 0.129503
batch: 134 Training Loss: 0.128764
batch: 135 Training Loss: 0.128397
batch: 136 Training Loss: 0.128108
batch: 137 Training Loss: 0.127745
batch: 138 Training Loss: 0.128090
batch: 139 Training Loss: 0.128016
batch: 140 Training Loss: 0.127290
batch: 141 Training Loss: 0.127476
batch: 142 Training Loss: 0.127657
batch: 143 Training Loss: 0.128126
batch: 144 Training Loss: 0.127932
batch: 145 Training Loss: 0.128172
batch: 146 Training Loss: 0.128126
batch: 147 Training Loss: 0.127386
batch: 148 Training Loss: 0.127975
batch: 149 Training Loss: 0.127888
batch: 150 Training Loss: 0.128357
batch: 151 Training Loss: 0.128424
batch: 152 Training Loss: 0.128017
batch: 153 Training Loss: 0.127347
batch: 154 Training Loss: 0.127395
batch: 155 Training Loss: 0.126780
batch: 156 Training Loss: 0.126125
batch: 157 Training Loss: 0.125648
batch: 158 Training Loss: 0.125552
batch: 159 Training Loss: 0.125872
batch: 160 Training Loss: 0.125406
batch: 161 Training Loss: 0.125495
batch: 162 Training Loss: 0.124822
batch: 163 Training Loss: 0.124194
batch: 164 Training Loss: 0.124243
batch: 165 Training Loss: 0.124391
batch: 166 Training Loss: 0.124078
batch: 167 Training Loss: 0.123790
batch: 168 Training Loss: 0.123319
batch: 169 Training Loss: 0.122813
batch: 170 Training Loss: 0.122580
batch: 171 Training Loss: 0.122183
batch: 172 Training Loss: 0.122123
batch: 173 Training Loss: 0.121583
batch: 174 Training Loss: 0.121165
batch: 175 Training Loss: 0.121145
batch: 176 Training Loss: 0.121092
batch: 177 Training Loss: 0.120663
batch: 178 Training Loss: 0.120458
batch: 179 Training Loss: 0.120880
batch: 180 Training Loss: 0.122656
batch: 181 Training Loss: 0.123891
batch: 182 Training Loss: 0.123799
batch: 183 Training Loss: 0.123324
batch: 184 Training Loss: 0.123134
batch: 185 Training Loss: 0.122790
batch: 186 Training Loss: 0.122910
batch: 187 Training Loss: 0.122769
batch: 188 Training Loss: 0.123522
batch: 189 Training Loss: 0.123311
batch: 190 Training Loss: 0.122770
batch: 191 Training Loss: 0.122698
batch: 192 Training Loss: 0.122649

```
-- -- -- -- --  
batch: 193 Training Loss: 0.122342  
batch: 194 Training Loss: 0.122445  
batch: 195 Training Loss: 0.122026  
batch: 196 Training Loss: 0.121876  
batch: 197 Training Loss: 0.121310  
batch: 198 Training Loss: 0.121133  
batch: 199 Training Loss: 0.122131  
batch: 200 Training Loss: 0.121694  
batch: 201 Training Loss: 0.121617  
batch: 202 Training Loss: 0.121111  
batch: 203 Training Loss: 0.121716  
batch: 204 Training Loss: 0.121766  
batch: 205 Training Loss: 0.121250  
batch: 206 Training Loss: 0.120846  
batch: 207 Training Loss: 0.120414  
batch: 208 Training Loss: 0.119905  
Epoch: 82 Training Loss: 0.119905 Validation Loss: 1.442305  
batch: 0 Training Loss: 0.082019  
batch: 1 Training Loss: 0.071554  
batch: 2 Training Loss: 0.078538  
batch: 3 Training Loss: 0.065651  
batch: 4 Training Loss: 0.072881  
batch: 5 Training Loss: 0.064751  
batch: 6 Training Loss: 0.071508  
batch: 7 Training Loss: 0.066394  
batch: 8 Training Loss: 0.072300  
batch: 9 Training Loss: 0.078810  
batch: 10 Training Loss: 0.084400  
batch: 11 Training Loss: 0.080190  
batch: 12 Training Loss: 0.076136  
batch: 13 Training Loss: 0.079245  
batch: 14 Training Loss: 0.088393  
batch: 15 Training Loss: 0.092055  
batch: 16 Training Loss: 0.090582  
batch: 17 Training Loss: 0.092563  
batch: 18 Training Loss: 0.094912  
batch: 19 Training Loss: 0.093210  
batch: 20 Training Loss: 0.092747  
batch: 21 Training Loss: 0.091776  
batch: 22 Training Loss: 0.097389  
batch: 23 Training Loss: 0.094479  
batch: 24 Training Loss: 0.091870  
batch: 25 Training Loss: 0.095448  
batch: 26 Training Loss: 0.092998  
batch: 27 Training Loss: 0.101911  
batch: 28 Training Loss: 0.103065  
batch: 29 Training Loss: 0.113275  
batch: 30 Training Loss: 0.110279  
batch: 31 Training Loss: 0.107155  
batch: 32 Training Loss: 0.106728  
batch: 33 Training Loss: 0.104558  
batch: 34 Training Loss: 0.109859  
batch: 35 Training Loss: 0.107234  
batch: 36 Training Loss: 0.104951  
batch: 37 Training Loss: 0.106772  
batch: 38 Training Loss: 0.106826  
batch: 39 Training Loss: 0.108255  
batch: 40 Training Loss: 0.107351  
batch: 41 Training Loss: 0.105719  
batch: 42 Training Loss: 0.109922  
batch: 43 Training Loss: 0.108776  
batch: 44 Training Loss: 0.113272  
batch: 45 Training Loss: 0.117386  
batch: 46 Training Loss: 0.115277  
batch: 47 Training Loss: 0.113999  
batch: 48 Training Loss: 0.113674  
batch: 49 Training Loss: 0.112879  
batch: 50 Training Loss: 0.113126  
batch: 51 Training Loss: 0.111752  
batch: 52 Training Loss: 0.110300  
batch: 53 Training Loss: 0.109243  
batch: 54 Training Loss: 0.108243  
batch: 55 Training Loss: 0.107204  
batch: 56 Training Loss: 0.105852  
batch: 57 Training Loss: 0.104873  
batch: 58 Training Loss: 0.104227  
batch: 59 Training Loss: 0.105972  
batch: 60 Training Loss: 0.104893  
batch: 61 Training Loss: 0.104095  
batch: 62 Training Loss: 0.103818  
batch: 63 Training Loss: 0.105715  
batch: 64 Training Loss: 0.104435  
batch: 65 Training Loss: 0.103648  
batch: 66 Training Loss: 0.105486  
batch: 67 Training Loss: 0.104629  
batch: 68 Training Loss: 0.105275  
batch: 69 Training Loss: 0.105740  
batch: 70 Training Loss: 0.104409  
batch: 71 Training Loss: 0.103317  
batch: 72 Training Loss: 0.102570  
batch: 73 Training Loss: 0.101489
```

batch: 74 Training Loss: 0.102412
batch: 75 Training Loss: 0.101722
batch: 76 Training Loss: 0.101581
batch: 77 Training Loss: 0.101697
batch: 78 Training Loss: 0.100852
batch: 79 Training Loss: 0.099907
batch: 80 Training Loss: 0.099308
batch: 81 Training Loss: 0.098544
batch: 82 Training Loss: 0.097676
batch: 83 Training Loss: 0.096888
batch: 84 Training Loss: 0.095943
batch: 85 Training Loss: 0.095181
batch: 86 Training Loss: 0.094186
batch: 87 Training Loss: 0.093543
batch: 88 Training Loss: 0.094510
batch: 89 Training Loss: 0.094437
batch: 90 Training Loss: 0.093482
batch: 91 Training Loss: 0.093282
batch: 92 Training Loss: 0.093761
batch: 93 Training Loss: 0.093753
batch: 94 Training Loss: 0.094129
batch: 95 Training Loss: 0.094305
batch: 96 Training Loss: 0.093818
batch: 97 Training Loss: 0.094846
batch: 98 Training Loss: 0.094871
batch: 99 Training Loss: 0.093966
batch: 100 Training Loss: 0.093430
batch: 101 Training Loss: 0.093846
batch: 102 Training Loss: 0.093195
batch: 103 Training Loss: 0.092585
batch: 104 Training Loss: 0.093558
batch: 105 Training Loss: 0.094045
batch: 106 Training Loss: 0.093561
batch: 107 Training Loss: 0.095679
batch: 108 Training Loss: 0.096375
batch: 109 Training Loss: 0.096075
batch: 110 Training Loss: 0.096017
batch: 111 Training Loss: 0.095692
batch: 112 Training Loss: 0.095034
batch: 113 Training Loss: 0.094856
batch: 114 Training Loss: 0.095187
batch: 115 Training Loss: 0.095411
batch: 116 Training Loss: 0.095054
batch: 117 Training Loss: 0.094536
batch: 118 Training Loss: 0.093950
batch: 119 Training Loss: 0.095434
batch: 120 Training Loss: 0.094803
batch: 121 Training Loss: 0.094858
batch: 122 Training Loss: 0.094612
batch: 123 Training Loss: 0.093938
batch: 124 Training Loss: 0.093330
batch: 125 Training Loss: 0.093098
batch: 126 Training Loss: 0.094295
batch: 127 Training Loss: 0.093822
batch: 128 Training Loss: 0.093615
batch: 129 Training Loss: 0.093990
batch: 130 Training Loss: 0.094455
batch: 131 Training Loss: 0.093995
batch: 132 Training Loss: 0.093333
batch: 133 Training Loss: 0.093513
batch: 134 Training Loss: 0.094118
batch: 135 Training Loss: 0.094251
batch: 136 Training Loss: 0.097080
batch: 137 Training Loss: 0.097079
batch: 138 Training Loss: 0.096714
batch: 139 Training Loss: 0.096604
batch: 140 Training Loss: 0.098872
batch: 141 Training Loss: 0.098418
batch: 142 Training Loss: 0.097908
batch: 143 Training Loss: 0.097413
batch: 144 Training Loss: 0.097219
batch: 145 Training Loss: 0.098133
batch: 146 Training Loss: 0.098340
batch: 147 Training Loss: 0.098720
batch: 148 Training Loss: 0.098382
batch: 149 Training Loss: 0.098278
batch: 150 Training Loss: 0.098219
batch: 151 Training Loss: 0.097902
batch: 152 Training Loss: 0.098022
batch: 153 Training Loss: 0.098541
batch: 154 Training Loss: 0.098858
batch: 155 Training Loss: 0.100420
batch: 156 Training Loss: 0.100956
batch: 157 Training Loss: 0.100874
batch: 158 Training Loss: 0.100683
batch: 159 Training Loss: 0.100559
batch: 160 Training Loss: 0.103353
batch: 161 Training Loss: 0.103184
batch: 162 Training Loss: 0.102759
batch: 163 Training Loss: 0.102322
batch: 164 Training Loss: 0.102189

batch: 165 Training Loss: 0.101646
batch: 166 Training Loss: 0.101466
batch: 167 Training Loss: 0.103040
batch: 168 Training Loss: 0.102739
batch: 169 Training Loss: 0.102404
batch: 170 Training Loss: 0.102578
batch: 171 Training Loss: 0.102105
batch: 172 Training Loss: 0.101995
batch: 173 Training Loss: 0.102244
batch: 174 Training Loss: 0.102357
batch: 175 Training Loss: 0.102186
batch: 176 Training Loss: 0.101806
batch: 177 Training Loss: 0.101527
batch: 178 Training Loss: 0.102332
batch: 179 Training Loss: 0.102652
batch: 180 Training Loss: 0.102692
batch: 181 Training Loss: 0.102937
batch: 182 Training Loss: 0.102520
batch: 183 Training Loss: 0.103065
batch: 184 Training Loss: 0.103134
batch: 185 Training Loss: 0.103375
batch: 186 Training Loss: 0.103079
batch: 187 Training Loss: 0.102766
batch: 188 Training Loss: 0.102505
batch: 189 Training Loss: 0.102229
batch: 190 Training Loss: 0.102282
batch: 191 Training Loss: 0.102459
batch: 192 Training Loss: 0.102507
batch: 193 Training Loss: 0.103698
batch: 194 Training Loss: 0.104129
batch: 195 Training Loss: 0.103837
batch: 196 Training Loss: 0.103782
batch: 197 Training Loss: 0.103559
batch: 198 Training Loss: 0.103513
batch: 199 Training Loss: 0.104667
batch: 200 Training Loss: 0.104177
batch: 201 Training Loss: 0.103915
batch: 202 Training Loss: 0.103447
batch: 203 Training Loss: 0.103481
batch: 204 Training Loss: 0.103492
batch: 205 Training Loss: 0.104795
batch: 206 Training Loss: 0.104987
batch: 207 Training Loss: 0.105024
batch: 208 Training Loss: 0.105980
Epoch: 83 Training Loss: 0.105980 Validation Loss: 1.408114
batch: 0 Training Loss: 0.113389
batch: 1 Training Loss: 0.169582
batch: 2 Training Loss: 0.150745
batch: 3 Training Loss: 0.116059
batch: 4 Training Loss: 0.107072
batch: 5 Training Loss: 0.118724
batch: 6 Training Loss: 0.104278
batch: 7 Training Loss: 0.095278
batch: 8 Training Loss: 0.089410
batch: 9 Training Loss: 0.091634
batch: 10 Training Loss: 0.090318
batch: 11 Training Loss: 0.089166
batch: 12 Training Loss: 0.087859
batch: 13 Training Loss: 0.096496
batch: 14 Training Loss: 0.093850
batch: 15 Training Loss: 0.089758
batch: 16 Training Loss: 0.087200
batch: 17 Training Loss: 0.092801
batch: 18 Training Loss: 0.099544
batch: 19 Training Loss: 0.098057
batch: 20 Training Loss: 0.094637
batch: 21 Training Loss: 0.094217
batch: 22 Training Loss: 0.097894
batch: 23 Training Loss: 0.099554
batch: 24 Training Loss: 0.110165
batch: 25 Training Loss: 0.109403
batch: 26 Training Loss: 0.113253
batch: 27 Training Loss: 0.116921
batch: 28 Training Loss: 0.113139
batch: 29 Training Loss: 0.110127
batch: 30 Training Loss: 0.125123
batch: 31 Training Loss: 0.126004
batch: 32 Training Loss: 0.125074
batch: 33 Training Loss: 0.122547
batch: 34 Training Loss: 0.120080
batch: 35 Training Loss: 0.118250
batch: 36 Training Loss: 0.118542
batch: 37 Training Loss: 0.119190
batch: 38 Training Loss: 0.120770
batch: 39 Training Loss: 0.119587
batch: 40 Training Loss: 0.118701
batch: 41 Training Loss: 0.119527
batch: 42 Training Loss: 0.121388
batch: 43 Training Loss: 0.121339
batch: 44 Training Loss: 0.118896
batch: 45 Training Loss: 0.122342

batch: 46 Training Loss: 0.121351
batch: 47 Training Loss: 0.122136
batch: 48 Training Loss: 0.121256
batch: 49 Training Loss: 0.120320
batch: 50 Training Loss: 0.119934
batch: 51 Training Loss: 0.117845
batch: 52 Training Loss: 0.116284
batch: 53 Training Loss: 0.116217
batch: 54 Training Loss: 0.115542
batch: 55 Training Loss: 0.114547
batch: 56 Training Loss: 0.113871
batch: 57 Training Loss: 0.112534
batch: 58 Training Loss: 0.112396
batch: 59 Training Loss: 0.111074
batch: 60 Training Loss: 0.114404
batch: 61 Training Loss: 0.113295
batch: 62 Training Loss: 0.112700
batch: 63 Training Loss: 0.112433
batch: 64 Training Loss: 0.110791
batch: 65 Training Loss: 0.109737
batch: 66 Training Loss: 0.108501
batch: 67 Training Loss: 0.107255
batch: 68 Training Loss: 0.106637
batch: 69 Training Loss: 0.107197
batch: 70 Training Loss: 0.105917
batch: 71 Training Loss: 0.109248
batch: 72 Training Loss: 0.107880
batch: 73 Training Loss: 0.106858
batch: 74 Training Loss: 0.105778
batch: 75 Training Loss: 0.106026
batch: 76 Training Loss: 0.105310
batch: 77 Training Loss: 0.106911
batch: 78 Training Loss: 0.106604
batch: 79 Training Loss: 0.108682
batch: 80 Training Loss: 0.107739
batch: 81 Training Loss: 0.106860
batch: 82 Training Loss: 0.106164
batch: 83 Training Loss: 0.105637
batch: 84 Training Loss: 0.104603
batch: 85 Training Loss: 0.103602
batch: 86 Training Loss: 0.102465
batch: 87 Training Loss: 0.102138
batch: 88 Training Loss: 0.101339
batch: 89 Training Loss: 0.101336
batch: 90 Training Loss: 0.101284
batch: 91 Training Loss: 0.101583
batch: 92 Training Loss: 0.101203
batch: 93 Training Loss: 0.104325
batch: 94 Training Loss: 0.103629
batch: 95 Training Loss: 0.102991
batch: 96 Training Loss: 0.102863
batch: 97 Training Loss: 0.103140
batch: 98 Training Loss: 0.104470
batch: 99 Training Loss: 0.104590
batch: 100 Training Loss: 0.103749
batch: 101 Training Loss: 0.103642
batch: 102 Training Loss: 0.103831
batch: 103 Training Loss: 0.103288
batch: 104 Training Loss: 0.103367
batch: 105 Training Loss: 0.102858
batch: 106 Training Loss: 0.104606
batch: 107 Training Loss: 0.104050
batch: 108 Training Loss: 0.103971
batch: 109 Training Loss: 0.103279
batch: 110 Training Loss: 0.102759
batch: 111 Training Loss: 0.103161
batch: 112 Training Loss: 0.102567
batch: 113 Training Loss: 0.102348
batch: 114 Training Loss: 0.101878
batch: 115 Training Loss: 0.102211
batch: 116 Training Loss: 0.102832
batch: 117 Training Loss: 0.102465
batch: 118 Training Loss: 0.102251
batch: 119 Training Loss: 0.102305
batch: 120 Training Loss: 0.102106
batch: 121 Training Loss: 0.102331
batch: 122 Training Loss: 0.101924
batch: 123 Training Loss: 0.101574
batch: 124 Training Loss: 0.101395
batch: 125 Training Loss: 0.101118
batch: 126 Training Loss: 0.101009
batch: 127 Training Loss: 0.100643
batch: 128 Training Loss: 0.100918
batch: 129 Training Loss: 0.100545
batch: 130 Training Loss: 0.100176
batch: 131 Training Loss: 0.100452
batch: 132 Training Loss: 0.100242
batch: 133 Training Loss: 0.100959
batch: 134 Training Loss: 0.101615
batch: 135 Training Loss: 0.102153
batch: 136 Training Loss: 0.103195

batch: 137 Training Loss: 0.104576
batch: 138 Training Loss: 0.104842
batch: 139 Training Loss: 0.105381
batch: 140 Training Loss: 0.105389
batch: 141 Training Loss: 0.106477
batch: 142 Training Loss: 0.105909
batch: 143 Training Loss: 0.105727
batch: 144 Training Loss: 0.105146
batch: 145 Training Loss: 0.104869
batch: 146 Training Loss: 0.105545
batch: 147 Training Loss: 0.106832
batch: 148 Training Loss: 0.108612
batch: 149 Training Loss: 0.109371
batch: 150 Training Loss: 0.110483
batch: 151 Training Loss: 0.110352
batch: 152 Training Loss: 0.110019
batch: 153 Training Loss: 0.109851
batch: 154 Training Loss: 0.110291
batch: 155 Training Loss: 0.110448
batch: 156 Training Loss: 0.109991
batch: 157 Training Loss: 0.109614
batch: 158 Training Loss: 0.108970
batch: 159 Training Loss: 0.108840
batch: 160 Training Loss: 0.109204
batch: 161 Training Loss: 0.108734
batch: 162 Training Loss: 0.108363
batch: 163 Training Loss: 0.108817
batch: 164 Training Loss: 0.108648
batch: 165 Training Loss: 0.109297
batch: 166 Training Loss: 0.109216
batch: 167 Training Loss: 0.108873
batch: 168 Training Loss: 0.109655
batch: 169 Training Loss: 0.110004
batch: 170 Training Loss: 0.112420
batch: 171 Training Loss: 0.112078
batch: 172 Training Loss: 0.112313
batch: 173 Training Loss: 0.112940
batch: 174 Training Loss: 0.112581
batch: 175 Training Loss: 0.112568
batch: 176 Training Loss: 0.112253
batch: 177 Training Loss: 0.112209
batch: 178 Training Loss: 0.113732
batch: 179 Training Loss: 0.113815
batch: 180 Training Loss: 0.114458
batch: 181 Training Loss: 0.114233
batch: 182 Training Loss: 0.113895
batch: 183 Training Loss: 0.114438
batch: 184 Training Loss: 0.116990
batch: 185 Training Loss: 0.116706
batch: 186 Training Loss: 0.116565
batch: 187 Training Loss: 0.116922
batch: 188 Training Loss: 0.116875
batch: 189 Training Loss: 0.116567
batch: 190 Training Loss: 0.116641
batch: 191 Training Loss: 0.116447
batch: 192 Training Loss: 0.116046
batch: 193 Training Loss: 0.117414
batch: 194 Training Loss: 0.117197
batch: 195 Training Loss: 0.116802
batch: 196 Training Loss: 0.117644
batch: 197 Training Loss: 0.117901
batch: 198 Training Loss: 0.117799
batch: 199 Training Loss: 0.119218
batch: 200 Training Loss: 0.119206
batch: 201 Training Loss: 0.118704
batch: 202 Training Loss: 0.118692
batch: 203 Training Loss: 0.118626
batch: 204 Training Loss: 0.118380
batch: 205 Training Loss: 0.118959
batch: 206 Training Loss: 0.118451
batch: 207 Training Loss: 0.118508
batch: 208 Training Loss: 0.118948
Epoch: 84 Training Loss: 0.118948 Validation Loss: 1.430620
batch: 0 Training Loss: 0.036524
batch: 1 Training Loss: 0.085360
batch: 2 Training Loss: 0.068900
batch: 3 Training Loss: 0.151858
batch: 4 Training Loss: 0.148703
batch: 5 Training Loss: 0.184816
batch: 6 Training Loss: 0.162539
batch: 7 Training Loss: 0.147845
batch: 8 Training Loss: 0.134232
batch: 9 Training Loss: 0.141201
batch: 10 Training Loss: 0.148958
batch: 11 Training Loss: 0.140264
batch: 12 Training Loss: 0.133217
batch: 13 Training Loss: 0.124692
batch: 14 Training Loss: 0.120213
batch: 15 Training Loss: 0.114573
batch: 16 Training Loss: 0.111301
batch: 17 Training Loss: 0.107025

batch: 18 Training Loss: 0.107400
batch: 19 Training Loss: 0.104827
batch: 20 Training Loss: 0.100921
batch: 21 Training Loss: 0.097413
batch: 22 Training Loss: 0.099234
batch: 23 Training Loss: 0.099798
batch: 24 Training Loss: 0.099275
batch: 25 Training Loss: 0.098596
batch: 26 Training Loss: 0.106827
batch: 27 Training Loss: 0.105392
batch: 28 Training Loss: 0.103686
batch: 29 Training Loss: 0.111104
batch: 30 Training Loss: 0.113522
batch: 31 Training Loss: 0.111771
batch: 32 Training Loss: 0.115135
batch: 33 Training Loss: 0.112508
batch: 34 Training Loss: 0.110763
batch: 35 Training Loss: 0.110984
batch: 36 Training Loss: 0.112589
batch: 37 Training Loss: 0.111505
batch: 38 Training Loss: 0.112825
batch: 39 Training Loss: 0.111697
batch: 40 Training Loss: 0.109588
batch: 41 Training Loss: 0.108392
batch: 42 Training Loss: 0.106696
batch: 43 Training Loss: 0.104911
batch: 44 Training Loss: 0.103037
batch: 45 Training Loss: 0.101604
batch: 46 Training Loss: 0.104563
batch: 47 Training Loss: 0.106451
batch: 48 Training Loss: 0.107956
batch: 49 Training Loss: 0.109663
batch: 50 Training Loss: 0.109673
batch: 51 Training Loss: 0.108420
batch: 52 Training Loss: 0.107780
batch: 53 Training Loss: 0.105882
batch: 54 Training Loss: 0.104171
batch: 55 Training Loss: 0.104918
batch: 56 Training Loss: 0.103949
batch: 57 Training Loss: 0.102888
batch: 58 Training Loss: 0.106992
batch: 59 Training Loss: 0.106902
batch: 60 Training Loss: 0.105616
batch: 61 Training Loss: 0.105067
batch: 62 Training Loss: 0.105835
batch: 63 Training Loss: 0.104582
batch: 64 Training Loss: 0.103835
batch: 65 Training Loss: 0.102430
batch: 66 Training Loss: 0.101735
batch: 67 Training Loss: 0.100488
batch: 68 Training Loss: 0.100537
batch: 69 Training Loss: 0.100093
batch: 70 Training Loss: 0.103647
batch: 71 Training Loss: 0.102890
batch: 72 Training Loss: 0.102772
batch: 73 Training Loss: 0.102517
batch: 74 Training Loss: 0.101232
batch: 75 Training Loss: 0.102192
batch: 76 Training Loss: 0.101581
batch: 77 Training Loss: 0.100531
batch: 78 Training Loss: 0.101165
batch: 79 Training Loss: 0.101017
batch: 80 Training Loss: 0.101563
batch: 81 Training Loss: 0.101660
batch: 82 Training Loss: 0.100633
batch: 83 Training Loss: 0.099869
batch: 84 Training Loss: 0.100109
batch: 85 Training Loss: 0.099243
batch: 86 Training Loss: 0.101255
batch: 87 Training Loss: 0.100714
batch: 88 Training Loss: 0.099832
batch: 89 Training Loss: 0.099333
batch: 90 Training Loss: 0.099412
batch: 91 Training Loss: 0.098980
batch: 92 Training Loss: 0.099047
batch: 93 Training Loss: 0.100625
batch: 94 Training Loss: 0.103650
batch: 95 Training Loss: 0.107364
batch: 96 Training Loss: 0.107586
batch: 97 Training Loss: 0.107192
batch: 98 Training Loss: 0.107177
batch: 99 Training Loss: 0.107123
batch: 100 Training Loss: 0.107322
batch: 101 Training Loss: 0.107076
batch: 102 Training Loss: 0.106168
batch: 103 Training Loss: 0.106261
batch: 104 Training Loss: 0.105432
batch: 105 Training Loss: 0.105236
batch: 106 Training Loss: 0.105136
batch: 107 Training Loss: 0.104641
batch: 108 Training Loss: 0.104323

batch: 109 Training Loss: 0.103680
batch: 110 Training Loss: 0.104256
batch: 111 Training Loss: 0.103440
batch: 112 Training Loss: 0.102765
batch: 113 Training Loss: 0.102821
batch: 114 Training Loss: 0.103497
batch: 115 Training Loss: 0.103164
batch: 116 Training Loss: 0.102963
batch: 117 Training Loss: 0.103857
batch: 118 Training Loss: 0.103803
batch: 119 Training Loss: 0.103902
batch: 120 Training Loss: 0.103382
batch: 121 Training Loss: 0.104445
batch: 122 Training Loss: 0.104650
batch: 123 Training Loss: 0.104103
batch: 124 Training Loss: 0.104329
batch: 125 Training Loss: 0.103875
batch: 126 Training Loss: 0.103687
batch: 127 Training Loss: 0.103142
batch: 128 Training Loss: 0.104170
batch: 129 Training Loss: 0.105291
batch: 130 Training Loss: 0.105123
batch: 131 Training Loss: 0.104438
batch: 132 Training Loss: 0.104815
batch: 133 Training Loss: 0.104196
batch: 134 Training Loss: 0.105052
batch: 135 Training Loss: 0.105436
batch: 136 Training Loss: 0.105570
batch: 137 Training Loss: 0.104936
batch: 138 Training Loss: 0.104684
batch: 139 Training Loss: 0.104223
batch: 140 Training Loss: 0.104201
batch: 141 Training Loss: 0.104255
batch: 142 Training Loss: 0.104943
batch: 143 Training Loss: 0.105633
batch: 144 Training Loss: 0.105044
batch: 145 Training Loss: 0.106217
batch: 146 Training Loss: 0.106134
batch: 147 Training Loss: 0.106846
batch: 148 Training Loss: 0.106259
batch: 149 Training Loss: 0.105844
batch: 150 Training Loss: 0.106224
batch: 151 Training Loss: 0.106183
batch: 152 Training Loss: 0.106136
batch: 153 Training Loss: 0.105935
batch: 154 Training Loss: 0.106676
batch: 155 Training Loss: 0.106337
batch: 156 Training Loss: 0.106912
batch: 157 Training Loss: 0.106891
batch: 158 Training Loss: 0.106766
batch: 159 Training Loss: 0.106691
batch: 160 Training Loss: 0.106556
batch: 161 Training Loss: 0.106374
batch: 162 Training Loss: 0.105837
batch: 163 Training Loss: 0.107335
batch: 164 Training Loss: 0.106749
batch: 165 Training Loss: 0.106425
batch: 166 Training Loss: 0.106351
batch: 167 Training Loss: 0.105963
batch: 168 Training Loss: 0.105418
batch: 169 Training Loss: 0.105220
batch: 170 Training Loss: 0.105038
batch: 171 Training Loss: 0.104704
batch: 172 Training Loss: 0.104363
batch: 173 Training Loss: 0.104360
batch: 174 Training Loss: 0.104421
batch: 175 Training Loss: 0.103965
batch: 176 Training Loss: 0.104878
batch: 177 Training Loss: 0.104842
batch: 178 Training Loss: 0.104375
batch: 179 Training Loss: 0.104434
batch: 180 Training Loss: 0.104140
batch: 181 Training Loss: 0.103759
batch: 182 Training Loss: 0.103524
batch: 183 Training Loss: 0.103304
batch: 184 Training Loss: 0.103045
batch: 185 Training Loss: 0.103678
batch: 186 Training Loss: 0.103551
batch: 187 Training Loss: 0.103429
batch: 188 Training Loss: 0.103449
batch: 189 Training Loss: 0.103359
batch: 190 Training Loss: 0.103214
batch: 191 Training Loss: 0.102968
batch: 192 Training Loss: 0.102812
batch: 193 Training Loss: 0.102851
batch: 194 Training Loss: 0.102513
batch: 195 Training Loss: 0.102267
batch: 196 Training Loss: 0.102312
batch: 197 Training Loss: 0.102253
batch: 198 Training Loss: 0.102285
batch: 199 Training Loss: 0.103115

batch: 200 Training Loss: 0.102720
batch: 201 Training Loss: 0.104098
batch: 202 Training Loss: 0.103708
batch: 203 Training Loss: 0.103523
batch: 204 Training Loss: 0.104136
batch: 205 Training Loss: 0.103954
batch: 206 Training Loss: 0.103598
batch: 207 Training Loss: 0.103241
batch: 208 Training Loss: 0.103031
Epoch: 85 Training Loss: 0.103031 Validation Loss: 1.351801
batch: 0 Training Loss: 0.098895
batch: 1 Training Loss: 0.087264
batch: 2 Training Loss: 0.091499
batch: 3 Training Loss: 0.092000
batch: 4 Training Loss: 0.078076
batch: 5 Training Loss: 0.088309
batch: 6 Training Loss: 0.084603
batch: 7 Training Loss: 0.085714
batch: 8 Training Loss: 0.086285
batch: 9 Training Loss: 0.081055
batch: 10 Training Loss: 0.090117
batch: 11 Training Loss: 0.087486
batch: 12 Training Loss: 0.097796
batch: 13 Training Loss: 0.110350
batch: 14 Training Loss: 0.106351
batch: 15 Training Loss: 0.106592
batch: 16 Training Loss: 0.102753
batch: 17 Training Loss: 0.101524
batch: 18 Training Loss: 0.122171
batch: 19 Training Loss: 0.122402
batch: 20 Training Loss: 0.120456
batch: 21 Training Loss: 0.126808
batch: 22 Training Loss: 0.123753
batch: 23 Training Loss: 0.131292
batch: 24 Training Loss: 0.137839
batch: 25 Training Loss: 0.132959
batch: 26 Training Loss: 0.133716
batch: 27 Training Loss: 0.130299
batch: 28 Training Loss: 0.127244
batch: 29 Training Loss: 0.129371
batch: 30 Training Loss: 0.129027
batch: 31 Training Loss: 0.136609
batch: 32 Training Loss: 0.134296
batch: 33 Training Loss: 0.132451
batch: 34 Training Loss: 0.132132
batch: 35 Training Loss: 0.129528
batch: 36 Training Loss: 0.128459
batch: 37 Training Loss: 0.125679
batch: 38 Training Loss: 0.123180
batch: 39 Training Loss: 0.121300
batch: 40 Training Loss: 0.119096
batch: 41 Training Loss: 0.116775
batch: 42 Training Loss: 0.114854
batch: 43 Training Loss: 0.113719
batch: 44 Training Loss: 0.111953
batch: 45 Training Loss: 0.115018
batch: 46 Training Loss: 0.115079
batch: 47 Training Loss: 0.115273
batch: 48 Training Loss: 0.113549
batch: 49 Training Loss: 0.114840
batch: 50 Training Loss: 0.113663
batch: 51 Training Loss: 0.113660
batch: 52 Training Loss: 0.112653
batch: 53 Training Loss: 0.112697
batch: 54 Training Loss: 0.111241
batch: 55 Training Loss: 0.109810
batch: 56 Training Loss: 0.109881
batch: 57 Training Loss: 0.108793
batch: 58 Training Loss: 0.107607
batch: 59 Training Loss: 0.108778
batch: 60 Training Loss: 0.107530
batch: 61 Training Loss: 0.106828
batch: 62 Training Loss: 0.105691
batch: 63 Training Loss: 0.104557
batch: 64 Training Loss: 0.103548
batch: 65 Training Loss: 0.103671
batch: 66 Training Loss: 0.102522
batch: 67 Training Loss: 0.101103
batch: 68 Training Loss: 0.100883
batch: 69 Training Loss: 0.102908
batch: 70 Training Loss: 0.104115
batch: 71 Training Loss: 0.104595
batch: 72 Training Loss: 0.104449
batch: 73 Training Loss: 0.104234
batch: 74 Training Loss: 0.103418
batch: 75 Training Loss: 0.104334
batch: 76 Training Loss: 0.103222
batch: 77 Training Loss: 0.103089
batch: 78 Training Loss: 0.102090
batch: 79 Training Loss: 0.101152
batch: 80 Training Loss: 0.102783

```
batch: 81      Training Loss: 0.102605
batch: 82      Training Loss: 0.102660
batch: 83      Training Loss: 0.101934
batch: 84      Training Loss: 0.102163
batch: 85      Training Loss: 0.101540
batch: 86      Training Loss: 0.101558
batch: 87      Training Loss: 0.100591
batch: 88      Training Loss: 0.099684
batch: 89      Training Loss: 0.098828
batch: 90      Training Loss: 0.098120
batch: 91      Training Loss: 0.097194
batch: 92      Training Loss: 0.098634
batch: 93      Training Loss: 0.097753
batch: 94      Training Loss: 0.097361
batch: 95      Training Loss: 0.096544
batch: 96      Training Loss: 0.096380
batch: 97      Training Loss: 0.095664
batch: 98      Training Loss: 0.094993
batch: 99      Training Loss: 0.094889
batch: 100     Training Loss: 0.094044
batch: 101     Training Loss: 0.093699
batch: 102     Training Loss: 0.094891
batch: 103     Training Loss: 0.094740
batch: 104     Training Loss: 0.096388
batch: 105     Training Loss: 0.096478
batch: 106     Training Loss: 0.096537
batch: 107     Training Loss: 0.095839
batch: 108     Training Loss: 0.095406
batch: 109     Training Loss: 0.095839
batch: 110     Training Loss: 0.095705
batch: 111     Training Loss: 0.096249
batch: 112     Training Loss: 0.095640
batch: 113     Training Loss: 0.095156
batch: 114     Training Loss: 0.094908
batch: 115     Training Loss: 0.094847
batch: 116     Training Loss: 0.096234
batch: 117     Training Loss: 0.097613
batch: 118     Training Loss: 0.100183
batch: 119     Training Loss: 0.100312
batch: 120     Training Loss: 0.100223
batch: 121     Training Loss: 0.099530
batch: 122     Training Loss: 0.099806
batch: 123     Training Loss: 0.100720
batch: 124     Training Loss: 0.100813
batch: 125     Training Loss: 0.100155
batch: 126     Training Loss: 0.099963
batch: 127     Training Loss: 0.099723
batch: 128     Training Loss: 0.099803
batch: 129     Training Loss: 0.099444
batch: 130     Training Loss: 0.100579
batch: 131     Training Loss: 0.100039
batch: 132     Training Loss: 0.100365
batch: 133     Training Loss: 0.099709
batch: 134     Training Loss: 0.099006
batch: 135     Training Loss: 0.099231
batch: 136     Training Loss: 0.098745
batch: 137     Training Loss: 0.099501
batch: 138     Training Loss: 0.099394
batch: 139     Training Loss: 0.101358
batch: 140     Training Loss: 0.100783
batch: 141     Training Loss: 0.100347
batch: 142     Training Loss: 0.099896
batch: 143     Training Loss: 0.099377
batch: 144     Training Loss: 0.098888
batch: 145     Training Loss: 0.098952
batch: 146     Training Loss: 0.098389
batch: 147     Training Loss: 0.099101
batch: 148     Training Loss: 0.099047
batch: 149     Training Loss: 0.098808
batch: 150     Training Loss: 0.099582
batch: 151     Training Loss: 0.099218
batch: 152     Training Loss: 0.099736
batch: 153     Training Loss: 0.100583
batch: 154     Training Loss: 0.100334
batch: 155     Training Loss: 0.099859
batch: 156     Training Loss: 0.101619
batch: 157     Training Loss: 0.101436
batch: 158     Training Loss: 0.101725
```

```
-----  
KeyboardInterrupt                         Traceback (most recent call last)
```

```
<ipython-input-32-232628e3b1ca> in <module>()
```

```
  1 n_epochs = 100
```

```
--> 2 model_transfer = train(n_epochs, loaders_transfer, model_transfer, optimizer_transfer, criterion_transfer, use_cuda, 'model_transfer'
   3
```

```
-----  
          1 frames -----
```

```
/usr/local/lib/python3.6/dist-packages/torch/tensor.py in __format__(self, format_spec)
```

```
  359     def __format__(self, format_spec):
```

```
  360         if self.dim() == 0:
```

```
--> 361             return self.item().__format__(format_spec)
```

```
  362         return object.__format__(self, format_spec)
```

KeyboardInterrupt:

SEARCH STACK OVERFLOW

```
# load the model that got the best validation accuracy (uncomment the line below)
model_transfer.load_state_dict(torch.load('model_transfer.pt'))
```

→

▼ (IMPLEMENTATION) Test the Model

Try out your model on the test dataset of dog images. Use the code cell below to calculate and print the test loss and accuracy. Ensure that your test accuracy is greater than 60%.

```
test(loaders_transfer, model_transfer, criterion_transfer, use_cuda)
```

→

▼ (IMPLEMENTATION) Predict Dog Breed with the Model

Write a function that takes an image path as input and returns the dog breed (`Affenpinscher`, `Afghan hound`, etc) that is predicted by your model.

```
### TODO: Write a function that takes a path to an image as input
### and returns the dog breed that is predicted by the model.

def predict_breed_transfer(img_path):
    # load the image and return the predicted breed

    data_transfer = loaders_transfer

    # list of class names by index, i.e. a name can be accessed like class_names[0]
    class_names = [item[4:].replace("_", " ") for item in data_transfer['train'].dataset.classes]

    transform = transforms.Compose([transforms.Resize((256,256)),
                                    transforms.ToTensor(),
                                    transforms.Normalize(
                                        mean=[0.485, 0.456, 0.406],
                                        std=[0.229, 0.224, 0.225]),
                                    ])

    img = Image.open(img_path).convert('RGB')

    img = transform(img).unsqueeze(0)
    img = img.cuda()
    output = model_transfer(img)

    #return index of highest class
    _, pred = torch.max(output, 1)

    return class_names[pred]
```

```
dog_data = np.array(glob("/data/dog_images/train/*/*"))
```

```
path = os.path.join(root_dir, "model_transfer.pt")
model_transfer.load_state_dict(torch.load(path))
```

→

```
for img_path in dog_data[0:20]:
    output = predict_breed_transfer(img_path)
    print('dog bread >>>', img_path.split('/')[-1], "Prediction >>> ", output)
```

→

▼ Step 5: Write your Algorithm

Write an algorithm that accepts a file path to an image and first determines whether the image contains a human, dog, or neither. Then,

- if a **dog** is detected in the image, return the predicted breed.
- if a **human** is detected in the image, return the resembling dog breed.
- if **neither** is detected in the image, provide output that indicates an error.

You are welcome to write your own functions for detecting humans and dogs in images, but feel free to use the `face_detector` and `dog_detector` functions developed above. You are **required** to use your CNN from Step 4 to predict dog breed.

Some sample output for our algorithm is provided below, but feel free to design your own user experience!



(IMPLEMENTATION) Write your Algorithm

```
### TODO: Write your algorithm.  
### Feel free to use as many code cells as needed.  
  
def run_app(img_path):  
    ## handle cases for a human face, dog, and neither  
    if face_detector(img_path):  
        print('Human detected')  
        resemblance = predict_breed_transfer(img_path)  
        img = cv2.imread(img_path)  
        img = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)  
        plt.imshow(img)  
        plt.show()  
        print('Odd, you also look like a ', resemblance)  
  
    elif dog_detector(img_path):  
        print('Dog detected')  
        breed = predict_breed_transfer(img_path)  
        img = cv2.imread(img_path)  
        img = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)  
        plt.imshow(img)  
        plt.show()  
        print('Detected breed', breed)  
  
    else:  
        print('No dog or human faces detected')  
        img = cv2.imread(img_path)  
        img = cv2.cvtColor(img, cv2.COLOR_BGR2RGB)  
        img = cv2.imread(img_path)  
        plt.imshow(img)  
        plt.show()
```

▼ Step 6: Test Your Algorithm

In this section, you will take your new algorithm for a spin! What kind of dog does the algorithm think that *you* look like? If you have a dog, does it predict your dog's breed accurately? If you have a cat, does it mistakenly think that your cat is a dog?

(IMPLEMENTATION) Test Your Algorithm on Sample Images!

Test your algorithm at least six images on your computer. Feel free to use any images you like. Use at least two human and two dog images.

Question 6: Is the output better than you expected :) ? Or worse :(? Provide at least three possible points of improvement for your algorithm.

Answer: (Three possible points for improvement)

Didnt perform as expected :(

1. Dog breed detection model could have been trained more
2. Could have also trained on more data.
3. Augmented the data more.

```
## TODO: Execute your algorithm from Step 6 on  
## at least 6 images on your computer.  
## Feel free to use as many code cells as needed.
```

```
## suggested code, below  
for file in np.hstack((human_files[3:8], dog_files[7:12])):  
    run_app(file)
```



