Face Generation

In this project, you'll define and train a DCGAN on a dataset of faces. Your goal is to get a generator network to generate *new* images of faces that look as realistic as possible!

The project will be broken down into a series of tasks from **loading in data to defining and training adversarial networks**. At the end of the notebook, you'll be able to visualize the results of your trained Generator to see how it performs; your generated samples should look like fairly realistic faces with small amounts of noise.

Get the Data

You'll be using the CelebFaces Attributes Dataset (CelebA) to train your adversarial networks.

This dataset is more complex than the number datasets (like MNIST or SVHN) you've been working with, and so, you should prepare to define deeper networks and train them for a longer time to get good results. It is suggested that you utilize a GPU for training.

Pre-processed Data

Since the project's main focus is on building the GANs, we've done *some* of the pre-processing for you. Each of the CelebA images has been cropped to remove parts of the image that don't include a face, then resized down to 64x64x3 NumPy images. Some sample data is show below.



If you are working locally, you can download this data by clicking here

This is a zip file that you'll need to extract in the home directory of this notebook for further loading and processing. After extracting the data, you should be left with a directory of data processed_celeba_small/

```
import numpy as np
import problem_unittests as tests
#import helper

%matplotlib inline
```

Visualize the CelebA Data

The CelebA dataset contains over 200,000 celebrity images with annotations. Since you're going to be generating faces, you won't need the annotations, you'll only need the images. Note that these are color images with 3 color channels (RGB)#RGB_Images) each.

Pre-process and Load the Data

Since the project's main focus is on building the GANs, we've done *some* of the pre-processing for you. Each of the CelebA images has been cropped to remove parts of the image that don't include a face, then resized down to 64x64x3 NumPy images. This *pre-processed* dataset is a smaller subset of the very large CelebA data.

There are a few other steps that you'll need to **transform** this data and create a **DataLoader**.

Exercise: Complete the following <code>get_dataloader</code> function, such that it satisfies these requirements:

- Your images should be square, Tensor images of size image_size x image_size in the x and y dimension.
- Your function should return a DataLoader that shuffles and batches these Tensor images.

ImageFolder

To create a dataset given a directory of images, it's recommended that you use PyTorch's ImageFolder wrapper, with a root directory processed_celeba_small/ and data transformation passed in.

```
import torch
from torchvision import datasets
from torchvision import transforms

In []:

def get_dataloader(batch_size=64, image_size=32, data_dir='processed_celeba_small/'):
    """
    Batch the neural network data using DataLoader
    :param batch_size: The size of each batch; the number of images in a batch
    :param img_size: The square size of the image data (x, y)
    :param data_dir: Directory where image data is located
    :return: DataLoader with batched data
    """

# TODO: Implement function and return a dataLoader
```

Create a DataLoader

Exercise: Create a DataLoader celeba_train_loader with appropriate hyperparameters.

Call the above function and create a dataloader to view images.

- You can decide on any reasonable batch_size parameter
- Your image_size **must be** 32 . Resizing the data to a smaller size will make for faster training, while still creating convincing images of faces!

```
In [ ]: # Define function hyperparameters
batch_size = 64 #64
img_size = 32
"""

DON'T MODIFY ANYTHING IN THIS CELL THAT IS BELOW THIS LINE
"""

# Call your function and get a dataloader
celeba_train_loader = get_dataloader(batch_size, img_size)

# print(*celeba_train_loader)
```

Next, you can view some images! You should seen square images of somewhat-centered faces.

Note: You'll need to convert the Tensor images into a NumPy type and transpose the dimensions to correctly display an image, suggested imshow code is below, but it may not be perfect.

```
In []: # helper display function
    def imshow(img):
        npimg = img.numpy()
        plt.imshow(np.transpose(npimg, (1, 2, 0)))

"""

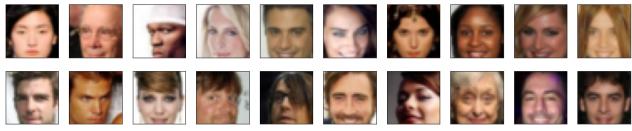
DON'T MODIFY ANYTHING IN THIS CELL THAT IS BELOW THIS LINE
"""

# obtain one batch of training images
    dataiter = iter(celeba_train_loader)
# print(len(dataiter))
```

```
images, _ = dataiter.next() # _ for no labels

# plot the images in the batch, along with the corresponding labels
fig = plt.figure(figsize=(20, 4))
plot_size=20
for idx in np.arange(plot_size):
    ax = fig.add_subplot(2, plot_size/2, idx+1, xticks=[], yticks=[])
    imshow(images[idx])
```

C:\Users\JGarza\AppData\Roaming\Python\Python37\site-packages\ipykernel_launcher.py:18: MatplotlibDeprecationWarning: Passing non-integers as three-element position specificati on is deprecated since 3.3 and will be removed two minor releases later.



Exercise: Pre-process your image data and scale it to a pixel range of -1 to 1

You need to do a bit of pre-processing; you know that the output of a tanh activated generator will contain pixel values in a range from -1 to 1, and so, we need to rescale our training images to a range of -1 to 1. (Right now, they are in a range from 0-1.)

```
# TODO: Complete the scale function
def scale(x, feature_range=(-1, 1)):
    ''' Scale takes in an image x and returns that image, scaled
    with a feature_range of pixel values from -1 to 1.
    This function assumes that the input x is already scaled from 0-1.'''
    # assume x is scaled to (0, 1)
    # scale to feature_range and return scaled x
    range_size = feature_range[1] - feature_range[0]

# print(feature_range[0],feature_range[1])
# print(range_size)

x = (x*range_size) + feature_range[0]

return x
```

```
In []:
    DON'T MODIFY ANYTHING IN THIS CELL THAT IS BELOW THIS LINE
    # check scaled range
    # should be close to -1 to 1
    img = images[0]
    scaled_img = scale(img)

# print(img.max(),img.min())

print('Min: ', scaled_img.min())
print('Max: ', scaled_img.max())
```

Min: tensor(-1.)

```
Max: tensor(1.)
^ close enough!
```

Define the Model

A GAN is comprised of two adversarial networks, a discriminator and a generator.

Discriminator

Your first task will be to define the discriminator. This is a convolutional classifier like you've built before, only without any maxpooling layers. To deal with this complex data, it's suggested you use a deep network with **normalization**. You are also allowed to create any helper functions that may be useful.

Exercise: Complete the Discriminator class

def init (self, conv dim):

- The inputs to the discriminator are 32x32x3 tensor images
- The output should be a single value that will indicate whether a given image is real or fake

```
In [ ]:
         import torch.nn as nn
         import torch.nn.functional as F
In [ ]:
         # from the lesson
         def conv(in channels, out channels, kernel size, stride=2, padding=1, batch norm=True):
             """Creates a convolutional layer, with optional batch normalization.
             layers = []
             conv layer = nn.Conv2d(in channels, out channels,
                                  kernel_size, stride, padding, bias=False)
             # append conv Layer
             layers.append(conv_layer)
             if batch norm:
                 # append batchnorm Layer
                 layers.append(nn.BatchNorm2d(out_channels))
             # using Sequential container
             return nn.Sequential(*layers)
In [ ]:
         print(torch.cuda.is_available())
        True
In [ ]:
         class Discriminator(nn.Module):
```

```
Initialize the Discriminator Module
        :param conv_dim: The depth of the first convolutional layer
        super(Discriminator, self).__init__()
        # complete init function
        self.conv dim = conv dim
        # print('conv_dim',conv_dim)
        self.conv1 = conv(3,conv_dim,4,batch_norm=False)
        self.conv2 = conv(conv_dim,conv_dim*2,4,batch_norm=True)
        self.conv3 = conv(conv_dim*2,conv_dim*4,4,batch_norm=True)
        self.conv4 = conv(conv_dim*4,conv_dim*8,4,batch_norm=True)
        self.fc = nn.Linear(conv dim*32,1)
        self.dropout = nn.Dropout(0.2)
    def forward(self, x):
        Forward propagation of the neural network
        :param x: The input to the neural network
        :return: Discriminator logits; the output of the neural network
        # define feedforward behavior
        # print(x.shape)
        x = F.leaky_relu(self.conv1(x),0.2)
        # print(x.shape)
        x = F.leaky_relu(self.conv2(x),0.2)
        # print(x.shape)
        x = F.leaky relu(self.conv3(x),0.2)
        # print(x.shape)
        x = F.leaky relu(self.conv4(x), 0.2)
        # print(x.shape)
        # print(batch size)
        # print(self.conv_dim*8*2*2)
        x = x.view(-1, self.conv_dim*32)
        # print(x.shape)
        \# x = self.fc1(x)
        \# x = self.fc2(x)
        x = self.dropout(x)
        x = self.fc(x)
        \# x = F.sigmoid(x) \# >. <
        return x
0.00
DON'T MODIFY ANYTHING IN THIS CELL THAT IS BELOW THIS LINE
tests.test_discriminator(Discriminator)
```

Generator

The generator should upsample an input and generate a *new* image of the same size as our training data 32x32x3. This should be mostly transpose convolutional layers with normalization applied to the outputs.

Exercise: Complete the Generator class

- The inputs to the generator are vectors of some length z_size
- The output should be a image of shape 32x32x3

```
In [ ]:
         class Generator(nn.Module):
             def __init__(self, z_size, conv_dim):
                 Initialize the Generator Module
                 :param z_size: The length of the input latent vector, z
                 :param conv dim: The depth of the inputs to the *last* transpose convolutional
                 super(Generator, self).__init__()
                 # complete init function
                 self.conv_dim=conv_dim
                 # self.fc = nn.Linear(z size,conv dim*64*2)
                 # self.fc = nn.Linear(z size,conv dim*64*2)
                 self.fc = nn.Linear(z_size,conv_dim*32)
                 # self.dconv0 = deconv(conv dim*16,conv dim*8,4,batch norm=True)
                 self.dconv1 = deconv(conv dim*8,conv dim*4,4,batch norm=True)
                 self.dconv2 = deconv(conv_dim*4,conv_dim*2,4,batch_norm=True)
                 self.dconv3 = deconv(conv_dim*2,conv_dim,4,batch_norm=True)
                 self.dconv4 = deconv(conv_dim,3,4,batch_norm=False)
                 # self.dconv1 = deconv(conv dim*64*2,conv dim*32,4,batch norm=True)
                 # self.dconv1 = deconv(1280, 320, 4, 4,conv_dim*32,4,batch_norm=True)
                 # self.dconv2 = deconv(conv dim*32,conv dim*32,4,batch norm=True)
```

```
# self.dconv3 = deconv(conv_dim*32,3,4,batch_norm=True)
        # self.dconv4 = deconv(conv dim*16,3,4,batch norm=False)
        # self.dconv4 = deconv(conv_dim*16,32,4,batch_norm=True)
    def forward(self, x):
        Forward propagation of the neural network
        :param x: The input to the neural network
        :return: A 32x32x3 Tensor image as output
        # define feedforward behavior
        # print(x.shape)
        \# x = F.relu(self.fc(x))
        x = self.fc(x)
        # print(x.shape)
        \# x = x.view(-1,self.conv_dim*16,2,2)
        x = x.view(-1,self.conv_dim*8,2,2)
        \# x = x.view(-1,self.conv_dim*32)
        \# x = x.view(-1,1280)
        # print(x.shape)
        \# x = F.relu(self.dconv0(x))
        # print(x.shape)
        x = F.relu(self.dconv1(x))
        # print(x.shape)
        x = F.relu(self.dconv2(x))
        # print(x.shape)
        x = F.relu(self.dconv3(x))
        # print(x.shape)
        \# x = F.relu(self.dconv4(x))
        x = self.dconv4(x)
        # print(x.shape)
        x = torch.tanh(x)
        # print(x.shape)
        return x
DON'T MODIFY ANYTHING IN THIS CELL THAT IS BELOW THIS LINE
tests.test_generator(Generator)
```

Tests Passed

Initialize the weights of your networks

To help your models converge, you should initialize the weights of the convolutional and linear layers in your model. From reading the original DCGAN paper, they say:

All weights were initialized from a zero-centered Normal distribution with standard deviation 0.02.

So, your next task will be to define a weight initialization function that does just this!

You can refer back to the lesson on weight initialization or even consult existing model code, such as that from the networks.py file in CycleGAN Github repository to help you complete this function.

Exercise: Complete the weight initialization function

- This should initialize only convolutional and linear layers
- Initialize the weights to a normal distribution, centered around 0, with a standard deviation of 0.02.
- The bias terms, if they exist, may be left alone or set to 0.

```
In [ ]:
         def weights_init_normal(m):
             Applies initial weights to certain layers in a model .
             The weights are taken from a normal distribution
             with mean = 0, std dev = 0.02.
             :param m: A module or layer in a network
             # classname will be something like:
             # `Conv`, `BatchNorm2d`, `Linear`, etc.
             mean = 0.0
             std = 0.02
             classname = m.__class__._name__
             # print(classname)
             if classname.find("Linear") != -1:
                 torch.nn.init.normal (m.weight.data, mean, std)
             if classname.find("Conv") != -1:
                 torch.nn.init.normal (m.weight.data, mean, std)
             if classname.find("BatchNorm") != -1:
                 torch.nn.init.normal_(m.weight.data, 1.0, std)
                 torch.nn.init.constant_(m.bias.data, mean)
             # TODO: Apply initial weights to convolutional and linear layers
```

Build complete network

Define your models' hyperparameters and instantiate the discriminator and generator from the classes defined above. Make sure you've passed in the correct input arguments.

```
In []:
    DON'T MODIFY ANYTHING IN THIS CELL THAT IS BELOW THIS LINE

def build_network(d_conv_dim, g_conv_dim, z_size):
    # define discriminator and generator
    D = Discriminator(d_conv_dim)
    G = Generator(z_size=z_size, conv_dim=g_conv_dim)
```

```
# initialize model weights
D.apply(weights_init_normal)
G.apply(weights_init_normal)

print(D)
print()
print(G)

return D, G
```

Exercise: Define model hyperparameters

```
In [ ]:
         # Define model hyperparams
         d conv dim = 64
         g_{conv_dim} = 64
         z size = 100
         DON'T MODIFY ANYTHING IN THIS CELL THAT IS BELOW THIS LINE
         D, G = build_network(d_conv_dim, g_conv_dim, z_size)
        Discriminator(
          (conv1): Sequential(
            (0): Conv2d(3, 64, kernel size=(4, 4), stride=(2, 2), padding=(1, 1), bias=False)
          (conv2): Sequential(
            (0): Conv2d(64, 128, kernel_size=(4, 4), stride=(2, 2), padding=(1, 1), bias=False)
            (1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=Tru
        e)
          (conv3): Sequential(
            (0): Conv2d(128, 256, kernel_size=(4, 4), stride=(2, 2), padding=(1, 1), bias=False)
            (1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=Tru
        e)
          (conv4): Sequential(
            (0): Conv2d(256, 512, kernel size=(4, 4), stride=(2, 2), padding=(1, 1), bias=False)
            (1): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stats=Tru
        e)
          (fc): Linear(in features=2048, out features=1, bias=True)
          (dropout): Dropout(p=0.2, inplace=False)
        )
        Generator(
          (fc): Linear(in features=100, out features=2048, bias=True)
          (dconv1): Sequential(
            (0): ConvTranspose2d(512, 256, kernel size=(4, 4), stride=(2, 2), padding=(1, 1), bi
        as=False)
            (1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track running stats=Tru
        e)
          (dconv2): Sequential(
            (0): ConvTranspose2d(256, 128, kernel_size=(4, 4), stride=(2, 2), padding=(1, 1), bi
        as=False)
            (1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=Tru
        e)
          )
```

```
(dconv3): Sequential(
    (0): ConvTranspose2d(128, 64, kernel_size=(4, 4), stride=(2, 2), padding=(1, 1), bia
s=False)
    (1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
)
    (dconv4): Sequential(
        (0): ConvTranspose2d(64, 3, kernel_size=(4, 4), stride=(2, 2), padding=(1, 1), bias=
False)
    )
)
```

Training on GPU

Check if you can train on GPU. Here, we'll set this as a boolean variable train_on_gpu . Later, you'll be responsible for making sure that

- Models,
- Model inputs, and
- Loss function arguments

Are moved to GPU, where appropriate.

```
In []:
    DON'T MODIFY ANYTHING IN THIS CELL
    import torch

# Check for a GPU
    train_on_gpu = torch.cuda.is_available()
    if not train_on_gpu:
        print('No GPU found. Please use a GPU to train your neural network.')
    else:
        print('Training on GPU!')
```

Training on GPU!

Discriminator and Generator Losses

Now we need to calculate the losses for both types of adversarial networks.

Discriminator Losses

- For the discriminator, the total loss is the sum of the losses for real and fake images, d_loss = d_real_loss + d_fake_loss.
- Remember that we want the discriminator to output 1 for real images and 0 for fake images, so we need to set up the losses to reflect that.

Generator Loss

The generator loss will look similar only with flipped labels. The generator's goal is to get the discriminator to *think* its generated images are *real*.

Exercise: Complete real and fake loss functions

You may choose to use either cross entropy or a least squares error loss to complete the following real_loss and fake_loss functions.

```
In [ ]:
         def real_loss(D_out, smooth=False):
              '''Calculates how close discriminator outputs are to being real.
                param, D_out: discriminator logits
                return: real loss'''
             batch_size = D_out.size(0)
             if smooth:
                 labels = torch.ones(batch size)*0.9
             else:
                 labels = torch.ones(batch_size)
             if train_on_gpu:
                 labels = labels.cuda()
             criterion = nn.BCEWithLogitsLoss()
             loss = criterion(D_out.squeeze(), labels)
             return loss
         def fake loss(D out):
              '''Calculates how close discriminator outputs are to being fake.
                param, D out: discriminator logits
                return: fake loss'''
             batch_size = D_out.size(0)
             labels = torch.zeros(batch_size)
             if train_on_gpu:
                 labels = labels.cuda()
             criterion = nn.BCEWithLogitsLoss()
             loss = criterion(D out.squeeze(), labels)
             return loss
```

Optimizers

Exercise: Define optimizers for your Discriminator (D) and Generator (G)

Define optimizers for your models with appropriate hyperparameters.

```
import torch.optim as optim

learn_rate = 0.0005
betas = (0.3,0.999)

# Create optimizers for the discriminator D and generator G
d_optimizer = optim.Adam(D.parameters(),lr=learn_rate,betas=betas)
g_optimizer = optim.Adam(G.parameters(),lr=learn_rate,betas=betas)
```

Training

Training will involve alternating between training the discriminator and the generator. You'll use your functions real_loss and fake_loss to help you calculate the discriminator losses.

- You should train the discriminator by alternating on real and fake images
- Then the generator, which tries to trick the discriminator and should have an opposing loss function

Saving Samples

You've been given some code to print out some loss statistics and save some generated "fake" samples.

Exercise: Complete the training function

Keep in mind that, if you've moved your models to GPU, you'll also have to move any model inputs to GPU.

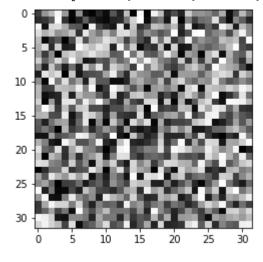
```
In []: # y = batch_size
# x = z_size
def noise_image(y,x, render=False):
    img = np.random.uniform(-1,1,size=(y,x))
    img = torch.from_numpy(img).float()

    if render:
        plt.imshow(img.numpy(),cmap='gray')

    return img

noise_image(32,32,True)

Out[]: tensor([[-0.4864, 0.1729, 0.4509, ..., -0.3829, 0.4499, -0.1046],
        [-0.6460, -0.5703, -0.2994, ..., 0.0704, -0.2615, -0.7033],
```



```
In [ ]:
        def train(D, G, n_epochs, print_every=50):
             '''Trains adversarial networks for some number of epochs
               param, D: the discriminator network
               param, G: the generator network
               param, n_epochs: number of epochs to train for
               param, print_every: when to print and record the models' losses
               return: D and G losses'''
            # move models to GPU
            if train_on_gpu:
                D.cuda()
                G.cuda()
            # keep track of loss and generated, "fake" samples
            samples = []
            losses = []
            # Get some fixed data for sampling. These are images that are held
            # constant throughout training, and allow us to inspect the model's performance
            sample size=16
            fixed z = np.random.uniform(-1, 1, size=(sample size, z size))
            fixed_z = torch.from_numpy(fixed_z).float()
            # # move z to GPU if available
            if train_on_gpu:
                fixed_z = fixed_z.cuda()
            # epoch training Loop
            for epoch in range(n epochs):
                # batch training loop
                for batch_i, (real_images, _) in enumerate(celeba_train_loader):
                    batch_size = real_images.size(0)
                    real images = scale(real images)
                    # zero gradding
                    d_optimizer.zero_grad()
                    g_optimizer.zero_grad()
                    YOUR CODE HERE: TRAIN THE NETWORKS
                    #move to qpu
                    if train on gpu:
                        real images = real images.cuda()
                    # 1. Train the discriminator on real and fake images
                    # out ri = D(real images)
                    loss ri = real loss(D(real images), smooth=False)
                    z = noise_image(batch_size,z_size)
                    if train_on_gpu:
                        z = z.cuda()
                    fake image = G(z)
                    # out_fi = D(fake_image)
                    loss_fi = fake_loss(D(fake_image))
```

```
d loss = loss ri + loss fi
       d_loss.backward()
       d_optimizer.step()
       # 2. Train the generator with an adversarial loss
       z = noise image(batch size, z size)
       if train_on_gpu:
           z = z.cuda()
       fake images = G(z)
       # out fi = D(fake images)
       g loss = real loss(D(fake images), smooth=True)
       g_loss.backward()
       g_optimizer.step()
       if train on gpu:
           torch.cuda.empty cache()
       END OF YOUR CODE
       # Print some loss stats
       if batch_i % print_every == 0:
           # append discriminator loss and generator loss
           losses.append((d_loss.item(), g_loss.item()))
           # print discriminator and generator loss
           print('Epoch [{:5d}/{:5d}] | d_loss: {:6.4f} | g_loss: {:6.4f}'.format(
                  epoch+1, n_epochs, d_loss.item(), g_loss.item()))
   ## AFTER EACH EPOCH##
   # this code assumes your generator is named G, feel free to change the name
   # generate and save sample, fake images
   G.eval() # for generating samples
   with torch.no_grad():
       samples_z = G(fixed_z)
       samples_z = samples_z.detach().cpu()
       samples.append(samples z)
   G.train() # back to training mode
# Save training generator samples
with open('train_samples.pkl', 'wb') as f:
   pkl.dump(samples, f)
# finally return losses
return losses
```

Set your number of training epochs and train your GAN!

```
250] | d loss: 1.4406 |
Epoch [
           1/
                                        g loss: 4.4779
                      d loss: 0.3479
Epoch [
           1/
               250]
                                        g loss: 4.5055
Epoch [
           1/
               250]
                    d_loss: 0.7663
                                        g_loss: 2.3329
Epoch [
           1/
               250] | d loss: 1.1998 |
                                        g_loss: 2.6846
                      d_loss: 1.0775
Epoch [
           1/
               250]
                                        g_loss: 0.7709
Epoch [
               250]
                      d loss: 1.1813
                                        g loss: 2.1448
           1/
               250]
                    d loss: 1.1991
                                        g loss: 4.0800
Epoch [
           1/
Epoch [
           1/
               250] | d_loss: 0.8334
                                        g_loss: 2.1560
Epoch [
           1/
               250]
                    1
                      d_loss: 1.5252
                                        g_loss: 3.1744
                      d_loss: 0.7860
                                        g_loss: 1.6747
Epoch [
           1/
               250]
                    250]
                      d loss: 1.0747
                                        g loss: 2.2535
Epoch [
           1/
                    Epoch [
           1/
               250]
                      d loss: 0.8730
                                        g_loss: 1.4115
Epoch [
           1/
               250]
                      d loss: 0.8914
                                        g loss: 1.1636
Epoch [
           1/
               250]
                    d_loss: 1.0966
                                        g_loss: 0.9129
Epoch [
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                                        g_loss: 1.9461
                      d_loss: 0.7404
                                        g_loss: 1.7450
Epoch [
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Epoch [
           1/
               250]
                      d loss: 0.9863
                                        g loss: 2.4212
                    1
Epoch [
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                    d loss: 0.7322
                                        g loss: 1.5123
                    d loss: 0.7936
                                        g_loss: 1.7413
Epoch [
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Epoch [
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                                        g_loss: 1.5992
           1/
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                                        g_loss: 1.3552
Epoch [
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                                        g loss: 2.1570
Epoch [
           1/
Epoch [
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                                        g_loss: 2.6983
                      d loss: 0.7787
                                        g loss: 2.9155
Epoch [
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                                        g_loss: 1.8635
Epoch [
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Epoch [
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Epoch [
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Epoch [
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                                        g loss: 3.3347
Epoch [
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           2/
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Epoch [
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                                        g_loss: 2.0053
Epoch [
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                                        g_loss: 2.7227
Epoch [
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                    Epoch [
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                                        g loss: 1.1136
Epoch [
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                                        g_loss: 3.5994
                      d loss: 0.7194
                                        g loss: 2.1353
Epoch [
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Epoch [
           2/
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                                        g_loss: 2.7452
Epoch [
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                                        g_loss: 1.5429
                      d_loss: 0.7326
                                        g_loss: 1.9858
Epoch [
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Epoch [
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                      d loss: 0.5239
                                        g loss: 1.5879
                    1
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               250]
                    d loss: 0.7585
                                        g loss: 3.0183
Epoch [
                    | d loss: 0.6112
                                        g_loss: 2.0523
Epoch [
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                    | d_loss: 1.0085
Epoch [
           2/
               250]
                                        g_loss: 3.1805
                    d_loss: 1.0724
                                        g_loss: 3.1594
Epoch [
           2/
               250]
           2/
               250]
                    d loss: 0.7638
                                        g loss: 2.9896
Epoch [
Epoch [
           2/
               250] | d loss: 0.8705
                                        g_loss: 2.6251
           2/
                      d loss: 1.5088
Epoch [
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                    1
                                        g loss: 1.0631
Epoch [
           2/
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                    | d_loss: 0.4951
                                        g_loss: 2.5027
Epoch [
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                    d loss: 0.7698
                                        g_loss: 1.4527
Epoch [
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                      d_loss: 0.6446
                                        g_loss: 2.2030
Epoch [
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               250]
                      d loss: 1.1722
                                        g loss: 4.2636
               250]
                      d loss: 0.7977
                                        g loss: 2.3549
Epoch [
           2/
           2/
               250] | d loss: 0.5157
                                        g_loss: 2.2414
Epoch [
                      d_loss: 0.6109
                                        g_loss: 2.3289
Epoch [
           2/
               250]
                    1
Epoch [
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               250]
                    d_loss: 0.8564
                                        g_loss: 2.2229
           2/
               250]
                      d loss: 0.6317
                                        g loss: 2.1782
Epoch [
                    Epoch [
           2/
               250]
                      d loss: 0.5084
                                        g_loss: 2.1805
Epoch [
           2/
               250]
                      d loss: 0.6101
                                        g loss: 2.1398
                                        g_loss: 1.1664
Epoch [
           2/
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                      d_loss: 0.7601
Epoch [
           3/
               250] |
                      d loss: 0.7857
                                        g_loss: 2.1567
                      d_loss: 0.7006 |
Epoch [
           3/
               250]
                                        g_loss: 3.0882
Epoch [
               250] | d loss: 1.1619 | g loss: 1.3023
```

```
250] | d loss: 0.4455 |
Epoch [
                                        g loss: 3.0405
           3/
                      d loss: 0.4811
Epoch [
           3/
               250]
                                        g loss: 2.3765
Epoch [
           3/
               250]
                    d_loss: 0.4791
                                        g_loss: 3.6071
Epoch [
           3/
               250] | d loss: 0.5450
                                        g loss: 1.9502
                      d_loss: 0.8597
Epoch [
           3/
               250]
                                        g_loss: 1.8074
Epoch [
           3/
               250]
                    d loss: 0.7071
                                        g loss: 3.1373
               250]
                    | d loss: 1.0665
                                        g loss: 1.2925
Epoch [
           3/
Epoch [
           3/
               250] | d loss: 0.5083
                                        g_loss: 2.3643
Epoch [
           3/
               250]
                    d_loss: 0.9601
                                        g_loss: 3.9849
                    d_loss: 0.8466
                                        g_loss: 1.9843
Epoch [
           3/
               250]
               250]
                    d loss: 0.9794
                                        g loss: 1.2688
Epoch [
           3/
Epoch [
               250]
                      d loss: 1.0331
                                        g_loss: 1.3260
           3/
Epoch [
           3/
               250]
                      d loss: 0.6676
                                        g loss: 1.5408
Epoch [
           3/
               250]
                    d_loss: 0.5292
                                        g_loss: 1.6754
Epoch [
           3/
               250] | d loss: 0.6968
                                        g_loss: 1.7986
                      d_loss: 0.7208
                                        g_loss: 2.1755
Epoch [
           3/
               250]
Epoch [
           3/
               250]
                      d loss: 0.7864
                                        g loss: 3.3041
                    1
Epoch [
           3/
               250]
                    d loss: 0.6780
                                        g loss: 2.3050
                    d_loss: 0.5586
                                        g_loss: 1.7199
Epoch [
           3/
               250]
Epoch [
               250]
                    | d_loss: 0.5626
                                        g_loss: 1.9963
           3/
                    | d_loss: 0.6681
                                        g_loss: 1.9338
Epoch [
           3/
               250]
               250] | d loss: 0.6554
                                        g loss: 1.8647
Epoch [
           3/
Epoch [
           3/
               250] | d loss: 0.7637
                                        g_loss: 2.6550
                      d loss: 1.2224
Epoch [
           3/
               250]
                                        g loss: 0.8477
Epoch [
           3/
               250]
                    | d_loss: 1.0081
                                        g_loss: 3.7185
Epoch [
           3/
               250]
                    d loss: 0.7679
                                        g_loss: 3.7010
                      d_loss: 1.3082
Epoch [
           4/
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                                        g_loss: 5.0653
Epoch [
           4/
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                    d loss: 0.5189
                                        g loss: 2.3383
           4/
               250]
                    | d loss: 0.5920
                                        g loss: 1.6789
Epoch [
           4/
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                                        g_loss: 2.0018
Epoch [
                      d_loss: 0.5833
                                        g_loss: 2.0341
Epoch [
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                    1
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                                        g_loss: 1.8022
Epoch [
           4/
               250]
                    Epoch [
           4/
               250]
                    d loss: 1.2258
                                        g loss: 4.2068
Epoch [
           4/
               250]
                      d loss: 0.7299
                                        g_loss: 1.8888
                      d loss: 0.7065
Epoch [
           4/
               250]
                                        g loss: 1.4018
                                        g_loss: 1.7079
Epoch [
           4/
               250]
                    d_loss: 0.4461
Epoch [
           4/
               250] | d loss: 0.9136
                                        g_loss: 3.4944
                      d_loss: 0.5898
                                        g_loss: 2.9733
Epoch [
           4/
               250]
Epoch [
           4/
               250]
                      d loss: 0.6993
                                        g loss: 2.0159
                    1
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               250]
                    d loss: 0.9043
                                        g loss: 3.2248
Epoch [
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                    | d loss: 1.0655
                                        g_loss: 0.8283
Epoch [
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                    d_loss: 1.3475
Epoch [
           4/
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                                        g_loss: 4.4731
                    | d_loss: 0.3111
                                        g_loss: 3.0882
Epoch [
           4/
               250]
           4/
                    d loss: 0.5141
                                        g loss: 1.6909
Epoch [
               250]
Epoch [
           4/
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                                        g_loss: 2.7351
                      d loss: 0.6297
Epoch [
           4/
               250]
                    1
                                        g loss: 2.3073
Epoch [
           4/
               250]
                    | d_loss: 0.4675
                                        g_loss: 3.4093
Epoch [
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                    d loss: 0.9843
                                        g_loss: 0.8198
Epoch [
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                                        g_loss: 3.9178
Epoch [
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               250]
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                                        g loss: 1.9619
           4/
               250]
                    d loss: 0.5925
                                        g loss: 3.0234
Epoch [
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                                        g_loss: 3.0785
Epoch [
                      d_loss: 1.0044
                                        g_loss: 3.0002
Epoch [
           4/
               250]
                    1
Epoch [
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                    d_loss: 0.5429
                                        g_loss: 3.3556
           4/
               250]
                    d loss: 0.4937
                                        g loss: 2.2884
Epoch [
Epoch [
           5/
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                      d loss: 0.7356
                                        g_loss: 2.0237
Epoch [
           5/
               250]
                      d loss: 0.5380
                                        g loss: 2.4043
Epoch [
           5/
               250]
                      d_loss: 0.5537
                                        g_loss: 3.1417
Epoch [
           5/
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                      d loss: 0.6455
                                        g_loss: 3.1481
Epoch [
           5/
               250]
                      d_loss: 0.8500 |
                                        g_loss: 0.9629
Epoch [
               250] | d loss: 0.6020 | g loss: 1.8444
```

```
250] | d loss: 0.7040 |
Epoch [
           5/
                                        g loss: 3.3029
                      d loss: 1.2563
Epoch [
           5/
               250]
                                         g loss: 5.6431
                                         g_loss: 2.4296
Epoch [
           5/
               250]
                    | d_loss: 0.5029
Epoch [
           5/
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                    | d loss: 0.6901
                                         g_loss: 4.2195
                      d_loss: 1.1255
                                         g_loss: 1.8380
Epoch [
           5/
               250]
Epoch [
           5/
               250]
                      d loss: 0.6071
                                         g loss: 3.1322
           5/
               250]
                      d loss: 0.8337
                                         g loss: 1.3289
Epoch [
Epoch [
           5/
               250] | d loss: 1.1648
                                         g_loss: 4.5488
Epoch [
           5/
               250]
                     1
                      d_loss: 1.0992
                                         g_loss: 1.6431
           5/
                      d_loss: 1.6027
                                         g_loss: 5.4674
Epoch [
               250]
                    5/
               250]
                      d loss: 0.4241
                                         g loss: 3.1312
Epoch [
Epoch [
           5/
               250]
                      d loss: 0.9105
                                         g_loss: 1.3621
Epoch [
           5/
               250]
                      d loss: 1.0286
                                         g loss: 5.2397
Epoch [
           5/
               250]
                      d_loss: 0.5938
                                         g_loss: 2.4269
Epoch [
           5/
               250] | d loss: 0.6844
                                         g_loss: 2.8895
                      d_loss: 0.8924
                                         g_loss: 3.7440
Epoch [
           5/
               250]
Epoch [
           5/
               250]
                      d loss: 0.6265
                                         g loss: 2.6144
                     1
Epoch [
           5/
               250]
                      d loss: 0.5278
                                         g loss: 1.5407
                    d loss: 1.7919
                                         g_loss: 0.6744
Epoch [
           5/
               250]
Epoch [
           5/
               250]
                      d_loss: 1.4252
                                         g_loss: 1.9082
                     d_loss: 0.7841
                                         g_loss: 4.1289
Epoch [
           5/
               250]
           5/
               250]
                    d loss: 0.4499
                                         g loss: 2.7321
Epoch [
Epoch [
           5/
               250] | d loss: 0.4312
                                         g_loss: 2.6297
                      d loss: 0.3896
                                         g loss: 2.9972
Epoch [
           6/
               250]
Epoch [
           6/
               250]
                      d_loss: 0.6865
                                         g_loss: 4.3536
                    Epoch [
           6/
               250]
                     d loss: 0.4947
                                         g_loss: 2.1002
                      d_loss: 0.5917
                                         g_loss: 2.2407
Epoch [
               250]
           6/
Epoch [
           6/
               250]
                      d loss: 0.4175
                                         g loss: 2.2403
               250]
                    | d loss: 1.1107
                                         g loss: 1.9608
Epoch [
           6/
Epoch [
               250] | d loss: 0.4090
                                         g_loss: 3.0164
           6/
                      d_loss: 0.6972
                                         g_loss: 3.9612
Epoch [
           6/
               250]
                     1
                      d_loss: 0.6615
                                         g_loss: 2.8864
Epoch [
           6/
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                    Epoch [
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               250]
                    d loss: 0.5340
                                         g loss: 2.6340
Epoch [
               250]
                      d loss: 0.9004
                                         g_loss: 4.6222
           6/
Epoch [
           6/
               250]
                      d loss: 0.2820
                                         g loss: 3.2727
Epoch [
           6/
               250]
                     d_loss: 0.6008
                                         g_loss: 3.0793
Epoch [
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               250]
                    d loss: 0.5054
                                         g_loss: 3.1682
                      d_loss: 0.8187
                                         g_loss: 4.0874
Epoch [
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               250]
Epoch [
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               250]
                      d loss: 0.4802
                                         g loss: 2.4515
                     1
               250]
                    d loss: 0.5748
                                         g loss: 2.0020
Epoch [
           6/
                     d loss: 0.3241
                                         g_loss: 3.0729
Epoch [
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               250]
Epoch [
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                      d_loss: 0.8116
                                         g_loss: 2.6162
           6/
                     d_loss: 0.5167
                                         g_loss: 2.3674
Epoch [
           6/
               250]
                    | d loss: 0.7337
                                         g loss: 2.7195
Epoch [
           6/
               250]
Epoch [
           6/
               250] | d loss: 0.3430
                                         g_loss: 3.4598
                      d loss: 0.3526
                                         g loss: 2.5981
Epoch [
           6/
               250]
Epoch [
           6/
               250]
                    d_loss: 1.0573
                                         g_loss: 4.1704
Epoch [
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                                         g_loss: 2.1135
Epoch [
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                      d_loss: 0.5298
                                         g_loss: 3.6640
           6/
Epoch [
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                      d loss: 0.3781
                                         g loss: 3.0854
           6/
               250]
                      d loss: 0.4477
                                         g loss: 1.9308
Epoch [
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                                         g_loss: 5.8179
Epoch [
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           7/
                      d_loss: 0.6882
                                         g_loss: 2.7835
Epoch [
               250]
                     1
Epoch [
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                    d_loss: 0.5432
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                      d loss: 0.7584
                                         g loss: 3.7164
Epoch [
                    Epoch [
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                      d loss: 0.7952
                                         g_loss: 3.9247
Epoch [
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                      d loss: 0.2896
                                         g loss: 3.1685
                                        g_loss: 1.9171
Epoch [
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               250]
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Epoch [
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                      d_loss: 0.5491
                                        g_loss: 4.3807
           7/
                      d_loss: 0.7913
Epoch [
               250]
                                        g_loss: 2.9222
Epoch [
               250] | d loss: 0.4740 | g loss: 1.5964
```

```
250] | d loss: 0.7537 |
Epoch [
           7/
                                        g loss: 2.4629
           7/
                      d loss: 0.6957
Epoch [
               250]
                                         g loss: 4.1183
Epoch [
           7/
               250]
                    d_loss: 0.8589
                                         g_loss: 3.2986
Epoch [
           7/
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                                         g loss: 4.5336
                      d_loss: 0.5154
                                         g_loss: 1.9979
Epoch [
           7/
               250]
Epoch [
           7/
               250]
                     d loss: 0.3665
                                         g loss: 2.4442
Epoch [
           7/
               250]
                    | d loss: 0.3395
                                         g loss: 2.7752
Epoch [
           7/
               250] | d loss: 0.4864
                                         g_loss: 2.6794
Epoch [
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                     1
                      d_loss: 0.5210
                                         g_loss: 1.3985
           7/
                      d_loss: 0.5014
                                         g_loss: 1.8951
Epoch [
               250]
                    7/
               250]
                      d loss: 0.3577
                                         g loss: 2.7514
Epoch [
Epoch [
           7/
               250]
                      d loss: 0.3925
                                         g_loss: 1.9216
Epoch [
           7/
               250]
                      d loss: 0.5311
                                         g loss: 4.2690
Epoch [
           7/
               250]
                      d_loss: 0.5162
                                         g_loss: 2.9491
Epoch [
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               250] | d_loss: 0.3795
                                         g_loss: 3.9450
           7/
                      d_loss: 0.2167
                                         g_loss: 3.3665
Epoch [
               250]
Epoch [
           7/
               250]
                      d loss: 1.0462
                                         g loss: 1.7443
                     1
Epoch [
           7/
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                    d loss: 0.4323
                                         g loss: 3.0529
           7/
               250]
                    | d loss: 0.6159
                                         g_loss: 2.2539
Epoch [
Epoch [
           7/
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                      d_loss: 0.4006
                                         g_loss: 3.0796
                     d_loss: 0.9629
                                         g_loss: 4.5031
Epoch [
           8/
               250]
           8/
               250]
                    d loss: 1.3356
                                         g loss: 6.3202
Epoch [
Epoch [
           8/
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                                         g_loss: 4.3242
                      d loss: 0.3450
                                         g loss: 4.0229
Epoch [
           8/
               250]
Epoch [
           8/
               250]
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                                         g_loss: 4.2870
                    Epoch [
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               250]
                     d loss: 0.5650
                                         g_loss: 4.6523
                      d_loss: 0.7310
Epoch [
           8/
               250]
                                         g_loss: 4.6781
Epoch [
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                      d loss: 0.7569
                                         g loss: 4.9617
           8/
               250]
                    d loss: 0.3271
                                         g loss: 3.9074
Epoch [
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                                         g_loss: 2.6354
Epoch [
                      d_loss: 0.4332
                                         g_loss: 3.4518
Epoch [
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                     1
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                                        g_loss: 1.8455
Epoch [
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               250]
                    Epoch [
           8/
               250]
                    d loss: 0.3859
                                         g loss: 2.5808
Epoch [
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                      d loss: 0.8383
                                         g_loss: 3.3573
Epoch [
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                      d loss: 0.5110
                                         g loss: 2.0403
Epoch [
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                     d_loss: 0.7546
                                         g_loss: 1.7080
Epoch [
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                                         g_loss: 1.1449
                      d_loss: 0.4525
                                         g_loss: 4.0065
Epoch [
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Epoch [
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                      d loss: 0.3392
                                         g loss: 2.7965
                     1
               250]
                    d loss: 0.6514
                                         g loss: 2.8649
Epoch [
           8/
                    d loss: 0.5024
                                         g_loss: 2.9787
Epoch [
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                                         g_loss: 2.7795
Epoch [
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           8/
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                                         g_loss: 3.6766
Epoch [
           8/
               250]
               250]
                    | d loss: 0.5162
                                         g loss: 1.7739
Epoch [
           8/
Epoch [
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                                         g_loss: 3.1211
                      d loss: 0.7477
Epoch [
           8/
               250]
                                         g loss: 4.5012
Epoch [
           8/
               250]
                    | d_loss: 0.3641
                                         g_loss: 3.4525
Epoch [
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                                         g_loss: 1.9445
Epoch [
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               250]
                      d_loss: 0.4660
                                         g_loss: 3.5825
Epoch [
           9/
               250]
                      d loss: 1.2342
                                         g loss: 1.1001
           9/
               250]
                      d loss: 0.3722
                                         g loss: 2.7313
Epoch [
           9/
               250] | d loss: 0.3101
                                         g_loss: 3.0506
Epoch [
                      d_loss: 0.4199
                                         g_loss: 3.2098
Epoch [
           9/
               250]
                     1
Epoch [
           9/
               250]
                    d_loss: 0.2872
                                        g_loss: 3.0096
           9/
               250]
                      d loss: 0.4597
                                         g loss: 2.7476
Epoch [
                    Epoch [
           9/
               250]
                      d loss: 0.3318
                                         g_loss: 2.3759
Epoch [
           9/
               250]
                      d loss: 0.4030
                                         g loss: 2.6389
Epoch [
           9/
               250]
                      d_loss: 0.3038
                                        g_loss: 3.1359
Epoch [
           9/
               250]
                      d_loss: 0.5082
                                        g_loss: 2.7855
           9/
                      d_loss: 0.2718
Epoch [
               250]
                                        g_loss: 4.1422
Epoch [
               250] | d loss: 0.3582 | g loss: 2.7138
```

```
250] | d loss: 0.2291 |
Epoch [
           9/
                                        g loss: 3.7795
                    | d loss: 0.5551
Epoch [
           9/
               250]
                                        g loss: 1.9253
Epoch [
           9/
               250] | d_loss: 0.2569
                                        g_loss: 4.0651
Epoch [
           9/
               250] | d loss: 0.6306 |
                                        g loss: 4.6467
                      d_loss: 0.9832
Epoch [
           9/
               250]
                                        g_loss: 1.2338
Epoch [
           9/
               250]
                    d loss: 0.3645
                                        g loss: 2.8849
           9/
               250]
                    d loss: 0.2780
                                        g loss: 2.6542
Epoch [
Epoch [
           9/
               250] | d loss: 0.5206
                                        g_loss: 4.7339
Epoch [
           9/
               250]
                    d_loss: 0.4431
                                        g_loss: 2.7291
           9/
                    d_loss: 0.3692
                                        g_loss: 2.4090
Epoch [
               250]
                                        g_loss: 4.1074
           9/
               250]
                    d loss: 0.1934
Epoch [
Epoch [
           9/
               250]
                    d loss: 0.3185
                                        g_loss: 2.9391
Epoch [
           9/
               250]
                    | d loss: 0.3618
                                        g loss: 3.1097
Epoch [
           9/
               250]
                    d_loss: 0.4061
                                        g_loss: 5.5228
Epoch [
           9/
               250] | d loss: 0.5881
                                        g_loss: 3.7968
           9/
                      d_loss: 0.2739
                                        g_loss: 2.4820
Epoch [
               250] |
Epoch [
           9/
               250]
                      d loss: 0.7443
                                        g loss: 1.0891
                    1
Epoch [
          10/
               250]
                    | d loss: 0.6230 |
                                        g loss: 3.9854
                    | d loss: 0.1656
                                        g_loss: 2.0086
Epoch [
          10/
               250]
Epoch [
          10/
               250]
                    | d_loss: 0.8031
                                        g_loss: 4.6951
          10/
                    d_loss: 0.5819
                                        g_loss: 3.6042
Epoch [
               250]
          10/
               250] | d loss: 0.7500
                                        g loss: 3.1808
Epoch [
Epoch [
          10/
               250] | d loss: 0.4969
                                        g_loss: 2.6421
Epoch [
                      d loss: 1.2118
          10/
               250]
                    1
                                        g loss: 1.1655
                                        g_loss: 1.8364
Epoch [
          10/
               250]
                    | d_loss: 0.3954 |
Epoch [
          10/
               250]
                    d loss: 0.6412
                                        g_loss: 2.8702
                      d_loss: 0.1913
Epoch [
          10/
               250]
                                        g_loss: 2.7189
Epoch [
          10/
               250]
                    d loss: 0.6648
                                        g loss: 3.1672
Epoch [
          10/
               250]
                    d loss: 0.3532
                                        g loss: 3.8260
Epoch [
          10/
               250] | d loss: 0.3792
                                        g_loss: 2.9712
                      d_loss: 0.6237
                                        g_loss: 1.3971
Epoch [
          10/
               250]
                    | d_loss: 0.5119 |
                                        g_loss: 3.7713
Epoch [
          10/
               250]
Epoch [
          10/
               250]
                    d loss: 0.3736
                                        g loss: 3.0863
Epoch [
          10/
               250]
                    d loss: 0.4675
                                        g_loss: 2.5682
Epoch [
                                        g loss: 2.4959
          10/
               250]
                    | d loss: 0.2453
Epoch [
          10/
               250]
                    d_loss: 0.3326
                                        g_loss: 3.5663
Epoch [
          10/
               250] | d loss: 0.3688
                                        g_loss: 3.6434
                      d_loss: 0.7175
                                        g_loss: 3.6916
Epoch [
          10/
               250] |
Epoch [
          10/
               250]
                      d loss: 0.1269
                                        g loss: 3.7446
                    Epoch [
          10/
               250]
                    d loss: 0.4330
                                        g loss: 4.0160
               250]
                    d loss: 0.0950
                                        g_loss: 3.5052
Epoch [
          10/
Epoch [
          10/
               250]
                    d loss: 0.2543
                                        g_loss: 2.4270
          10/
                    d_loss: 0.5971
                                        g_loss: 4.2204
Epoch [
               250]
          10/
               250] | d loss: 0.8649
                                        g loss: 1.2809
Epoch [
Epoch [
          10/
               250] | d loss: 0.3743
                                        g_loss: 3.7598
Epoch [
                      d loss: 0.5899
                                        g loss: 1.1883
          10/
               250]
                    1
Epoch [
          11/
               250]
                    | d_loss: 0.9339 |
                                        g_loss: 5.3788
Epoch [
          11/
               250]
                    d loss: 0.3660
                                        g_loss: 5.2729
Epoch [
          11/
               250]
                      d_loss: 0.2058
                                        g_loss: 3.4711
Epoch [
          11/
               250]
                    d loss: 0.3026
                                        g loss: 3.4176
Epoch [
               250]
                    d loss: 1.3266
          11/
                                        g loss: 1.2728
Epoch [
               250] | d loss: 0.8135
                                        g_loss: 1.7994
          11/
                      d_loss: 0.5171
                                        g_loss: 2.8933
Epoch [
          11/
               250]
                    Epoch [
          11/
               250]
                    d_loss: 0.3468
                                        g_loss: 4.3314
                                        g_loss: 1.8152
               250]
                    d loss: 0.8204
Epoch [
          11/
Epoch [
          11/
               250]
                    d loss: 0.4089
                                        g_loss: 2.4978
Epoch [
          11/
               250]
                      d loss: 0.3343
                                        g loss: 2.7216
Epoch [
          11/
               250]
                      d_loss: 0.6360
                                        g_loss: 3.3675
Epoch [
          11/
               250] |
                      d loss: 0.3253
                                        g_loss: 2.1406
Epoch [
          11/
               250]
                      d_loss: 0.4101 |
                                        g_loss: 4.9939
Epoch [
               250] | d loss: 0.3708 | g loss: 2.5725
```

```
250] | d loss: 0.2188 |
Epoch [
          11/
                                        g loss: 2.8976
                    d loss: 0.3926
Epoch [
          11/
               250]
                                        g loss: 2.2386
          11/
Epoch [
               250] | d_loss: 0.4621
                                        g_loss: 3.6461
Epoch [
          11/
               250] | d loss: 0.2429
                                        g loss: 4.1667
Epoch [
          11/
               250]
                      d_loss: 0.1643
                                        g_loss: 4.4523
Epoch [
          11/
               250]
                    d loss: 0.4000
                                        g loss: 4.2643
Epoch [
          11/
               250]
                    d loss: 0.4673
                                        g loss: 1.9433
Epoch [
          11/
               250] | d loss: 0.4224
                                        g_loss: 3.5871
Epoch [
          11/
               250]
                    d_loss: 0.5279
                                        g_loss: 4.8401
                    d_loss: 0.1862
                                        g_loss: 3.4901
Epoch [
          11/
               250]
Epoch [
               250]
                    d loss: 0.4038
                                        g loss: 3.6546
          11/
Epoch [
          11/
               250]
                    d loss: 0.4257
                                        g_loss: 3.0010
Epoch [
          11/
               250]
                    | d loss: 0.6288
                                        g loss: 3.9707
Epoch [
          11/
               250]
                    d_loss: 0.1894
                                        g_loss: 2.0805
Epoch [
          12/
               250] | d loss: 0.2251
                                        g_loss: 1.9839
                      d_loss: 0.2152
                                        g_loss: 3.6759
Epoch [
          12/
               250] |
Epoch [
          12/
               250]
                      d loss: 0.3490
                                        g loss: 3.1685
                    1
Epoch [
          12/
               250]
                    d loss: 0.2520
                                        g loss: 2.3966
          12/
               250]
                    d loss: 0.6564
                                        g_loss: 3.9932
Epoch [
Epoch [
          12/
               250]
                    | d_loss: 0.5860
                                        g_loss: 4.4485
          12/
                    d_loss: 0.3682
                                        g_loss: 2.8698
Epoch [
               250]
Epoch [
          12/
               250] | d loss: 0.3935
                                        g loss: 3.0648
Epoch [
          12/
               250] | d loss: 0.8256
                                        g loss: 2.3118
Epoch [
          12/
                      d loss: 0.1206
                                        g loss: 3.2664
               250]
                    1
                                        g_loss: 2.5493
Epoch [
          12/
               250]
                    | d_loss: 0.3695
Epoch [
          12/
               250]
                    d loss: 0.4034
                                        g loss: 3.4274
          12/
                      d_loss: 0.3971
                                        g_loss: 4.0730
Epoch [
               250]
Epoch [
          12/
               250]
                    d loss: 0.6825
                                        g loss: 3.8766
Epoch [
          12/
               250]
                    | d loss: 0.3170
                                        g loss: 3.3389
Epoch [
          12/
               250] | d loss: 0.2542
                                        g_loss: 3.0966
          12/
                      d_loss: 0.3549
                                        g_loss: 3.2726
Epoch [
               250]
                    d_loss: 0.6222
                                        g_loss: 5.0296
Epoch [
          12/
               250]
Epoch [
          12/
               250]
                    d loss: 0.3714
                                        g loss: 2.0946
Epoch [
          12/
               250]
                    d loss: 0.3097
                                        g_loss: 2.6180
Epoch [
          12/
               250]
                    | d loss: 0.4583
                                        g loss: 3.6730
Epoch [
          12/
               250]
                    d_loss: 0.3977
                                        g_loss: 3.5286
Epoch [
          12/
               250] | d loss: 0.4067
                                        g_loss: 3.8230
                      d_loss: 0.2109
                                        g_loss: 3.6368
Epoch [
          12/
               250] |
Epoch [
          12/
               250]
                      d loss: 0.2237
                                        g loss: 3.7819
                    1
Epoch [
          12/
               250]
                    d loss: 0.5544
                                        g loss: 2.6986
          12/
               250]
                    d loss: 0.5661
                                        g_loss: 3.8850
Epoch [
Epoch [
          12/
               250]
                    d_loss: 0.3014
                                        g_loss: 4.1552
          12/
                    d_loss: 0.4828
                                        g_loss: 2.1062
Epoch [
               250]
          13/
               250] | d loss: 4.8550
                                        g loss: 7.9193
Epoch [
Epoch [
          13/
               250] | d loss: 0.4474
                                        g loss: 4.3391
Epoch [
                      d loss: 0.4805
          13/
               250]
                    1
                                        g loss: 4.9947
Epoch [
          13/
               250]
                    | d_loss: 0.4846
                                        g_loss: 4.7037
Epoch [
          13/
               250]
                    d loss: 0.5336
                                        g_loss: 5.5243
Epoch [
          13/
               250]
                      d_loss: 0.2163
                                        g_loss: 1.7393
Epoch [
          13/
               250]
                    d loss: 0.2538
                                        g loss: 3.1886
Epoch [
          13/
               250]
                    d loss: 0.3253
                                        g loss: 3.1842
Epoch [
          13/
               250] | d loss: 0.4559
                                        g_loss: 4.3650
                      d_loss: 0.3866
                                        g_loss: 3.0506
Epoch [
          13/
               250]
                    Epoch [
          13/
               250]
                    d_loss: 0.1827
                                        g_loss: 4.2596
          13/
               250]
                    d loss: 0.4620
                                        g loss: 2.9004
Epoch [
Epoch [
          13/
               250]
                    d loss: 0.8058
                                        g_loss: 2.6533
Epoch [
          13/
               250]
                      d loss: 0.4735
                                        g loss: 2.9215
                                        g_loss: 1.1840
Epoch [
          13/
               250]
                    d_loss: 0.5011
Epoch [
          13/
               250] | d loss: 0.2441
                                        g_loss: 4.6472
Epoch [
          13/
               250]
                      d_loss: 0.5020 |
                                        g_loss: 3.2478
Epoch [
               250] | d loss: 0.7236 | g loss: 5.1067
```

```
250] | d loss: 0.2878 |
Epoch [
          13/
                                        g loss: 3.1719
                    d loss: 0.3363
Epoch [
          13/
               250]
                                        g loss: 1.7780
                                        g_loss: 0.9149
Epoch [
          13/
               250] | d_loss: 1.0661
Epoch [
          13/
               250] | d loss: 0.7933
                                        g loss: 6.1600
          13/
                      d_loss: 0.4855
Epoch [
               250]
                                        g_loss: 3.2633
Epoch [
          13/
               250]
                    d loss: 0.3364
                                        g loss: 3.8831
Epoch [
          13/
               250]
                    d loss: 0.2751
                                        g loss: 2.1622
Epoch [
          13/
               250] | d loss: 0.2883
                                        g_loss: 2.5913
Epoch [
          13/
               250]
                    d_loss: 0.2668
                                        g_loss: 3.9689
                    d_loss: 0.0984
                                        g_loss: 4.3744
Epoch [
          13/
               250]
          13/
               250]
                    d loss: 0.4789
                                        g loss: 2.9144
Epoch [
Epoch [
          14/
               250]
                    d loss: 0.4208
                                        g_loss: 3.0690
Epoch [
          14/
               250]
                      d loss: 0.1072
                                        g loss: 3.7222
Epoch [
          14/
               250]
                    d_loss: 0.1295
                                        g_loss: 3.6525
Epoch [
          14/
               250] | d loss: 0.1601
                                        g_loss: 3.3281
                      d_loss: 0.4782
                                        g_loss: 4.5360
Epoch [
          14/
               250] |
Epoch [
          14/
               250]
                      d loss: 0.2898
                                        g loss: 3.3937
                    1
Epoch [
          14/
               250]
                    d loss: 0.7007
                                        g loss: 3.8831
          14/
               250]
                    d loss: 0.4458
                                        g_loss: 2.0799
Epoch [
Epoch [
          14/
               250]
                    d_loss: 0.2214
                                        g_loss: 2.7792
                    d_loss: 0.2156
                                        g_loss: 3.0204
Epoch [
          14/
               250]
          14/
               250] | d loss: 0.5053
                                        g loss: 3.8429
Epoch [
Epoch [
          14/
               250] | d loss: 0.2496
                                        g_loss: 3.2433
Epoch [
                      d loss: 0.4897
                                        g loss: 3.0374
          14/
               250]
Epoch [
          14/
               250]
                    | d_loss: 0.4798
                                        g_loss: 4.2393
Epoch [
          14/
               250]
                    d loss: 0.3499
                                        g_loss: 4.3851
                      d_loss: 0.3670
Epoch [
          14/
               250]
                                        g_loss: 5.1878
Epoch [
          14/
               250]
                    d loss: 0.1805
                                        g loss: 2.6591
Epoch [
          14/
               250]
                    | d loss: 0.1975
                                        g loss: 4.6974
Epoch [
          14/
               250] | d loss: 0.1228
                                        g_loss: 3.3690
                      d_loss: 0.4579
                                        g_loss: 5.3322
Epoch [
          14/
               250]
                    d_loss: 0.4816
                                        g_loss: 2.3826
Epoch [
          14/
               250]
Epoch [
          14/
               250]
                    | d loss: 0.5615
                                        g_loss: 4.8862
Epoch [
          14/
               250]
                    d loss: 0.3254
                                        g_loss: 4.4787
Epoch [
          14/
               250]
                    | d loss: 0.2809
                                        g loss: 6.8246
Epoch [
          14/
               250]
                    d_loss: 0.3845
                                        g_loss: 4.5585
Epoch [
          14/
               250] | d loss: 0.3533
                                        g loss: 4.1503
                      d_loss: 0.2962
                                        g_loss: 3.5996
Epoch [
          14/
               250] |
Epoch [
          14/
               250]
                      d loss: 0.3786
                                        g loss: 3.0978
                    1
Epoch [
          14/
               250]
                    d loss: 0.3663
                                        g loss: 2.9973
                                        g_loss: 6.2130
          15/
               250]
                    | d loss: 1.6209
Epoch [
Epoch [
          15/
               250]
                    | d_loss: 0.5689
                                        g_loss: 4.4052
                    d_loss: 0.7087
                                        g_loss: 2.2794
Epoch [
          15/
               250]
          15/
               250]
                    d loss: 0.1732
                                        g loss: 4.2512
Epoch [
Epoch [
          15/
               250] | d loss: 0.1671
                                        g loss: 3.4750
Epoch [
          15/
                      d loss: 4.0868
               250]
                    1
                                        g loss: 0.5995
Epoch [
          15/
               250]
                    | d_loss: 0.1869 |
                                        g_loss: 3.8664
Epoch [
          15/
               250]
                    d loss: 0.4796
                                        g_loss: 5.9860
Epoch [
          15/
               250]
                      d_loss: 0.3485
                                        g_loss: 2.7329
Epoch [
          15/
               250]
                      d loss: 0.2792
                                        g loss: 4.1211
Epoch [
          15/
               250]
                    d loss: 0.1221
                                        g loss: 3.2095
Epoch [
          15/
               250] | d loss: 0.4499
                                        g_loss: 2.9235
          15/
                      d_loss: 0.2185
Epoch [
               250]
                    g_loss: 3.5890
Epoch [
          15/
               250]
                    d_loss: 0.7987
                                        g_loss: 4.8870
                                        g_loss: 0.8807
          15/
               250]
                    d loss: 1.3386
Epoch [
Epoch [
          15/
               250]
                    d loss: 0.6647
                                        g_loss: 4.9987
Epoch [
          15/
               250]
                      d loss: 0.4077
                                        g loss: 4.4403
                                        g_loss: 3.3835
Epoch [
          15/
               250]
                    d_loss: 0.2304
Epoch [
          15/
               250] | d loss: 0.3861
                                        g loss: 5.6740
Epoch [
          15/
               250]
                      d_loss: 0.7071 |
                                        g_loss: 3.4573
Epoch [
               250] | d loss: 0.6876 | g loss: 5.0451
```

```
250] | d loss: 0.4730 |
Epoch [
          15/
                                        g loss: 4.1301
          15/
               250] | d loss: 0.3092
Epoch [
                                        g loss: 2.5622
                                        g_loss: 2.4193
Epoch [
          15/
               250] | d_loss: 0.4607
Epoch [
          15/
               250] | d loss: 0.3605 |
                                        g loss: 3.1773
          15/
Epoch [
               250]
                      d_loss: 0.4783
                                        g_loss: 1.2416
Epoch [
          15/
               250]
                    d loss: 1.4512
                                        g loss: 7.9871
Epoch [
          15/
               250]
                    d loss: 0.1954
                                        g loss: 3.7098
Epoch [
          15/
               250] | d loss: 0.5753
                                        g_loss: 2.0496
Epoch [
          16/
               250]
                    d loss: 0.2953
                                        g_loss: 4.2964
                    d_loss: 0.2491
                                        g_loss: 3.2135
Epoch [
          16/
               250]
Epoch [
          16/
               250]
                    d loss: 0.2594
                                        g loss: 4.1347
Epoch [
          16/
               250]
                    d loss: 0.3576
                                        g_loss: 3.0503
Epoch [
          16/
               250]
                      d loss: 0.3260
                                        g loss: 3.3585
Epoch [
          16/
               250]
                    d_loss: 0.3160
                                        g_loss: 4.1185
Epoch [
          16/
               250] | d loss: 0.2925
                                        g_loss: 5.1553
                      d_loss: 0.2777
                                        g_loss: 4.4585
Epoch [
          16/
               250] |
Epoch [
          16/
               250]
                      d loss: 0.2217
                                        g loss: 3.9060
                    1
Epoch [
          16/
               250]
                    d loss: 0.0895
                                        g loss: 4.0295
                    d loss: 0.3490
                                        g_loss: 3.1292
Epoch [
          16/
               250]
                                        g_loss: 4.3607
Epoch [
          16/
               250]
                    | d_loss: 0.1685
                    d_loss: 0.2580
                                        g_loss: 3.8141
Epoch [
          16/
               250]
Epoch [
          16/
               250] | d loss: 1.8209
                                        g loss: 0.4949
Epoch [
          16/
               250] | d loss: 0.8062
                                        g loss: 2.2094
Epoch [
          16/
                      d loss: 0.6138
                                        g loss: 1.0041
               250]
                    1
Epoch [
          16/
               250]
                    | d_loss: 0.9858
                                        g_loss: 1.3061
Epoch [
          16/
               250]
                    d loss: 0.5523
                                        g loss: 5.4262
                      d_loss: 0.2062
                                        g_loss: 2.9759
Epoch [
          16/
               250]
Epoch [
          16/
               250]
                    d loss: 1.2730
                                        g loss: 6.9249
Epoch [
          16/
               250]
                    | d loss: 0.2530
                                        g loss: 3.9799
Epoch [
               250] | d loss: 0.5535
                                        g_loss: 2.7476
          16/
                      d_loss: 0.3851
                                        g_loss: 5.3333
Epoch [
          16/
               250]
                    | d_loss: 0.1519 |
                                        g_loss: 4.0325
Epoch [
          16/
               250]
Epoch [
          16/
               250]
                    d loss: 0.2332
                                        g loss: 2.6770
Epoch [
          16/
               250]
                    d loss: 0.2983
                                        g_loss: 4.3065
Epoch [
                                        g loss: 3.8804
          16/
               250]
                    | d loss: 0.2095
Epoch [
          16/
               250]
                    d_loss: 0.2083
                                        g_loss: 2.0702
Epoch [
          16/
               250] | d loss: 0.3019
                                        g_loss: 4.2284
          17/
                      d_loss: 0.4979
                                        g_loss: 4.7164
Epoch [
               250] |
Epoch [
          17/
               250]
                      d loss: 0.3092
                                        g loss: 3.8690
                    Epoch [
          17/
               250]
                    d loss: 0.2849
                                        g loss: 4.1867
          17/
               250]
                    | d loss: 0.6102
                                        g_loss: 3.5044
Epoch [
Epoch [
          17/
               250]
                    | d_loss: 0.6646
                                        g_loss: 1.9064
          17/
                    | d_loss: 0.1517
                                        g_loss: 2.4985
Epoch [
               250]
          17/
               250] | d loss: 0.2364
                                        g loss: 2.8580
Epoch [
Epoch [
          17/
               250] | d loss: 0.4104
                                        g_loss: 5.4848
Epoch [
          17/
                      d loss: 0.1804
                                        g loss: 3.3524
               250]
                    1
Epoch [
          17/
               250]
                    | d_loss: 0.3796
                                        g_loss: 2.8616
Epoch [
          17/
               250]
                    d loss: 0.3593
                                        g_loss: 4.2903
Epoch [
          17/
               250]
                      d_loss: 0.3733
                                        g_loss: 2.8676
Epoch [
          17/
               250]
                    d loss: 0.9857
                                        g loss: 6.2162
Epoch [
          17/
               250]
                    d loss: 0.6435
                                        g loss: 5.4008
Epoch [
          17/
               250] | d loss: 2.1558
                                        g_loss: 1.2361
          17/
                      d_loss: 0.4321
                                        g_loss: 5.4545
Epoch [
               250]
                    Epoch [
          17/
               250]
                    d_loss: 0.2147
                                        g_loss: 4.0228
          17/
               250]
                    d loss: 0.3403
                                        g loss: 5.3093
Epoch [
Epoch [
          17/
               250]
                    d loss: 0.5392
                                        g_loss: 3.0497
Epoch [
          17/
               250]
                      d loss: 0.6174
                                        g loss: 5.7426
                                        g_loss: 4.4186
Epoch [
          17/
               250]
                    d_loss: 0.5864
Epoch [
          17/
               250] | d loss: 0.6504
                                        g_loss: 4.3708
Epoch [
          17/
               250] |
                      d_loss: 0.3488
                                        g_loss: 3.7090
Epoch [
          17/
               250] | d loss: 0.5676 | g loss: 3.7327
```

```
250] | d loss: 0.3291 |
Epoch [
          17/
                                        g loss: 3.7513
          17/
               250] | d loss: 0.4628
Epoch [
                                        g loss: 5.2563
Epoch [
          17/
               250] | d_loss: 0.2008
                                        g_loss: 4.6330
Epoch [
          17/
               250] | d loss: 0.2360 |
                                        g loss: 2.5034
          17/
                      d_loss: 0.2719
                                        g_loss: 4.3430
Epoch [
               250]
Epoch [
          18/
               250]
                    d loss: 1.3694
                                        g loss: 7.1607
Epoch [
          18/
               250]
                    d loss: 0.2737
                                        g loss: 2.9572
Epoch [
          18/
               250] | d loss: 0.2454
                                        g_loss: 4.7510
Epoch [
          18/
               250]
                    d_loss: 0.3799
                                        g_loss: 4.8934
                    d_loss: 0.6049
                                        g_loss: 3.1728
Epoch [
          18/
               250]
Epoch [
               250]
                    d loss: 0.6008
                                        g loss: 4.1101
          18/
Epoch [
          18/
               250]
                    d loss: 1.2735
                                        g_loss: 4.9311
Epoch [
          18/
               250]
                      d loss: 0.4386
                                        g loss: 4.6897
Epoch [
          18/
               250]
                    d_loss: 0.3705
                                        g_loss: 6.1708
Epoch [
          18/
               250] | d loss: 0.1720
                                        g_loss: 2.2949
                      d_loss: 0.7520
                                        g_loss: 2.3188
Epoch [
          18/
               250]
Epoch [
          18/
               250]
                      d loss: 0.2289
                                        g loss: 4.8301
                    1
Epoch [
          18/
               250]
                    d loss: 0.1953
                                        g loss: 3.3275
                    | d loss: 0.5065
                                        g_loss: 3.8918
Epoch [
          18/
               250]
Epoch [
          18/
               250]
                    | d_loss: 0.3302
                                        g_loss: 4.9473
                    d_loss: 0.3758
                                        g_loss: 4.6402
Epoch [
          18/
               250]
Epoch [
          18/
               250] | d loss: 0.1163
                                        g loss: 4.0764
Epoch [
          18/
               250] | d loss: 0.2596
                                        g loss: 3.4970
Epoch [
                      d loss: 0.3940
                                        g loss: 4.4670
          18/
               250]
                    1
Epoch [
          18/
               250]
                    | d_loss: 0.2059 |
                                        g_loss: 3.9313
Epoch [
          18/
               250]
                    d loss: 0.1986
                                        g_loss: 4.2702
                      d_loss: 0.1841
                                        g_loss: 3.0448
Epoch [
          18/
               250]
Epoch [
          18/
               250]
                    d loss: 0.2164
                                        g loss: 2.7672
Epoch [
          18/
               250]
                    d loss: 0.4474
                                        g loss: 3.0130
Epoch [
          18/
               250] | d loss: 0.7141
                                        g_loss: 4.4452
                      d_loss: 0.3990
                                        g_loss: 5.4301
Epoch [
          18/
               250]
                    d_loss: 0.2575
                                        g_loss: 3.5828
Epoch [
          18/
               250]
Epoch [
          18/
               250]
                    d loss: 0.4874
                                        g loss: 3.2337
Epoch [
          18/
               250]
                    d loss: 0.3183
                                        g_loss: 2.6222
Epoch [
          19/
               250]
                    d loss: 2.6468
                                        g loss: 6.6202
Epoch [
          19/
               250]
                    d_loss: 0.0969
                                        g_loss: 2.7364
Epoch [
          19/
               250] | d loss: 0.1204
                                        g_loss: 5.1823
                      d_loss: 0.2656
                                        g_loss: 6.3359
Epoch [
          19/
               250] |
Epoch [
          19/
               250]
                      d loss: 0.2272
                                        g loss: 3.5008
                    1
Epoch [
          19/
               250]
                    d loss: 0.4423
                                        g loss: 2.8236
          19/
               250]
                    d loss: 0.3949
                                        g_loss: 4.3860
Epoch [
                                        g_loss: 2.5128
Epoch [
          19/
               250]
                    | d_loss: 0.2220
          19/
                    d_loss: 0.1772
                                        g_loss: 3.3630
Epoch [
               250]
Epoch [
          19/
               250] | d loss: 0.1760
                                        g loss: 4.7419
Epoch [
          19/
               250] | d loss: 0.0961
                                        g loss: 4.0244
Epoch [
                      d loss: 0.5776
                                        g loss: 5.7033
          19/
               250]
                    1
Epoch [
          19/
               250]
                    | d_loss: 0.3174
                                        g_loss: 4.2198
Epoch [
          19/
               250]
                    d loss: 0.5344
                                        g_loss: 3.7999
Epoch [
          19/
               250]
                      d_loss: 0.3266
                                        g_loss: 4.8645
Epoch [
          19/
               250]
                      d loss: 0.2299
                                        g loss: 3.6418
Epoch [
          19/
               250]
                    d loss: 0.2235
                                        g loss: 4.0675
Epoch [
          19/
               250] | d loss: 0.3250
                                        g_loss: 3.4896
                      d loss: 0.8464
                                        g_loss: 2.3034
Epoch [
          19/
               250]
                    Epoch [
          19/
               250]
                    d_loss: 0.3948
                                        g_loss: 3.8639
Epoch [
          19/
               250]
                    d loss: 0.1604
                                        g loss: 4.0005
Epoch [
          19/
               250]
                    d loss: 0.5193
                                        g_loss: 2.5939
Epoch [
          19/
               250]
                      d loss: 0.3413
                                        g loss: 4.2597
Epoch [
          19/
               250]
                      d_loss: 1.7943
                                        g_loss: 2.8365
Epoch [
          19/
               250] | d loss: 0.3857
                                        g loss: 4.3829
Epoch [
          19/
               250]
                      d_loss: 0.1412
                                        g_loss: 4.0859
Epoch [
          19/
               250] | d loss: 0.2925 | g loss: 2.9382
```

```
250] | d loss: 0.5093 |
Epoch [
          19/
                                        g loss: 2.2948
                    | d loss: 0.5285
Epoch [
          19/
               250]
                                        g loss: 3.6325
                                        g_loss: 2.7368
Epoch [
          20/
               250] | d_loss: 0.4180 |
Epoch [
          20/
               250] | d loss: 0.1755 |
                                        g loss: 4.4928
                      d_loss: 0.2302
                                        g_loss: 4.0897
Epoch [
          20/
               250]
Epoch [
          20/
               250]
                    d loss: 0.2351
                                        g loss: 3.9257
Epoch [
          20/
               250]
                    d loss: 0.2516
                                        g loss: 3.7936
Epoch [
          20/
               250] | d_loss: 0.3108
                                        g_loss: 3.7987
Epoch [
          20/
               250]
                    d_loss: 0.2631
                                        g_loss: 3.2169
                    d_loss: 0.1801
                                        g_loss: 4.4973
Epoch [
          20/
               250]
          20/
               250]
                    d loss: 0.1149
                                        g loss: 4.9591
Epoch [
Epoch [
          20/
               250]
                    d loss: 0.1728
                                        g_loss: 4.2559
Epoch [
          20/
               250]
                      d loss: 0.1326
                                        g loss: 3.4349
Epoch [
          20/
               250]
                    d_loss: 0.1218
                                        g_loss: 5.4971
Epoch [
          20/
               250] | d loss: 0.2202
                                        g_loss: 2.6727
                      d_loss: 0.2324
                                        g_loss: 4.8157
Epoch [
          20/
               250]
Epoch [
          20/
               250]
                      d loss: 0.5570
                                        g loss: 5.7338
                    1
Epoch [
          20/
               250]
                    d loss: 0.2533
                                        g loss: 4.6448
          20/
               250]
                    | d loss: 0.2016
                                        g_loss: 5.2444
Epoch [
Epoch [
          20/
               250]
                    d_loss: 0.2859
                                        g_loss: 6.0306
          20/
                    d_loss: 0.2988
                                        g_loss: 5.0042
Epoch [
               250]
          20/
               250] | d loss: 0.0879
                                        g loss: 5.2275
Epoch [
Epoch [
          20/
               250] | d loss: 0.1502
                                        g_loss: 5.3176
Epoch [
                      d loss: 0.1959
                                        g loss: 3.6457
          20/
               250]
Epoch [
          20/
               250]
                    | d_loss: 0.1569 |
                                        g_loss: 4.7997
Epoch [
          20/
               250]
                    d loss: 0.1224
                                        g loss: 3.9905
                      d_loss: 0.2459
Epoch [
          20/
               250]
                                        g_loss: 2.5591
Epoch [
          20/
               250]
                    d loss: 0.4694
                                        g loss: 2.8711
Epoch [
          20/
               250]
                    d loss: 0.1792
                                        g loss: 4.3206
Epoch [
          20/
               250] | d loss: 0.1811
                                        g_loss: 2.9067
                      d_loss: 0.2122
                                        g_loss: 3.5062
Epoch [
          20/
               250]
                    g_loss: 10.0664
                    | d_loss: 3.8960 |
Epoch [
          21/
               250]
Epoch [
          21/
               250]
                    d loss: 0.2369
                                        g loss: 4.5639
Epoch [
          21/
               250]
                    d loss: 0.0776
                                        g_loss: 5.4841
Epoch [
          21/
               250]
                    | d loss: 0.1288
                                        g loss: 5.7285
Epoch [
          21/
               250]
                    d_loss: 0.1164
                                        g_loss: 4.2956
Epoch [
          21/
               250] | d loss: 0.2656
                                        g_loss: 4.5234
          21/
                      d_loss: 0.0463
                                        g_loss: 5.9835
Epoch [
               250]
Epoch [
          21/
               250]
                      d loss: 0.3099
                                        g loss: 3.5716
                    1
          21/
               250]
                    d loss: 0.3257
                                        g loss: 4.0327
Epoch [
          21/
               250]
                    d loss: 0.2787
                                        g_loss: 3.4215
Epoch [
Epoch [
          21/
               250]
                    | d_loss: 0.2380
                                        g_loss: 3.6227
                    d_loss: 0.3988
                                        g_loss: 4.7074
Epoch [
          21/
               250]
          21/
               250]
                    d loss: 0.2468
                                        g loss: 5.1562
Epoch [
Epoch [
          21/
               250] | d loss: 0.3127
                                        g_loss: 3.7305
Epoch [
                      d loss: 0.0671
          21/
               250]
                    1
                                        g loss: 5.1949
Epoch [
          21/
               250]
                    | d_loss: 0.1217
                                        g_loss: 3.3300
Epoch [
          21/
               250]
                    d loss: 0.0956
                                        g loss: 2.9047
Epoch [
          21/
               250]
                      d_loss: 0.3709
                                        g_loss: 5.8370
Epoch [
          21/
               250]
                      d loss: 0.7707
                                        g loss: 5.6709
Epoch [
          21/
               250]
                    d loss: 0.3520
                                        g loss: 5.0844
          21/
               250] | d loss: 0.3576
                                        g_loss: 5.4004
Epoch [
                      d_loss: 0.6288
                                        g_loss: 2.9059
Epoch [
          21/
               250]
                    1
Epoch [
          21/
               250]
                    d_loss: 0.2132
                                        g_loss: 5.0942
                                        g_loss: 9.3070
          21/
               250]
                    d loss: 1.8991
Epoch [
Epoch [
          21/
               250]
                      d loss: 1.1618
                                        g_loss: 6.9188
Epoch [
          21/
               250]
                      d loss: 0.3038
                                        g loss: 4.9560
Epoch [
          21/
               250]
                      d_loss: 0.3234
                                        g_loss: 3.7092
Epoch [
          21/
               250] |
                      d loss: 0.2525
                                        g_loss: 3.6407
Epoch [
          21/
               250]
                      d_loss: 0.2560 |
                                        g_loss: 4.6250
Epoch [
               250] | d loss: 0.9806 | g loss: 7.0685
```

```
Epoch [
          22/
               250] | d loss: 0.3388 |
                                        g loss: 5.6728
          22/
                      d loss: 0.1813
Epoch [
               250]
                                        g loss: 4.0941
Epoch [
          22/
               250]
                    d_loss: 0.2977
                                        g_loss: 3.2161
Epoch [
          22/
               250] | d loss: 0.4434
                                        g loss: 2.7562
          22/
                      d_loss: 0.0815
Epoch [
               250]
                                        g_loss: 4.5036
Epoch [
          22/
               250]
                    d loss: 0.2070
                                        g loss: 3.6722
Epoch [
          22/
               250]
                    d loss: 0.2987
                                        g loss: 3.5091
Epoch [
          22/
               250] | d loss: 0.1640
                                        g_loss: 4.7037
Epoch [
          22/
               250]
                    d loss: 0.3449
                                        g_loss: 4.3180
                    | d_loss: 0.1276 |
                                        g_loss: 4.5041
Epoch [
          22/
               250]
          22/
               250]
                    d loss: 0.1945
                                        g loss: 2.5187
Epoch [
Epoch [
          22/
               250]
                    d loss: 0.1535
                                        g_loss: 3.6826
Epoch [
          22/
               250]
                      d loss: 0.3191
                                        g loss: 4.2946
Epoch [
          22/
               250]
                    d_loss: 0.0610
                                        g_loss: 3.8879
Epoch [
          22/
               250] | d loss: 0.3751
                                        g_loss: 3.5151
          22/
                      d_loss: 0.2298
                                        g_loss: 3.0494
Epoch [
               250]
Epoch [
          22/
               250]
                      d loss: 0.1037
                                        g loss: 5.5992
                    1
Epoch [
          22/
               250]
                    d loss: 0.4652
                                        g loss: 3.1246
          22/
               250]
                    d loss: 0.5709
                                        g_loss: 1.8158
Epoch [
          22/
Epoch [
               250]
                    d_loss: 0.1531
                                        g_loss: 4.7945
                    d_loss: 0.3601
                                        g_loss: 6.5500
Epoch [
          22/
               250]
          22/
               250] | d loss: 0.3713
                                        g loss: 3.4838
Epoch [
Epoch [
          22/
               250] | d loss: 0.1510
                                        g loss: 4.0659
Epoch [
          22/
                      d loss: 0.2749
                                        g loss: 3.5448
               250]
                                        g_loss: 2.5687
Epoch [
          22/
               250]
                    | d_loss: 0.7477
Epoch [
          22/
               250]
                    d loss: 0.4335
                                        g_loss: 4.5166
          22/
                      d_loss: 0.3598
Epoch [
               250]
                                        g_loss: 2.9795
Epoch [
          22/
               250]
                    d loss: 0.1226
                                        g loss: 6.0681
Epoch [
          23/
               250]
                    | d loss: 0.2296
                                        g loss: 4.4417
Epoch [
          23/
               250] | d loss: 0.1019
                                        g_loss: 5.3740
                                        g_loss: 4.2744
                      d_loss: 0.0997
Epoch [
          23/
               250]
                    d_loss: 0.4686
                                        g_loss: 7.2510
Epoch [
          23/
               250]
Epoch [
          23/
               250]
                    d loss: 0.0721
                                        g loss: 5.4910
Epoch [
          23/
               250]
                    d loss: 0.2050
                                        g_loss: 4.7576
Epoch [
          23/
               250]
                    | d loss: 0.2025
                                        g loss: 4.9848
                    d_loss: 0.6249
                                        g_loss: 6.5273
Epoch [
          23/
               250]
Epoch [
          23/
               250] | d loss: 0.2074
                                        g_loss: 5.4247
                      d_loss: 0.3873
                                        g_loss: 3.8422
Epoch [
          23/
               250] |
Epoch [
          23/
               250]
                      d loss: 0.2722
                                        g loss: 4.5077
                    1
Epoch [
          23/
               250]
                    d loss: 0.0418
                                        g loss: 5.9040
          23/
                    | d loss: 0.1136
                                        g_loss: 4.9583
Epoch [
               250]
Epoch [
          23/
               250]
                    | d_loss: 0.3706
                                        g_loss: 3.7919
          23/
                    d_loss: 0.0883
                                        g_loss: 4.0525
Epoch [
               250]
          23/
               250] | d loss: 0.1314
                                        g loss: 4.9855
Epoch [
Epoch [
          23/
               250] | d loss: 0.1667
                                        g loss: 4.1679
Epoch [
                      d loss: 0.1643
          23/
               250]
                    1
                                        g loss: 4.3264
Epoch [
          23/
               250]
                    | d_loss: 0.2511
                                        g_loss: 3.8700
Epoch [
          23/
               250]
                    d loss: 0.4872
                                        g loss: 2.9825
Epoch [
          23/
               250]
                      d_loss: 0.2666
                                        g_loss: 3.7840
Epoch [
          23/
               250]
                      d loss: 0.1402
                                        g loss: 5.3216
Epoch [
          23/
               250]
                    | d loss: 0.1013
                                        g loss: 3.1299
          23/
               250] | d loss: 0.2775
                                        g_loss: 3.8213
Epoch [
                      d_loss: 0.1703
                                        g_loss: 3.2035
Epoch [
          23/
               250]
                    1
Epoch [
          23/
               250]
                    d_loss: 0.3366
                                        g_loss: 3.3216
          23/
               250]
                    d loss: 0.4253
                                        g loss: 5.1781
Epoch [
Epoch [
          23/
               250]
                    d loss: 0.3860
                                        g_loss: 3.3310
Epoch [
          23/
               250]
                      d loss: 0.6671
                                        g loss: 5.5414
                                        g_loss: 6.0362
Epoch [
          24/
               250]
                      d_loss: 0.3680
Epoch [
          24/
               250] |
                      d loss: 0.2883
                                        g_loss: 3.7527
Epoch [
          24/
               250]
                      d_loss: 0.2441 |
                                        g_loss: 4.2380
Epoch [
               250] | d loss: 0.2673 | g loss: 3.5783
```

```
Epoch [
          24/
               250] | d loss: 0.2636 |
                                        g loss: 6.0069
                      d loss: 0.3278
Epoch [
          24/
               250]
                                        g loss: 3.9453
                                        g_loss: 4.3638
Epoch [
          24/
               250]
                    d_loss: 0.3171
Epoch [
          24/
               250] | d loss: 0.0973 |
                                        g loss: 5.7137
                      d_loss: 0.1994
Epoch [
          24/
               250]
                                        g_loss: 3.3399
Epoch [
          24/
               250]
                    d loss: 0.0584
                                        g loss: 4.6120
Epoch [
          24/
               250]
                    | d loss: 0.1022
                                        g loss: 2.2892
Epoch [
          24/
               250] | d loss: 3.6493
                                        g_loss: 9.1776
Epoch [
          24/
               250]
                    d_loss: 0.1854
                                        g_loss: 4.2505
                      d_loss: 0.3367
                                        g_loss: 4.0369
Epoch [
          24/
               250]
                    24/
               250]
                      d loss: 0.5172
                                        g loss: 5.0259
Epoch [
                    Epoch [
          24/
               250]
                      d loss: 0.1479
                                        g_loss: 5.0012
Epoch [
          24/
               250]
                      d loss: 0.2254
                                        g loss: 4.8763
Epoch [
          24/
               250]
                    d_loss: 0.6699
                                        g_loss: 7.5528
Epoch [
          24/
               250] | d loss: 0.4216
                                        g_loss: 3.8673
                      d_loss: 0.2486
                                        g_loss: 2.9231
Epoch [
          24/
               250]
Epoch [
          24/
               250]
                      d loss: 0.3215
                                        g loss: 3.2417
                    1
Epoch [
          24/
               250]
                    d loss: 0.3433
                                        g loss: 4.6740
                                        g_loss: 4.5207
          24/
               250]
                    d loss: 0.1606
Epoch [
Epoch [
          24/
               250]
                      d loss: 0.2447
                                        g_loss: 3.4188
                    d_loss: 0.4894
                                        g_loss: 6.6899
Epoch [
          24/
               250]
          24/
               250] | d loss: 0.3921
                                        g loss: 3.4495
Epoch [
Epoch [
          24/
               250] | d loss: 0.3993
                                        g_loss: 3.6738
Epoch [
                      d loss: 0.1928
          24/
               250]
                                        g loss: 4.0776
                                        g_loss: 6.3463
Epoch [
          24/
               250]
                    d_loss: 0.4443
Epoch [
          25/
               250]
                    d loss: 0.6199
                                        g_loss: 5.1216
          25/
                      d_loss: 0.3256
Epoch [
               250]
                                        g_loss: 5.2344
Epoch [
          25/
               250]
                    d loss: 0.3882
                                        g loss: 2.9436
Epoch [
          25/
               250]
                    d loss: 0.9964
                                        g loss: 8.1388
Epoch [
          25/
               250] | d loss: 0.1882
                                        g_loss: 4.3894
          25/
                      d loss: 0.0957
                                        g_loss: 4.4906
Epoch [
               250]
                    | d_loss: 0.4299 |
                                        g_loss: 5.2425
Epoch [
          25/
               250]
Epoch [
          25/
               250]
                    d loss: 0.9769
                                        g loss: 1.4268
Epoch [
          25/
               250]
                    d loss: 0.1747
                                        g_loss: 5.3046
          25/
Epoch [
               250]
                    | d loss: 0.1778
                                        g loss: 4.5182
Epoch [
          25/
               250]
                    d_loss: 0.2733
                                        g_loss: 5.0227
Epoch [
          25/
               250] | d loss: 0.2692
                                        g_loss: 4.5865
          25/
                      d_loss: 0.0844
                                        g_loss: 5.1905
Epoch [
               250]
Epoch [
          25/
               250]
                      d loss: 0.1105
                                        g loss: 4.6635
                    1
Epoch [
          25/
               250]
                    d loss: 0.3051
                                        g loss: 5.9882
                                        g_loss: 3.6235
          25/
                    d loss: 0.4689
Epoch [
               250]
          25/
Epoch [
               250]
                    | d_loss: 0.2753
                                        g_loss: 3.8900
          25/
                    d_loss: 0.1701
                                        g_loss: 4.4777
Epoch [
               250]
          25/
               250]
                    d loss: 0.1626
                                        g loss: 2.2079
Epoch [
Epoch [
          25/
               250] | d loss: 0.1252
                                        g_loss: 4.7269
Epoch [
          25/
                      d loss: 0.4085
                                        g loss: 4.6395
               250]
                    1
Epoch [
          25/
               250]
                    | d_loss: 0.1640
                                        g_loss: 4.6322
Epoch [
          25/
               250]
                    d loss: 0.3379
                                        g_loss: 3.2805
Epoch [
          25/
               250]
                      d_loss: 0.1149
                                        g_loss: 4.0305
Epoch [
          25/
               250]
                      d loss: 0.3067
                                        g loss: 4.4210
Epoch [
          25/
               250]
                    d loss: 0.3217
                                        g loss: 6.4425
Epoch [
          25/
               250] | d loss: 0.1028
                                        g_loss: 4.0611
          25/
                      d_loss: 0.3176
                                        g_loss: 4.4966
Epoch [
               250]
                    1
Epoch [
          25/
               250]
                    d_loss: 0.3487
                                        g_loss: 5.1665
          26/
               250]
                    d loss: 0.2174
                                        g loss: 5.0010
Epoch [
Epoch [
          26/
               250]
                      d loss: 0.1864
                                        g_loss: 6.1560
Epoch [
          26/
               250]
                      d loss: 0.5776
                                        g loss: 2.7085
Epoch [
          26/
               250]
                      d_loss: 0.2760
                                        g_loss: 3.2580
Epoch [
          26/
               250] |
                      d loss: 0.0559
                                        g_loss: 4.9148
Epoch [
          26/
               250]
                      d_loss: 0.0146 |
                                        g_loss: 6.3831
Epoch [
          26/
               250] | d loss: 0.4287 | g loss: 6.5481
```

```
250] | d loss: 0.1842 |
Epoch [
          26/
                                        g loss: 3.1571
                      d loss: 0.1554
Epoch [
          26/
               250]
                                        g loss: 4.6837
Epoch [
          26/
               250]
                    d_loss: 0.2483
                                        g_loss: 3.5182
Epoch [
          26/
               250] | d loss: 0.4122
                                        g loss: 4.2891
                      d_loss: 1.2067
Epoch [
          26/
               250]
                                        g_loss: 2.3169
Epoch [
          26/
               250]
                    d loss: 0.5901
                                        g loss: 2.3652
Epoch [
          26/
               250]
                    d loss: 0.1270
                                        g loss: 4.1966
Epoch [
          26/
               250] | d loss: 0.3412
                                        g_loss: 5.0609
Epoch [
          26/
               250]
                    d loss: 0.1990
                                        g_loss: 2.3052
                    d_loss: 0.3448
                                        g_loss: 4.0376
Epoch [
          26/
               250]
Epoch [
          26/
               250]
                    d loss: 0.1045
                                        g loss: 4.7143
Epoch [
          26/
               250]
                    d loss: 0.2564
                                        g_loss: 4.2583
Epoch [
          26/
               250]
                      d loss: 0.2181
                                        g loss: 6.0696
Epoch [
          26/
               250]
                    d_loss: 0.1726
                                        g_loss: 3.5224
Epoch [
          26/
               250] | d loss: 0.7935
                                        g_loss: 7.4551
                      d_loss: 0.6584
                                        g_loss: 1.2082
Epoch [
          26/
               250]
Epoch [
          26/
               250]
                      d loss: 0.7631
                                        g loss: 6.9303
                    1
Epoch [
          26/
               250]
                    d loss: 0.1251
                                        g loss: 4.4598
          26/
               250]
                    | d loss: 0.0265
                                        g_loss: 6.0738
Epoch [
Epoch [
          26/
               250]
                    | d_loss: 0.3519
                                        g_loss: 2.9603
                    d_loss: 0.3621
                                        g_loss: 4.5390
Epoch [
          26/
               250]
Epoch [
          26/
               250] | d loss: 0.1895
                                        g loss: 2.7881
Epoch [
          27/
               250] | d loss: 3.8727
                                        g loss: 12.4488
Epoch [
          27/
                      d loss: 0.1348
               250]
                    1
                                        g loss: 5.2306
Epoch [
          27/
               250]
                    | d_loss: 0.2585
                                        g_loss: 4.0974
Epoch [
          27/
               250]
                    d loss: 0.4983
                                        g loss: 8.3694
          27/
                      d_loss: 0.4768
                                        g_loss: 6.5434
Epoch [
               250]
Epoch [
          27/
               250]
                    d loss: 0.2347
                                        g loss: 5.0479
Epoch [
          27/
               250]
                    | d loss: 0.0108
                                        g loss: 4.7663
Epoch [
          27/
               250] | d loss: 0.2132
                                        g_loss: 5.5213
          27/
                      d_loss: 0.1143
                                        g_loss: 4.0271
Epoch [
               250]
                    27/
                    | d_loss: 0.0454 |
                                        g_loss: 3.1866
Epoch [
               250]
Epoch [
          27/
               250]
                    d loss: 0.9263
                                        g loss: 3.0896
Epoch [
          27/
               250]
                    d loss: 0.6654
                                        g_loss: 5.9083
          27/
Epoch [
               250]
                    | d loss: 0.2454
                                        g loss: 4.5038
                    d_loss: 0.5860
Epoch [
          27/
               250]
                                        g_loss: 5.3282
Epoch [
          27/
               250] | d loss: 0.3955
                                        g_loss: 4.9363
          27/
                      d_loss: 0.3686
                                        g_loss: 5.9693
Epoch [
               250] |
Epoch [
          27/
               250]
                      d loss: 0.3944
                                        g loss: 3.3569
                    1
Epoch [
          27/
               250]
                    d loss: 0.3272
                                        g loss: 5.0677
          27/
               250]
                    d loss: 0.2811
                                        g_loss: 3.7083
Epoch [
          27/
Epoch [
               250]
                    | d_loss: 0.2839
                                        g_loss: 3.2958
          27/
                    d_loss: 0.1595
                                        g_loss: 3.8253
Epoch [
               250]
          27/
               250] | d loss: 0.0378
                                        g loss: 5.4182
Epoch [
Epoch [
          27/
               250] | d loss: 0.3051
                                        g loss: 3.8049
Epoch [
          27/
                      d loss: 0.3450
               250]
                    1
                                        g loss: 6.1618
Epoch [
          27/
               250]
                    | d_loss: 0.0652
                                        g_loss: 7.8668
Epoch [
          27/
               250]
                    d loss: 0.3604
                                        g loss: 4.4032
Epoch [
          27/
               250]
                      d_loss: 0.1012
                                        g_loss: 5.0655
Epoch [
          27/
               250]
                      d loss: 0.3104
                                        g loss: 2.2663
Epoch [
          27/
               250]
                    | d loss: 0.2101
                                        g loss: 5.4440
Epoch [
          28/
               250] | d loss: 2.1246
                                        g_loss: 9.8916
                      d_loss: 0.3662
                                        g_loss: 3.8745
Epoch [
          28/
               250]
                    1
Epoch [
          28/
               250]
                    d_loss: 0.3476
                                        g_loss: 7.5241
          28/
               250]
                    d loss: 0.3006
                                        g loss: 5.1360
Epoch [
Epoch [
          28/
               250]
                    d loss: 0.2304
                                        g_loss: 4.4986
Epoch [
          28/
               250]
                      d loss: 0.4236
                                        g loss: 2.3037
                                        g_loss: 4.9948
Epoch [
          28/
               250]
                      d_loss: 0.3025
Epoch [
          28/
               250] |
                      d loss: 0.1519
                                        g loss: 3.9709
Epoch [
          28/
               250]
                      d_loss: 0.0960 |
                                        g_loss: 4.5647
Epoch [
               250] | d loss: 0.6558 | g loss: 4.5339
```

```
250] | d loss: 0.3752 |
Epoch [
          28/
                                        g loss: 3.0428
                      d loss: 0.0979
Epoch [
          28/
               250]
                                        g loss: 3.9386
                                        g_loss: 4.0865
Epoch [
          28/
               250]
                    d_loss: 0.1630
Epoch [
          28/
               250] | d loss: 0.6668 |
                                        g loss: 1.3436
                      d_loss: 0.0961
Epoch [
          28/
               250]
                                        g_loss: 4.4150
Epoch [
          28/
               250]
                    d loss: 0.5997
                                        g loss: 1.9423
Epoch [
          28/
               250]
                    | d loss: 0.1601
                                        g loss: 5.1663
Epoch [
          28/
               250] | d loss: 0.1354
                                        g_loss: 6.2611
Epoch [
          28/
               250]
                    d_loss: 0.0988
                                        g_loss: 4.5188
                      d_loss: 0.1080
                                        g_loss: 5.2469
Epoch [
          28/
               250]
                    28/
               250]
                    d loss: 0.0979
                                        g loss: 5.2665
Epoch [
Epoch [
          28/
               250]
                    d loss: 0.1337
                                        g_loss: 4.1835
Epoch [
          28/
               250]
                      d loss: 0.2101
                                        g loss: 4.5141
Epoch [
          28/
               250]
                    | d_loss: 0.2377
                                        g_loss: 5.1426
Epoch [
          28/
               250] | d loss: 1.3346
                                        g_loss: 7.1024
                      d_loss: 0.1107
                                        g_loss: 5.6555
Epoch [
          28/
               250]
Epoch [
          28/
               250]
                      d loss: 0.2902
                                        g loss: 5.8599
                    1
Epoch [
          28/
               250]
                    d loss: 0.1473
                                        g loss: 3.6254
          28/
               250]
                    d loss: 1.4123
                                        g_loss: 4.5050
Epoch [
Epoch [
          29/
               250]
                    d_loss: 0.9074
                                        g_loss: 5.8240
          29/
                    d_loss: 0.6876
                                        g_loss: 1.8850
Epoch [
               250]
Epoch [
          29/
               250] | d loss: 0.4286
                                        g loss: 2.8318
Epoch [
          29/
               250] | d loss: 0.1006
                                        g_loss: 6.8746
Epoch [
          29/
                      d loss: 0.1097
               250]
                                        g loss: 5.4749
Epoch [
          29/
               250]
                    | d_loss: 0.1258 |
                                        g_loss: 8.4173
Epoch [
          29/
               250]
                    d loss: 0.3813
                                        g_loss: 5.4960
          29/
                      d_loss: 0.0918
                                        g_loss: 4.2410
Epoch [
               250]
Epoch [
          29/
               250]
                    d loss: 0.1648
                                        g loss: 5.4601
Epoch [
          29/
               250]
                    | d loss: 0.5271
                                        g loss: 3.2885
Epoch [
          29/
               250] | d loss: 0.9137
                                        g_loss: 7.4536
                      d_loss: 0.0935
                                        g_loss: 5.0363
Epoch [
          29/
               250]
                    29/
               250]
                    d_loss: 0.0954
                                        g_loss: 3.0141
Epoch [
Epoch [
          29/
               250]
                    d loss: 0.1294
                                        g loss: 5.6514
Epoch [
          29/
               250]
                    d loss: 0.0807
                                        g_loss: 4.3662
          29/
Epoch [
               250]
                    | d loss: 0.3249
                                        g loss: 5.3128
Epoch [
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               250]
                    d_loss: 0.2610
                                        g_loss: 4.5340
Epoch [
          29/
               250] | d loss: 0.1293
                                        g_loss: 5.1224
          29/
                      d_loss: 0.2352
                                        g_loss: 5.9965
Epoch [
               250]
Epoch [
          29/
               250]
                      d loss: 0.0820
                                        g loss: 4.4396
                    1
Epoch [
          29/
               250]
                    d loss: 0.1658
                                        g loss: 4.2462
          29/
               250]
                    d loss: 0.3980
                                        g_loss: 3.7151
Epoch [
          29/
Epoch [
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                    | d_loss: 0.5831
                                        g_loss: 7.0431
          29/
                    d_loss: 0.3998
                                        g_loss: 5.3900
Epoch [
               250]
          29/
               250] | d loss: 0.0820
                                        g loss: 4.2210
Epoch [
Epoch [
          29/
               250] | d loss: 0.3605
                                        g_loss: 5.2728
Epoch [
          29/
                      d loss: 0.2349
                                        g loss: 3.5306
               250]
                    1
Epoch [
          29/
               250]
                    | d_loss: 0.3763
                                        g_loss: 4.8580
Epoch [
          29/
               250]
                    d loss: 0.2565
                                        g_loss: 3.2865
Epoch [
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                      d_loss: 0.1575
                                        g_loss: 4.6751
Epoch [
          30/
               250]
                      d loss: 0.4345
                                        g loss: 5.1194
Epoch [
          30/
               250]
                      d loss: 0.1206
                                        g loss: 5.9029
Epoch [
          30/
               250] | d loss: 0.2365
                                        g_loss: 3.9344
                      d_loss: 0.7042
                                        g_loss: 8.0268
Epoch [
          30/
               250]
                    1
Epoch [
          30/
               250]
                    d_loss: 0.4652
                                        g_loss: 5.3154
          30/
               250]
                    d loss: 0.0872
                                        g loss: 5.9087
Epoch [
Epoch [
          30/
               250]
                      d loss: 0.8368
                                        g_loss: 6.2841
Epoch [
          30/
               250]
                      d loss: 0.3735
                                        g loss: 4.2446
                      d_loss: 0.6352
                                        g_loss: 5.5168
Epoch [
          30/
               250]
Epoch [
          30/
               250] |
                      d loss: 0.1378
                                        g_loss: 3.7963
Epoch [
          30/
               250]
                      d_loss: 0.1846 |
                                        g_loss: 6.0364
Epoch [
               250] | d loss: 0.1338 | g loss: 2.7641
```

```
250] | d loss: 0.4266 |
Epoch [
          30/
                                        g loss: 3.7444
                      d loss: 0.5442
Epoch [
          30/
               250]
                                        g loss: 2.4384
                                        g_loss: 5.5650
Epoch [
          30/
               250]
                    d_loss: 0.5663
Epoch [
          30/
               250] | d loss: 0.3976
                                        g_loss: 7.8070
                      d_loss: 0.6496
Epoch [
          30/
               250]
                                        g_loss: 7.0800
Epoch [
          30/
               250]
                    d loss: 0.8798
                                        g loss: 1.3464
Epoch [
          30/
               250]
                    | d loss: 0.1215
                                        g loss: 2.9996
Epoch [
          30/
               250] | d loss: 0.5774
                                        g_loss: 7.4242
Epoch [
          30/
               250]
                    d_loss: 0.7213
                                        g_loss: 2.3390
                      d_loss: 1.9344
                                        g_loss: 10.5349
Epoch [
          30/
               250]
                    30/
               250]
                    d loss: 0.1470
                                        g loss: 5.5060
Epoch [
Epoch [
          30/
               250]
                      d loss: 0.1112
                                        g_loss: 4.8873
Epoch [
          30/
               250]
                      d loss: 0.4862
                                        g loss: 3.7398
Epoch [
          30/
               250]
                    d_loss: 0.0550
                                        g_loss: 5.9916
Epoch [
          30/
               250] | d loss: 0.2669
                                        g_loss: 5.9006
                      d_loss: 0.3461
                                        g_loss: 3.2690
Epoch [
          30/
               250]
Epoch [
          31/
               250]
                      d loss: 0.4473
                                        g loss: 4.4201
                    1
Epoch [
          31/
               250]
                    d loss: 0.1925
                                        g loss: 3.3377
                    d loss: 0.1777
                                        g_loss: 4.3192
Epoch [
          31/
               250]
                                        g_loss: 2.6445
Epoch [
          31/
               250]
                      d_loss: 0.1159
                    d_loss: 0.1853
                                        g_loss: 5.1189
Epoch [
          31/
               250]
          31/
               250] | d loss: 0.1863
                                        g loss: 4.0124
Epoch [
Epoch [
          31/
               250] | d loss: 0.0348
                                        g loss: 7.0990
Epoch [
                      d loss: 0.2331
          31/
               250]
                    1
                                        g loss: 3.8786
Epoch [
          31/
               250]
                    d_loss: 0.1511
                                        g_loss: 4.6806
Epoch [
          31/
               250]
                    d loss: 0.4574
                                        g_loss: 5.0492
                      d_loss: 0.1578
Epoch [
          31/
               250]
                                        g_loss: 5.6505
Epoch [
          31/
               250]
                      d loss: 0.1380
                                        g loss: 4.6649
Epoch [
          31/
               250]
                    d loss: 0.2147
                                        g loss: 6.1035
               250] | d loss: 0.3229
                                        g_loss: 3.3616
Epoch [
          31/
                      d_loss: 0.2022
                                        g_loss: 4.2253
Epoch [
          31/
               250]
                    1
                      d_loss: 0.2660
                                        g_loss: 3.3427
Epoch [
          31/
               250]
                    Epoch [
          31/
               250]
                    | d loss: 0.1866
                                        g loss: 4.2640
Epoch [
          31/
               250]
                    d loss: 0.7412
                                        g_loss: 1.8541
Epoch [
          31/
               250]
                      d loss: 0.2017
                                        g loss: 4.7334
                    d_loss: 2.1555
Epoch [
          31/
               250]
                                        g_loss: 1.4431
Epoch [
          31/
               250] | d loss: 0.0928
                                        g_loss: 5.9705
                      d_loss: 0.1640
                                        g_loss: 6.2045
Epoch [
          31/
               250]
Epoch [
          31/
               250]
                      d loss: 0.2609
                                        g loss: 2.9557
                    1
          31/
               250]
                    d loss: 0.1323
                                        g loss: 4.4968
Epoch [
          31/
                    d loss: 0.1123
                                        g_loss: 4.9810
Epoch [
               250]
                                        g_loss: 3.4943
Epoch [
          31/
               250]
                    | d_loss: 0.3756
                    d_loss: 0.1040
                                        g_loss: 3.4930
Epoch [
          31/
               250]
          31/
               250]
                    d loss: 0.2305
                                        g loss: 6.5084
Epoch [
Epoch [
          31/
               250] | d loss: 0.1205
                                        g_loss: 6.3837
Epoch [
                      d loss: 0.7098
          32/
               250]
                    1
                                        g loss: 4.1439
Epoch [
          32/
               250]
                    d_loss: 0.1547
                                        g_loss: 2.4262
Epoch [
          32/
               250]
                    d loss: 0.1382
                                        g loss: 4.9992
Epoch [
          32/
               250]
                      d_loss: 0.4566
                                        g_loss: 1.2290
Epoch [
          32/
               250]
                      d loss: 1.0174
                                        g loss: 2.9398
Epoch [
          32/
               250]
                      d loss: 0.2039
                                        g loss: 4.8289
                                        g_loss: 4.5846
          32/
               250] | d loss: 0.1550
Epoch [
          32/
                      d_loss: 0.3347
Epoch [
               250]
                    1
                                        g_loss: 5.1656
Epoch [
          32/
               250]
                    d_loss: 0.2604
                                        g_loss: 5.4197
          32/
                    | d loss: 0.0660
                                        g loss: 5.8430
Epoch [
               250]
Epoch [
          32/
               250]
                      d loss: 0.1045
                                        g_loss: 5.6899
Epoch [
          32/
               250]
                      d loss: 0.0248
                                        g loss: 4.5243
                      d_loss: 0.2533
                                        g_loss: 4.9523
Epoch [
          32/
               250]
Epoch [
          32/
               250] |
                      d loss: 0.8243
                                        g_loss: 8.3836
                      d_loss: 0.9315 |
Epoch [
          32/
               250]
                                        g_loss: 1.5730
Epoch [
               250] | d loss: 0.2156 | g loss: 3.9784
```

```
250] | d loss: 0.1021 |
Epoch [
          32/
                                        g loss: 6.1427
                      d loss: 0.0167
Epoch [
          32/
               250]
                                        g loss: 7.6747
                                        g_loss: 6.9125
Epoch [
          32/
               250] | d_loss: 0.3097
Epoch [
          32/
               250] | d loss: 0.1609
                                        g loss: 5.6061
          32/
Epoch [
               250]
                      d_loss: 0.3631
                                        g_loss: 3.1100
Epoch [
          32/
               250]
                     d loss: 0.1609
                                        g loss: 4.4463
Epoch [
          32/
               250]
                    d loss: 0.2186
                                        g loss: 5.1949
Epoch [
          32/
               250] | d loss: 0.2979
                                        g loss: 1.6419
Epoch [
          32/
               250]
                    d_loss: 0.0962
                                        g_loss: 5.1169
                    d_loss: 0.6013
                                        g_loss: 6.0846
Epoch [
          32/
               250]
Epoch [
          32/
               250]
                    d loss: 0.0679
                                        g loss: 4.3284
Epoch [
          32/
               250]
                     d loss: 0.4517
                                        g_loss: 3.3339
Epoch [
          32/
               250]
                      d loss: 0.3028
                                        g loss: 4.7279
Epoch [
          33/
               250]
                     d_loss: 1.3515
                                        g_loss: 11.3411
Epoch [
          33/
               250] | d loss: 0.1291
                                        g_loss: 5.5849
          33/
                      d_loss: 0.0403
                                        g_loss: 5.3709
Epoch [
               250] |
Epoch [
          33/
               250]
                      d loss: 0.1615
                                        g loss: 3.9299
                     1
Epoch [
          33/
               250]
                    | d loss: 0.6409 |
                                        g loss: 7.1644
          33/
                    d loss: 0.0878
                                        g_loss: 4.4112
Epoch [
               250]
Epoch [
          33/
               250]
                     | d_loss: 0.0561
                                        g_loss: 3.9497
                     d_loss: 0.0662
                                        g_loss: 5.4058
Epoch [
          33/
               250]
          33/
               250] | d loss: 0.0582
                                        g loss: 6.0437
Epoch [
Epoch [
          33/
               250] | d loss: 0.1213
                                        g loss: 4.7530
Epoch [
                      d loss: 0.0332
                                        g loss: 5.0470
          33/
               250]
                     1
Epoch [
          33/
               250]
                    | d_loss: 0.0987
                                        g_loss: 4.3076
Epoch [
          33/
               250]
                     d loss: 0.2188
                                        g loss: 3.9228
                      d_loss: 0.2939
                                        g_loss: 4.2276
Epoch [
          33/
               250]
Epoch [
          33/
               250]
                     d loss: 0.1054
                                        g loss: 5.0021
Epoch [
          33/
               250]
                    | d loss: 0.2263
                                        g loss: 5.9913
Epoch [
          33/
               250] | d loss: 0.4113
                                        g_loss: 3.8439
                      d_loss: 0.0670
                                        g_loss: 4.4183
Epoch [
          33/
               250]
                    | d_loss: 0.2126 |
                                        g_loss: 4.7537
Epoch [
          33/
               250]
Epoch [
          33/
               250]
                    | d loss: 0.5057
                                        g loss: 4.8031
Epoch [
          33/
               250]
                     d loss: 0.1543
                                        g_loss: 3.2209
Epoch [
          33/
               250]
                     | d loss: 0.5484
                                        g loss: 3.7478
                                        g_loss: 6.1923
Epoch [
          33/
               250]
                     d_loss: 0.6620
Epoch [
          33/
               250] | d loss: 0.2193
                                        g_loss: 4.5739
                      d_loss: 0.0638
                                        g_loss: 4.7681
Epoch [
          33/
               250]
Epoch [
          33/
               250]
                      d loss: 0.1672
                                        g loss: 3.4978
                     1
Epoch [
          33/
               250]
                    d loss: 0.2452
                                        g loss: 3.3791
                                        g_loss: 5.9365
          33/
                    d loss: 0.2969
Epoch [
               250]
Epoch [
          33/
               250]
                     d loss: 0.1333
                                        g_loss: 3.9159
          34/
                     d_loss: 0.4719
                                        g_loss: 2.8484
Epoch [
               250]
          34/
               250] | d loss: 0.2111
                                        g loss: 3.6393
Epoch [
Epoch [
          34/
               250] | d loss: 0.6481
                                        g loss: 2.1907
Epoch [
                      d loss: 0.1123
          34/
               250]
                     1
                                        g loss: 6.2148
                                        g_loss: 6.3084
Epoch [
          34/
               250]
                    | d_loss: 0.1390
Epoch [
          34/
               250]
                     d loss: 0.0734
                                        g_loss: 7.1067
Epoch [
          34/
               250]
                      d_loss: 0.0890
                                        g_loss: 5.8533
Epoch [
          34/
               250]
                      d loss: 0.3827
                                        g loss: 5.3900
Epoch [
          34/
               250]
                    | d loss: 0.2470
                                        g loss: 4.2069
Epoch [
          34/
               250] | d loss: 0.5815
                                        g_loss: 7.8585
                      d_loss: 0.3038
Epoch [
          34/
               250]
                     1
                                        g_loss: 6.8849
Epoch [
          34/
               250]
                    d_loss: 0.3557
                                        g_loss: 4.3298
          34/
               250]
                    d loss: 0.1387
                                        g loss: 4.3593
Epoch [
Epoch [
          34/
               250]
                      d loss: 0.2635
                                        g_loss: 3.1962
Epoch [
          34/
               250]
                      d loss: 0.1557
                                        g loss: 3.7406
                                        g_loss: 4.6506
Epoch [
          34/
               250]
                      d_loss: 0.1586
Epoch [
          34/
               250] |
                      d loss: 0.1591
                                        g loss: 6.3053
Epoch [
          34/
               250]
                      d_loss: 0.4715 |
                                        g_loss: 4.6460
Epoch [
               250] | d loss: 0.3266 | g loss: 3.4134
```

```
250] | d loss: 0.0656 |
Epoch [
          34/
                                        g loss: 3.4313
                      d loss: 0.4621
Epoch [
          34/
               250]
                                        g loss: 2.4271
                                        g_loss: 2.5574
Epoch [
          34/
               250] | d_loss: 0.0372
Epoch [
          34/
               250] | d loss: 0.0768 |
                                        g loss: 6.1855
                      d_loss: 0.0957
Epoch [
          34/
               250]
                                        g_loss: 6.4265
Epoch [
          34/
               250]
                    d loss: 0.2439
                                        g loss: 4.7319
Epoch [
          34/
               250]
                    d loss: 0.0429
                                        g loss: 4.6171
Epoch [
          34/
               250] | d loss: 0.4507
                                        g_loss: 4.0935
Epoch [
          34/
               250]
                    d_loss: 0.2601
                                        g_loss: 6.6552
          34/
                    d_loss: 0.1225
                                        g_loss: 5.3144
Epoch [
               250]
Epoch [
          35/
               250]
                    d loss: 0.1762
                                        g loss: 5.1617
Epoch [
          35/
               250]
                    d loss: 0.1319
                                        g_loss: 6.0024
Epoch [
          35/
               250]
                      d loss: 0.0997
                                        g loss: 3.9633
Epoch [
          35/
               250]
                    d_loss: 0.4923
                                        g_loss: 6.0489
Epoch [
          35/
               250] | d loss: 0.4152
                                        g_loss: 5.9783
                      d_loss: 0.1100
                                        g_loss: 4.0117
Epoch [
          35/
               250] |
Epoch [
          35/
               250]
                      d loss: 0.2598
                                        g loss: 4.1518
                    1
Epoch [
          35/
               250]
                    d loss: 0.2431
                                        g loss: 4.3372
                                        g_loss: 3.5558
          35/
                    d loss: 0.4522
Epoch [
               250]
Epoch [
          35/
               250]
                    d_loss: 0.3824
                                        g_loss: 4.2380
          35/
                    d_loss: 0.5806
                                        g_loss: 8.5254
Epoch [
               250]
Epoch [
          35/
               250] | d loss: 0.1089
                                        g loss: 5.4884
Epoch [
          35/
               250] | d loss: 0.1652
                                        g_loss: 5.1951
Epoch [
          35/
                      d loss: 0.0452
               250]
                    1
                                        g loss: 6.3002
Epoch [
          35/
               250]
                    | d_loss: 0.0681
                                        g_loss: 4.9284
Epoch [
          35/
               250]
                    d loss: 0.4190
                                        g loss: 2.5363
                      d_loss: 0.0736
Epoch [
          35/
               250]
                                        g_loss: 5.3477
Epoch [
          35/
               250]
                    d loss: 0.2510
                                        g loss: 3.3612
Epoch [
          35/
               250]
                    | d loss: 0.4943
                                        g loss: 6.2370
Epoch [
          35/
               250] | d loss: 1.0796
                                        g_loss: 8.1220
          35/
                      d loss: 0.0411
                                        g_loss: 4.4966
Epoch [
               250]
                    35/
                    | d_loss: 0.0870 |
                                        g_loss: 5.1410
Epoch [
               250]
                                        g_loss: 4.6270
Epoch [
          35/
               250]
                    d loss: 0.2070
Epoch [
          35/
               250]
                    d loss: 0.1338
                                        g_loss: 3.7996
Epoch [
          35/
               250]
                    | d loss: 0.2111
                                        g loss: 4.2372
                    d_loss: 0.2024
Epoch [
          35/
               250]
                                        g_loss: 4.4173
Epoch [
          35/
               250] | d loss: 0.0937
                                        g loss: 4.0874
                      d_loss: 0.3318
                                        g_loss: 3.3705
Epoch [
          35/
               250]
Epoch [
          35/
               250]
                      d loss: 0.1170
                                        g loss: 4.0115
                    1
Epoch [
          36/
               250]
                    d loss: 0.1221
                                        g loss: 6.9693
                    d loss: 0.1646
                                        g_loss: 6.5586
Epoch [
          36/
               250]
Epoch [
          36/
               250]
                    | d_loss: 0.0922
                                        g_loss: 6.6911
                    d_loss: 0.1642
                                        g_loss: 5.7368
Epoch [
          36/
               250]
          36/
               250]
                    d loss: 1.5481
                                        g loss: 10.5875
Epoch [
Epoch [
          36/
               250] | d loss: 0.2027
                                        g_loss: 4.7617
Epoch [
                      d loss: 0.1824
                                        g loss: 6.5344
          36/
               250]
                    1
Epoch [
          36/
               250]
                    | d_loss: 0.2196 |
                                        g_loss: 6.2440
Epoch [
          36/
               250]
                    d loss: 0.3667
                                        g_loss: 2.3660
Epoch [
          36/
               250]
                      d_loss: 0.2310
                                        g_loss: 3.8386
Epoch [
          36/
               250]
                      d loss: 0.3074
                                        g loss: 4.3283
Epoch [
          36/
               250]
                    d loss: 0.2257
                                        g loss: 5.6934
Epoch [
               250] | d loss: 0.1571
                                        g_loss: 2.6015
          36/
                      d_loss: 0.0317
                                        g_loss: 5.3360
Epoch [
          36/
               250]
                    1
Epoch [
          36/
               250]
                    d_loss: 0.3910 |
                                        g_loss: 3.6866
                                        g_loss: 7.2345
          36/
                    d loss: 0.3742
Epoch [
               250]
Epoch [
          36/
               250]
                      d loss: 0.0702
                                        g_loss: 6.0071
                                        g_loss: 5.7210
Epoch [
          36/
               250]
                      d loss: 0.2879
                      d_loss: 0.3564
Epoch [
          36/
               250]
                                        g_loss: 3.8024
Epoch [
          36/
               250] |
                      d loss: 0.2970
                                        g_loss: 5.8952
Epoch [
          36/
               250]
                      d_loss: 0.0860 |
                                        g_loss: 4.5239
Epoch [
               250] | d loss: 0.1304 | g loss: 4.9956
```

```
250] | d loss: 0.3483 |
Epoch [
          36/
                                        g loss: 5.0328
                    d loss: 0.1210
Epoch [
          36/
               250]
                                        g loss: 4.1558
Epoch [
          36/
               250] | d_loss: 0.1238
                                        g_loss: 4.4391
Epoch [
          36/
               250] | d loss: 0.4086 |
                                        g loss: 5.0886
                      d_loss: 0.3195
Epoch [
          36/
               250]
                                        g_loss: 6.8841
Epoch [
          36/
               250]
                    d loss: 0.3193
                                        g loss: 5.2047
Epoch [
          36/
               250]
                    | d loss: 0.2110
                                        g loss: 3.7299
Epoch [
          37/
               250] | d loss: 0.2335
                                        g_loss: 2.4369
Epoch [
          37/
               250]
                    d_loss: 0.0697
                                        g_loss: 5.8698
          37/
                    d_loss: 0.3202
                                        g_loss: 4.2651
Epoch [
               250]
Epoch [
          37/
               250]
                    d loss: 1.7351
                                        g loss: 9.2761
Epoch [
          37/
               250]
                    d loss: 0.0850
                                        g_loss: 6.3889
Epoch [
          37/
               250]
                      d loss: 0.4759
                                        g loss: 6.4535
Epoch [
          37/
               250]
                    d_loss: 0.3698
                                        g_loss: 5.6754
Epoch [
          37/
               250] | d loss: 0.1506
                                        g_loss: 6.2496
          37/
                      d_loss: 0.2332
                                        g_loss: 3.7386
Epoch [
               250]
Epoch [
          37/
               250]
                      d loss: 0.1906
                                        g loss: 5.7754
                    1
Epoch [
          37/
               250]
                    d loss: 0.0333
                                        g loss: 5.0007
          37/
               250]
                    d loss: 0.0364
                                        g_loss: 4.7857
Epoch [
          37/
                                        g_loss: 7.0266
Epoch [
               250]
                    | d_loss: 0.8248
          37/
                    d_loss: 0.2625
                                        g_loss: 3.6858
Epoch [
               250]
Epoch [
          37/
               250] | d loss: 0.2070
                                        g loss: 4.6516
Epoch [
          37/
               250] | d loss: 0.3249
                                        g_loss: 4.8651
Epoch [
          37/
                      d loss: 0.1695
               250]
                                        g loss: 3.8406
Epoch [
          37/
               250]
                    | d_loss: 0.1146
                                        g_loss: 4.2837
Epoch [
          37/
               250]
                    d loss: 0.2596
                                        g_loss: 5.4988
          37/
                      d_loss: 0.0848
                                        g_loss: 4.2475
Epoch [
               250]
Epoch [
          37/
               250]
                    d loss: 0.0559
                                        g loss: 5.2528
Epoch [
          37/
               250]
                    | d loss: 0.3939
                                        g loss: 4.7361
Epoch [
          37/
               250] | d loss: 0.3520
                                        g_loss: 5.2216
          37/
                      d_loss: 0.1867
                                        g_loss: 4.4337
Epoch [
               250]
                    37/
                    | d_loss: 0.0710 |
                                        g_loss: 5.6274
Epoch [
               250]
Epoch [
          37/
               250]
                    d loss: 0.5214
                                        g loss: 2.4095
Epoch [
          37/
               250]
                    d loss: 0.2602
                                        g_loss: 5.9182
          37/
                                        g loss: 0.8153
Epoch [
               250]
                    | d loss: 0.0975
                    d_loss: 0.0868
Epoch [
          37/
               250]
                                        g_loss: 3.6868
Epoch [
          38/
               250] | d loss: 4.9668
                                        g_loss: 11.9787
                      d_loss: 0.3153
                                        g_loss: 5.6329
Epoch [
          38/
               250]
Epoch [
          38/
               250]
                      d loss: 0.2121
                                        g loss: 4.3430
                    1
Epoch [
          38/
               250]
                    d loss: 0.1307
                                        g loss: 5.0852
                    | d loss: 0.1155
                                        g_loss: 5.3490
Epoch [
          38/
               250]
Epoch [
          38/
               250]
                    d_loss: 0.2504
                                        g_loss: 7.4283
          38/
                    d_loss: 0.0821
                                        g_loss: 3.9242
Epoch [
               250]
          38/
               250] | d loss: 0.2514
                                        g loss: 4.8571
Epoch [
Epoch [
          38/
               250] | d loss: 0.1461
                                        g loss: 4.9029
Epoch [
                      d loss: 0.1110
                                        g loss: 5.8605
          38/
               250]
                    1
Epoch [
          38/
               250]
                    | d_loss: 0.8874 |
                                        g_loss: 3.1130
Epoch [
          38/
               250]
                    d loss: 0.2151
                                        g loss: 4.0434
Epoch [
          38/
               250]
                      d_loss: 0.0312
                                        g_loss: 5.4836
Epoch [
          38/
               250]
                      d loss: 0.1800
                                        g loss: 5.7026
Epoch [
          38/
               250]
                      d loss: 0.5230
                                        g loss: 7.4107
Epoch [
          38/
               250] | d loss: 0.1735
                                        g_loss: 5.9269
                      d_loss: 0.1176
                                        g_loss: 3.9767
Epoch [
          38/
               250]
                    1
Epoch [
          38/
               250]
                    d_loss: 0.2589
                                        g_loss: 5.1327
          38/
               250]
                      d loss: 0.3401
                                        g loss: 6.0007
Epoch [
                    Epoch [
          38/
               250]
                      d loss: 0.1529
                                        g_loss: 4.7064
Epoch [
          38/
               250]
                      d loss: 0.0938
                                        g loss: 4.8183
                      d_loss: 0.1519
Epoch [
          38/
               250]
                                        g_loss: 5.3575
Epoch [
          38/
               250] |
                      d loss: 0.7247
                                        g_loss: 2.1339
Epoch [
          38/
               250]
                      d_loss: 0.1116 |
                                        g_loss: 4.8874
Epoch [
               250] | d loss: 0.1600 | g loss: 3.7710
```

```
250] | d loss: 0.2307 |
Epoch [
          38/
                                        g loss: 6.9178
                    d loss: 0.3092
Epoch [
          38/
               250]
                                        g loss: 6.6902
                                        g_loss: 6.1421
Epoch [
          38/
               250] | d_loss: 0.4762
Epoch [
          38/
               250] | d loss: 0.0754 |
                                        g loss: 4.9330
                      d_loss: 1.9109
                                        g_loss: 11.3348
Epoch [
          39/
               250]
Epoch [
          39/
               250]
                    d loss: 0.0530
                                        g loss: 5.8493
Epoch [
          39/
               250]
                    d loss: 0.0959
                                        g loss: 5.3641
Epoch [
          39/
               250] | d loss: 0.2236
                                        g_loss: 7.2915
Epoch [
          39/
               250]
                    d_loss: 0.2110
                                        g_loss: 6.4935
          39/
                    | d_loss: 0.1284 |
                                        g_loss: 5.1039
Epoch [
               250]
          39/
               250]
                    d loss: 0.1622
                                        g loss: 6.4611
Epoch [
Epoch [
          39/
               250]
                    d loss: 0.3618
                                        g_loss: 5.8952
Epoch [
          39/
               250]
                    | d loss: 0.0755
                                        g loss: 4.8903
Epoch [
          39/
               250]
                    d_loss: 0.1259
                                        g_loss: 4.7377
Epoch [
          39/
               250] | d loss: 0.1288
                                        g_loss: 4.7646
                      d_loss: 0.0560
                                        g_loss: 4.5913
Epoch [
          39/
               250] |
Epoch [
          39/
               250]
                      d loss: 0.1135
                                        g loss: 5.5114
                    1
Epoch [
          39/
               250]
                    d loss: 0.0326
                                        g loss: 4.7779
               250]
                    d loss: 0.2892
                                        g_loss: 4.5927
Epoch [
          39/
                                        g_loss: 5.9756
Epoch [
          39/
               250]
                    d_loss: 0.1311
          39/
                    d_loss: 0.0562
                                        g_loss: 5.3159
Epoch [
               250]
Epoch [
          39/
               250] | d loss: 0.4494
                                        g loss: 6.0789
Epoch [
          39/
               250] | d loss: 0.0316
                                        g_loss: 3.6054
Epoch [
          39/
                      d loss: 0.2552
               250]
                    1
                                        g loss: 4.4056
Epoch [
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               250]
                    d_loss: 0.8527
                                        g_loss: 8.1809
Epoch [
          39/
               250]
                    d loss: 0.1713
                                        g_loss: 3.0691
                      d_loss: 0.0954
Epoch [
          39/
               250]
                                        g_loss: 3.8652
Epoch [
          39/
               250]
                    d loss: 0.0879
                                        g loss: 7.9502
Epoch [
          39/
               250]
                    | d loss: 0.2379
                                        g loss: 4.0729
Epoch [
          39/
               250] | d loss: 0.1959
                                        g_loss: 5.9996
                      d loss: 0.0704
                                        g_loss: 6.4389
Epoch [
          39/
               250]
                    39/
                    d_loss: 0.8907
                                        g_loss: 0.9258
Epoch [
               250]
Epoch [
          39/
               250]
                    d loss: 0.4902
                                        g loss: 3.6349
Epoch [
          40/
               250]
                    d loss: 0.1284
                                        g_loss: 5.5852
Epoch [
          40/
               250]
                    | d loss: 0.0468
                                        g loss: 5.0514
Epoch [
          40/
               250]
                    | d_loss: 0.0678
                                        g_loss: 4.3461
Epoch [
          40/
               250] | d loss: 0.2378
                                        g_loss: 5.8960
                      d_loss: 3.1750
                                        g_loss: 12.3988
Epoch [
          40/
               250]
Epoch [
          40/
               250]
                      d loss: 0.0560
                                        g loss: 4.3179
                    1
          40/
               250]
                    d loss: 0.1478
                                        g loss: 3.6782
Epoch [
               250]
                    d loss: 0.0961
                                        g_loss: 5.4317
Epoch [
          40/
Epoch [
          40/
               250]
                    | d_loss: 0.2961
                                        g_loss: 5.5892
          40/
                    d_loss: 0.1937
                                        g_loss: 4.2909
Epoch [
               250]
          40/
               250] | d loss: 0.1414
                                        g loss: 4.5234
Epoch [
Epoch [
          40/
               250] | d loss: 0.1245
                                        g_loss: 5.0786
Epoch [
                      d loss: 0.1214
          40/
               250]
                    1
                                        g loss: 6.8705
Epoch [
          40/
               250]
                    | d_loss: 0.1354
                                        g_loss: 4.2498
Epoch [
          40/
               250]
                    d loss: 0.2229
                                        g_loss: 5.8391
Epoch [
          40/
               250]
                      d_loss: 0.2308
                                        g_loss: 6.0090
Epoch [
          40/
               250]
                      d loss: 0.0534
                                        g loss: 5.2942
Epoch [
          40/
               250]
                    d loss: 0.1074
                                        g loss: 6.1051
Epoch [
          40/
               250] | d loss: 0.7740
                                        g_loss: 7.0233
                      d_loss: 0.0594
                                        g_loss: 4.2785
Epoch [
          40/
               250]
                    1
Epoch [
          40/
               250]
                    d_loss: 0.1738
                                        g_loss: 3.4544
          40/
               250]
                    d loss: 0.1872
                                        g loss: 2.8596
Epoch [
Epoch [
          40/
               250]
                      d loss: 0.0959
                                        g_loss: 6.2983
Epoch [
          40/
               250]
                      d loss: 0.1153
                                        g loss: 5.2212
                                        g_loss: 1.8683
Epoch [
          40/
               250]
                      d_loss: 0.5803
Epoch [
          40/
               250] |
                      d loss: 2.2198
                                        g loss: 10.5302
Epoch [
          40/
               250]
                      d_loss: 0.6096 |
                                        g_loss: 3.0058
Epoch [
               250] | d loss: 0.1874 | g loss: 6.3031
```

```
250] | d loss: 0.2140 |
Epoch [
          40/
                                        g loss: 6.6090
                      d loss: 0.1480
Epoch [
          41/
               250]
                                        g loss: 5.5911
                                        g_loss: 6.5548
Epoch [
          41/
               250]
                    d_loss: 0.2364
Epoch [
          41/
               250] | d loss: 0.0346
                                        g loss: 5.8444
                      d_loss: 0.0495
Epoch [
          41/
               250]
                                        g_loss: 4.7766
Epoch [
          41/
               250]
                    d loss: 2.8386
                                        g loss: 8.8264
Epoch [
          41/
               250]
                    | d loss: 0.1071
                                        g loss: 6.3383
                                        g_loss: 3.5124
Epoch [
          41/
               250] | d loss: 0.6655
Epoch [
          41/
               250]
                    1
                      d_loss: 0.2582
                                        g_loss: 5.5921
                    d_loss: 0.1591
                                        g_loss: 3.6786
Epoch [
          41/
               250]
          41/
               250]
                    d loss: 0.2575
                                        g loss: 4.4524
Epoch [
Epoch [
          41/
               250]
                      d loss: 0.0671
                                        g_loss: 5.7177
Epoch [
          41/
               250]
                      d loss: 0.1082
                                        g loss: 3.7219
Epoch [
          41/
               250]
                    d_loss: 0.2963
                                        g_loss: 4.4312
Epoch [
          41/
               250] | d loss: 0.1305
                                        g_loss: 6.3776
                      d_loss: 0.1419
                                        g_loss: 5.3513
Epoch [
          41/
               250]
Epoch [
          41/
               250]
                      d loss: 0.2154
                                        g loss: 3.4800
                    1
Epoch [
          41/
               250]
                    d loss: 0.0972
                                        g loss: 6.9155
          41/
                    d loss: 0.1469
                                        g_loss: 6.0281
Epoch [
               250]
Epoch [
          41/
               250]
                      d_loss: 0.1682
                                        g_loss: 3.7046
                    | d_loss: 0.0735
                                        g_loss: 5.8282
Epoch [
          41/
               250]
          41/
               250]
                    d loss: 1.6018
                                        g loss: 10.4372
Epoch [
Epoch [
          41/
               250] | d loss: 0.1802
                                        g_loss: 5.1239
                      d loss: 0.2736
                                        g loss: 7.5376
Epoch [
          41/
               250]
Epoch [
          41/
               250]
                      d_loss: 0.3799 |
                                        g_loss: 5.1326
                    Epoch [
          41/
               250]
                    d loss: 0.1553
                                        g_loss: 4.2088
Epoch [
          41/
               250]
                      d_loss: 0.0818
                                        g_loss: 4.6296
Epoch [
          41/
               250]
                      d loss: 0.1007
                                        g loss: 5.6185
Epoch [
          41/
               250]
                    d loss: 0.0387
                                        g loss: 4.1192
Epoch [
          41/
               250] | d loss: 0.3414
                                        g_loss: 3.7743
          42/
                      d_loss: 0.1157
Epoch [
               250]
                                        g_loss: 2.8929
                      d_loss: 0.0657
                                        g_loss: 4.1385
Epoch [
          42/
               250]
                    Epoch [
          42/
               250]
                    d loss: 0.7175
                                        g loss: 2.7100
Epoch [
          42/
               250]
                      d loss: 0.0704
                                        g_loss: 6.6161
Epoch [
          42/
               250]
                      d loss: 0.0366
                                        g loss: 4.2570
                    d_loss: 0.3592
Epoch [
          42/
               250]
                                        g_loss: 2.8823
Epoch [
          42/
               250] | d loss: 0.0946
                                        g_loss: 4.9670
          42/
                      d_loss: 0.2891
                                        g_loss: 5.2031
Epoch [
               250]
Epoch [
          42/
               250]
                      d loss: 0.1614
                                        g loss: 6.1888
                    1
          42/
               250]
                    d loss: 0.0208
                                        g loss: 7.2244
Epoch [
                                        g_loss: 4.2887
          42/
               250]
                    d loss: 0.0425
Epoch [
Epoch [
          42/
               250]
                    d loss: 0.0783
                                        g_loss: 7.9038
                    d_loss: 0.3901
                                        g_loss: 7.1636
Epoch [
          42/
               250]
          42/
               250]
                    d loss: 0.0879
                                        g loss: 4.3309
Epoch [
Epoch [
          42/
               250] | d loss: 0.0716
                                        g_loss: 4.3571
Epoch [
          42/
                      d loss: 0.0649
               250]
                                        g loss: 6.2427
Epoch [
          42/
               250]
                    | d_loss: 1.0465
                                        g_loss: 5.4486
Epoch [
          42/
               250]
                    d loss: 0.1624
                                        g_loss: 4.2968
Epoch [
          42/
               250]
                      d_loss: 0.1117
                                        g_loss: 5.2669
Epoch [
          42/
               250]
                      d loss: 0.1209
                                        g loss: 5.3217
Epoch [
          42/
               250]
                      d loss: 1.6278
                                        g loss: 10.1618
               250] | d_loss: 0.3249
          42/
                                        g_loss: 5.6230
Epoch [
          42/
                      d_loss: 0.1357
Epoch [
               250]
                    1
                                        g_loss: 8.2288
Epoch [
          42/
               250]
                    d_loss: 0.2660
                                        g_loss: 7.6893
          42/
               250]
                      d loss: 0.5403
                                        g loss: 2.3302
Epoch [
                    Epoch [
          42/
               250]
                      d loss: 0.1103
                                        g_loss: 4.7659
Epoch [
          42/
               250]
                      d loss: 0.1526
                                        g loss: 5.1579
                                        g_loss: 7.0014
Epoch [
          42/
               250]
                      d_loss: 0.1619
Epoch [
          42/
               250] |
                      d loss: 0.3128 |
                                        g_loss: 5.3917
Epoch [
          43/
               250]
                      d_loss: 0.1116 |
                                        g_loss: 4.8347
Epoch [
               250] | d loss: 0.1814 | g loss: 3.3666
```

```
250] | d loss: 0.2204 |
Epoch [
          43/
                                        g loss: 5.1401
                      d loss: 0.0661
Epoch [
          43/
               250]
                                        g loss: 4.6058
                                        g_loss: 4.9719
Epoch [
          43/
               250]
                    d_loss: 0.1175
Epoch [
          43/
               250] | d loss: 0.0580
                                        g loss: 7.0400
Epoch [
          43/
               250]
                      d_loss: 0.1217
                                        g_loss: 6.3882
Epoch [
          43/
               250]
                    d loss: 0.1740
                                        g loss: 2.4489
Epoch [
          43/
               250]
                    d loss: 0.4412
                                        g loss: 4.4696
Epoch [
          43/
               250] | d loss: 0.3504
                                        g_loss: 4.9267
                                        g_loss: 4.0991
Epoch [
          43/
               250]
                    d_loss: 0.3181
                      d_loss: 0.2732
                                        g_loss: 4.8485
Epoch [
          43/
               250]
                    43/
               250]
                    d loss: 0.8179
                                        g loss: 2.6933
Epoch [
Epoch [
          43/
               250]
                    d loss: 0.2097
                                        g_loss: 4.9968
Epoch [
          43/
               250]
                      d loss: 0.0261
                                        g loss: 5.4564
Epoch [
          43/
               250]
                    | d_loss: 0.9059
                                        g_loss: 7.1846
Epoch [
          43/
               250] | d loss: 0.1974
                                        g_loss: 3.7633
                      d_loss: 0.1892
                                        g_loss: 3.5543
Epoch [
          43/
               250]
Epoch [
          43/
               250]
                      d loss: 0.2575
                                        g loss: 6.3925
                    1
Epoch [
          43/
               250]
                    d loss: 0.1777
                                        g loss: 6.5683
                                        g_loss: 3.8608
          43/
                    d loss: 0.2980
Epoch [
               250]
Epoch [
          43/
               250]
                      d_loss: 0.1344
                                        g_loss: 6.8897
                    | d_loss: 0.1117
                                        g_loss: 6.1542
Epoch [
          43/
               250]
          43/
               250] | d loss: 0.0805
                                        g loss: 3.4039
Epoch [
Epoch [
          43/
               250] | d loss: 0.2654
                                        g_loss: 7.8962
Epoch [
                      d loss: 0.2949
          43/
               250]
                                        g loss: 5.8757
Epoch [
          43/
               250]
                    | d_loss: 0.2052
                                        g_loss: 3.6030
Epoch [
          43/
               250]
                    | d loss: 0.1109
                                        g_loss: 6.8033
                                        g_loss: 4.8500
Epoch [
          43/
               250]
                      d_loss: 0.0550
Epoch [
          44/
               250]
                      d loss: 0.0518
                                        g loss: 7.4946
Epoch [
          44/
               250]
                    | d loss: 0.0561
                                        g loss: 8.1772
Epoch [
          44/
               250] | d loss: 0.2511
                                        g_loss: 2.6492
          44/
                      d_loss: 0.0701
Epoch [
               250]
                    1
                                        g_loss: 6.5879
                      d_loss: 0.0473 |
                                        g_loss: 4.6357
Epoch [
          44/
               250]
                    Epoch [
          44/
               250]
                    d loss: 0.0694
                                        g loss: 5.1276
Epoch [
          44/
               250]
                      d loss: 0.1231
                                        g_loss: 5.8563
Epoch [
          44/
               250]
                      d loss: 0.2844
                                        g loss: 4.5200
Epoch [
          44/
               250]
                    d_loss: 0.2694
                                        g_loss: 2.8239
Epoch [
          44/
               250] | d loss: 0.2580
                                        g_loss: 3.0496
                      d_loss: 0.3703
                                        g_loss: 2.9443
Epoch [
          44/
               250]
Epoch [
          44/
               250]
                      d loss: 0.4213
                                        g loss: 7.5265
                    1
          44/
               250]
                    d loss: 0.0177
                                        g loss: 7.9520
Epoch [
          44/
               250]
                    d loss: 0.1152
                                        g_loss: 5.9265
Epoch [
Epoch [
          44/
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                    | d_loss: 0.0303
                                        g_loss: 6.2408
                    d_loss: 0.0922
                                        g_loss: 4.3420
Epoch [
          44/
               250]
          44/
                    d loss: 0.1506
                                        g loss: 3.0272
Epoch [
               250]
Epoch [
          44/
               250] | d loss: 0.0890
                                        g_loss: 4.3183
Epoch [
                      d loss: 0.2240
          44/
               250]
                                        g loss: 6.5202
                                        g_loss: 8.1969
Epoch [
          44/
               250]
                    | d_loss: 0.6683
Epoch [
          44/
               250]
                    d loss: 0.0822
                                        g_loss: 5.4424
Epoch [
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                      d_loss: 0.0644
                                        g_loss: 5.5657
Epoch [
          44/
               250]
                      d loss: 0.2048
                                        g loss: 6.2795
Epoch [
          44/
               250]
                      d loss: 0.1409
                                        g loss: 2.4707
Epoch [
          44/
               250] | d loss: 0.1002
                                        g_loss: 4.4046
                      d loss: 0.0485
                                        g_loss: 5.6234
Epoch [
          44/
               250]
                    1
Epoch [
          44/
               250]
                    d_loss: 0.3997
                                        g_loss: 4.3672
          44/
               250]
                    d loss: 0.2260
                                        g loss: 5.3007
Epoch [
Epoch [
          44/
               250]
                      d loss: 0.1058
                                        g_loss: 4.4985
Epoch [
          45/
               250]
                      d loss: 0.1205
                                        g loss: 5.3405
                                        g_loss: 4.3192
Epoch [
          45/
               250]
                      d_loss: 0.3378
Epoch [
          45/
               250] |
                      d loss: 0.0651
                                        g_loss: 6.9525
Epoch [
          45/
               250]
                      d_loss: 0.0349 |
                                        g_loss: 4.4150
Epoch [
               250] | d loss: 0.0633 | g loss: 4.8705
```

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250] | d loss: 0.6800 |
Epoch [
          45/
                                        g loss: 7.0823
          45/
                      d loss: 0.3587
Epoch [
               250]
                                        g loss: 6.0192
Epoch [
          45/
               250]
                    d_loss: 0.1560
                                        g_loss: 4.6813
Epoch [
          45/
               250] | d loss: 0.2716 |
                                        g loss: 2.6136
          45/
                      d_loss: 0.1173
                                        g_loss: 3.9408
Epoch [
               250]
Epoch [
          45/
               250]
                    d loss: 0.5861
                                        g loss: 8.7919
Epoch [
          45/
               250]
                    | d loss: 0.2160
                                        g loss: 3.6244
Epoch [
          45/
               250] | d loss: 0.0352
                                        g_loss: 5.0909
Epoch [
          45/
               250]
                    d_loss: 0.5557
                                        g_loss: 6.4245
                      d_loss: 0.1568
                                        g_loss: 4.8771
Epoch [
          45/
               250]
                    45/
               250]
                    d loss: 0.0373
                                        g loss: 4.7041
Epoch [
Epoch [
          45/
               250]
                      d loss: 0.0239
                                        g_loss: 5.0812
Epoch [
          45/
               250]
                      d loss: 0.2881
                                        g loss: 4.5268
Epoch [
          45/
               250]
                    | d_loss: 0.1339
                                        g_loss: 4.4554
Epoch [
          45/
               250] | d loss: 0.2293
                                        g_loss: 4.6850
          45/
                      d_loss: 0.5255
                                        g_loss: 7.2614
Epoch [
               250]
Epoch [
          45/
               250]
                      d loss: 0.0218
                                        g loss: 3.2730
                    1
Epoch [
          45/
               250]
                    d loss: 0.1556
                                        g loss: 7.5242
          45/
                    d loss: 0.1040
                                        g_loss: 6.7721
Epoch [
               250]
Epoch [
          45/
               250]
                      d_loss: 0.2230
                                        g_loss: 4.1091
                    | d_loss: 0.1151
                                        g_loss: 4.3655
Epoch [
          45/
               250]
          45/
               250] | d loss: 0.1446
                                        g loss: 4.9697
Epoch [
Epoch [
          45/
               250] | d loss: 0.7053
                                        g_loss: 8.3343
Epoch [
          45/
                      d loss: 0.1844
               250]
                                        g loss: 5.1211
Epoch [
          46/
               250]
                      d_loss: 1.7845
                                        g_loss: 13.5897
                    Epoch [
          46/
               250]
                    d loss: 0.0867
                                        g loss: 6.9652
                      d_loss: 0.6258
Epoch [
          46/
               250]
                                        g_loss: 5.8043
Epoch [
          46/
               250]
                      d loss: 0.0728
                                        g loss: 6.4955
Epoch [
          46/
               250]
                    d loss: 0.2064
                                        g loss: 5.5953
Epoch [
          46/
               250] | d loss: 0.1263
                                        g_loss: 4.7480
                      d_loss: 0.0754
                                        g_loss: 3.7931
Epoch [
          46/
               250]
                    1
                      d_loss: 0.3168
                                        g_loss: 8.1609
Epoch [
          46/
               250]
                    Epoch [
          46/
               250]
                    d loss: 0.1323
                                        g loss: 3.9732
Epoch [
          46/
               250]
                      d loss: 0.0574
                                        g_loss: 6.0070
Epoch [
          46/
               250]
                      d loss: 0.2158
                                        g loss: 6.1506
Epoch [
          46/
               250]
                    d_loss: 0.2364
                                        g_loss: 5.1199
Epoch [
          46/
               250] | d loss: 0.1736
                                        g_loss: 4.6266
                      d_loss: 0.1383
                                        g_loss: 3.8489
Epoch [
          46/
               250]
Epoch [
          46/
               250]
                      d loss: 0.1180
                                        g loss: 3.6613
                    1
          46/
               250]
                    | d loss: 0.1810
                                        g loss: 5.3043
Epoch [
                                        g_loss: 6.2816
               250]
                    d loss: 0.0887
Epoch [
          46/
Epoch [
          46/
               250]
                    d loss: 0.1327
                                        g_loss: 4.5677
                    | d_loss: 0.0928
                                        g_loss: 5.7790
Epoch [
          46/
               250]
          46/
               250]
                    d loss: 0.2099
                                        g loss: 6.3646
Epoch [
Epoch [
          46/
               250] | d loss: 0.1601
                                        g_loss: 4.7439
Epoch [
                      d loss: 0.3686
                                        g loss: 7.2681
          46/
               250]
                    1
                                        g_loss: 6.3466
Epoch [
          46/
               250]
                    d_loss: 0.1088
Epoch [
          46/
               250]
                    d loss: 0.0489
                                        g_loss: 5.1170
Epoch [
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                      d_loss: 0.3758
                                        g_loss: 4.4586
Epoch [
          46/
               250]
                      d loss: 0.2575
                                        g loss: 5.6208
Epoch [
          46/
               250]
                      d loss: 0.2748
                                        g loss: 3.2799
Epoch [
          46/
               250] | d loss: 0.2072
                                        g_loss: 4.4590
                      d_loss: 0.1011
                                        g_loss: 5.5527
Epoch [
          46/
               250]
                    1
Epoch [
          47/
               250]
                    d_loss: 0.1919
                                        g_loss: 6.2067
          47/
               250]
                    d loss: 0.1024
                                        g loss: 3.9973
Epoch [
Epoch [
          47/
               250]
                      d loss: 0.0981
                                        g_loss: 6.3976
Epoch [
          47/
               250]
                      d loss: 0.1369
                                        g loss: 5.0902
                                        g_loss: 6.3068
Epoch [
          47/
               250]
                      d_loss: 0.1591
Epoch [
          47/
               250] |
                      d loss: 0.2331
                                        g_loss: 5.9591
Epoch [
          47/
               250]
                      d_loss: 0.1766 |
                                        g_loss: 6.2341
Epoch [
          47/
               250] | d loss: 0.0276 | g loss: 5.3875
```

```
250] | d loss: 0.0639 |
Epoch [
          47/
                                        g loss: 5.6707
          47/
                      d loss: 0.0376
Epoch [
               250]
                                        g loss: 6.8730
Epoch [
          47/
               250] | d_loss: 0.3253
                                        g_loss: 3.6768
Epoch [
          47/
               250] | d loss: 0.0845
                                        g loss: 4.1677
          47/
                      d_loss: 0.0501
Epoch [
               250]
                                        g_loss: 6.5441
Epoch [
          47/
               250]
                    d loss: 0.5666
                                        g loss: 4.0413
Epoch [
          47/
               250]
                    | d loss: 0.1131
                                        g loss: 4.8667
Epoch [
          47/
               250] | d loss: 0.0633
                                        g_loss: 6.5342
Epoch [
          47/
               250]
                    d_loss: 0.1096
                                        g_loss: 4.8488
          47/
                    d_loss: 0.2380
                                        g_loss: 6.9981
Epoch [
               250]
          47/
               250]
                    | d loss: 0.1189
                                        g loss: 5.6669
Epoch [
Epoch [
          47/
               250]
                      d loss: 0.2281
                                        g_loss: 7.4293
Epoch [
          47/
               250]
                      d loss: 0.1453
                                        g loss: 4.0702
Epoch [
          47/
               250]
                    d_loss: 0.1054
                                        g_loss: 6.5116
Epoch [
          47/
               250] | d loss: 0.0657
                                        g_loss: 5.6455
          47/
                      d_loss: 0.2276
                                        g_loss: 6.5514
Epoch [
               250]
Epoch [
          47/
               250]
                      d loss: 0.0591
                                        g loss: 6.0830
                    1
Epoch [
          47/
               250]
                    d loss: 0.2357
                                        g loss: 6.0771
          47/
               250]
                    | d loss: 1.2465
                                        g_loss: 3.0953
Epoch [
          47/
Epoch [
               250]
                      d_loss: 0.0411
                                        g_loss: 4.3129
          47/
                    d_loss: 0.5769
                                        g_loss: 2.8315
Epoch [
               250]
          48/
               250] | d loss: 0.4708
                                        g loss: 5.3816
Epoch [
Epoch [
          48/
               250] | d loss: 0.2708
                                        g_loss: 4.9574
                      d loss: 0.0488
Epoch [
          48/
               250]
                                        g loss: 4.6514
Epoch [
          48/
               250]
                      d_loss: 0.1858
                                        g_loss: 5.7601
                    Epoch [
          48/
               250]
                    d loss: 0.6333
                                        g_loss: 5.9282
Epoch [
          48/
               250]
                      d_loss: 0.1741
                                        g_loss: 5.7948
Epoch [
          48/
               250]
                      d loss: 0.2015
                                        g loss: 3.4687
Epoch [
          48/
               250]
                    | d loss: 0.2941
                                        g loss: 4.3512
Epoch [
          48/
               250] | d loss: 0.0486
                                        g_loss: 4.9600
                      d_loss: 0.0654
Epoch [
          48/
               250]
                    1
                                        g_loss: 6.5752
                      d_loss: 0.0804
                                        g_loss: 4.3911
Epoch [
          48/
               250]
                    Epoch [
          48/
               250]
                    d loss: 0.2693
                                        g loss: 5.3136
Epoch [
          48/
               250]
                      d loss: 0.0376
                                        g_loss: 6.2142
Epoch [
          48/
               250]
                      d loss: 0.0576
                                        g loss: 6.4573
Epoch [
          48/
               250]
                    d_loss: 0.1748
                                        g_loss: 5.9820
Epoch [
          48/
               250] | d loss: 0.1219
                                        g_loss: 5.1771
                      d_loss: 0.1387
                                        g_loss: 4.3281
Epoch [
          48/
               250]
Epoch [
          48/
               250]
                      d loss: 0.2355
                                        g loss: 3.8597
                    1
          48/
               250]
                    d loss: 0.0437
                                        g loss: 4.7107
Epoch [
               250]
                    d loss: 0.0474
                                        g_loss: 4.9477
Epoch [
          48/
Epoch [
          48/
               250]
                    d loss: 0.1411
                                        g_loss: 5.1728
          48/
                    | d_loss: 0.0892
                                        g_loss: 6.9550
Epoch [
               250]
          48/
               250]
                    d loss: 0.1043
Epoch [
                                        g loss: 6.5148
Epoch [
          48/
               250] | d loss: 0.3825
                                        g_loss: 7.0580
Epoch [
                      d loss: 0.2387
          48/
               250]
                                        g loss: 6.2968
                                        g_loss: 8.3588
Epoch [
          48/
               250]
                      d_loss: 0.8087
                    Epoch [
          48/
               250]
                    d loss: 0.2321
                                        g_loss: 4.8591
Epoch [
          48/
               250]
                      d_loss: 0.0964
                                        g_loss: 6.5187
Epoch [
          48/
               250]
                      d loss: 0.0449
                                        g loss: 4.9080
Epoch [
          49/
               250]
                      d loss: 0.0898
                                        g loss: 4.9208
                                        g_loss: 4.1149
Epoch [
          49/
               250] | d loss: 0.1504
                      d_loss: 0.0216
Epoch [
          49/
               250]
                    1
                                        g_loss: 6.7397
Epoch [
          49/
               250]
                    d_loss: 0.0588
                                        g_loss: 5.0365
          49/
               250]
                    d loss: 0.0324
                                        g_loss: 7.2672
Epoch [
Epoch [
          49/
               250]
                      d loss: 0.4041
                                        g_loss: 6.1122
Epoch [
          49/
               250]
                      d loss: 0.0620
                                        g loss: 4.3042
                                        g_loss: 5.5884
Epoch [
          49/
               250]
                      d_loss: 0.0793
Epoch [
          49/
               250] |
                      d loss: 0.1366
                                        g_loss: 5.1354
Epoch [
          49/
               250]
                      d_loss: 0.2307 |
                                        g_loss: 8.7727
Epoch [
               250] | d loss: 0.1492 | g loss: 5.8632
```

```
250] | d loss: 0.0568 |
Epoch [
          49/
                                        g loss: 6.2273
                      d loss: 0.2791
Epoch [
          49/
               250]
                                        g loss: 3.9753
                                        g_loss: 5.4956
Epoch [
          49/
               250] | d_loss: 0.1180
Epoch [
          49/
               250] | d loss: 0.2510
                                        g loss: 7.7254
                      d_loss: 0.1486
Epoch [
          49/
               250]
                                        g_loss: 7.2771
Epoch [
          49/
               250]
                    d loss: 0.2910
                                        g loss: 5.7629
Epoch [
          49/
               250]
                    | d loss: 0.2128
                                        g loss: 6.2443
Epoch [
          49/
               250] | d loss: 0.1025
                                        g_loss: 4.8286
Epoch [
          49/
               250]
                    d_loss: 0.0608
                                        g_loss: 3.9037
          49/
                    d_loss: 0.1777
                                        g_loss: 5.0480
Epoch [
               250]
Epoch [
          49/
               250]
                    d loss: 0.1582
                                        g loss: 4.2081
Epoch [
          49/
               250]
                    d loss: 0.0572
                                        g_loss: 6.0334
Epoch [
          49/
               250]
                      d loss: 0.2426
                                        g loss: 7.2444
Epoch [
          49/
               250]
                    d_loss: 0.0241
                                        g_loss: 4.5846
Epoch [
          49/
               250] | d loss: 0.2152
                                        g_loss: 4.4458
                      d_loss: 0.2077
                                        g_loss: 5.3103
Epoch [
          49/
               250]
Epoch [
          49/
               250]
                      d loss: 0.0226
                                        g loss: 5.7577
                    1
Epoch [
          49/
               250]
                    | d loss: 0.1702 |
                                        g loss: 6.2548
               250]
                    d loss: 1.7870
                                        g_loss: 9.9604
Epoch [
          50/
Epoch [
          50/
               250]
                    | d_loss: 0.3873
                                        g_loss: 3.5631
          50/
                    d_loss: 0.1564
Epoch [
               250]
                                        g_loss: 4.6636
          50/
               250] | d loss: 0.1218
                                        g loss: 4.8465
Epoch [
Epoch [
          50/
               250] | d loss: 0.0134
                                        g loss: 5.2474
Epoch [
                      d loss: 0.2266
                                        g loss: 3.2530
          50/
               250]
                    1
Epoch [
          50/
               250]
                    d_loss: 0.2147
                                        g_loss: 3.7524
Epoch [
          50/
               250]
                    d loss: 0.3162
                                        g loss: 2.2397
                      d_loss: 0.2410
Epoch [
          50/
               250]
                                        g_loss: 3.9288
Epoch [
          50/
               250]
                    d loss: 0.2589
                                        g loss: 6.8370
Epoch [
          50/
               250]
                    | d loss: 0.2337
                                        g loss: 2.7693
Epoch [
          50/
               250] | d loss: 0.0715
                                        g_loss: 7.1035
                                        g_loss: 4.7144
                      d_loss: 0.0818
Epoch [
          50/
               250]
                    | d_loss: 0.0926 |
                                        g_loss: 6.3146
Epoch [
          50/
               250]
Epoch [
          50/
               250]
                    d loss: 0.2533
                                        g loss: 5.6391
Epoch [
          50/
               250]
                    d loss: 0.0914
                                        g_loss: 5.8095
Epoch [
          50/
               250]
                    | d loss: 0.3831
                                        g loss: 6.0131
Epoch [
          50/
               250]
                    d_loss: 0.0217
                                        g_loss: 5.7089
Epoch [
          50/
               250] | d loss: 0.1873
                                        g_loss: 5.2901
                      d_loss: 0.2944
                                        g_loss: 3.3416
Epoch [
          50/
               250]
Epoch [
          50/
               250]
                      d loss: 0.0811
                                        g loss: 7.0806
                    1
Epoch [
          50/
               250]
                    d loss: 0.0282
                                        g loss: 6.3093
                                        g_loss: 5.0249
               250]
                    d loss: 0.1344
Epoch [
          50/
Epoch [
          50/
               250]
                    | d_loss: 0.4355
                                        g_loss: 4.2599
          50/
                    | d_loss: 0.0318
                                        g_loss: 4.8635
Epoch [
               250]
          50/
               250] | d loss: 0.1605
                                        g loss: 4.3148
Epoch [
Epoch [
          50/
               250] | d loss: 0.5650
                                        g_loss: 4.0112
Epoch [
                      d loss: 0.0893
                                        g loss: 3.5713
          50/
               250]
                    1
Epoch [
          50/
               250]
                    | d_loss: 0.0951
                                        g_loss: 3.2649
Epoch [
          51/
               250]
                    d loss: 0.2261
                                        g_loss: 5.3817
Epoch [
          51/
               250]
                      d_loss: 0.2648
                                        g_loss: 3.0754
Epoch [
          51/
               250]
                      d loss: 0.0483
                                        g loss: 5.7526
Epoch [
          51/
               250]
                    d loss: 0.0307
                                        g loss: 6.7939
          51/
               250] | d loss: 0.1412
                                        g_loss: 4.1482
Epoch [
                      d_loss: 0.0899
                                        g_loss: 5.9111
Epoch [
          51/
               250]
                    1
Epoch [
          51/
               250]
                    d_loss: 0.3226
                                        g_loss: 4.1288
               250]
                    d loss: 0.3351
                                        g loss: 2.8229
Epoch [
          51/
Epoch [
          51/
               250]
                      d loss: 0.0751
                                        g_loss: 4.0409
Epoch [
          51/
               250]
                      d loss: 0.2298
                                        g loss: 5.0184
                                        g_loss: 4.7214
Epoch [
          51/
               250]
                      d_loss: 0.1131
Epoch [
          51/
               250] |
                      d loss: 0.3062
                                        g loss: 7.1199
Epoch [
          51/
               250]
                      d_loss: 1.1850 |
                                        g_loss: 11.2450
Epoch [
               250] | d loss: 0.2847 | g loss: 4.0003
```

```
250 | d loss: 0.1724 |
Epoch [
          51/
                                        g loss: 3.8802
                    | d loss: 0.0522
Epoch [
          51/
               250]
                                        g loss: 7.6143
                                        g_loss: 8.4555
Epoch [
          51/
               250] | d_loss: 0.0163
Epoch [
          51/
               250] | d loss: 0.0990
                                        g loss: 6.0559
          51/
Epoch [
               250]
                      d_loss: 0.2603
                                        g_loss: 8.0061
Epoch [
          51/
               250]
                    d loss: 0.4001
                                        g loss: 2.4251
Epoch [
          51/
               250]
                    d loss: 0.0958
                                        g loss: 3.4303
Epoch [
          51/
               250] | d loss: 0.1102
                                        g_loss: 5.4424
Epoch [
          51/
               250]
                    d_loss: 0.0895
                                        g_loss: 5.4694
                    d_loss: 0.0794
                                        g_loss: 4.8741
Epoch [
          51/
               250]
Epoch [
          51/
               250]
                    d loss: 0.0957
                                        g loss: 7.7627
Epoch [
          51/
               250]
                    d loss: 0.1301
                                        g_loss: 4.1318
Epoch [
          51/
               250]
                      d loss: 0.1598
                                        g loss: 5.8916
Epoch [
          51/
               250]
                    d_loss: 0.0782
                                        g_loss: 5.4904
Epoch [
          51/
               250] | d loss: 0.0123
                                        g_loss: 7.4725
          52/
                      d_loss: 5.3483
                                        g_loss: 14.2748
Epoch [
               250]
Epoch [
          52/
               250]
                      d loss: 0.7659
                                        g loss: 3.2530
                    1
Epoch [
          52/
               250]
                    | d loss: 0.1168
                                        g loss: 4.2128
          52/
               250]
                    d loss: 0.1541
                                        g_loss: 5.7830
Epoch [
Epoch [
          52/
               250]
                    d_loss: 0.2487
                                        g_loss: 4.3928
          52/
                    d_loss: 0.3871
                                        g_loss: 7.4156
Epoch [
               250]
          52/
               250] | d loss: 0.7050
                                        g loss: 3.4003
Epoch [
Epoch [
          52/
               250] | d loss: 0.0505
                                        g loss: 5.2456
Epoch [
          52/
                      d loss: 0.0328
                                        g loss: 5.5593
               250]
                    1
Epoch [
          52/
               250]
                    | d_loss: 0.0396 |
                                        g_loss: 7.0510
Epoch [
          52/
               250]
                    d loss: 0.1706
                                        g loss: 6.0446
                      d_loss: 0.1445
Epoch [
          52/
               250]
                                        g_loss: 5.1385
Epoch [
          52/
               250]
                    d loss: 0.0285
                                        g loss: 3.8135
Epoch [
          52/
               250]
                    | d loss: 0.1219
                                        g loss: 4.4585
Epoch [
          52/
               250] | d loss: 0.2703
                                        g_loss: 5.3655
          52/
                      d_loss: 0.1425
                                        g_loss: 5.4296
Epoch [
               250]
                    d_loss: 0.3246
                                        g_loss: 7.5011
Epoch [
          52/
               250]
Epoch [
          52/
               250]
                    d loss: 0.2048
                                        g loss: 4.6394
Epoch [
          52/
               250]
                    d loss: 0.1087
                                        g_loss: 4.2414
Epoch [
          52/
               250]
                    | d loss: 0.0689
                                        g loss: 5.6260
Epoch [
          52/
               250]
                    d_loss: 0.2650
                                        g_loss: 6.7900
Epoch [
          52/
               250] | d loss: 0.0681
                                        g_loss: 5.1308
          52/
                      d_loss: 0.2535
                                        g_loss: 5.2063
Epoch [
               250] |
Epoch [
          52/
               250]
                      d loss: 0.0615
                                        g loss: 4.5493
                    1
Epoch [
          52/
               250]
                    d loss: 1.2414
                                        g loss: 2.5728
          52/
               250]
                    d loss: 6.4857
                                        g_loss: 2.9186
Epoch [
Epoch [
          52/
               250]
                    d loss: 0.1324
                                        g_loss: 5.0473
          52/
                    d_loss: 0.1441
                                        g_loss: 4.5577
Epoch [
               250]
          52/
               250] | d loss: 0.7092
                                        g loss: 6.7504
Epoch [
Epoch [
          53/
               250] | d loss: 0.0181
                                        g_loss: 5.5454
Epoch [
                      d loss: 0.0798
          53/
               250]
                    1
                                        g loss: 8.1323
Epoch [
          53/
               250]
                    | d_loss: 0.0316
                                        g_loss: 5.8556
Epoch [
          53/
               250]
                    d loss: 0.2131
                                        g_loss: 6.3641
Epoch [
          53/
               250]
                      d_loss: 0.2226
                                        g_loss: 7.2216
Epoch [
          53/
               250]
                      d loss: 1.9805
                                        g loss: 8.8745
Epoch [
          53/
               250]
                    | d loss: 1.1936
                                        g loss: 2.2677
Epoch [
          53/
               250] | d loss: 0.1010
                                        g_loss: 5.7876
                      d_loss: 0.1437
                                        g_loss: 5.1569
Epoch [
          53/
               250]
                    1
Epoch [
          53/
               250]
                    | d_loss: 0.7578 |
                                        g_loss: 3.7962
          53/
               250]
                    d loss: 0.0705
                                        g loss: 4.4766
Epoch [
Epoch [
          53/
               250]
                    d loss: 0.3648
                                        g_loss: 4.3482
Epoch [
          53/
               250]
                      d loss: 1.4293
                                        g loss: 9.0389
                    | d_loss: 0.0612
                                        g_loss: 4.6999
Epoch [
          53/
               250]
Epoch [
          53/
               250] | d loss: 0.0338
                                        g_loss: 6.2769
Epoch [
          53/
               250]
                      d_loss: 0.2024 |
                                        g_loss: 3.7736
Epoch [
               250] | d loss: 0.0362 | g loss: 5.2679
```

```
250] | d loss: 0.1230 |
Epoch [
          53/
                                        g loss: 4.7261
                      d loss: 0.2028
Epoch [
          53/
               250]
                                        g loss: 4.3213
Epoch [
          53/
               250] | d_loss: 0.1459
                                        g_loss: 5.5534
Epoch [
          53/
               250] | d loss: 0.3829
                                        g loss: 6.2534
          53/
                      d_loss: 0.0839
Epoch [
               250]
                                        g_loss: 6.6041
Epoch [
          53/
               250]
                    d loss: 0.0886
                                        g loss: 5.3607
Epoch [
          53/
               250]
                    | d loss: 0.3617
                                        g loss: 2.7490
Epoch [
          53/
               250] | d loss: 0.0085
                                        g_loss: 4.5245
Epoch [
          53/
               250]
                    d_loss: 0.0890
                                        g_loss: 5.0872
                    d_loss: 0.0219
                                        g_loss: 4.8835
Epoch [
          53/
               250]
          53/
               250]
                    d loss: 0.1413
                                        g loss: 6.2381
Epoch [
Epoch [
          53/
               250]
                      d loss: 0.0903
                                        g_loss: 5.3370
Epoch [
          54/
               250]
                      d loss: 0.1645
                                        g loss: 4.9315
Epoch [
          54/
               250]
                    d_loss: 0.0867
                                        g_loss: 6.5419
Epoch [
          54/
               250] | d loss: 0.1273
                                        g_loss: 5.0481
                      d_loss: 0.0576
                                        g_loss: 6.4994
Epoch [
          54/
               250]
Epoch [
          54/
               250]
                      d loss: 0.4799
                                        g loss: 4.7285
                    1
Epoch [
          54/
               250]
                    d loss: 0.2331
                                        g loss: 6.0720
          54/
               250]
                    | d loss: 0.1155
                                        g_loss: 7.5501
Epoch [
Epoch [
          54/
               250]
                      d_loss: 0.0446
                                        g_loss: 6.0472
          54/
                    d_loss: 0.8709
                                        g_loss: 7.8447
Epoch [
               250]
          54/
               250] | d loss: 0.0568
                                        g loss: 4.3784
Epoch [
Epoch [
          54/
               250] | d loss: 0.1162
                                        g loss: 6.0877
Epoch [
                      d loss: 0.1219
          54/
               250]
                                        g loss: 7.0331
Epoch [
          54/
               250]
                    | d_loss: 0.0063 |
                                        g_loss: 6.8256
Epoch [
          54/
               250]
                    d loss: 0.3466
                                        g_loss: 3.3431
                      d_loss: 0.2473
Epoch [
          54/
               250]
                                        g_loss: 3.2828
Epoch [
          54/
               250]
                      d loss: 0.1088
                                        g loss: 6.4624
Epoch [
          54/
               250]
                    | d loss: 0.1460
                                        g loss: 6.6719
Epoch [
          54/
               250] | d loss: 0.1949
                                        g_loss: 2.7458
                      d_loss: 0.0384
                                        g_loss: 6.7764
Epoch [
          54/
               250]
                    54/
                      d_loss: 0.0456
                                        g_loss: 6.0749
Epoch [
               250]
                    Epoch [
          54/
               250]
                    d loss: 0.2058
                                        g loss: 5.0044
Epoch [
          54/
               250]
                    d loss: 0.1275
                                        g_loss: 4.8622
Epoch [
          54/
               250]
                    | d loss: 0.4351
                                        g loss: 6.7962
Epoch [
          54/
               250]
                    d_loss: 0.0291
                                        g_loss: 5.9936
Epoch [
          54/
               250] | d loss: 0.0237
                                        g_loss: 6.7632
                      d_loss: 0.1203
                                        g_loss: 5.1472
Epoch [
          54/
               250]
Epoch [
          54/
               250]
                      d loss: 0.1725
                                        g loss: 6.8648
                    1
Epoch [
          54/
               250]
                    d loss: 0.0982
                                        g loss: 8.9573
                                        g_loss: 5.1169
          54/
               250]
                    | d loss: 0.0174
Epoch [
Epoch [
          55/
               250]
                    d loss: 0.3200
                                        g_loss: 5.6541
                    d_loss: 0.3841
                                        g_loss: 5.6534
Epoch [
          55/
               250]
          55/
               250]
                    | d loss: 0.8115
                                        g loss: 4.3430
Epoch [
Epoch [
          55/
               250] | d loss: 0.2184
                                        g loss: 4.7190
Epoch [
          55/
                      d loss: 0.0555
                                        g loss: 6.4756
               250]
                    1
                                        g_loss: 6.0988
Epoch [
          55/
               250]
                    | d_loss: 0.0132
Epoch [
          55/
               250]
                    d loss: 0.0740
                                        g_loss: 5.3933
Epoch [
          55/
               250]
                      d_loss: 0.1625
                                        g_loss: 6.5198
Epoch [
          55/
               250]
                      d loss: 0.1270
                                        g loss: 5.4441
Epoch [
          55/
               250]
                    d loss: 0.3801
                                        g loss: 6.2650
Epoch [
          55/
               250] | d loss: 0.0988
                                        g_loss: 8.0907
          55/
                      d loss: 0.0977
Epoch [
               250]
                    g_loss: 5.4306
Epoch [
          55/
               250]
                    d_loss: 0.2818
                                        g_loss: 4.9855
          55/
               250]
                    d loss: 0.1257
                                        g loss: 6.3664
Epoch [
Epoch [
          55/
               250]
                      d loss: 0.0904
                                        g_loss: 4.8361
Epoch [
          55/
               250]
                      d loss: 0.2569
                                        g loss: 6.0882
Epoch [
          55/
               250]
                      d_loss: 0.1427
                                        g_loss: 5.3484
Epoch [
          55/
               250] |
                      d loss: 0.5163
                                        g_loss: 3.5441
Epoch [
          55/
               250]
                      d_loss: 0.1262
                                        g_loss: 5.9279
Epoch [
               250] | d loss: 0.1430 | g loss: 7.1833
```

```
250] | d loss: 0.5475 |
Epoch [
          55/
                                        g loss: 2.2602
                    | d loss: 0.0101
Epoch [
          55/
               250]
                                        g loss: 6.7109
Epoch [
          55/
               250] | d_loss: 0.0925
                                        g_loss: 5.2284
Epoch [
          55/
               250] | d loss: 0.0172
                                        g loss: 4.9809
          55/
                      d_loss: 0.2137
                                        g_loss: 5.9142
Epoch [
               250]
Epoch [
          55/
               250]
                    d loss: 0.4555
                                        g loss: 3.9493
Epoch [
          55/
               250]
                    d loss: 0.1355
                                        g loss: 6.6171
               250] | d_loss: 0.0795
Epoch [
          55/
                                        g_loss: 4.3587
Epoch [
          55/
               250]
                    d_loss: 0.1711
                                        g_loss: 2.1003
          56/
                    d_loss: 1.1551
                                        g_loss: 12.6777
Epoch [
               250]
Epoch [
          56/
               250]
                    d loss: 0.3551
                                        g loss: 6.2767
Epoch [
          56/
               250]
                    d loss: 0.1363
                                        g_loss: 5.3548
Epoch [
          56/
               250]
                      d loss: 0.1047
                                        g loss: 3.7030
Epoch [
          56/
               250]
                    d loss: 0.1532
                                        g_loss: 6.6112
Epoch [
          56/
               250] | d loss: 0.0763
                                        g_loss: 5.9698
                      d_loss: 0.2043
                                        g_loss: 4.3248
Epoch [
          56/
               250] |
Epoch [
          56/
               250]
                      d loss: 0.1234
                                        g loss: 6.5671
                    1
Epoch [
          56/
               250]
                    d loss: 0.1221
                                        g loss: 7.2990
               250]
                    d loss: 0.0097
                                        g_loss: 7.2953
Epoch [
          56/
Epoch [
          56/
               250]
                    | d_loss: 0.3709
                                        g_loss: 4.5691
                    d_loss: 0.0367
                                        g_loss: 6.4384
Epoch [
          56/
               250]
          56/
               250] | d loss: 0.0894
                                        g loss: 5.3149
Epoch [
Epoch [
          56/
               250] | d loss: 0.0571
                                        g loss: 5.7949
Epoch [
                      d loss: 0.0326
          56/
               250]
                    1
                                        g loss: 6.8713
Epoch [
          56/
               250]
                    | d_loss: 0.1118 |
                                        g_loss: 4.8867
Epoch [
          56/
               250]
                    d loss: 0.0902
                                        g loss: 5.8760
                      d_loss: 0.0575
                                        g_loss: 7.1387
Epoch [
          56/
               250]
Epoch [
          56/
               250]
                    d loss: 0.2676
                                        g loss: 5.6986
Epoch [
          56/
               250]
                    | d loss: 0.1938
                                        g loss: 5.3525
Epoch [
          56/
               250] | d loss: 0.5056
                                        g_loss: 7.5878
                      d_loss: 0.0691
                                        g_loss: 6.1108
Epoch [
          56/
               250]
                    d_loss: 0.0566
                                        g_loss: 5.9909
Epoch [
          56/
               250]
Epoch [
          56/
               250]
                    d loss: 0.1469
                                        g loss: 6.9191
Epoch [
          56/
               250]
                    d loss: 0.2270
                                        g_loss: 4.9774
                                        g loss: 7.0884
Epoch [
          56/
               250]
                    | d loss: 0.0601
Epoch [
          56/
               250]
                    d_loss: 0.2243
                                        g_loss: 3.7710
Epoch [
          56/
               250] | d loss: 0.1019
                                        g_loss: 6.7516
                      d_loss: 0.7949
                                        g_loss: 5.5695
Epoch [
          56/
               250] |
Epoch [
          57/
               250]
                      d loss: 0.2682
                                        g loss: 3.9423
                    Epoch [
          57/
               250]
                    d loss: 0.2064
                                        g loss: 8.4629
          57/
               250] | d loss: 0.0302
                                        g_loss: 9.7138
Epoch [
          57/
                                        g_loss: 4.9706
Epoch [
               250]
                    | d_loss: 0.0408
          57/
                    d_loss: 0.0961
                                        g_loss: 5.4905
Epoch [
               250]
          57/
               250] | d loss: 1.4306
                                        g loss: 12.9255
Epoch [
Epoch [
          57/
               250] | d loss: 0.1844
                                        g_loss: 6.2051
Epoch [
          57/
                      d loss: 0.2898
               250]
                    1
                                        g loss: 6.4842
Epoch [
          57/
               250]
                    | d_loss: 0.0760 |
                                        g_loss: 5.4139
Epoch [
          57/
               250]
                    d loss: 0.0318
                                        g_loss: 5.6452
Epoch [
          57/
               250]
                      d_loss: 0.2064
                                        g_loss: 5.2090
Epoch [
          57/
               250]
                    d loss: 0.0761
                                        g loss: 5.3102
Epoch [
          57/
               250]
                    d loss: 0.2364
                                        g loss: 3.8057
Epoch [
          57/
               250] | d loss: 0.0576
                                        g_loss: 7.4041
          57/
                      d_loss: 0.2728
                                        g_loss: 6.8277
Epoch [
               250]
                    Epoch [
          57/
               250]
                    d_loss: 0.4526
                                        g_loss: 3.3488
          57/
               250]
                    d loss: 0.0995
                                        g loss: 2.6603
Epoch [
Epoch [
          57/
               250]
                    d loss: 0.2167
                                        g_loss: 6.0026
Epoch [
          57/
               250]
                      d loss: 0.0937
                                        g loss: 7.3967
Epoch [
          57/
               250]
                    d_loss: 3.0174
                                        g_loss: 5.4466
Epoch [
          57/
               250] | d loss: 0.2324 |
                                        g loss: 6.3457
Epoch [
          57/
               250] |
                      d_loss: 0.0633
                                        g_loss: 6.1155
Epoch [
          57/
               250 | d loss: 0.1067 | g loss: 5.2391
```

```
250] | d loss: 0.0459 |
Epoch [
          57/
                                        g loss: 6.8841
                      d loss: 0.0465
Epoch [
          57/
               250]
                                         g loss: 7.0871
                                         g_loss: 8.1945
Epoch [
          57/
               250] | d_loss: 0.3105
Epoch [
          57/
               250] | d loss: 0.0581
                                         g loss: 6.4945
          57/
                      d_loss: 0.1390
                                         g_loss: 6.8844
Epoch [
               250]
Epoch [
          57/
               250]
                     d loss: 0.1763
                                         g loss: 5.9118
Epoch [
          58/
               250]
                    d loss: 0.0514
                                        g loss: 6.2293
Epoch [
          58/
               250] | d loss: 0.1467
                                         g_loss: 3.0095
Epoch [
          58/
               250]
                    d loss: 0.1904
                                         g_loss: 3.5904
                      d_loss: 0.1225
                                         g_loss: 6.3112
Epoch [
          58/
               250]
                    Epoch [
          58/
               250]
                    | d loss: 0.0699
                                         g loss: 6.5184
Epoch [
          58/
               250]
                      d loss: 0.3541
                                         g_loss: 4.8947
Epoch [
          58/
               250]
                      d loss: 0.1193
                                         g loss: 4.6370
Epoch [
          58/
               250]
                     d_loss: 0.0548
                                         g_loss: 5.7553
Epoch [
          58/
               250] | d loss: 0.0254
                                         g_loss: 6.0533
                      d_loss: 0.1487
                                         g_loss: 8.1720
Epoch [
          58/
               250]
Epoch [
          58/
               250]
                      d loss: 0.1598
                                         g loss: 4.5989
                     1
Epoch [
          58/
               250]
                    | d loss: 0.0568
                                         g loss: 5.1535
               250]
                    d loss: 0.1421
                                         g_loss: 5.7202
Epoch [
          58/
Epoch [
          58/
               250]
                     | d_loss: 0.1687
                                         g_loss: 5.5408
          58/
                     d_loss: 0.0642
                                         g_loss: 4.8942
Epoch [
               250]
Epoch [
          58/
               250] | d loss: 0.3197
                                         g loss: 5.8138
Epoch [
          58/
               250] | d loss: 0.2293
                                         g loss: 5.7366
Epoch [
                      d loss: 0.0295
          58/
               250]
                     1
                                         g loss: 5.7946
Epoch [
          58/
               250]
                    | d_loss: 0.3012
                                         g_loss: 3.4441
Epoch [
          58/
               250]
                     d loss: 0.1755
                                         g loss: 6.2885
                      d_loss: 0.0298
Epoch [
          58/
               250]
                                         g_loss: 5.9139
Epoch [
          58/
               250]
                     d loss: 0.1492
                                         g loss: 5.0477
Epoch [
          58/
               250]
                    | d loss: 0.0892
                                         g loss: 6.0059
Epoch [
          58/
               250] | d loss: 0.0294
                                         g_loss: 6.6041
                      d loss: 0.0609
                                        g_loss: 5.9057
Epoch [
          58/
               250]
                    d_loss: 0.1296
                                        g_loss: 6.9338
Epoch [
          58/
               250]
                                         g_loss: 7.7551
Epoch [
          58/
               250]
                    | d loss: 0.1338
Epoch [
          58/
               250]
                     d loss: 0.0739
                                         g_loss: 6.0466
Epoch [
          58/
               250]
                     | d loss: 0.0898
                                         g loss: 7.0156
Epoch [
          59/
               250]
                    | d_loss: 0.6166
                                         g_loss: 9.4589
Epoch [
          59/
               250] | d loss: 1.4033
                                         g loss: 2.6430
          59/
                      d_loss: 0.3086
                                         g_loss: 2.9437
Epoch [
               250] |
Epoch [
          59/
               250]
                      d loss: 0.2630
                                         g loss: 3.6393
                     1
Epoch [
          59/
               250]
                    d loss: 0.2652
                                         g loss: 3.8517
          59/
               250]
                    d loss: 0.3757
                                         g_loss: 6.9685
Epoch [
Epoch [
          59/
               250]
                     | d_loss: 0.2380
                                         g_loss: 3.5595
          59/
                     | d_loss: 0.0965
                                        g_loss: 6.6594
Epoch [
               250]
          59/
               250] | d loss: 0.6995
                                         g loss: 8.2742
Epoch [
Epoch [
          59/
               250] | d loss: 0.1058
                                         g loss: 5.0761
Epoch [
                      d loss: 0.0620
          59/
               250]
                     1
                                         g loss: 4.7945
Epoch [
          59/
               250]
                    | d_loss: 0.1038 |
                                         g_loss: 4.6107
Epoch [
          59/
               250]
                     d loss: 0.7153
                                         g loss: 9.5007
Epoch [
          59/
               250]
                      d_loss: 0.1523
                                         g_loss: 4.5180
Epoch [
          59/
               250]
                      d loss: 0.1424
                                         g loss: 5.7561
Epoch [
          59/
               250]
                    d loss: 0.0627
                                         g loss: 5.6163
Epoch [
          59/
               250] | d loss: 0.0342
                                         g_loss: 7.8630
                      d loss: 0.1918
                                         g_loss: 7.0322
Epoch [
          59/
               250]
                    d_loss: 0.4414 |
Epoch [
          59/
               250]
                    g_loss: 3.1965
          59/
               250]
                    d loss: 0.1502
                                         g loss: 5.2768
Epoch [
Epoch [
          59/
               250]
                      d loss: 0.0670
                                         g_loss: 7.1184
Epoch [
          59/
               250]
                      d loss: 0.1112
                                         g loss: 4.0474
                                        g_loss: 6.9512
Epoch [
          59/
               250]
                      d_loss: 0.0627
Epoch [
          59/
               250] |
                      d loss: 0.1896 |
                                        g loss: 3.6529
Epoch [
          59/
               250]
                      d_loss: 0.1236 |
                                        g_loss: 8.1502
Epoch [
          59/
               250] | d loss: 0.2175 | g loss: 4.3536
```

```
250] | d loss: 0.1031 |
Epoch [
          59/
                                        g loss: 5.4366
                      d loss: 0.4896
Epoch [
          59/
               250]
                                         g loss: 5.8275
Epoch [
          59/
               250]
                    | d_loss: 0.0177
                                         g_loss: 7.0020
Epoch [
          60/
               250] | d loss: 0.2088
                                         g loss: 4.5095
                      d_loss: 0.0485
                                         g_loss: 7.7052
Epoch [
          60/
               250]
Epoch [
          60/
               250]
                     d loss: 0.5123
                                         g loss: 4.2403
Epoch [
          60/
               250]
                    | d loss: 0.3983
                                         g loss: 6.2551
Epoch [
          60/
               250] | d loss: 0.0090
                                         g_loss: 5.9622
Epoch [
          60/
               250]
                    d loss: 0.3436
                                        g_loss: 4.2291
                      d_loss: 0.0970
                                         g_loss: 6.2760
Epoch [
          60/
               250]
                    g_loss: 7.3849
          60/
               250]
                    d loss: 0.0892
Epoch [
Epoch [
          60/
               250]
                      d loss: 0.0354
                                         g_loss: 7.5938
Epoch [
          60/
               250]
                      d loss: 0.1571
                                         g loss: 4.8186
Epoch [
          60/
               250]
                     d_loss: 0.0233
                                         g_loss: 6.3276
Epoch [
          60/
               250] | d loss: 0.0192
                                         g_loss: 5.6875
                      d_loss: 0.5259
                                         g_loss: 3.0008
Epoch [
          60/
               250]
Epoch [
          60/
               250]
                      d loss: 0.5025
                                         g loss: 6.5793
                     1
Epoch [
          60/
               250]
                    d loss: 0.0268
                                         g loss: 4.4918
                                        g_loss: 5.2614
                    d loss: 0.0533
Epoch [
          60/
               250]
Epoch [
          60/
               250]
                      d_loss: 0.0276
                                         g_loss: 5.9610
          60/
                     d_loss: 0.3209
                                        g_loss: 6.8897
Epoch [
               250]
Epoch [
          60/
               250] | d loss: 0.1292
                                         g loss: 6.3490
Epoch [
          60/
               250] | d loss: 0.0139
                                         g_loss: 8.3530
Epoch [
                      d loss: 0.2129
          60/
               250]
                                         g loss: 7.1320
Epoch [
          60/
               250]
                      d_loss: 0.0234 |
                                         g_loss: 4.2933
                    Epoch [
          60/
               250]
                     d loss: 0.0496
                                         g_loss: 7.7715
                      d_loss: 0.0840
Epoch [
          60/
               250]
                                         g_loss: 7.1458
Epoch [
          60/
               250]
                     d loss: 0.0774
                                         g loss: 4.7227
Epoch [
          60/
               250]
                    | d loss: 0.0555
                                         g loss: 7.3191
Epoch [
          60/
               250] | d loss: 0.0702
                                         g_loss: 6.4891
                      d_loss: 0.1461
                                        g_loss: 4.6937
Epoch [
          60/
               250]
                     1
                      d_loss: 0.1681
                                         g_loss: 5.5142
Epoch [
          60/
               250]
                    g_loss: 7.6517
Epoch [
          61/
               250]
                    | d loss: 0.0230
Epoch [
          61/
               250]
                     d loss: 0.0966
                                         g_loss: 8.9993
Epoch [
          61/
               250]
                      d loss: 0.0435
                                         g loss: 6.9194
Epoch [
          61/
               250]
                     d_loss: 0.2369
                                         g_loss: 7.5133
Epoch [
          61/
               250] | d loss: 1.1038
                                         g_loss: 5.6380
                      d_loss: 0.0828
                                         g_loss: 6.6097
Epoch [
          61/
               250]
Epoch [
          61/
               250]
                      d loss: 0.2229
                                         g loss: 7.0900
                     1
Epoch [
          61/
               250]
                    d loss: 1.6854
                                         g loss: 5.7022
          61/
                     d loss: 0.1734
                                         g_loss: 6.0572
Epoch [
               250]
Epoch [
          61/
               250]
                     | d_loss: 0.0973
                                         g_loss: 6.8387
                     d_loss: 0.0983
                                         g_loss: 4.6074
Epoch [
          61/
               250]
          61/
               250]
                    d loss: 0.0202
                                         g loss: 6.0876
Epoch [
Epoch [
          61/
               250] | d loss: 0.0328
                                         g_loss: 6.1815
Epoch [
                      d loss: 0.0748
          61/
               250]
                     1
                                         g loss: 5.7651
                                         g_loss: 6.4821
Epoch [
          61/
               250]
                    | d_loss: 0.0670 |
Epoch [
          61/
               250]
                     d loss: 0.0932
                                         g_loss: 4.8640
Epoch [
          61/
               250]
                      d_loss: 0.0871
                                         g_loss: 7.1821
Epoch [
          61/
               250]
                      d loss: 0.1368
                                         g loss: 5.3136
Epoch [
          61/
               250]
                      d loss: 0.0816
                                         g loss: 4.1226
Epoch [
               250] | d loss: 0.0216
                                         g_loss: 4.7374
          61/
                      d_loss: 0.1682
                                         g_loss: 3.5214
Epoch [
          61/
               250]
                     1
                                        g_loss: 13.6646
Epoch [
          61/
               250]
                    d_loss: 1.1067
          61/
                      d loss: 1.5028
                                         g loss: 11.4052
Epoch [
               250]
                    Epoch [
          61/
               250]
                      d loss: 0.1443
                                         g_loss: 8.4153
Epoch [
          61/
               250]
                      d loss: 0.0568
                                         g loss: 6.6732
Epoch [
          61/
               250]
                      d_loss: 0.0865
                                        g_loss: 5.1030
Epoch [
          61/
               250]
                      d loss: 0.1193
                                        g_loss: 4.7235
Epoch [
          61/
               250]
                      d_loss: 0.1376 |
                                        g_loss: 6.8725
Epoch [
               250] | d loss: 0.0708 | g loss: 6.1041
```

```
250] | d loss: 0.1732 |
Epoch [
          62/
                                        g loss: 4.3315
                      d loss: 0.7665
Epoch [
          62/
               250]
                                         g loss: 10.4907
                                        g_loss: 5.6360
Epoch [
          62/
               250]
                    | d_loss: 0.2059
Epoch [
          62/
               250] | d loss: 0.0755
                                         g loss: 5.4274
Epoch [
          62/
               250]
                      d_loss: 0.2304
                                         g_loss: 5.8759
Epoch [
          62/
               250]
                     d loss: 0.0268
                                         g loss: 6.0603
Epoch [
          62/
               250]
                    d loss: 0.5907
                                        g loss: 4.7092
Epoch [
          62/
               250] | d loss: 0.1381
                                         g_loss: 5.4299
Epoch [
          62/
               250]
                     1
                      d_loss: 0.1248
                                        g_loss: 5.8985
                      d_loss: 0.1281
                                         g_loss: 6.0444
Epoch [
          62/
               250]
                    62/
               250]
                    d loss: 0.1206
                                         g loss: 7.9809
Epoch [
Epoch [
          62/
               250]
                      d loss: 0.0599
                                         g_loss: 5.5681
Epoch [
          62/
               250]
                      d loss: 0.1760
                                         g loss: 7.1638
Epoch [
          62/
               250]
                      d_loss: 0.1568
                                         g_loss: 4.9763
Epoch [
          62/
               250] | d loss: 0.0802
                                         g_loss: 6.1265
                      d_loss: 0.0889
                                         g_loss: 4.7565
Epoch [
          62/
               250]
Epoch [
          62/
               250]
                      d loss: 0.0949
                                         g loss: 5.8528
                     1
Epoch [
          62/
               250]
                    d loss: 0.2154
                                         g loss: 4.0290
          62/
                     d loss: 0.0970
                                         g_loss: 6.2328
Epoch [
               250]
Epoch [
          62/
               250]
                      d_loss: 0.0619
                                         g_loss: 3.9704
                     d_loss: 0.0588
                                         g_loss: 5.3292
Epoch [
          62/
               250]
          62/
               250]
                    d loss: 0.0876
                                         g loss: 5.7770
Epoch [
Epoch [
          62/
               250] | d loss: 0.1507
                                         g_loss: 5.4094
                      d loss: 0.0408
Epoch [
          62/
               250]
                                         g loss: 6.1647
                                        g_loss: 6.0258
Epoch [
          62/
               250]
                    | d_loss: 0.0220 |
Epoch [
          62/
               250]
                     d loss: 0.3192
                                         g_loss: 5.7396
Epoch [
          62/
               250]
                      d_loss: 0.1348
                                         g_loss: 5.7123
Epoch [
          62/
               250]
                      d loss: 0.0604
                                         g loss: 6.1878
Epoch [
          62/
               250]
                    | d loss: 0.1475
                                         g loss: 8.4949
               250] | d_loss: 0.2098
Epoch [
          63/
                                         g_loss: 7.7659
                      d_loss: 0.1277
                                         g_loss: 6.8849
Epoch [
          63/
               250]
                     1
                      d_loss: 0.0781
                                         g_loss: 7.8969
Epoch [
          63/
               250]
                    Epoch [
          63/
               250]
                    d loss: 0.0222
                                         g loss: 3.4287
Epoch [
          63/
               250]
                     d loss: 0.0255
                                         g_loss: 4.2055
                                         g loss: 7.3471
Epoch [
          63/
               250]
                      d loss: 0.1163
Epoch [
          63/
               250]
                     d_loss: 0.2113
                                         g_loss: 3.8340
Epoch [
          63/
               250] | d loss: 0.4311
                                         g_loss: 3.0831
                      d_loss: 0.0897
                                         g_loss: 5.2073
Epoch [
          63/
               250]
Epoch [
          63/
               250]
                      d loss: 0.3792
                                         g loss: 5.4837
                     1
          63/
               250]
                    d loss: 0.3347
                                         g loss: 2.4131
Epoch [
                                        g_loss: 5.8066
                    d loss: 0.0688
Epoch [
          63/
               250]
Epoch [
          63/
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                     | d_loss: 0.2871
                                         g_loss: 3.4061
                     | d_loss: 0.0566
                                         g_loss: 7.5326
Epoch [
          63/
               250]
          63/
               250]
                    d loss: 0.0574
                                         g loss: 6.1199
Epoch [
Epoch [
          63/
               250] | d loss: 0.0785
                                         g_loss: 5.3580
Epoch [
                      d loss: 0.0437
          63/
               250]
                     1
                                         g loss: 4.8528
Epoch [
          63/
               250]
                    | d_loss: 0.3713 |
                                         g_loss: 3.7116
Epoch [
          63/
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                     d loss: 0.2127
                                         g_loss: 2.6268
Epoch [
          63/
               250]
                      d_loss: 0.0510
                                         g_loss: 5.5300
Epoch [
          63/
               250]
                      d loss: 1.0218
                                         g loss: 3.1523
Epoch [
          63/
               250]
                      d loss: 0.0607
                                         g loss: 5.7660
Epoch [
          63/
               250] | d loss: 0.0242
                                         g_loss: 5.6372
                      d_loss: 0.1961
Epoch [
          63/
               250]
                     1
                                         g_loss: 6.0189
Epoch [
          63/
               250]
                    d_loss: 0.2197
                                        g_loss: 5.9439
          63/
                      d loss: 0.5202
                                         g loss: 8.2083
Epoch [
               250]
                    Epoch [
          63/
               250]
                      d loss: 1.2521
                                         g_loss: 8.0443
Epoch [
          63/
               250]
                      d loss: 1.1208
                                         g loss: 12.3089
                                        g_loss: 4.5545
Epoch [
          63/
               250]
                      d_loss: 0.0355
Epoch [
          64/
               250]
                      d loss: 0.0224
                                        g_loss: 5.7348
Epoch [
          64/
               250]
                      d_loss: 0.3627 |
                                        g_loss: 5.5614
Epoch [
               250] | d loss: 0.1149 | g loss: 5.1256
```

```
250] | d loss: 0.0252 |
Epoch [
          64/
                                        g loss: 5.1611
                      d loss: 0.2718
Epoch [
          64/
               250]
                                         g loss: 4.4153
Epoch [
          64/
               250]
                    | d_loss: 0.1084 |
                                         g_loss: 5.3794
Epoch [
          64/
               250] | d loss: 0.1077
                                         g loss: 5.8305
Epoch [
          64/
               250]
                      d_loss: 0.1673
                                         g_loss: 3.3999
Epoch [
          64/
               250]
                     d loss: 0.0659
                                         g loss: 7.8677
Epoch [
          64/
               250]
                    d loss: 0.1272
                                         g loss: 5.5735
Epoch [
          64/
               250] | d loss: 0.0430
                                         g_loss: 4.6317
Epoch [
          64/
               250]
                    d_loss: 0.1045
                                        g_loss: 5.0627
          64/
                      d_loss: 0.0269
                                         g_loss: 4.5749
Epoch [
               250]
                    64/
               250]
                    | d loss: 0.0360
                                         g loss: 6.6748
Epoch [
Epoch [
          64/
               250]
                      d loss: 0.0710
                                         g_loss: 6.3047
Epoch [
          64/
               250]
                      d loss: 0.2162
                                         g loss: 5.2386
Epoch [
          64/
               250]
                     d_loss: 0.0462
                                         g_loss: 6.1343
Epoch [
          64/
               250] | d loss: 0.0676
                                         g_loss: 5.4843
                      d_loss: 0.0494
                                         g_loss: 4.4386
Epoch [
          64/
               250]
Epoch [
          64/
               250]
                      d loss: 0.1808
                                         g loss: 5.2507
                     1
Epoch [
          64/
               250]
                    d loss: 0.1439
                                         g loss: 8.6302
          64/
               250]
                     d loss: 0.0444
                                         g_loss: 4.2544
Epoch [
Epoch [
          64/
               250]
                      d_loss: 0.1178
                                         g_loss: 6.6587
          64/
                     d_loss: 0.5570
                                         g_loss: 3.5487
Epoch [
               250]
Epoch [
          64/
               250]
                    d loss: 0.2020
                                         g loss: 3.1712
Epoch [
          64/
               250] | d loss: 0.2300
                                         g_loss: 4.6517
Epoch [
                      d loss: 0.0126
                                         g loss: 5.5369
          64/
               250]
                                        g_loss: 4.9186
Epoch [
          64/
               250]
                    d_loss: 0.2378
Epoch [
          64/
               250]
                     d loss: 0.0504
                                         g loss: 6.3982
                      d_loss: 0.0453
Epoch [
          65/
               250]
                                         g_loss: 6.5197
Epoch [
          65/
               250]
                     d loss: 0.3675
                                         g loss: 8.8625
Epoch [
          65/
               250]
                    d loss: 0.0791
                                         g loss: 6.9392
Epoch [
          65/
               250] | d loss: 0.1750
                                         g_loss: 5.0493
                                        g_loss: 5.8740
                      d_loss: 0.1532
Epoch [
          65/
               250]
                     1
                    | d_loss: 0.1062 |
                                         g_loss: 5.6070
Epoch [
          65/
               250]
Epoch [
          65/
               250]
                    d loss: 0.0462
                                         g loss: 6.2680
Epoch [
          65/
               250]
                     d loss: 0.0697
                                         g_loss: 6.2225
Epoch [
          65/
               250]
                     | d loss: 0.0426
                                         g loss: 6.1728
                                        g_loss: 6.5187
Epoch [
          65/
               250]
                     d_loss: 0.0976
Epoch [
          65/
               250] | d loss: 0.2807
                                         g_loss: 8.4132
                      d_loss: 0.0256
                                         g_loss: 9.1062
Epoch [
          65/
               250]
Epoch [
          65/
               250]
                      d loss: 0.0100
                                         g loss: 5.4769
                     1
Epoch [
          65/
               250]
                    d loss: 0.1439
                                         g loss: 5.7741
          65/
                    d loss: 0.1099
                                         g_loss: 6.7719
Epoch [
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Epoch [
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               250]
                     | d_loss: 0.2528
                                         g_loss: 3.9142
                     | d_loss: 0.1776
                                         g_loss: 4.3982
Epoch [
          65/
               250]
          65/
               250]
                    d loss: 0.0793
                                         g loss: 5.7475
Epoch [
Epoch [
          65/
               250] | d loss: 0.0485
                                         g loss: 6.5335
Epoch [
          65/
                      d loss: 0.1242
               250]
                     1
                                         g loss: 5.0007
Epoch [
          65/
               250]
                    | d_loss: 0.0049
                                         g_loss: 7.1704
Epoch [
          65/
               250]
                     d loss: 0.6333
                                         g_loss: 2.3861
Epoch [
          65/
               250]
                      d_loss: 0.1450
                                         g_loss: 7.8578
Epoch [
          65/
               250]
                      d loss: 0.3138
                                         g loss: 7.1365
Epoch [
          65/
               250]
                      d loss: 0.0755
                                         g loss: 4.9036
Epoch [
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               250] | d loss: 0.0473
                                         g_loss: 7.5894
                      d loss: 0.2977
Epoch [
          65/
               250]
                     1
                                         g_loss: 4.3166
Epoch [
          65/
               250]
                    d_loss: 0.0654
                                         g_loss: 4.5670
                                         g_loss: 7.4301
          65/
                    d loss: 0.0588
Epoch [
               250]
Epoch [
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               250]
                      d loss: 0.0136
                                         g_loss: 3.9331
Epoch [
          66/
               250]
                      d loss: 0.0323
                                         g loss: 5.5368
                      d_loss: 0.0186
Epoch [
          66/
               250]
                                        g_loss: 6.2629
Epoch [
          66/
               250] |
                      d loss: 0.1740
                                        g_loss: 6.4601
Epoch [
          66/
               250]
                      d_loss: 0.0516 |
                                        g_loss: 4.9439
Epoch [
               250] | d loss: 0.1808 | g loss: 2.5150
```

```
250] | d loss: 0.0948 |
Epoch [
          66/
                                        g loss: 6.0423
                      d loss: 0.0476
Epoch [
          66/
               250]
                                        g loss: 5.3113
                                        g_loss: 6.7498
Epoch [
          66/
               250]
                    d_loss: 0.3034
Epoch [
          66/
               250] | d loss: 0.0951
                                        g loss: 5.2442
                                        g_loss: 4.7306
Epoch [
          66/
               250]
                      d_loss: 0.1775
Epoch [
          66/
               250]
                    d loss: 0.1804
                                        g loss: 7.8942
Epoch [
          66/
               250]
                    d loss: 0.0134
                                        g loss: 6.1573
Epoch [
          66/
               250] | d loss: 0.3320
                                        g_loss: 7.8169
Epoch [
          66/
               250]
                    d_loss: 0.3199
                                        g_loss: 2.8722
                      d_loss: 0.2193 |
                                        g_loss: 5.2548
Epoch [
          66/
               250]
                    66/
               250]
                      d loss: 0.1011
                                        g loss: 5.5923
Epoch [
Epoch [
          66/
               250]
                      d loss: 0.0307
                                        g_loss: 4.2408
Epoch [
          66/
               250]
                      d loss: 0.1633
                                        g loss: 6.3691
Epoch [
          66/
               250]
                      d_loss: 0.0348
                                        g_loss: 6.7458
Epoch [
          66/
               250] | d loss: 1.9239
                                        g_loss: 3.5351
                      d_loss: 0.0539
                                        g_loss: 8.4050
Epoch [
          66/
               250]
Epoch [
          66/
               250]
                      d loss: 0.1859
                                        g loss: 7.1076
                    1
Epoch [
          66/
               250]
                    d loss: 0.3576
                                        g loss: 7.8016
                    d loss: 0.0273
                                        g_loss: 5.3004
Epoch [
          66/
               250]
                                        g_loss: 4.4695
Epoch [
          66/
               250]
                      d_loss: 0.1846
                    d_loss: 0.0890
                                        g_loss: 8.9583
Epoch [
          66/
               250]
Epoch [
          66/
               250] | d loss: 0.0148
                                        g loss: 4.1488
Epoch [
          66/
               250] | d loss: 0.0880
                                        g loss: 6.5941
                      d loss: 1.7520
                                        g loss: 9.3119
Epoch [
          67/
               250]
Epoch [
          67/
               250]
                    | d_loss: 0.5185
                                        g_loss: 6.4341
Epoch [
          67/
               250]
                    d loss: 0.8695
                                        g loss: 11.5031
                      d_loss: 0.2355
Epoch [
          67/
               250]
                                        g_loss: 7.4327
Epoch [
          67/
               250]
                    d loss: 0.0814
                                        g loss: 6.6498
Epoch [
          67/
               250]
                    | d loss: 0.3160
                                        g loss: 4.9567
Epoch [
          67/
               250] | d loss: 0.0187
                                        g_loss: 7.5658
                      d_loss: 0.0289
                                        g_loss: 4.6015
Epoch [
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                    d_loss: 0.0023
                                        g_loss: 6.2082
Epoch [
          67/
               250]
Epoch [
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               250]
                    | d loss: 0.1088
                                        g loss: 5.6984
Epoch [
          67/
               250]
                    d loss: 0.1384
                                        g_loss: 4.6178
Epoch [
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                    | d loss: 0.0042
                                        g loss: 5.0640
                    | d_loss: 0.1378
Epoch [
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                                        g_loss: 4.3977
Epoch [
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                                        g_loss: 3.4211
                      d_loss: 0.0228
                                        g_loss: 5.1298
Epoch [
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Epoch [
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                                        g loss: 5.1388
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Epoch [
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                    d loss: 0.0536
                                        g loss: 5.9880
          67/
                    d loss: 0.0329
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Epoch [
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Epoch [
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                    d_loss: 0.1221
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                                        g_loss: 4.6043
Epoch [
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          67/
               250]
                    d loss: 3.8198
                                        g loss: 14.8710
Epoch [
Epoch [
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                                        g loss: 4.4941
Epoch [
          67/
                      d loss: 0.1224
                                        g loss: 4.6943
               250]
                    1
Epoch [
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                    | d_loss: 0.0124
                                        g_loss: 6.2029
Epoch [
          67/
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                    d loss: 0.0884
                                        g_loss: 6.7376
Epoch [
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                                        g_loss: 6.6095
Epoch [
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                      d loss: 0.0404
                                        g loss: 6.8671
Epoch [
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               250]
                      d loss: 0.1807
                                        g loss: 7.5967
Epoch [
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                                        g_loss: 6.3503
                      d_loss: 3.3472
Epoch [
          68/
               250]
                    1
                                        g_loss: 13.5219
Epoch [
          68/
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                    d_loss: 0.0470
                                        g_loss: 4.9363
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                      d loss: 0.1375
                                        g loss: 2.9690
Epoch [
                    Epoch [
          68/
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                      d loss: 0.1339
                                        g_loss: 4.8952
Epoch [
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                      d loss: 0.1319
                                        g loss: 4.7897
                      d_loss: 0.0953
                                        g_loss: 4.8705
Epoch [
          68/
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Epoch [
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                      d loss: 0.6469
                                        g_loss: 4.7629
Epoch [
          68/
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                      d_loss: 0.1820 |
                                        g_loss: 5.0345
Epoch [
               250] | d loss: 0.0603 | g loss: 4.7057
```

```
250] | d loss: 0.0086 |
Epoch [
          68/
                                        g loss: 6.3463
                      d loss: 0.0501
Epoch [
          68/
               250]
                                         g loss: 5.1420
                                         g_loss: 5.1176
Epoch [
          68/
               250]
                    | d_loss: 0.0668
Epoch [
          68/
               250] | d loss: 0.1912
                                         g loss: 6.8796
                      d_loss: 0.3947
Epoch [
          68/
               250]
                                         g_loss: 6.4438
Epoch [
          68/
               250]
                     d loss: 0.1110
                                         g loss: 5.7638
Epoch [
          68/
               250]
                    | d loss: 0.0768
                                         g loss: 5.0088
Epoch [
          68/
               250] | d loss: 0.1469
                                         g_loss: 6.7237
Epoch [
          68/
               250]
                    d_loss: 0.1128
                                         g_loss: 6.9038
                      d_loss: 0.1833
                                         g_loss: 6.0538
Epoch [
          68/
               250]
                    68/
               250]
                      d loss: 0.0455
                                         g loss: 6.3922
Epoch [
                    Epoch [
          68/
               250]
                      d loss: 0.4486
                                         g_loss: 4.2939
Epoch [
          68/
               250]
                      d loss: 0.0441
                                         g loss: 7.5057
Epoch [
          68/
               250]
                     d loss: 0.1526
                                         g_loss: 5.2585
Epoch [
          68/
               250] | d loss: 0.0439
                                         g_loss: 7.3007
                      d_loss: 0.0589
                                         g_loss: 4.0546
Epoch [
          68/
               250]
Epoch [
          68/
               250]
                      d loss: 0.0822
                                         g loss: 7.8044
                     1
Epoch [
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               250]
                    d loss: 0.0217
                                         g loss: 6.5519
               250]
                    | d loss: 0.0176
                                         g_loss: 6.4961
Epoch [
          68/
Epoch [
          68/
               250]
                     d_loss: 0.0924
                                         g_loss: 7.0483
          69/
                     | d_loss: 0.0801
                                         g_loss: 4.7758
Epoch [
               250]
Epoch [
          69/
               250] | d loss: 0.0742
                                         g loss: 6.2857
Epoch [
          69/
               250] | d loss: 0.0475
                                         g_loss: 6.0213
Epoch [
                      d loss: 2.6125
                                         g loss: 13.0130
          69/
               250]
                                        g_loss: 2.7589
Epoch [
          69/
               250]
                      d_loss: 0.7518 |
                    Epoch [
          69/
               250]
                     d loss: 0.1662
                                         g_loss: 3.7846
                      d_loss: 0.2472
Epoch [
          69/
               250]
                                         g_loss: 5.2832
Epoch [
          69/
               250]
                      d loss: 0.0227
                                         g loss: 6.4262
Epoch [
          69/
               250]
                    | d loss: 0.0595
                                         g loss: 9.2793
Epoch [
          69/
               250] | d loss: 0.0121
                                         g_loss: 6.0550
                      d_loss: 1.2540
                                         g_loss: 11.4979
Epoch [
          69/
               250]
                     1
          69/
                      d_loss: 0.2429
                                         g_loss: 8.0817
Epoch [
               250]
                    Epoch [
          69/
               250]
                    d loss: 0.0448
                                         g loss: 6.2770
Epoch [
          69/
               250]
                      d loss: 0.1345
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Epoch [
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                                         g loss: 4.5023
Epoch [
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               250]
                     d loss: 0.0543
                                         g_loss: 7.0005
Epoch [
          69/
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                                         g_loss: 7.4783
                      d_loss: 0.0990
                                         g_loss: 4.1047
Epoch [
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               250]
Epoch [
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                      d loss: 0.0159
                                         g loss: 5.1729
                     1
Epoch [
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                    d loss: 0.0132
                                         g loss: 7.9548
                                        g_loss: 5.7566
          69/
                    | d loss: 0.1977
Epoch [
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Epoch [
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                     | d_loss: 0.0053
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          69/
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                                        g_loss: 8.3195
Epoch [
               250]
          69/
               250]
                    d loss: 0.0752
                                         g loss: 4.7900
Epoch [
Epoch [
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                                         g loss: 9.3105
Epoch [
                      d loss: 0.4875
                                         g loss: 2.2915
          69/
               250]
                     1
Epoch [
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               250]
                    | d_loss: 0.3594
                                         g_loss: 9.0220
Epoch [
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                     d loss: 0.1922
                                         g loss: 4.7983
Epoch [
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               250]
                      d_loss: 0.7767
                                         g_loss: 7.4893
Epoch [
          70/
               250]
                      d loss: 1.1064
                                         g loss: 5.9716
Epoch [
          70/
               250]
                      d loss: 0.0665
                                         g loss: 4.6936
Epoch [
          70/
               250] | d loss: 0.1266
                                         g_loss: 6.2480
          70/
                      d_loss: 0.0485
                                        g_loss: 4.9615
Epoch [
               250]
                     1
Epoch [
          70/
               250]
                    d_loss: 0.0328
                                         g_loss: 5.9529
          70/
               250]
                    d loss: 0.2125
                                         g loss: 7.9567
Epoch [
Epoch [
          70/
               250]
                      d loss: 0.0961
                                         g_loss: 5.8179
          70/
Epoch [
               250]
                      d loss: 0.1143
                                         g loss: 5.2362
                      d_loss: 0.0281
                                        g_loss: 6.2831
Epoch [
          70/
               250]
Epoch [
          70/
               250] |
                      d loss: 0.1986
                                        g_loss: 5.7440
Epoch [
          70/
               250]
                      d_loss: 0.1114 |
                                        g_loss: 7.9043
Epoch [
               250] | d loss: 0.0201 | g loss: 7.8200
```

```
250] | d loss: 0.1978 |
Epoch [
          70/
                                        g loss: 3.0797
          70/
                      d loss: 0.0796
Epoch [
               250]
                                         g loss: 4.6812
Epoch [
          70/
               250]
                    d_loss: 0.1797
                                         g_loss: 5.2236
Epoch [
          70/
               250] | d loss: 0.0421
                                         g loss: 6.0933
          70/
Epoch [
               250]
                      d_loss: 0.7151
                                         g_loss: 10.7500
Epoch [
          70/
               250]
                     d loss: 0.0240
                                         g loss: 6.0550
Epoch [
          70/
               250]
                    | d loss: 0.0770
                                        g loss: 4.3210
Epoch [
          70/
               250] | d loss: 0.1193
                                         g_loss: 6.9721
Epoch [
          70/
               250]
                     1
                      d loss: 0.0479
                                         g_loss: 6.0680
          70/
                      d_loss: 0.1761
                                         g_loss: 5.7309
Epoch [
               250]
                    Epoch [
          70/
               250]
                      d loss: 0.1195
                                         g loss: 5.8233
Epoch [
          70/
               250]
                      d loss: 0.0359
                                         g_loss: 7.3390
Epoch [
          70/
               250]
                      d loss: 0.2406
                                         g loss: 4.0425
Epoch [
          70/
               250]
                     d_loss: 0.0261
                                         g_loss: 11.2092
Epoch [
          70/
               250] | d loss: 0.2222
                                         g_loss: 6.6781
          70/
                      d_loss: 0.2423
                                         g_loss: 6.9948
Epoch [
               250]
Epoch [
          70/
               250]
                      d loss: 0.0235
                                         g loss: 5.7056
                     1
Epoch [
          71/
               250]
                    d loss: 0.3052
                                         g loss: 8.4651
          71/
                     d loss: 0.0785
                                         g_loss: 6.0465
Epoch [
               250]
          71/
Epoch [
               250]
                      d_loss: 0.0774
                                         g_loss: 5.7287
          71/
                     | d_loss: 0.0336
                                         g_loss: 5.0640
Epoch [
               250]
          71/
               250]
                    d loss: 0.0674
                                         g loss: 8.6879
Epoch [
Epoch [
          71/
               250] | d loss: 0.0893
                                         g loss: 6.9693
Epoch [
          71/
                      d loss: 0.1783
               250]
                                         g loss: 7.1542
Epoch [
          71/
               250]
                    | d_loss: 0.1650 |
                                         g_loss: 4.5890
Epoch [
          71/
               250]
                     d loss: 0.0742
                                         g_loss: 7.2134
          71/
                      d_loss: 0.0800
Epoch [
               250]
                                         g_loss: 5.9383
Epoch [
          71/
               250]
                      d loss: 0.1671
                                         g loss: 6.6368
Epoch [
          71/
               250]
                    d loss: 0.1463
                                         g loss: 6.0236
Epoch [
          71/
               250] | d loss: 0.0310
                                         g_loss: 7.5889
          71/
                      d_loss: 0.0876
                                         g_loss: 7.4477
Epoch [
               250]
                     1
                      d_loss: 0.0474
                                         g_loss: 6.0350
Epoch [
          71/
               250]
                    Epoch [
          71/
               250]
                    d loss: 0.0482
                                         g loss: 6.4731
Epoch [
          71/
               250]
                     d loss: 0.0603
                                         g_loss: 5.6241
          71/
Epoch [
               250]
                      d loss: 0.0643
                                         g loss: 5.5449
Epoch [
          71/
               250]
                     d_loss: 0.1603
                                         g_loss: 3.8414
Epoch [
          71/
               250]
                    | d loss: 0.0526
                                         g_loss: 4.0282
          71/
                      d_loss: 0.0186
                                         g_loss: 7.8248
Epoch [
               250]
Epoch [
          71/
               250]
                      d loss: 0.2338
                                         g loss: 4.8093
                     1
Epoch [
          71/
               250]
                    | d loss: 0.0810
                                         g loss: 6.3450
          71/
               250]
                     d loss: 0.0291
Epoch [
                                         g_loss: 5.3762
          71/
Epoch [
               250]
                     d loss: 0.0914
                                         g_loss: 6.1500
          71/
                     | d_loss: 0.0945
                                         g_loss: 7.9586
Epoch [
               250]
          71/
               250]
                    | d loss: 0.0644
                                         g loss: 4.9692
Epoch [
Epoch [
          71/
               250] | d loss: 0.0035
                                         g loss: 6.3378
Epoch [
          71/
                      d loss: 0.0777
               250]
                     1
                                         g loss: 5.7357
                                         g_loss: 10.6977
Epoch [
          72/
               250]
                    d_loss: 2.5039
Epoch [
          72/
               250]
                     d loss: 0.0460
                                         g loss: 7.8438
Epoch [
          72/
               250]
                      d_loss: 0.6222
                                         g_loss: 7.5750
Epoch [
          72/
               250]
                      d loss: 0.1333
                                         g loss: 3.6397
Epoch [
          72/
               250]
                      d loss: 0.0307
                                         g loss: 5.9042
Epoch [
          72/
               250] | d loss: 0.3586
                                         g_loss: 3.2264
          72/
                      d_loss: 0.2183
                                         g_loss: 5.3176
Epoch [
               250]
                     1
Epoch [
          72/
               250]
                    d_loss: 0.1379
                                        g_loss: 6.1596
          72/
               250]
                      d loss: 0.1643
                                         g loss: 4.0417
Epoch [
                    Epoch [
          72/
               250]
                      d loss: 0.0273
                                         g_loss: 4.0487
          72/
Epoch [
               250]
                      d loss: 0.0693
                                         g loss: 6.5239
                      d_loss: 0.1093
                                        g_loss: 4.5618
Epoch [
          72/
               250]
Epoch [
          72/
               250] |
                      d loss: 0.1920
                                        g loss: 4.7112
Epoch [
          72/
               250]
                      d_loss: 0.0316 |
                                        g_loss: 4.8861
Epoch [
               250] | d loss: 0.1233 | g loss: 10.4403
```

```
250] | d loss: 0.1644 |
Epoch [
          72/
                                        g loss: 6.1823
          72/
                      d loss: 0.0417
Epoch [
               250]
                                        g loss: 6.9399
                                        g_loss: 9.4389
Epoch [
          72/
               250]
                    d_loss: 0.7510
Epoch [
          72/
               250] | d loss: 0.0772
                                        g loss: 8.4963
          72/
                      d_loss: 0.0094
Epoch [
               250]
                                        g_loss: 7.5543
Epoch [
          72/
               250]
                    d loss: 0.0554
                                        g loss: 7.0727
Epoch [
          72/
               250]
                    d loss: 0.1719
                                        g loss: 6.2733
Epoch [
          72/
               250] | d loss: 0.1571
                                        g_loss: 4.8060
Epoch [
          72/
               250]
                    1
                      d_loss: 0.0804
                                        g_loss: 7.2134
          72/
                      d_loss: 0.0654
                                        g_loss: 4.6406
Epoch [
               250]
                    Epoch [
          72/
               250]
                    d loss: 0.0192
                                        g loss: 6.7466
Epoch [
          72/
               250]
                      d loss: 0.0848
                                        g_loss: 5.3460
Epoch [
          72/
               250]
                      d loss: 0.1571
                                        g loss: 7.6902
Epoch [
          72/
               250]
                      d_loss: 0.0476
                                        g_loss: 6.4848
Epoch [
          73/
               250] | d loss: 0.0635
                                        g_loss: 5.7294
          73/
                      d_loss: 0.0250
                                        g_loss: 6.6724
Epoch [
               250]
Epoch [
          73/
               250]
                      d loss: 0.7327
                                        g loss: 8.9004
                    1
Epoch [
          73/
               250]
                    d loss: 0.1489
                                        g loss: 7.4730
          73/
                    d loss: 0.0628
                                        g_loss: 7.3893
Epoch [
               250]
          73/
Epoch [
               250]
                      d_loss: 0.2063
                                        g_loss: 6.4387
          73/
                    d_loss: 0.0239
                                        g_loss: 4.1713
Epoch [
               250]
Epoch [
          73/
               250]
                    d loss: 0.0708
                                        g loss: 5.8257
Epoch [
          73/
               250] | d loss: 0.1022
                                        g_loss: 6.4881
Epoch [
          73/
                      d loss: 0.0079
               250]
                                        g loss: 8.2199
Epoch [
          73/
               250]
                    d_loss: 0.1242
                                        g_loss: 5.7024
Epoch [
          73/
               250]
                    d loss: 0.0690
                                        g_loss: 5.2692
          73/
Epoch [
               250]
                      d_loss: 0.1680
                                        g_loss: 5.2034
Epoch [
          73/
               250]
                      d loss: 0.0091
                                        g loss: 5.6029
Epoch [
          73/
               250]
                    | d loss: 0.2017
                                        g loss: 8.7061
Epoch [
          73/
               250] | d loss: 0.1305
                                        g_loss: 4.9796
          73/
                      d loss: 0.0407
                                        g_loss: 5.9920
Epoch [
               250]
          73/
                      d_loss: 0.0317
                                        g_loss: 6.9845
Epoch [
               250]
                    Epoch [
          73/
               250]
                    d loss: 0.1801
                                        g loss: 6.9395
Epoch [
          73/
               250]
                      d loss: 0.1688
                                        g_loss: 5.6740
          73/
Epoch [
               250]
                      d loss: 0.0898
                                        g loss: 7.0181
                                        g_loss: 1.6020
Epoch [
          73/
               250]
                    d_loss: 0.7350
Epoch [
          73/
               250]
                    | d loss: 0.1689
                                        g_loss: 3.9377
          73/
                      d_loss: 0.6270
                                        g_loss: 2.8464
Epoch [
               250]
Epoch [
          73/
               250]
                      d loss: 0.3113
                                        g loss: 8.6272
                    1
Epoch [
          73/
               250]
                    d loss: 0.1059
                                        g loss: 4.7462
                                        g_loss: 4.5149
          73/
                    d loss: 0.0878
Epoch [
               250]
          73/
Epoch [
               250]
                      d loss: 0.1717
                                        g_loss: 4.0167
          73/
                    | d_loss: 0.1195
                                        g_loss: 4.6286
Epoch [
               250]
          74/
               250]
                    d loss: 0.0759
                                        g loss: 3.4789
Epoch [
Epoch [
          74/
               250] | d loss: 0.5186
                                        g_loss: 10.5031
Epoch [
          74/
                      d loss: 0.0428
                                        g loss: 2.8082
               250]
                    ı
Epoch [
          74/
               250]
                    d_loss: 0.1703
                                        g_loss: 5.0721
Epoch [
          74/
               250]
                    d loss: 0.3290
                                        g_loss: 7.2189
Epoch [
          74/
               250]
                      d_loss: 0.1287
                                        g_loss: 4.8416
Epoch [
          74/
               250]
                      d loss: 0.0363
                                        g loss: 7.0217
Epoch [
          74/
               250]
                      d loss: 0.2452
                                        g loss: 6.5434
Epoch [
          74/
               250] | d loss: 0.1492
                                        g_loss: 6.1841
          74/
                      d_loss: 0.0305
Epoch [
               250]
                    1
                                        g_loss: 7.1739
Epoch [
          74/
               250]
                    d_loss: 0.0197
                                        g_loss: 7.5202
          74/
               250]
                      d loss: 0.0398
                                        g loss: 4.9857
Epoch [
                    Epoch [
          74/
               250]
                      d loss: 0.0093
                                        g_loss: 6.7586
          74/
Epoch [
               250]
                      d loss: 0.0572
                                        g loss: 3.5478
                                        g_loss: 7.2008
Epoch [
          74/
               250]
                      d_loss: 0.0433
Epoch [
          74/
               250]
                      d loss: 0.2113
                                        g_loss: 4.4393
          74/
Epoch [
               250]
                      d_loss: 0.0304 |
                                        g_loss: 7.6532
Epoch [
               250] | d loss: 0.0271 | g loss: 7.9175
```

```
250] | d loss: 0.2046 |
Epoch [
          74/
                                        g loss: 3.2527
          74/
                      d loss: 0.0742
Epoch [
               250]
                                        g loss: 5.2778
Epoch [
          74/
               250]
                    d_loss: 0.0215
                                        g_loss: 7.4381
Epoch [
          74/
               250] | d loss: 0.0291
                                        g loss: 5.7041
          74/
                      d_loss: 0.0052
Epoch [
               250]
                                        g_loss: 6.8369
Epoch [
          74/
               250]
                    d loss: 0.0930
                                        g loss: 5.9002
Epoch [
          74/
               250]
                    | d loss: 0.1590
                                        g loss: 6.6602
Epoch [
          74/
               250] | d loss: 0.0974
                                        g_loss: 3.5196
Epoch [
          74/
               250]
                    1
                      d_loss: 0.0471
                                        g_loss: 7.0969
          74/
                      d_loss: 0.0063
                                        g_loss: 7.5923
Epoch [
               250]
                    Epoch [
          74/
               250]
                    d loss: 0.0582
                                        g loss: 6.0148
Epoch [
          75/
               250]
                      d loss: 0.5626
                                        g_loss: 8.3281
Epoch [
          75/
               250]
                      d loss: 0.0193
                                        g loss: 5.4801
Epoch [
          75/
               250]
                    d loss: 0.0696
                                        g_loss: 6.5251
Epoch [
          75/
               250] | d loss: 0.0739
                                        g_loss: 6.8307
          75/
                      d_loss: 0.0682
                                        g_loss: 5.8815
Epoch [
               250]
Epoch [
          75/
               250]
                      d loss: 0.2078
                                        g loss: 8.9861
                    1
Epoch [
          75/
               250]
                    d loss: 7.3625
                                        g loss: 16.2527
          75/
               250]
                    d loss: 0.8594
                                        g_loss: 1.7005
Epoch [
          75/
Epoch [
               250]
                    | d_loss: 0.4038
                                        g_loss: 9.2086
          75/
                    d_loss: 0.0762
                                        g_loss: 5.3575
Epoch [
               250]
Epoch [
          75/
               250]
                    d loss: 0.0816
                                        g loss: 5.3675
Epoch [
          75/
               250] | d loss: 0.1501
                                        g loss: 6.3520
Epoch [
          75/
                      d loss: 0.0616
               250]
                                        g loss: 4.7962
Epoch [
          75/
               250]
                      d_loss: 0.0521
                                        g_loss: 7.7417
                    Epoch [
          75/
               250]
                    d loss: 0.0459
                                        g_loss: 6.7710
          75/
Epoch [
               250]
                      d_loss: 0.1661
                                        g_loss: 6.0386
Epoch [
          75/
               250]
                      d loss: 0.4648
                                        g loss: 5.7966
Epoch [
          75/
               250]
                    d loss: 3.2154
                                        g loss: 14.2568
Epoch [
          75/
               250] | d loss: 0.0121
                                        g_loss: 6.4047
          75/
                      d_loss: 0.4689
Epoch [
               250]
                    1
                                        g_loss: 2.1946
          75/
                      d_loss: 0.0905
                                        g_loss: 4.1160
Epoch [
               250]
                    Epoch [
          75/
               250]
                    | d loss: 0.6415
                                        g loss: 9.0360
Epoch [
          75/
               250]
                      d loss: 0.0155
                                        g_loss: 6.5850
          75/
Epoch [
               250]
                      d loss: 0.0678
                                        g loss: 5.8783
                    | d_loss: 0.0829
                                        g_loss: 6.8125
Epoch [
          75/
               250]
Epoch [
          75/
               250]
                    d loss: 0.4398
                                        g_loss: 2.5215
          75/
                      d_loss: 0.0801
                                        g_loss: 6.9208
Epoch [
               250]
Epoch [
          75/
               250]
                      d loss: 0.1566
                                        g loss: 7.0769
                    1
Epoch [
          75/
               250]
                    d loss: 0.0791
                                        g loss: 6.9757
          76/
                    d loss: 0.0183
                                        g_loss: 6.0447
Epoch [
               250]
          76/
Epoch [
               250]
                    d loss: 0.2343
                                        g_loss: 3.2146
          76/
                    d_loss: 0.3421
                                        g_loss: 5.3108
Epoch [
               250]
          76/
               250]
                    | d loss: 0.2064
                                        g loss: 4.3795
Epoch [
Epoch [
          76/
               250] | d loss: 0.0412
                                        g_loss: 3.9555
Epoch [
          76/
                      d loss: 0.0270
               250]
                    1
                                        g loss: 6.7571
                                        g_loss: 6.1543
Epoch [
          76/
               250]
                    d_loss: 0.1417
Epoch [
          76/
               250]
                    d loss: 0.1436
                                        g_loss: 4.2821
Epoch [
          76/
               250]
                      d_loss: 0.0458
                                        g_loss: 3.2105
Epoch [
          76/
               250]
                      d loss: 0.2042
                                        g loss: 7.6002
Epoch [
          76/
               250]
                      d loss: 0.2494
                                        g loss: 9.4157
Epoch [
          76/
               250] | d loss: 0.1158
                                        g_loss: 4.7384
          76/
                      d_loss: 0.0824
                                        g_loss: 7.6252
Epoch [
               250]
                    1
Epoch [
          76/
               250]
                    d_loss: 0.0148
                                        g_loss: 8.0563
          76/
               250]
                      d loss: 0.0794
                                        g loss: 4.7155
Epoch [
                    Epoch [
          76/
               250]
                      d loss: 0.1895
                                        g_loss: 9.0481
          76/
Epoch [
               250]
                      d loss: 0.0197
                                        g loss: 8.3730
                      d_loss: 0.0388
Epoch [
          76/
               250]
                                        g_loss: 7.4295
Epoch [
          76/
               250]
                      d loss: 0.0675
                                        g_loss: 8.1809
Epoch [
          76/
               250]
                      d_loss: 0.0172
                                        g_loss: 8.0654
Epoch [
               250] | d loss: 0.0334 | g loss: 6.5500
```

```
250] | d loss: 0.0586 |
Epoch [
          76/
                                        g loss: 6.0967
          76/
                      d loss: 2.3923
Epoch [
               250]
                                         g loss: 10.5832
Epoch [
          76/
               250]
                    d_loss: 0.0958
                                         g_loss: 4.8187
Epoch [
          76/
               250] | d loss: 0.0371
                                         g loss: 4.2039
          76/
                      d_loss: 0.1786
                                         g_loss: 5.0898
Epoch [
               250]
Epoch [
          76/
               250]
                      d loss: 0.0700
                                         g loss: 7.2641
Epoch [
          76/
               250]
                    d loss: 0.4914
                                        g loss: 4.4299
Epoch [
          76/
               250] | d loss: 0.1024
                                         g_loss: 5.8230
Epoch [
          77/
               250]
                     1
                      d_loss: 0.1124
                                         g_loss: 5.4960
          77/
                      d_loss: 0.0094
                                         g_loss: 7.0775
Epoch [
               250]
                    Epoch [
          77/
               250]
                    d loss: 0.1746
                                         g loss: 3.7869
Epoch [
          77/
               250]
                      d loss: 0.1160
                                         g_loss: 7.3291
Epoch [
          77/
               250]
                      d loss: 0.0095
                                         g loss: 5.2907
Epoch [
          77/
               250]
                      d loss: 0.0706
                                         g_loss: 7.2432
Epoch [
          77/
               250] | d loss: 0.0950
                                         g_loss: 5.1092
          77/
                      d_loss: 0.1088
                                         g_loss: 7.8857
Epoch [
               250]
Epoch [
          77/
               250]
                      d loss: 0.0297
                                         g loss: 6.8530
                     1
Epoch [
          77/
               250]
                    d loss: 0.1917
                                         g loss: 7.0451
Epoch [
          77/
               250]
                     d loss: 0.0695
                                         g_loss: 5.6785
          77/
Epoch [
               250]
                      d_loss: 0.0395
                                         g_loss: 5.1384
          77/
                     d_loss: 0.0681
                                         g_loss: 6.7676
Epoch [
               250]
Epoch [
          77/
               250]
                    | d loss: 0.0210
                                         g loss: 6.8765
Epoch [
          77/
               250] | d loss: 0.5566
                                         g_loss: 1.4142
Epoch [
          77/
                      d loss: 0.0045
                                         g loss: 5.4163
               250]
Epoch [
          77/
               250]
                    d_loss: 0.2526
                                         g_loss: 3.8423
Epoch [
          77/
               250]
                     d loss: 0.0425
                                         g loss: 6.6495
          77/
                      d_loss: 0.0223
Epoch [
               250]
                                         g_loss: 6.1561
Epoch [
          77/
               250]
                      d loss: 0.2912
                                         g loss: 4.1828
Epoch [
          77/
               250]
                    d loss: 0.0682
                                         g loss: 5.9805
Epoch [
          77/
               250] | d loss: 0.1027
                                         g_loss: 8.8792
          77/
                      d_loss: 0.0338
                                         g_loss: 5.0108
Epoch [
               250]
                     1
          77/
                      d_loss: 0.0269
                                         g_loss: 7.0488
Epoch [
               250]
                    Epoch [
          77/
               250]
                    d loss: 0.1012
                                         g loss: 5.8277
Epoch [
          77/
               250]
                      d loss: 0.0280
                                         g_loss: 6.4115
          77/
Epoch [
               250]
                      d loss: 0.0176
                                         g loss: 3.2840
Epoch [
          77/
               250]
                     d_loss: 0.0511
                                         g_loss: 6.7753
Epoch [
          77/
               250]
                    d loss: 0.0700
                                         g_loss: 5.8741
          78/
                      d_loss: 4.8255
                                         g_loss: 17.7371
Epoch [
               250]
Epoch [
          78/
               250]
                      d loss: 1.1228
                                         g loss: 0.6362
                     1
Epoch [
          78/
               250]
                    | d loss: 0.0375
                                         g loss: 7.5441
          78/
               250]
                     d loss: 0.0184
                                         g_loss: 4.9532
Epoch [
          78/
                      d_loss: 1.1531
Epoch [
               250]
                                         g_loss: 1.6158
          78/
                     | d_loss: 0.1383
                                         g_loss: 5.5585
Epoch [
               250]
Epoch [
          78/
               250]
                    | d loss: 0.0156
                                         g loss: 9.6244
Epoch [
          78/
               250] | d loss: 0.0233
                                         g loss: 2.9454
Epoch [
          78/
                      d loss: 0.1234
               250]
                     ı
                                         g loss: 6.1240
Epoch [
          78/
               250]
                    | d_loss: 0.2779
                                         g_loss: 4.9569
Epoch [
          78/
               250]
                     d loss: 0.0246
                                         g loss: 8.0089
Epoch [
          78/
               250]
                      d_loss: 0.0616
                                         g_loss: 7.9961
Epoch [
          78/
               250]
                      d loss: 0.0222
                                         g loss: 7.8598
Epoch [
          78/
               250]
                      d loss: 0.0054
                                         g loss: 8.3756
Epoch [
          78/
               250] | d loss: 0.4865
                                         g_loss: 2.9305
                      d_loss: 0.2806
                                         g_loss: 3.7407
Epoch [
          78/
               250]
                     1
Epoch [
          78/
               250]
                    d_loss: 0.0203
                                         g_loss: 6.9570
                                         g_loss: 8.5966
          78/
               250]
                      d loss: 0.1144
Epoch [
                    Epoch [
          78/
               250]
                      d loss: 0.2300
                                         g_loss: 6.4151
          78/
Epoch [
               250]
                      d loss: 0.3248
                                         g loss: 4.9852
                      d_loss: 0.7334
                                        g_loss: 4.8694
Epoch [
          78/
               250]
Epoch [
          78/
               250]
                      d loss: 0.0005
                                        g loss: 8.8945
Epoch [
          78/
               250]
                      d_loss: 0.2405
                                        g_loss: 9.7522
Epoch [
               250] | d loss: 0.0585 |
                                        g loss: 5.5117
```

```
250] | d loss: 0.3948 |
Epoch [
          78/
                                        g loss: 5.5826
          78/
                      d loss: 0.2050
Epoch [
               250]
                                         g loss: 5.4550
                                         g_loss: 6.7657
Epoch [
          78/
               250]
                    d_loss: 0.1172
Epoch [
          78/
               250] | d loss: 0.2150
                                         g loss: 3.1370
          78/
                      d_loss: 0.0298
Epoch [
               250]
                                         g_loss: 6.5318
Epoch [
          79/
               250]
                     d loss: 0.8565
                                         g loss: 6.2153
Epoch [
          79/
               250]
                    | d loss: 0.0319
                                         g loss: 6.5319
Epoch [
          79/
               250] | d loss: 0.0749
                                         g_loss: 5.2936
Epoch [
          79/
               250]
                    d loss: 0.2487
                                         g_loss: 5.3887
          79/
               250]
                      d_loss: 0.0115
                                         g_loss: 6.8237
Epoch [
                    Epoch [
          79/
               250]
                    d loss: 0.0972
                                         g loss: 5.8544
Epoch [
          79/
               250]
                      d loss: 0.2573
                                         g_loss: 4.5650
Epoch [
          79/
               250]
                      d loss: 0.1497
                                         g loss: 7.3688
Epoch [
          79/
               250]
                     d_loss: 0.0878
                                         g_loss: 6.7312
Epoch [
          79/
               250] | d loss: 0.0228
                                         g_loss: 6.7312
          79/
                      d_loss: 0.0258
                                         g_loss: 7.9193
Epoch [
               250]
Epoch [
          79/
               250]
                      d loss: 0.2593
                                         g loss: 6.1969
                     1
Epoch [
          79/
               250]
                    d loss: 0.1900
                                         g loss: 7.0228
Epoch [
          79/
               250]
                    d loss: 1.7503
                                         g_loss: 11.5077
          79/
Epoch [
               250]
                      d_loss: 0.1157
                                         g_loss: 9.3471
          79/
                     | d_loss: 0.1819
                                         g_loss: 3.8604
Epoch [
               250]
Epoch [
          79/
               250] | d loss: 0.1070
                                         g loss: 7.0731
Epoch [
          79/
               250] | d loss: 0.3422
                                         g_loss: 8.0466
Epoch [
          79/
               250]
                      d loss: 0.2996
                                         g loss: 3.5588
                                        g_loss: 6.5061
Epoch [
          79/
               250]
                    | d_loss: 0.0131
Epoch [
          79/
               250]
                     d loss: 0.3458
                                         g_loss: 2.9337
          79/
                      d_loss: 0.0925
Epoch [
               250]
                                         g_loss: 5.5330
Epoch [
          79/
               250]
                      d loss: 0.6676
                                         g loss: 7.4109
Epoch [
          79/
               250]
                    d loss: 0.0143
                                         g loss: 6.8674
Epoch [
          79/
               250] | d loss: 0.2134
                                         g_loss: 4.9544
                                        g_loss: 5.6855
          79/
                      d_loss: 0.0454
Epoch [
               250]
                    79/
               250]
                      d_loss: 0.0723
                                         g_loss: 5.4799
Epoch [
                    Epoch [
          79/
               250]
                    | d loss: 0.1377
                                         g loss: 5.2406
Epoch [
          79/
               250]
                      d loss: 0.0814
                                         g_loss: 6.2696
          80/
Epoch [
               250]
                      d loss: 0.0641
                                         g loss: 8.4017
Epoch [
          80/
               250]
                     | d_loss: 0.0953
                                         g_loss: 6.9859
Epoch [
          80/
               250] | d loss: 0.0976
                                         g_loss: 7.0278
                      d_loss: 0.0959
                                         g_loss: 3.7361
Epoch [
          80/
               250]
Epoch [
          80/
               250]
                      d loss: 0.0652
                                         g loss: 6.3590
                     1
Epoch [
          80/
               250]
                    d loss: 0.0850
                                         g loss: 7.4777
                                        g_loss: 5.0269
                    | d loss: 0.2157
Epoch [
          80/
               250]
Epoch [
          80/
               250]
                     d loss: 0.0206
                                         g_loss: 5.2731
          80/
                     d_loss: 0.0599
                                         g_loss: 8.4173
Epoch [
               250]
          80/
               250]
                    | d loss: 0.0099
                                         g loss: 7.2888
Epoch [
Epoch [
          80/
               250] | d loss: 0.2856
                                         g_loss: 6.2940
Epoch [
                      d loss: 0.0577
          80/
               250]
                                         g loss: 5.9140
Epoch [
          80/
               250]
                    | d_loss: 0.0113 |
                                         g_loss: 5.2635
Epoch [
          80/
               250]
                     d loss: 0.0297
                                         g_loss: 5.8660
Epoch [
          80/
               250]
                      d_loss: 0.0922
                                         g_loss: 5.9167
Epoch [
          80/
               250]
                      d loss: 0.0445
                                         g loss: 4.8327
Epoch [
          80/
               250]
                      d loss: 0.0353
                                         g loss: 6.8255
Epoch [
          80/
               250] | d loss: 0.1352
                                         g_loss: 5.8602
                      d_loss: 0.0278
                                        g_loss: 4.9751
Epoch [
          80/
               250]
                     1
Epoch [
          80/
               250]
                    d_loss: 0.1509
                                         g_loss: 7.3385
                                         g_loss: 7.6482
          80/
                      d loss: 0.0288
Epoch [
               250]
                    Epoch [
          80/
               250]
                      d loss: 0.1709
                                         g_loss: 7.7447
Epoch [
          80/
               250]
                      d loss: 0.1065
                                         g loss: 6.3156
                      d_loss: 0.5762
Epoch [
          80/
               250]
                                        g_loss: 2.0508
Epoch [
          80/
               250] |
                      d loss: 0.0328
                                        g_loss: 3.2539
Epoch [
          80/
               250]
                      d_loss: 0.0472
                                        g_loss: 5.9959
Epoch [
               250] | d loss: 0.1272 | g loss: 6.8003
```

```
250] | d loss: 0.2143 |
Epoch [
          80/
                                        g loss: 5.8778
                      d loss: 0.0182
Epoch [
          80/
               250]
                                        g loss: 8.0360
                                        g_loss: 7.0034
Epoch [
          81/
               250]
                    d_loss: 0.1211
Epoch [
          81/
               250] | d loss: 0.1127
                                        g loss: 7.1490
                      d_loss: 0.0291
Epoch [
          81/
               250]
                                        g_loss: 7.5758
Epoch [
          81/
               250]
                    d loss: 0.0735
                                        g loss: 5.7732
Epoch [
          81/
               250]
                    | d loss: 0.0263
                                        g loss: 5.1501
Epoch [
          81/
               250] | d loss: 0.0440
                                        g_loss: 8.4601
Epoch [
          81/
               250]
                    d_loss: 0.1301
                                        g_loss: 6.3323
                      d_loss: 0.4087
                                        g_loss: 2.1396
Epoch [
          81/
               250]
                    81/
               250]
                    d loss: 0.5034
                                        g loss: 5.5474
Epoch [
Epoch [
          81/
               250]
                      d loss: 0.2237
                                        g_loss: 6.6367
Epoch [
          81/
               250]
                      d loss: 0.4978
                                        g loss: 8.0671
Epoch [
          81/
               250]
                    d loss: 3.0142
                                        g_loss: 1.1432
Epoch [
          81/
               250] | d loss: 0.1427
                                        g_loss: 6.2310
                      d_loss: 0.4451
                                        g_loss: 1.4797
Epoch [
          81/
               250]
Epoch [
          81/
               250]
                      d loss: 0.0652
                                        g loss: 7.3386
                    1
Epoch [
          81/
               250]
                    | d loss: 0.1070
                                        g loss: 7.2012
          81/
                    d loss: 0.0041
                                        g_loss: 7.7647
Epoch [
               250]
Epoch [
          81/
               250]
                      d_loss: 0.0239
                                        g_loss: 7.5158
                    d_loss: 1.7388
                                        g_loss: 9.8439
Epoch [
          81/
               250]
          81/
               250] | d loss: 0.0301
                                        g loss: 4.6622
Epoch [
Epoch [
          81/
               250] | d loss: 0.0289
                                        g_loss: 7.0161
                      d loss: 0.0160
Epoch [
          81/
               250]
                                        g loss: 6.6641
Epoch [
          81/
               250]
                    d_loss: 0.0217
                                        g_loss: 6.9002
Epoch [
          81/
               250]
                    d loss: 0.0987
                                        g loss: 5.1634
                      d_loss: 0.7864
Epoch [
          81/
               250]
                                        g_loss: 10.8772
Epoch [
          81/
               250]
                      d loss: 0.0933
                                        g loss: 5.0186
Epoch [
          81/
               250]
                    d loss: 0.4305
                                        g loss: 7.0806
Epoch [
          81/
               250] | d loss: 0.4597
                                        g_loss: 5.6718
                      d loss: 0.0269
                                        g_loss: 5.1854
Epoch [
          81/
               250]
                    1
                      d_loss: 0.6694
                                        g_loss: 8.5276
Epoch [
          82/
               250]
                    Epoch [
          82/
               250]
                    d loss: 0.0412
                                        g loss: 6.4000
Epoch [
          82/
               250]
                    d loss: 0.0365
                                        g_loss: 5.5666
Epoch [
          82/
               250]
                    | d loss: 0.3057
                                        g loss: 5.2875
Epoch [
          82/
               250]
                    d loss: 0.0056
                                        g_loss: 7.8496
Epoch [
          82/
               250] | d loss: 0.0063
                                        g_loss: 6.3312
                      d_loss: 0.0220
                                        g_loss: 3.6234
Epoch [
          82/
               250]
Epoch [
          82/
               250]
                      d loss: 0.0897
                                        g loss: 4.5783
                    1
          82/
               250]
                    d loss: 0.6478
                                        g loss: 2.6649
Epoch [
                                        g_loss: 6.2194
          82/
               250]
                    d loss: 0.1685
Epoch [
Epoch [
          82/
               250]
                    d loss: 0.0714
                                        g_loss: 8.6865
                    d_loss: 0.0284
                                        g_loss: 5.8121
Epoch [
          82/
               250]
          82/
               250]
                    d loss: 0.0574
                                        g loss: 8.1874
Epoch [
Epoch [
          82/
               250] | d loss: 0.0517
                                        g_loss: 5.1789
Epoch [
          82/
                      d loss: 0.0212
               250]
                    1
                                        g loss: 5.1252
                                        g_loss: 8.0147
Epoch [
          82/
               250]
                    | d_loss: 0.1752
Epoch [
          82/
               250]
                    d loss: 0.0306
                                        g_loss: 6.7371
Epoch [
          82/
               250]
                      d_loss: 0.0670
                                        g_loss: 7.0807
Epoch [
          82/
               250]
                      d loss: 0.1246
                                        g loss: 8.2581
Epoch [
          82/
               250]
                      d loss: 0.0619
                                        g loss: 3.6632
Epoch [
          82/
               250] | d loss: 0.0226
                                        g_loss: 6.7388
                      d loss: 0.1704
Epoch [
          82/
               250]
                    1
                                        g_loss: 4.3665
Epoch [
          82/
               250]
                    d_loss: 0.0887
                                        g_loss: 4.1178
          82/
               250]
                    d loss: 0.0179
                                        g loss: 5.5021
Epoch [
Epoch [
          82/
               250]
                      d loss: 0.0192
                                        g_loss: 6.6397
Epoch [
          82/
               250]
                      d loss: 0.0634
                                        g loss: 6.5636
Epoch [
          82/
               250]
                      d_loss: 0.0543
                                        g_loss: 5.7249
Epoch [
          82/
               250] |
                      d loss: 0.2026
                                        g_loss: 6.6297
Epoch [
          82/
               250]
                      d_loss: 0.3793 |
                                        g_loss: 5.2561
Epoch [
               250] | d loss: 0.1184 | g loss: 4.6851
```

```
250] | d loss: 0.1301 |
Epoch [
          83/
                                        g loss: 5.8179
                      d loss: 0.0390
Epoch [
          83/
               250]
                                        g loss: 4.1090
                                        g_loss: 6.9753
Epoch [
          83/
               250]
                    d_loss: 0.1099
Epoch [
          83/
               250] | d loss: 0.0685
                                        g loss: 7.7545
Epoch [
          83/
               250]
                      d_loss: 0.1373
                                        g_loss: 4.3013
Epoch [
          83/
               250]
                    d loss: 0.0650
                                        g loss: 6.1797
Epoch [
          83/
               250]
                    d loss: 0.2048
                                        g loss: 4.8462
Epoch [
          83/
               250] | d loss: 0.0641
                                        g loss: 6.0052
Epoch [
          83/
               250]
                    d_loss: 0.1101
                                        g_loss: 5.0497
                      d_loss: 0.0945
                                        g_loss: 4.8134
Epoch [
          83/
               250]
                    83/
               250]
                    d loss: 0.1870
                                        g loss: 6.9953
Epoch [
Epoch [
          83/
               250]
                    d loss: 0.0284
                                        g_loss: 8.2273
Epoch [
          83/
               250]
                      d loss: 0.2804
                                        g loss: 5.7826
Epoch [
          83/
               250]
                    d loss: 0.3545
                                        g_loss: 4.2472
Epoch [
          83/
               250] | d loss: 0.0354
                                        g loss: 6.6120
                      d_loss: 0.0125
                                        g_loss: 3.2230
Epoch [
          83/
               250]
Epoch [
          83/
               250]
                      d loss: 0.0406
                                        g loss: 7.0329
                    1
Epoch [
          83/
               250]
                    d loss: 0.3454
                                        g loss: 3.5502
                    d loss: 0.2673
                                        g_loss: 9.0188
Epoch [
          83/
               250]
Epoch [
          83/
               250]
                    | d_loss: 0.0986
                                        g_loss: 6.8605
                    d_loss: 0.0521
                                        g_loss: 6.7975
Epoch [
          83/
               250]
          83/
               250] | d loss: 0.0355
                                        g loss: 5.6132
Epoch [
Epoch [
          83/
               250] | d loss: 0.0941
                                        g_loss: 7.8732
Epoch [
                      d loss: 0.1131
          83/
               250]
                                        g loss: 5.2304
Epoch [
          83/
               250]
                      d_loss: 0.0413 |
                                        g_loss: 5.0717
                    Epoch [
          83/
               250]
                    d loss: 0.2374
                                        g loss: 5.4893
                      d_loss: 0.1275
Epoch [
          83/
               250]
                                        g_loss: 6.6513
Epoch [
          83/
               250]
                      d loss: 0.0127
                                        g loss: 7.1185
Epoch [
          84/
               250]
                    d loss: 0.1196
                                        g loss: 7.3215
Epoch [
          84/
               250] | d loss: 0.0188
                                        g_loss: 6.6960
                      d loss: 0.1709
                                        g_loss: 9.8778
Epoch [
          84/
               250]
                    1
                      d_loss: 0.1032
                                        g_loss: 9.6323
Epoch [
          84/
               250]
                    Epoch [
          84/
               250]
                    d loss: 0.0349
                                        g loss: 8.1546
Epoch [
          84/
               250]
                      d loss: 0.2687
                                        g_loss: 4.3222
Epoch [
          84/
               250]
                      d loss: 0.3350
                                        g loss: 7.3060
Epoch [
          84/
               250]
                    d loss: 0.1681
                                        g_loss: 8.3011
Epoch [
          84/
               250] | d loss: 0.0273
                                        g_loss: 8.6195
                      d_loss: 0.0301
                                        g_loss: 7.2816
Epoch [
          84/
               250]
Epoch [
          84/
               250]
                      d loss: 0.0141
                                        g loss: 6.1807
                    1
Epoch [
          84/
               250]
                    d loss: 0.0177
                                        g loss: 6.1466
                                        g_loss: 2.7727
          84/
               250]
                    d loss: 0.2579
Epoch [
                    | d loss: 7.5319
Epoch [
          84/
               250]
                                        g_loss: 0.7943
          84/
                                        g_loss: 7.2463
Epoch [
               250]
                    d_loss: 0.0486
          84/
               250]
                    d loss: 0.0434
                                        g loss: 6.2405
Epoch [
Epoch [
          84/
               250] | d loss: 0.2863
                                        g_loss: 5.8767
Epoch [
                      d loss: 0.0513
          84/
               250]
                    1
                                        g loss: 4.1771
Epoch [
          84/
               250]
                    d_loss: 0.2756
                                        g_loss: 4.0650
Epoch [
          84/
               250]
                    d loss: 0.0374
                                        g_loss: 8.1036
Epoch [
          84/
               250]
                      d_loss: 0.0262
                                        g_loss: 5.4755
Epoch [
          84/
               250]
                      d loss: 0.0589
                                        g loss: 5.5533
Epoch [
          84/
               250]
                      d loss: 0.0910
                                        g loss: 7.4304
Epoch [
          84/
               250] | d loss: 0.0236
                                        g_loss: 5.8601
                      d loss: 0.1797
Epoch [
          84/
               250]
                    1
                                        g_loss: 8.3008
Epoch [
          84/
               250]
                    d_loss: 0.0352
                                        g_loss: 5.4063
                                        g_loss: 7.3483
          84/
               250]
                      d loss: 0.0209
Epoch [
                    Epoch [
          84/
               250]
                      d loss: 0.1269
                                        g_loss: 8.7508
Epoch [
          84/
               250]
                      d loss: 0.2842
                                        g loss: 6.4043
                      d_loss: 0.2583
                                        g_loss: 4.4032
Epoch [
          85/
               250]
Epoch [
          85/
               250] |
                      d loss: 1.0990
                                        g loss: 9.7654
Epoch [
          85/
               250]
                      d_loss: 0.0314 |
                                        g_loss: 6.3157
Epoch [
               250] | d loss: 0.0070 | g loss: 6.2111
```

```
250] | d loss: 0.0547 |
Epoch [
          85/
                                        g loss: 6.2411
                      d loss: 0.0470
Epoch [
          85/
               250]
                                        g loss: 8.2570
                                        g_loss: 8.8123
Epoch [
          85/
               250] | d_loss: 0.0747
Epoch [
          85/
               250] | d loss: 0.0611
                                        g loss: 7.1352
                      d_loss: 0.0750
Epoch [
          85/
               250]
                                        g_loss: 4.2234
Epoch [
          85/
               250]
                    d loss: 0.0129
                                        g loss: 4.7547
Epoch [
          85/
               250]
                    d loss: 0.2134
                                        g loss: 8.8471
Epoch [
          85/
               250] | d loss: 0.0819
                                        g_loss: 4.7666
Epoch [
          85/
               250]
                    d_loss: 0.0872
                                        g_loss: 6.2617
                    d_loss: 0.0387
                                        g_loss: 4.8091
Epoch [
          85/
               250]
          85/
               250]
                    d loss: 0.0859
                                        g loss: 7.0014
Epoch [
Epoch [
          85/
               250]
                    d loss: 0.0049
                                        g_loss: 6.4671
Epoch [
          85/
               250]
                      d loss: 0.1296
                                        g loss: 5.4195
Epoch [
          85/
               250]
                    d_loss: 0.0191
                                        g_loss: 6.6705
Epoch [
          85/
               250] | d loss: 0.0560
                                        g_loss: 5.3869
                      d_loss: 0.0257
                                        g_loss: 8.4325
Epoch [
          85/
               250]
Epoch [
          85/
               250]
                      d loss: 0.2037
                                        g loss: 5.5717
                    1
Epoch [
          85/
               250]
                    d loss: 0.0732
                                        g loss: 5.1133
          85/
                    d loss: 0.0326
                                        g_loss: 4.9887
Epoch [
               250]
Epoch [
          85/
               250]
                    d_loss: 0.0766
                                        g_loss: 5.3648
          85/
                    d_loss: 0.0071
                                        g_loss: 7.1446
Epoch [
               250]
Epoch [
          85/
               250] | d loss: 0.0307
                                        g loss: 7.7475
Epoch [
          85/
               250] | d loss: 0.0306
                                        g loss: 6.6870
Epoch [
          85/
                      d loss: 0.0322
               250]
                    1
                                        g loss: 6.6615
Epoch [
          85/
               250]
                    | d_loss: 0.0118 |
                                        g_loss: 10.2200
Epoch [
          86/
               250]
                    d loss: 0.0462
                                        g loss: 6.9197
                      d_loss: 0.5151
Epoch [
          86/
               250]
                                        g_loss: 11.1019
Epoch [
          86/
               250]
                    d loss: 0.0899
                                        g loss: 6.2876
Epoch [
          86/
               250]
                    d loss: 0.0957
                                        g loss: 4.5848
Epoch [
               250] | d loss: 0.0713
                                        g_loss: 5.9334
          86/
                      d_loss: 0.2067
                                        g_loss: 6.4768
Epoch [
          86/
               250]
                    d_loss: 0.0695
                                        g_loss: 6.3321
Epoch [
          86/
               250]
                    Epoch [
          86/
               250]
                    d loss: 0.1237
                                        g loss: 8.8116
Epoch [
          86/
               250]
                    d loss: 0.0896
                                        g_loss: 4.5195
Epoch [
          86/
               250]
                    | d loss: 0.2936
                                        g loss: 1.4821
Epoch [
          86/
               250]
                    d loss: 0.1474
                                        g_loss: 9.0271
Epoch [
          86/
               250] | d loss: 0.0383
                                        g_loss: 5.8850
                      d_loss: 0.0118
                                        g_loss: 7.6201
Epoch [
          86/
               250]
Epoch [
          86/
               250]
                      d loss: 0.0379
                                        g loss: 12.7033
                    1
Epoch [
          86/
               250]
                    d loss: 0.1864
                                        g loss: 4.9787
                                        g_loss: 5.9596
                    | d loss: 0.1809
Epoch [
          86/
               250]
Epoch [
          86/
               250]
                    | d_loss: 0.1085
                                        g_loss: 2.9876
                    | d_loss: 0.5118
                                        g_loss: 8.9999
Epoch [
          86/
               250]
          86/
               250] | d loss: 0.1902
                                        g loss: 5.6729
Epoch [
Epoch [
          86/
               250] | d loss: 0.0311
                                        g_loss: 6.0555
Epoch [
                      d loss: 0.0332
          86/
               250]
                    1
                                        g loss: 7.9326
Epoch [
          86/
               250]
                    | d_loss: 0.5415
                                        g_loss: 3.0073
Epoch [
          86/
               250]
                    d loss: 0.1007
                                        g_loss: 7.1315
Epoch [
          86/
               250]
                      d_loss: 0.0118
                                        g_loss: 7.1389
Epoch [
          86/
               250]
                      d loss: 0.0157
                                        g loss: 8.8008
Epoch [
               250]
                      d loss: 0.0337
                                        g loss: 5.9942
          86/
Epoch [
               250] | d loss: 0.4046
                                        g_loss: 10.7276
          86/
                      d loss: 0.0187
                                        g_loss: 7.9310
Epoch [
          86/
               250]
                    1
                      d_loss: 0.1336 |
Epoch [
          86/
               250]
                    g_loss: 4.5662
          87/
                    d loss: 0.0742
                                        g loss: 4.3929
Epoch [
               250]
Epoch [
          87/
               250]
                    d loss: 0.0158
                                        g_loss: 8.4880
Epoch [
          87/
               250]
                      d loss: 0.0274
                                        g loss: 6.2946
                      d_loss: 0.0834
                                        g_loss: 6.8541
Epoch [
          87/
               250]
Epoch [
          87/
               250] | d loss: 0.0907
                                        g_loss: 5.5075
Epoch [
          87/
               250]
                      d_loss: 0.0390 |
                                        g_loss: 7.4446
Epoch [
          87/
               250] | d loss: 0.4893 | g loss: 3.4763
```

```
250] | d loss: 0.0234 |
Epoch [
          87/
                                        g loss: 7.2324
          87/
                      d loss: 0.0859
Epoch [
               250]
                                        g loss: 5.8358
Epoch [
          87/
               250] | d_loss: 0.1233
                                        g_loss: 5.1685
Epoch [
          87/
               250] | d loss: 0.0718 |
                                        g loss: 6.8372
          87/
                      d_loss: 0.0565
Epoch [
               250]
                                        g_loss: 5.7584
Epoch [
          87/
               250]
                    d loss: 0.2310
                                        g loss: 4.6729
Epoch [
          87/
               250]
                    d loss: 0.0969
                                        g loss: 6.6789
Epoch [
          87/
               250] | d loss: 0.0206
                                        g_loss: 6.1288
Epoch [
          87/
               250]
                    d loss: 0.0796
                                        g_loss: 6.2925
                    | d_loss: 0.0889 |
                                        g_loss: 5.9105
Epoch [
          87/
               250]
Epoch [
          87/
               250]
                    d loss: 0.0241
                                        g loss: 5.9991
Epoch [
          87/
               250]
                    d loss: 0.4668
                                        g_loss: 7.5487
Epoch [
          87/
               250]
                      d loss: 0.1395
                                        g loss: 9.3217
Epoch [
          87/
               250]
                    d_loss: 0.0174
                                        g_loss: 6.7081
Epoch [
          87/
               250] | d loss: 0.0071
                                        g_loss: 7.6379
                      d_loss: 0.0654
                                        g_loss: 5.0767
Epoch [
          87/
               250]
Epoch [
          87/
               250]
                      d loss: 0.0531
                                        g loss: 4.9332
                    1
Epoch [
          87/
               250]
                    d loss: 0.1791
                                        g loss: 6.4690
          87/
               250]
                    | d loss: 0.0163
                                        g_loss: 5.7438
Epoch [
Epoch [
          87/
               250]
                    | d_loss: 0.1087
                                        g_loss: 6.4651
          87/
                    d_loss: 0.1586
                                        g_loss: 6.4702
Epoch [
               250]
Epoch [
          87/
               250] | d loss: 2.1970
                                        g loss: 1.2609
Epoch [
          88/
               250] | d loss: 0.6346
                                        g loss: 1.5434
Epoch [
                      d loss: 0.0191
                                        g loss: 5.5548
          88/
               250]
Epoch [
          88/
               250]
                      d_loss: 0.0589
                                        g_loss: 4.1909
                    Epoch [
          88/
               250]
                    d loss: 0.2180
                                        g loss: 8.2377
                      d_loss: 0.0152
Epoch [
          88/
               250]
                                        g_loss: 7.0952
Epoch [
          88/
               250]
                    d loss: 0.2833
                                        g loss: 5.7754
Epoch [
          88/
               250]
                    | d loss: 0.0869
                                        g loss: 8.1649
Epoch [
          88/
               250] | d loss: 0.0697
                                        g_loss: 7.6539
                      d loss: 0.1518
                                        g_loss: 4.6648
Epoch [
          88/
               250]
                    d_loss: 0.3442
                                        g_loss: 6.8218
Epoch [
          88/
               250]
                    Epoch [
          88/
               250]
                    | d loss: 0.1190
                                        g loss: 6.9804
Epoch [
          88/
               250]
                      d loss: 0.0083
                                        g_loss: 8.8658
Epoch [
          88/
               250]
                      d loss: 0.0099
                                        g loss: 6.1313
Epoch [
          88/
               250]
                    d_loss: 0.0783
                                        g_loss: 7.8554
Epoch [
          88/
               250] | d loss: 0.1577
                                        g_loss: 4.2364
                      d_loss: 0.2239
                                        g_loss: 7.2025
Epoch [
          88/
               250]
Epoch [
          88/
               250]
                      d loss: 1.3944
                                        g loss: 0.8216
                    1
Epoch [
          88/
               250]
                    d loss: 0.0773
                                        g loss: 3.8558
               250]
                    d loss: 0.0569
                                        g_loss: 5.8883
Epoch [
          88/
Epoch [
          88/
               250]
                    d loss: 0.0936
                                        g_loss: 4.8212
          88/
                    | d_loss: 0.1416
                                        g_loss: 7.1926
Epoch [
               250]
Epoch [
          88/
               250] | d loss: 0.0249
                                        g loss: 5.6168
Epoch [
          88/
               250] | d loss: 0.0391
                                        g_loss: 6.6421
Epoch [
                      d loss: 0.0252
          88/
               250]
                    1
                                        g loss: 5.6978
Epoch [
          88/
               250]
                    | d_loss: 0.0705
                                        g_loss: 4.5674
Epoch [
          88/
               250]
                    d loss: 0.0511
                                        g loss: 6.3529
Epoch [
          88/
               250]
                      d_loss: 0.2000
                                        g_loss: 5.9458
Epoch [
          88/
               250]
                      d loss: 0.2055
                                        g loss: 8.8732
Epoch [
          88/
               250]
                      d loss: 0.0202
                                        g loss: 6.1953
Epoch [
          89/
               250] | d loss: 0.0178
                                        g_loss: 7.0026
                      d_loss: 0.0421
                                        g_loss: 5.9319
Epoch [
          89/
               250]
                    Epoch [
          89/
               250]
                    d_loss: 0.0803
                                        g_loss: 4.8563
                                        g_loss: 7.2597
          89/
               250]
                    d loss: 0.0054
Epoch [
Epoch [
          89/
               250]
                      d loss: 0.4904
                                        g_loss: 2.4994
Epoch [
          89/
               250]
                      d loss: 0.1194
                                        g loss: 6.2334
                      d_loss: 0.0208
                                        g_loss: 6.8053
Epoch [
          89/
               250]
Epoch [
          89/
               250] |
                      d loss: 0.0233
                                        g_loss: 4.8341
Epoch [
          89/
               250]
                      d_loss: 0.2140 |
                                        g_loss: 6.4674
Epoch [
               250] | d loss: 0.0472 | g loss: 5.2269
```

```
250] | d loss: 0.0594 |
Epoch [
          89/
                                        g loss: 2.5385
                      d loss: 0.0422
Epoch [
          89/
               250]
                                        g loss: 6.0049
                                        g_loss: 8.7920
Epoch [
          89/
               250] | d_loss: 0.0281
Epoch [
          89/
               250] | d loss: 0.0181
                                        g loss: 6.7263
                      d_loss: 0.0633
Epoch [
          89/
               250]
                                        g_loss: 7.9561
Epoch [
          89/
               250]
                    d loss: 0.1534
                                        g loss: 6.9481
Epoch [
          89/
               250]
                    d loss: 0.0707
                                        g loss: 6.4833
Epoch [
          89/
               250] | d loss: 0.0016
                                        g_loss: 6.4804
Epoch [
          89/
               250]
                    d_loss: 1.0605
                                        g_loss: 1.0440
          89/
                    d_loss: 0.0521
                                        g_loss: 8.6149
Epoch [
               250]
          89/
               250]
                    d loss: 0.1467
                                        g loss: 6.6312
Epoch [
Epoch [
          89/
               250]
                    d loss: 0.0193
                                        g_loss: 7.0486
Epoch [
          89/
               250]
                      d loss: 0.0069
                                        g loss: 10.8757
Epoch [
          89/
               250]
                    d_loss: 0.0825
                                        g_loss: 4.4499
Epoch [
          89/
               250] | d loss: 0.0709
                                        g loss: 8.9639
                      d_loss: 0.9290
                                        g_loss: 4.8802
Epoch [
          89/
               250]
Epoch [
          89/
               250]
                      d loss: 0.9411
                                        g loss: 3.6347
                    1
Epoch [
          89/
               250]
                    d loss: 0.0465
                                        g loss: 6.0457
          89/
               250]
                    | d loss: 0.0260
                                        g_loss: 6.9992
Epoch [
                                        g_loss: 4.3626
Epoch [
          90/
               250]
                    | d_loss: 0.3187
          90/
                    d_loss: 0.3046
                                        g_loss: 5.0707
Epoch [
               250]
Epoch [
          90/
               250] | d loss: 0.0871
                                        g loss: 4.8913
Epoch [
          90/
               250] | d loss: 0.0182
                                        g_loss: 5.5302
Epoch [
                      d loss: 0.0448
          90/
               250]
                    1
                                        g loss: 5.3560
Epoch [
          90/
               250]
                    | d_loss: 0.0438
                                        g_loss: 4.2610
Epoch [
          90/
               250]
                    d loss: 0.0986
                                        g_loss: 7.7981
          90/
                      d_loss: 0.0340
Epoch [
               250]
                                        g_loss: 5.7891
Epoch [
          90/
               250]
                    d loss: 0.1153
                                        g loss: 6.0943
Epoch [
          90/
               250]
                    | d loss: 0.2525
                                        g loss: 3.8221
Epoch [
          90/
               250] | d loss: 0.0525
                                        g_loss: 6.6793
                      d_loss: 0.2047
                                        g_loss: 5.7981
Epoch [
          90/
               250]
                    d_loss: 0.2795
                                        g_loss: 6.7524
Epoch [
          90/
               250]
                    g_loss: 7.2754
Epoch [
          90/
               250]
                    d loss: 0.1458
Epoch [
          90/
               250]
                    d loss: 0.0133
                                        g_loss: 7.7203
          90/
Epoch [
               250]
                    | d loss: 0.0086
                                        g loss: 9.6773
Epoch [
          90/
               250]
                    | d_loss: 0.0525
                                        g_loss: 6.1280
Epoch [
          90/
               250] | d loss: 0.0209
                                        g_loss: 7.4799
          90/
                      d_loss: 0.3532
                                        g_loss: 8.6060
Epoch [
               250]
Epoch [
          90/
               250]
                      d loss: 0.0812
                                        g loss: 5.6828
                    1
Epoch [
          90/
               250]
                    d loss: 0.0555
                                        g loss: 6.0701
                                        g_loss: 5.5542
          90/
               250]
                    | d loss: 0.1078
Epoch [
Epoch [
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               250]
                    d loss: 0.1957
                                        g_loss: 4.5600
          90/
                    d_loss: 1.6095
                                        g_loss: 2.3260
Epoch [
               250]
          90/
               250]
                    d loss: 0.2731
                                        g loss: 9.0115
Epoch [
Epoch [
          90/
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                                        g loss: 6.4664
Epoch [
                      d loss: 0.0346
                                        g loss: 7.1270
          90/
               250]
                    1
Epoch [
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               250]
                    | d_loss: 0.2283 |
                                        g_loss: 5.0281
Epoch [
          90/
               250]
                    d loss: 0.0091
                                        g loss: 6.1100
Epoch [
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               250]
                      d_loss: 0.6376
                                        g_loss: 9.0577
Epoch [
          91/
               250]
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                                        g loss: 5.1005
Epoch [
          91/
               250]
                    d loss: 0.5374
                                        g loss: 4.8894
Epoch [
          91/
               250] | d loss: 0.0250
                                        g_loss: 4.9357
          91/
                      d loss: 0.1019
                                        g_loss: 6.1932
Epoch [
               250]
                    1
Epoch [
          91/
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                    d_loss: 0.2494
                                        g_loss: 6.5129
          91/
               250]
                    d loss: 0.0500
                                        g loss: 7.5239
Epoch [
Epoch [
          91/
               250]
                      d loss: 0.0252
                                        g_loss: 7.6284
Epoch [
          91/
               250]
                      d loss: 0.3861
                                        g loss: 6.2595
                      d_loss: 0.0570
Epoch [
          91/
               250]
                                        g_loss: 5.9041
Epoch [
          91/
               250] |
                      d loss: 0.0399 |
                                        g loss: 4.8846
Epoch [
          91/
               250]
                      d_loss: 0.1087 |
                                        g_loss: 6.4087
Epoch [
               250] | d loss: 0.1435 | g loss: 7.0156
```

```
250] | d loss: 0.0588 |
Epoch [
          91/
                                        g loss: 5.9906
          91/
                      d loss: 0.0291
Epoch [
               250]
                                        g loss: 7.9087
                                        g_loss: 7.3182
Epoch [
          91/
               250]
                    | d_loss: 0.1716
Epoch [
          91/
               250] | d loss: 0.3075
                                        g loss: 6.8617
          91/
Epoch [
               250]
                      d_loss: 0.0252
                                        g_loss: 6.0751
Epoch [
          91/
               250]
                    d loss: 0.0978
                                        g loss: 5.5705
Epoch [
          91/
               250]
                    | d loss: 0.0663
                                        g loss: 4.6284
Epoch [
          91/
               250] | d loss: 0.7659
                                        g_loss: 6.3306
Epoch [
          91/
               250]
                    d_loss: 0.0243
                                        g_loss: 8.4371
          91/
                      d_loss: 0.0208
                                        g_loss: 6.5973
Epoch [
               250]
                    91/
               250]
                    | d loss: 0.0118
                                        g loss: 6.2063
Epoch [
Epoch [
          91/
               250]
                      d loss: 0.0111
                                        g_loss: 8.1756
Epoch [
          91/
               250]
                      d loss: 0.0842
                                        g loss: 6.7568
Epoch [
          91/
               250]
                    | d_loss: 0.0128
                                        g_loss: 6.3735
Epoch [
          91/
               250] | d loss: 0.0518
                                        g_loss: 5.0012
          91/
                      d_loss: 0.2983
                                        g_loss: 8.4225
Epoch [
               250]
Epoch [
          92/
               250]
                      d loss: 0.0939
                                        g loss: 8.2586
                    1
Epoch [
          92/
               250]
                    d loss: 0.1173
                                        g loss: 4.1813
          92/
               250]
                    d loss: 0.0298
                                        g_loss: 6.1905
Epoch [
Epoch [
          92/
               250]
                      d_loss: 0.0120
                                        g_loss: 6.4360
          92/
                    d_loss: 0.2382
                                        g_loss: 7.4401
Epoch [
               250]
Epoch [
          92/
               250] | d loss: 1.1046
                                        g loss: 9.0530
Epoch [
          92/
               250] | d loss: 0.0148
                                        g loss: 4.8874
Epoch [
          92/
                      d loss: 0.0362
                                        g loss: 7.3383
               250]
Epoch [
          92/
               250]
                    | d_loss: 0.3870 |
                                        g_loss: 5.4497
Epoch [
          92/
               250]
                    d loss: 0.0752
                                        g_loss: 6.3156
                      d_loss: 0.2595
Epoch [
          92/
               250]
                                        g_loss: 4.5192
Epoch [
          92/
               250]
                    d loss: 0.0890
                                        g loss: 6.4538
Epoch [
          92/
               250]
                    d loss: 0.0081
                                        g loss: 5.8165
Epoch [
          92/
               250] | d loss: 0.0510
                                        g_loss: 6.6617
                      d_loss: 0.0138
                                        g_loss: 7.3349
Epoch [
          92/
               250]
                    92/
                      d_loss: 0.0156
                                        g_loss: 6.0366
Epoch [
               250]
                    Epoch [
          92/
               250]
                    | d loss: 0.0375
                                        g loss: 3.9843
Epoch [
          92/
               250]
                    d loss: 0.0403
                                        g_loss: 8.3824
          92/
Epoch [
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                      d loss: 0.0495
                                        g loss: 7.6985
                    d_loss: 0.0802
                                        g_loss: 6.2772
Epoch [
          92/
               250]
Epoch [
          92/
               250] | d loss: 0.0072
                                        g_loss: 8.7751
          92/
                      d_loss: 0.2321
                                        g_loss: 5.7824
Epoch [
               250]
Epoch [
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                      d loss: 0.2117
                                        g loss: 6.4751
                    1
Epoch [
          92/
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                    d loss: 0.3002
                                        g loss: 11.1414
                                        g_loss: 3.6724
          92/
               250]
                    | d loss: 0.1828
Epoch [
Epoch [
          92/
               250]
                    d loss: 0.4140
                                        g_loss: 4.6166
          92/
                    | d_loss: 0.0271
                                        g_loss: 6.6955
Epoch [
               250]
          92/
               250]
                    d loss: 0.0651
                                        g loss: 7.9422
Epoch [
Epoch [
          92/
               250] | d loss: 0.0092
                                        g_loss: 6.6214
Epoch [
                      d loss: 0.0151
          93/
               250]
                    1
                                        g loss: 8.2750
Epoch [
          93/
               250]
                    | d_loss: 0.5295
                                        g_loss: 7.3391
Epoch [
          93/
               250]
                    d loss: 0.1069
                                        g_loss: 5.4595
Epoch [
          93/
               250]
                      d_loss: 0.0974
                                        g_loss: 6.5936
Epoch [
          93/
               250]
                      d loss: 0.1471
                                        g loss: 7.1027
Epoch [
          93/
               250]
                    | d loss: 0.0102
                                        g loss: 7.9940
Epoch [
          93/
               250] | d loss: 0.0437
                                        g_loss: 7.2009
                      d loss: 0.0036
                                        g_loss: 6.1476
Epoch [
          93/
               250]
                    1
Epoch [
          93/
               250]
                    d_loss: 0.1459
                                        g_loss: 6.5267
          93/
               250]
                    d loss: 0.1194
                                        g loss: 7.6325
Epoch [
Epoch [
          93/
               250]
                      d loss: 0.0066
                                        g_loss: 7.7395
Epoch [
          93/
               250]
                      d loss: 0.1525
                                        g loss: 6.2211
                      d_loss: 0.0138
Epoch [
          93/
               250]
                                        g_loss: 7.3828
Epoch [
          93/
               250] |
                      d loss: 0.0305
                                        g_loss: 8.5354
Epoch [
          93/
               250]
                      d_loss: 0.1220 |
                                        g_loss: 8.0727
Epoch [
               250] | d loss: 0.0226 | g loss: 4.4003
```

```
250] | d loss: 0.0275 |
Epoch [
          93/
                                        g loss: 5.8150
          93/
                    | d loss: 0.1356
Epoch [
               250]
                                        g loss: 6.8182
                                        g_loss: 6.7790
Epoch [
          93/
               250] | d_loss: 0.0154
Epoch [
          93/
               250] | d loss: 0.0254 |
                                        g loss: 6.3401
          93/
                      d_loss: 0.2982
Epoch [
               250]
                                        g_loss: 1.6921
Epoch [
          93/
               250]
                    d loss: 0.1893
                                        g loss: 5.4492
Epoch [
          93/
               250]
                    d loss: 0.0153
                                        g loss: 4.1966
Epoch [
          93/
               250] | d loss: 0.0093
                                        g_loss: 8.0726
Epoch [
          93/
               250]
                    d_loss: 0.1150
                                        g_loss: 9.5140
                    d_loss: 0.0974
                                        g_loss: 6.5174
Epoch [
          93/
               250]
Epoch [
          93/
               250]
                    d loss: 0.1234
                                        g loss: 6.2011
Epoch [
          93/
               250]
                    d loss: 0.0094
                                        g_loss: 5.2872
Epoch [
          93/
               250]
                      d loss: 0.0205
                                        g loss: 6.2178
Epoch [
          94/
               250]
                    d_loss: 0.0444
                                        g_loss: 5.5601
Epoch [
          94/
               250] | d loss: 0.0259
                                        g_loss: 6.9803
          94/
                      d_loss: 0.0468
                                        g_loss: 5.3175
Epoch [
               250]
Epoch [
          94/
               250]
                      d loss: 0.0153
                                        g loss: 7.8666
                    1
Epoch [
          94/
               250]
                    d loss: 0.1320
                                        g loss: 4.5503
          94/
               250]
                    d loss: 0.0720
                                        g_loss: 5.5687
Epoch [
Epoch [
          94/
               250]
                    | d_loss: 0.0758
                                        g_loss: 4.7436
          94/
                    d_loss: 0.0324
                                        g_loss: 5.3915
Epoch [
               250]
Epoch [
          94/
               250] | d loss: 0.0819
                                        g loss: 4.9862
Epoch [
          94/
               250] | d loss: 0.0409
                                        g loss: 5.1118
Epoch [
          94/
                      d loss: 0.2047
                                        g loss: 5.9213
               250]
                                        g_loss: 6.9591
Epoch [
          94/
               250]
                      d_loss: 0.0451
                    Epoch [
          94/
               250]
                    d loss: 0.0496
                                        g_loss: 8.5248
          94/
                      d_loss: 0.0374
Epoch [
               250]
                                        g_loss: 6.9312
Epoch [
          94/
               250]
                    d loss: 0.0756
                                        g loss: 7.6330
Epoch [
          94/
               250]
                    | d loss: 0.0099
                                        g loss: 6.7597
Epoch [
          94/
               250] | d loss: 0.0188
                                        g_loss: 4.7863
                      d_loss: 0.0203
                                        g_loss: 7.2216
Epoch [
          94/
               250]
                    94/
                      d_loss: 0.0287
                                        g_loss: 7.3204
Epoch [
               250]
                    Epoch [
          94/
               250]
                    | d loss: 0.0307
                                        g loss: 5.4531
Epoch [
          94/
               250]
                    d loss: 0.0343
                                        g_loss: 7.6923
          94/
Epoch [
               250]
                    | d loss: 0.1061
                                        g loss: 7.3525
Epoch [
          94/
               250]
                    | d_loss: 0.0640
                                        g_loss: 5.4121
Epoch [
          94/
               250] | d loss: 0.0992
                                        g_loss: 7.3283
          94/
                      d_loss: 0.1482
                                        g_loss: 4.6601
Epoch [
               250] |
Epoch [
          94/
               250]
                      d loss: 0.0975
                                        g loss: 4.9205
                    1
Epoch [
          94/
               250]
                    d loss: 0.0254
                                        g loss: 5.4320
          94/
               250]
                    d loss: 0.1859
                                        g_loss: 5.8303
Epoch [
Epoch [
          94/
               250]
                    | d_loss: 0.0369
                                        g_loss: 6.8965
          95/
                    d_loss: 0.4791
                                        g_loss: 6.6043
Epoch [
               250]
          95/
               250] | d loss: 0.1504
                                        g loss: 5.8740
Epoch [
Epoch [
          95/
               250] | d loss: 0.0086
                                        g loss: 6.2423
Epoch [
          95/
                      d loss: 0.0443
               250]
                    1
                                        g loss: 5.8906
Epoch [
          95/
               250]
                    | d_loss: 0.0215
                                        g_loss: 7.5485
Epoch [
          95/
               250]
                    d loss: 0.0139
                                        g loss: 7.0139
Epoch [
          95/
               250]
                      d_loss: 0.0021
                                        g_loss: 6.8071
Epoch [
          95/
               250]
                      d loss: 0.0494
                                        g loss: 6.3315
Epoch [
          95/
               250]
                    | d loss: 0.0331
                                        g loss: 8.8411
Epoch [
          95/
               250] | d loss: 0.0988
                                        g_loss: 6.3969
          95/
                      d_loss: 0.0860
                                        g_loss: 8.5410
Epoch [
               250]
                    Epoch [
          95/
               250]
                    d_loss: 0.0356
                                        g_loss: 6.9192
                                        g_loss: 10.5758
          95/
               250]
                    | d loss: 0.0104
Epoch [
Epoch [
          95/
               250]
                    d loss: 0.0971
                                        g_loss: 5.9965
Epoch [
          95/
               250]
                      d loss: 0.0231
                                        g loss: 5.8117
                      d_loss: 0.0223
                                        g_loss: 5.4192
Epoch [
          95/
               250]
Epoch [
          95/
               250] |
                      d loss: 0.0499
                                        g loss: 8.5939
Epoch [
          95/
               250]
                      d_loss: 0.0294 |
                                        g_loss: 8.1504
Epoch [
               250] | d loss: 0.0212 | g loss: 8.9415
```

```
250] | d loss: 0.1263 |
Epoch [
          95/
                                        g loss: 5.9810
          95/
                    d loss: 0.0323
Epoch [
               250]
                                        g loss: 9.7548
                                        g_loss: 5.6225
Epoch [
          95/
               250] | d_loss: 0.1185
Epoch [
          95/
               250] | d loss: 0.2645 |
                                        g loss: 6.8027
          95/
                      d_loss: 0.3434
Epoch [
               250]
                                        g_loss: 5.8592
Epoch [
          95/
               250]
                    d loss: 0.1730
                                        g loss: 6.2636
Epoch [
          95/
               250]
                    d loss: 0.0607
                                        g loss: 9.0583
Epoch [
          95/
               250] | d loss: 0.1245
                                        g_loss: 4.5081
Epoch [
          95/
               250]
                    d_loss: 0.0534
                                        g_loss: 5.2172
          95/
                    | d_loss: 0.0123 |
                                        g_loss: 6.2480
Epoch [
               250]
          96/
               250]
                    d loss: 0.0217
                                        g loss: 5.6394
Epoch [
Epoch [
          96/
               250]
                    d loss: 0.0278
                                        g_loss: 7.4140
          96/
Epoch [
               250]
                      d loss: 0.0241
                                        g loss: 8.0260
Epoch [
          96/
               250]
                    | d_loss: 0.0074
                                        g_loss: 5.1831
Epoch [
          96/
               250] | d loss: 0.0055
                                        g_loss: 8.7349
          96/
                      d_loss: 0.1248
                                        g_loss: 8.3644
Epoch [
               250] |
Epoch [
          96/
               250]
                      d loss: 0.0430
                                        g loss: 7.1861
                    1
Epoch [
          96/
               250]
                    d loss: 2.0278
                                        g loss: 13.9408
          96/
               250]
                    d loss: 0.0753
                                        g_loss: 4.5521
Epoch [
Epoch [
          96/
               250]
                    | d_loss: 0.0635
                                        g_loss: 4.4194
          96/
                    d_loss: 0.0059
                                        g_loss: 6.3606
Epoch [
               250]
          96/
               250] | d loss: 0.3005
                                        g loss: 4.4639
Epoch [
Epoch [
          96/
               250] | d loss: 0.1074
                                        g loss: 6.3299
Epoch [
          96/
                      d loss: 0.0763
               250]
                                        g loss: 6.0599
Epoch [
          96/
               250]
                    | d_loss: 0.0474 |
                                        g_loss: 7.7533
Epoch [
          96/
               250]
                    d loss: 0.3431
                                        g loss: 8.7485
          96/
                      d_loss: 0.1217
Epoch [
               250]
                                        g_loss: 7.3261
Epoch [
          96/
               250]
                    d loss: 0.1094
                                        g loss: 7.5397
Epoch [
          96/
               250]
                    d loss: 0.3444
                                        g loss: 4.7836
Epoch [
          96/
               250] | d loss: 0.0231
                                        g_loss: 7.4382
                      d_loss: 0.0638
Epoch [
          96/
               250]
                    g_loss: 6.5338
                    | d_loss: 0.0570 |
                                        g_loss: 8.2784
Epoch [
          96/
               250]
Epoch [
          96/
               250]
                    d loss: 0.0602
                                        g loss: 9.9313
Epoch [
          96/
               250]
                    d loss: 0.0403
                                        g_loss: 7.2828
Epoch [
          96/
               250]
                    | d loss: 0.0051
                                        g loss: 6.7875
                    d_loss: 0.0343
Epoch [
          96/
               250]
                                        g_loss: 5.3842
Epoch [
          96/
               250] | d loss: 0.0485
                                        g_loss: 7.3101
          96/
                      d_loss: 0.0648
                                        g_loss: 7.1772
Epoch [
               250] |
Epoch [
          96/
               250]
                      d loss: 0.0061
                                        g loss: 7.6695
                    1
Epoch [
          97/
               250]
                    d loss: 0.1331
                                        g loss: 6.5840
          97/
               250]
                    d loss: 0.0123
                                        g_loss: 6.7857
Epoch [
          97/
Epoch [
               250]
                    | d_loss: 0.0200
                                        g_loss: 10.8398
          97/
                    d_loss: 0.0029
                                        g_loss: 8.4412
Epoch [
               250]
          97/
               250] | d loss: 0.0800
                                        g loss: 7.3312
Epoch [
Epoch [
          97/
               250] | d loss: 0.0658
                                        g loss: 8.5454
Epoch [
          97/
                      d loss: 0.0292
               250]
                    1
                                        g loss: 6.9999
Epoch [
          97/
               250]
                    d_loss: 0.2421
                                        g_loss: 5.0192
Epoch [
          97/
               250]
                    d loss: 0.1329
                                        g loss: 6.4108
Epoch [
          97/
               250]
                      d_loss: 0.0822
                                        g_loss: 9.2117
Epoch [
          97/
               250]
                    d loss: 0.2636
                                        g loss: 8.8312
Epoch [
          97/
               250]
                    d loss: 0.3479
                                        g loss: 2.2893
Epoch [
          97/
               250] | d loss: 0.1699
                                        g_loss: 10.2910
          97/
                      d_loss: 0.0087
                                        g_loss: 5.8974
Epoch [
               250]
                    Epoch [
          97/
               250]
                    d_loss: 0.2288
                                        g_loss: 5.1346
          97/
               250]
                    d loss: 0.0029
                                        g loss: 6.8148
Epoch [
Epoch [
          97/
               250]
                    d loss: 0.0276
                                        g_loss: 5.9766
          97/
Epoch [
               250]
                      d loss: 0.0283
                                        g loss: 5.3017
Epoch [
          97/
               250]
                    | d_loss: 0.0077
                                        g_loss: 5.7396
Epoch [
          97/
               250] | d loss: 3.4565
                                        g loss: 15.3403
Epoch [
          97/
               250] |
                      d_loss: 0.0335 |
                                        g_loss: 6.6242
Epoch [
          97/
               250] | d loss: 0.1745 | g loss: 4.2796
```

```
250] | d loss: 0.0573 |
Epoch [
          97/
                                        g loss: 9.8659
          97/
               250] |
                      d loss: 0.0075
Epoch [
                                        g loss: 9.7886
                                        g_loss: 5.9729
Epoch [
          97/
               250] | d_loss: 0.0757
Epoch [
          97/
               250] | d loss: 0.1572
                                        g loss: 6.2361
          97/
                      d_loss: 0.0608
Epoch [
               250]
                                        g_loss: 4.1007
Epoch [
          97/
               250]
                    d loss: 0.0366
                                        g loss: 6.5375
Epoch [
          97/
               250]
                    d loss: 0.0519
                                        g loss: 9.9972
Epoch [
          98/
               250] | d loss: 0.1652
                                        g_loss: 4.7845
Epoch [
          98/
               250]
                    d_loss: 0.0492
                                        g_loss: 9.7192
          98/
                      d_loss: 0.0842
                                        g_loss: 5.3252
Epoch [
               250]
                    Epoch [
          98/
               250]
                    d loss: 0.2251
                                        g loss: 6.5295
Epoch [
          98/
               250]
                      d loss: 0.0137
                                        g_loss: 6.5852
Epoch [
          98/
               250]
                      d loss: 0.1992
                                        g loss: 4.0663
Epoch [
          98/
               250]
                    d loss: 0.0246
                                        g_loss: 5.7737
Epoch [
          98/
               250] | d loss: 0.1337
                                        g_loss: 6.8745
          98/
                      d_loss: 0.2274
                                        g_loss: 6.6117
Epoch [
               250]
Epoch [
          98/
               250]
                      d loss: 0.2828
                                        g loss: 6.1917
                    1
Epoch [
          98/
               250]
                    d loss: 0.0290
                                        g loss: 7.5790
          98/
               250]
                    | d loss: 0.0030
                                        g_loss: 7.5015
Epoch [
Epoch [
          98/
               250]
                    | d_loss: 0.1208
                                        g_loss: 5.2913
          98/
                    d_loss: 0.0448
                                        g_loss: 7.5694
Epoch [
               250]
Epoch [
          98/
               250] | d loss: 0.0233
                                        g loss: 4.8424
Epoch [
          98/
               250] | d loss: 0.0081
                                        g loss: 7.1935
Epoch [
                      d loss: 0.0597
          98/
               250]
                                        g loss: 4.9253
Epoch [
          98/
               250]
                    | d_loss: 0.0252
                                        g_loss: 4.8204
Epoch [
          98/
               250]
                    d loss: 0.0062
                                        g loss: 7.1571
          98/
                      d_loss: 0.0317
Epoch [
               250]
                                        g_loss: 6.6430
Epoch [
          98/
               250]
                    d loss: 0.0263
                                        g loss: 6.9433
Epoch [
          98/
               250]
                    | d loss: 0.0614
                                        g loss: 5.1778
Epoch [
          98/
               250] | d loss: 0.1037
                                        g_loss: 5.7123
                      d_loss: 0.0424
                                        g_loss: 8.7175
Epoch [
          98/
               250]
                    98/
                      d_loss: 0.1632
                                        g_loss: 5.1921
Epoch [
               250]
                    Epoch [
          98/
               250]
                    | d loss: 0.0166
                                        g loss: 9.5971
Epoch [
          98/
               250]
                    d loss: 0.1319
                                        g_loss: 5.0470
          98/
Epoch [
               250]
                    | d loss: 0.1399
                                        g loss: 4.7040
                                        g_loss: 6.6247
Epoch [
          98/
               250]
                    d loss: 0.1002
Epoch [
          99/
               250] | d loss: 0.4031
                                        g_loss: 7.6068
          99/
                      d_loss: 0.2614
                                        g_loss: 6.8461
Epoch [
               250]
Epoch [
          99/
               250]
                      d loss: 0.1558
                                        g loss: 7.6009
                    1
Epoch [
          99/
               250]
                    d loss: 0.0637
                                        g loss: 7.2523
          99/
               250]
                    | d loss: 0.0115
                                        g_loss: 4.9570
Epoch [
Epoch [
          99/
               250]
                    d loss: 0.0278
                                        g_loss: 4.8436
          99/
                    d_loss: 0.0089
                                        g_loss: 8.3303
Epoch [
               250]
          99/
               250] | d loss: 0.0122
                                        g loss: 8.5843
Epoch [
Epoch [
          99/
               250] | d loss: 0.1420
                                        g_loss: 7.5213
Epoch [
          99/
                      d loss: 0.1298
               250]
                                        g loss: 6.1676
                                        g_loss: 6.3078
Epoch [
          99/
               250]
                    | d_loss: 0.0989 |
Epoch [
          99/
               250]
                    d loss: 0.0471
                                        g loss: 8.4861
Epoch [
          99/
               250]
                      d_loss: 0.1382
                                        g_loss: 5.6014
Epoch [
          99/
               250]
                      d loss: 0.0720
                                        g loss: 7.4234
Epoch [
          99/
               250]
                    | d loss: 0.0172
                                        g loss: 6.6942
Epoch [
          99/
               250] | d loss: 0.0258
                                        g_loss: 7.5592
                      d loss: 0.0099
                                        g_loss: 8.2816
Epoch [
          99/
               250]
                    1
Epoch [
          99/
               250]
                    d_loss: 0.0151
                                        g_loss: 6.5852
          99/
               250]
                    d loss: 0.0277
                                        g_loss: 6.1715
Epoch [
Epoch [
          99/
               250]
                      d loss: 0.0668
                                        g_loss: 8.6072
          99/
Epoch [
               250]
                      d loss: 0.3477
                                        g loss: 4.4461
                      d_loss: 0.0772
                                        g_loss: 6.6916
Epoch [
          99/
               250]
Epoch [
          99/
               250] |
                      d loss: 0.0285
                                        g_loss: 7.7781
Epoch [
          99/
               250]
                      d_loss: 0.0137 |
                                        g_loss: 9.6113
Epoch [
               250] | d loss: 0.0064 | g loss: 7.7326
```

```
Epoch [
          99/
               250] | d loss: 0.0396 |
                                         g loss: 7.4991
          99/
                      d loss: 0.1445
Epoch [
               250]
                                         g loss: 7.7067
                                         g_loss: 5.7967
Epoch [
          99/
               250] | d_loss: 0.1982
Epoch [
          99/
               250] | d loss: 0.0240
                                         g loss: 6.0310
                       d_loss: 0.2560
Epoch [
         100/
               250]
                                         g_loss: 7.7936
Epoch [
         100/
               250]
                     d loss: 0.0658
                                         g loss: 6.9025
Epoch [
         100/
               250]
                    | d loss: 0.1038
                                         g loss: 8.8200
Epoch [
         100/
               250] | d loss: 0.1508
                                         g_loss: 6.3746
Epoch [
         100/
               250]
                    d_loss: 0.0264
                                         g_loss: 6.4775
         100/
                      d_loss: 0.6413
                                         g_loss: 3.1511
Epoch [
               250]
                    100/
               250]
                       d loss: 0.0050
                                         g loss: 5.4188
Epoch [
                    Epoch [
         100/
               250]
                       d loss: 0.0156
                                         g_loss: 9.3432
Epoch [
         100/
               250]
                       d loss: 0.0068
                                         g loss: 7.7008
Epoch [
         100/
               250]
                       d_loss: 0.0375
                                         g_loss: 7.3330
         100/
Epoch [
               250] | d loss: 0.0886
                                         g_loss: 7.0439
         100/
                       d_loss: 0.0365
                                         g_loss: 6.2262
Epoch [
               250]
Epoch [
         100/
               250]
                      d loss: 0.0396
                                         g loss: 9.0775
                     1
Epoch [
         100/
               250]
                      d loss: 0.1384
                                         g loss: 4.6668
                    100/
                    d loss: 0.1824
                                         g_loss: 4.1211
Epoch [
               250]
         100/
Epoch [
               250]
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Epoch [
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Epoch [
         100/
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                    | d loss: 0.1103
                                         g loss: 8.4574
         100/
Epoch [
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                                         g_loss: 5.1287
Epoch [
         100/
                       d loss: 0.0116
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                                         g loss: 8.4500
Epoch [
         100/
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                                         g_loss: 5.2414
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         100/
                       d_loss: 0.1736
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Epoch [
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                                         g loss: 7.4708
Epoch [
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               250]
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                                         g loss: 7.1102
Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                       d loss: 0.0106
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                                         g loss: 8.1717
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Epoch [
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Epoch [
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                                         g loss: 7.2999
Epoch [
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                                         g_loss: 7.3669
         101/
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Epoch [
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                     1
Epoch [
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Epoch [
Epoch [
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                                         g_loss: 7.6269
         101/
Epoch [
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                                         g loss: 8.2508
                      d_loss: 0.0131
                                         g_loss: 6.4023
Epoch [
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               250]
Epoch [
         101/
               250] |
                       d loss: 0.0786
                                         g loss: 5.9878
         101/
Epoch [
               250]
                       d_loss: 0.0124 |
                                         g_loss: 6.8512
Epoch [
         101/
               250] | d loss: 0.0541 | g loss: 8.2655
```

```
250] | d loss: 0.0450 |
Epoch [
         101/
                                         g loss: 7.9385
         102/
                    | d loss: 7.8773
Epoch [
               250]
                                         g loss: 18.1719
                                         g_loss: 8.0631
Epoch [
         102/
               250] | d_loss: 0.0889
Epoch [
         102/
               250] | d loss: 0.1384
                                         g loss: 7.6843
         102/
                       d_loss: 0.0599
Epoch [
               250]
                                         g_loss: 7.0920
Epoch [
         102/
               250]
                     d loss: 0.0743
                                         g loss: 6.6456
Epoch [
         102/
               250]
                     | d loss: 0.5063
                                         g loss: 9.5949
Epoch [
         102/
               250] | d loss: 0.0306
                                         g loss: 6.6035
                                         g_loss: 5.6910
Epoch [
         102/
               250]
                     1
                       d_loss: 0.0533
         102/
                      d_loss: 0.2312
                                         g_loss: 5.7809
Epoch [
               250]
                     102/
               250]
                    d loss: 0.0743
                                         g loss: 6.7751
Epoch [
Epoch [
         102/
               250]
                       d loss: 0.0757
                                         g_loss: 6.7969
Epoch [
         102/
               250]
                       d loss: 0.0015
                                         g loss: 5.6756
Epoch [
         102/
               250]
                       d_loss: 0.0058
                                         g_loss: 6.5415
         102/
Epoch [
               250]
                    d loss: 0.1316
                                         g_loss: 8.7017
         102/
                       d_loss: 0.3857
                                         g_loss: 1.4717
Epoch [
               250]
Epoch [
         102/
               250]
                      d loss: 0.0379
                                         g loss: 5.9573
                     1
Epoch [
         102/
               250]
                    d loss: 0.0621
                                         g loss: 4.4815
         102/
                     d loss: 0.0210
                                         g_loss: 7.6785
Epoch [
               250]
         102/
Epoch [
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                       d_loss: 0.0990
                                         g_loss: 7.8139
         102/
                     d_loss: 0.0641
                                         g_loss: 4.6853
Epoch [
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Epoch [
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               250]
                    d loss: 0.4444
                                         g loss: 5.4312
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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         102/
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Epoch [
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Epoch [
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                                         g loss: 8.5825
Epoch [
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                                         g loss: 6.8773
Epoch [
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Epoch [
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                                         g_loss: 7.3219
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Epoch [
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Epoch [
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                                         g loss: 4.6336
Epoch [
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         103/
Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                     1
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                                         g loss: 7.3006
Epoch [
         103/
                       d loss: 0.0015
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                     1
                                         g loss: 6.8962
Epoch [
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               250]
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                                         g_loss: 7.5361
Epoch [
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                                         g_loss: 3.2611
Epoch [
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               250]
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                                         g_loss: 8.5733
Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
Epoch [
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                       d loss: 0.1115
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Epoch [
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                                         g_loss: 7.6412
Epoch [
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                       d_loss: 0.1287
Epoch [
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Epoch [
               250]
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                                         g_loss: 9.1898
Epoch [
         104/
               250] | d loss: 0.1350 | g loss: 7.3163
```

```
250] | d loss: 0.0059 |
Epoch [
         104/
                                         g loss: 8.2387
Epoch [
         104/
                    d loss: 0.0540
               250]
                                         g loss: 9.0304
                                         g_loss: 7.0807
Epoch [
         104/
               250] | d_loss: 0.0726
Epoch [
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               250] | d loss: 0.3704
                                         g loss: 3.5858
         104/
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Epoch [
               250]
                                         g_loss: 9.1023
Epoch [
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               250]
                     d loss: 5.6374
                                         g loss: 0.8236
Epoch [
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               250]
                    | d loss: 0.3517
                                         g loss: 5.8583
Epoch [
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                                         g_loss: 8.6492
Epoch [
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                    d_loss: 0.1420
                                         g_loss: 6.9135
         104/
                    d_loss: 0.0309
                                         g_loss: 5.8973
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                                         g loss: 6.5660
Epoch [
Epoch [
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                                         g_loss: 6.8161
Epoch [
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               250]
                       d loss: 0.1080
                                         g loss: 5.8846
Epoch [
         104/
               250]
                       d_loss: 0.0911
                                         g_loss: 5.9233
         104/
Epoch [
               250] | d_loss: 0.0793
                                         g_loss: 5.5851
         104/
                       d_loss: 0.2150
                                         g_loss: 9.3078
Epoch [
               250]
Epoch [
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               250]
                      d loss: 0.1217
                                         g loss: 4.8804
                     1
Epoch [
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               250]
                    d loss: 0.0782
                                         g loss: 7.8262
         104/
                    | d loss: 0.1321
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Epoch [
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         104/
                                         g_loss: 4.9493
Epoch [
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                       d_loss: 0.0051
         104/
                     | d_loss: 0.0080
                                         g_loss: 7.2668
Epoch [
               250]
Epoch [
         104/
               250] | d loss: 0.0559
                                         g loss: 6.5134
         104/
Epoch [
               250] | d loss: 0.3465
                                         g_loss: 5.5087
Epoch [
         104/
                       d loss: 0.1529
               250]
                                         g loss: 5.9151
                                         g_loss: 6.5466
Epoch [
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               250]
                    d_loss: 0.0842
Epoch [
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               250]
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                                         g loss: 4.9284
         104/
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Epoch [
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Epoch [
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Epoch [
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                                         g loss: 7.4233
Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
Epoch [
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Epoch [
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                     1
Epoch [
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Epoch [
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Epoch [
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                                         g_loss: 4.6647
Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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```

```
250] | d loss: 0.0930 |
Epoch [
         106/
                                         g loss: 8.6688
         106/
                    | d loss: 0.0229
Epoch [
               250]
                                         g loss: 5.5887
                                         g_loss: 6.5764
Epoch [
         106/
               250] | d_loss: 0.1253
Epoch [
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                                         g loss: 3.1042
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                                         g_loss: 11.8631
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Epoch [
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Epoch [
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Epoch [
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                                         g_loss: 6.9869
Epoch [
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Epoch [
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                    d loss: 0.0366
                                         g loss: 5.4720
Epoch [
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                                         g loss: 7.0417
Epoch [
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                       d loss: 0.0822
                                         g loss: 4.1764
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Epoch [
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                                         g_loss: 5.7935
Epoch [
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                                         g loss: 6.3901
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                                         g_loss: 6.7041
Epoch [
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Epoch [
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Epoch [
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                    | d loss: 0.0086
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                                         g loss: 6.0410
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                       d loss: 0.4271
                                         g loss: 6.2393
Epoch [
         108/
               250]
                       d_loss: 0.1448
                                         g_loss: 5.1238
Epoch [
         108/
               250] |
                       d loss: 0.0341
                                         g_loss: 5.7321
         108/
Epoch [
               250]
                       d_loss: 0.0222
                                         g_loss: 6.8050
Epoch [
         108/
               250] | d loss: 0.1991 | g loss: 5.9166
```

```
250] | d loss: 0.0144 |
Epoch [
         108/
                                         g loss: 8.3172
         108/
                      d loss: 0.0126
Epoch [
               250]
                                         g loss: 9.5849
                                         g_loss: 5.6267
Epoch [
         108/
               250] | d_loss: 0.0634
Epoch [
         108/
               250] | d loss: 0.0231
                                         g loss: 5.4899
         108/
                       d_loss: 0.0287
Epoch [
               250]
                                         g_loss: 5.2871
Epoch [
         108/
               250]
                     d loss: 0.0283
                                         g loss: 4.7778
Epoch [
         108/
               250]
                     | d loss: 0.0915
                                         g loss: 8.1112
Epoch [
         108/
               250] | d loss: 0.0229
                                         g_loss: 7.9829
Epoch [
         108/
               250]
                     d_loss: 0.1148
                                         g_loss: 7.9470
         108/
                      d_loss: 0.0444
                                         g_loss: 3.7924
Epoch [
               250]
                     108/
               250]
                       d loss: 0.0041
                                         g loss: 5.6882
Epoch [
                    Epoch [
         108/
               250]
                       d loss: 0.0535
                                         g_loss: 8.2001
Epoch [
         108/
               250]
                       d loss: 0.0172
                                         g loss: 7.9398
Epoch [
         108/
               250]
                       d_loss: 0.0192
                                         g_loss: 7.0778
         108/
Epoch [
               250] | d loss: 0.0132
                                         g_loss: 6.9548
         108/
                       d_loss: 0.0086
                                         g_loss: 10.4874
Epoch [
               250]
Epoch [
         108/
               250]
                      d loss: 0.0150
                                         g loss: 5.4963
                     1
Epoch [
         108/
               250]
                    d loss: 0.0995
                                         g loss: 7.0703
         108/
                     | d loss: 0.0718
                                         g_loss: 4.9023
Epoch [
               250]
         108/
Epoch [
               250]
                       d_loss: 0.1087
                                         g_loss: 4.2506
         108/
                     | d_loss: 0.0191
                                         g_loss: 5.2835
Epoch [
               250]
Epoch [
         109/
               250] | d loss: 2.8936
                                         g loss: 1.1932
         109/
Epoch [
               250] | d loss: 0.0272
                                         g_loss: 5.6955
Epoch [
         109/
                       d loss: 0.2278
                                         g loss: 7.4036
               250]
Epoch [
         109/
               250]
                     d_loss: 0.0057
                                         g_loss: 7.1840
Epoch [
         109/
               250]
                     d loss: 0.0970
                                         g_loss: 5.6591
         109/
                       d_loss: 0.0294
Epoch [
               250]
                                         g_loss: 6.9369
Epoch [
         109/
               250]
                      d loss: 0.0563
                                         g loss: 7.9570
Epoch [
         109/
               250]
                     | d loss: 0.0521
                                         g loss: 7.2446
Epoch [
         109/
               250] | d loss: 0.0167
                                         g_loss: 6.0739
         109/
                       d_loss: 0.0207
Epoch [
               250]
                     1
                                         g_loss: 8.0616
         109/
                     d_loss: 0.0097
                                         g_loss: 4.0367
Epoch [
               250]
Epoch [
         109/
               250]
                    d loss: 0.0463
                                         g loss: 5.2800
Epoch [
         109/
               250]
                       d loss: 0.1182
                                         g_loss: 9.1640
         109/
Epoch [
               250]
                      d loss: 0.0120
                                         g loss: 6.2699
Epoch [
         109/
               250]
                     d_loss: 0.0059
                                         g_loss: 6.3058
         109/
Epoch [
               250]
                    | d loss: 0.0143
                                         g_loss: 6.9577
         109/
                       d_loss: 0.0065
                                         g_loss: 8.0818
Epoch [
               250]
Epoch [
         109/
               250]
                      d loss: 0.0228
                                         g loss: 4.8345
                     1
         109/
               250]
                    d loss: 0.0294
                                         g loss: 7.2044
Epoch [
         109/
                     | d loss: 0.1212
                                         g_loss: 7.5163
Epoch [
               250]
         109/
Epoch [
               250]
                     | d_loss: 0.3597
                                         g_loss: 8.0354
         109/
                     d_loss: 0.6378
                                         g_loss: 9.5777
Epoch [
               250]
Epoch [
         109/
               250]
                    | d loss: 0.0485
                                         g loss: 6.4943
Epoch [
         109/
               250] | d loss: 0.0684
                                         g_loss: 5.9551
Epoch [
         109/
                       d loss: 0.0128
               250]
                     1
                                         g loss: 4.9362
Epoch [
         109/
               250]
                    | d_loss: 0.3430
                                         g_loss: 6.5614
Epoch [
         109/
               250]
                     d loss: 0.0064
                                         g loss: 5.8432
Epoch [
         109/
               250]
                       d_loss: 0.1084
                                         g_loss: 8.4076
Epoch [
         109/
               250]
                      d loss: 0.0463
                                         g loss: 9.8364
Epoch [
         110/
               250]
                      d loss: 0.0168
                                         g loss: 7.7219
Epoch [
         110/
               250] | d loss: 0.1452
                                         g_loss: 8.9103
                       d_loss: 0.0220
                                         g_loss: 7.0791
Epoch [
         110/
               250]
                     1
Epoch [
         110/
               250]
                     d_loss: 0.1404
                                         g_loss: 5.5799
         110/
               250]
                     d loss: 0.2381
                                         g loss: 5.2593
Epoch [
Epoch [
         110/
               250]
                       d loss: 0.0809
                                         g_loss: 6.6002
         110/
Epoch [
               250]
                       d loss: 0.0895
                                         g loss: 7.6357
                                         g_loss: 5.0078
Epoch [
         110/
               250]
                       d_loss: 0.0287
Epoch [
         110/
               250] |
                       d loss: 0.0301
                                         g loss: 5.5759
Epoch [
         110/
               250]
                       d_loss: 0.0413
                                         g_loss: 7.5438
Epoch [
         110/
               250] | d loss: 0.1924 | g loss: 5.4302
```

```
250] | d loss: 0.0081 |
Epoch [
         110/
                                        g loss: 5.9239
         110/
               250] | d loss: 0.0011
Epoch [
                                        g loss: 5.9561
                                        g_loss: 6.5056
Epoch [
         110/
               250] | d_loss: 0.0098
Epoch [
         110/
               250] | d loss: 0.0475
                                        g loss: 5.7741
                    | d_loss: 0.0135
Epoch [
         110/
               250]
                                        g_loss: 5.8830
Epoch [
         110/
               250]
                    d loss: 0.0050
                                        g loss: 6.1910
Epoch [
         110/
               250]
                    | d loss: 0.0089
                                        g loss: 6.7634
Epoch [
         110/
               250] | d loss: 0.1651
                                        g_loss: 6.0971
Epoch [
         110/
               250]
                    d_loss: 0.0517
                                        g_loss: 4.8773
         110/
                    d_loss: 0.0767
                                        g_loss: 4.7453
Epoch [
               250]
         110/
               250]
                    d loss: 0.0526
                                        g loss: 6.4789
Epoch [
Epoch [
         110/
               250]
                    d loss: 0.9470
                                        g_loss: 1.8964
Epoch [
         110/
               250]
                    d loss: 0.0638
                                        g loss: 7.2073
Epoch [
         110/
               250]
                    d_loss: 0.0399
                                        g_loss: 6.7163
Epoch [
         110/
               250] | d loss: 0.0155
                                        g_loss: 4.2740
         110/
                      d_loss: 0.0345
                                        g_loss: 6.8915
Epoch [
               250] |
Epoch [
         110/
               250]
                      d loss: 0.0009
                                        g loss: 5.9384
                    1
Epoch [
         110/
               250]
                    d loss: 0.1740
                                        g loss: 6.7879
                                        g_loss: 7.0931
         111/
               250]
                    d loss: 0.0842
Epoch [
Epoch [
         111/
               250]
                    | d_loss: 0.0110
                                        g_loss: 7.1103
         111/
                    d_loss: 0.0543
                                        g_loss: 5.7334
Epoch [
               250]
Epoch [
         111/
               250] | d loss: 0.0248
                                        g loss: 7.9990
Epoch [
         111/
               250] | d loss: 0.0023
                                        g loss: 8.0466
Epoch [
         111/
                      d loss: 0.2173
               250]
                    1
                                        g loss: 8.4620
Epoch [
         111/
               250]
                    | d_loss: 0.0290 |
                                        g_loss: 6.8284
Epoch [
         111/
               250]
                    d loss: 0.2998
                                        g loss: 3.6915
                      d_loss: 0.0200
Epoch [
         111/
               250]
                                        g_loss: 5.8463
Epoch [
         111/
               250]
                    d loss: 0.0915
                                        g loss: 7.1155
Epoch [
         111/
               250]
                    | d loss: 0.0268
                                        g loss: 8.3906
         111/
               250] | d loss: 0.0077
                                        g_loss: 7.6687
Epoch [
         111/
                      d_loss: 0.0440
                                        g_loss: 6.5976
Epoch [
               250]
                    d_loss: 0.0831
                                        g_loss: 6.9725
Epoch [
         111/
               250]
                                        g_loss: 7.7297
Epoch [
         111/
               250]
                    d loss: 0.0249
Epoch [
         111/
               250]
                    d loss: 0.0267
                                        g_loss: 7.1205
         111/
Epoch [
               250]
                    | d loss: 0.2697
                                        g loss: 10.6232
Epoch [
         111/
               250]
                    d_loss: 0.0249
                                        g_loss: 5.1074
Epoch [
         111/
               250]
                    d loss: 0.0274
                                        g loss: 7.2380
         111/
                      d_loss: 0.0135
                                        g_loss: 4.5467
Epoch [
               250]
                    Epoch [
         111/
               250]
                      d loss: 0.0164
                                        g loss: 7.5788
                    1
         111/
               250]
                    d loss: 0.0342
                                        g loss: 4.8423
Epoch [
         111/
               250]
                    | d loss: 0.0071
                                        g_loss: 6.1969
Epoch [
Epoch [
         111/
               250]
                    | d_loss: 0.0334
                                        g_loss: 5.0917
         111/
                    d_loss: 0.0693
                                        g_loss: 8.6462
Epoch [
               250]
         111/
               250]
                    d loss: 2.8999
                                        g loss: 5.3338
Epoch [
Epoch [
         111/
               250] | d loss: 0.0894
                                        g loss: 2.8680
Epoch [
         111/
                      d loss: 0.0342
               250]
                    1
                                        g loss: 7.5646
Epoch [
         111/
               250]
                    | d_loss: 0.1700
                                        g_loss: 2.9718
Epoch [
         112/
               250]
                    d loss: 0.0233
                                        g loss: 7.5784
Epoch [
         112/
               250]
                      d_loss: 0.3123
                                        g_loss: 10.3938
Epoch [
         112/
               250]
                    d loss: 0.0336
                                        g loss: 5.6135
Epoch [
         112/
               250]
                    d loss: 0.0217
                                        g loss: 5.6965
         112/
               250] | d loss: 0.0341
                                        g_loss: 7.1213
Epoch [
         112/
                      d_loss: 0.0077
                                        g_loss: 8.1422
Epoch [
               250]
                    1
                                        g_loss: 12.4442
Epoch [
         112/
               250]
                    d_loss: 0.0347
         112/
               250]
                    | d loss: 0.1150
                                        g loss: 6.6916
Epoch [
Epoch [
         112/
               250]
                    d loss: 0.2087
                                        g_loss: 10.7899
         112/
Epoch [
               250]
                      d loss: 0.0264
                                        g loss: 5.8433
                                        g_loss: 8.0254
Epoch [
         112/
               250]
                    d_loss: 0.0158
Epoch [
         112/
               250] | d loss: 0.4609
                                        g_loss: 4.2874
Epoch [
         112/
               250]
                      d_loss: 0.0111
                                        g_loss: 5.5741
Epoch [
         112/
               250] | d loss: 0.0209 | g loss: 4.9216
```

```
250] | d loss: 0.0377 |
Epoch [
         112/
                                        g loss: 6.5731
Epoch [
         112/
               250] | d loss: 0.0120
                                        g loss: 7.4289
                                        g_loss: 8.3291
Epoch [
         112/
               250] | d_loss: 0.0725
Epoch [
         112/
               250] | d loss: 0.1198
                                        g loss: 9.7321
         112/
                      d_loss: 0.1475
Epoch [
               250]
                                        g_loss: 8.9512
Epoch [
         112/
               250]
                    d loss: 0.2934
                                        g loss: 3.4784
Epoch [
         112/
               250]
                    | d loss: 0.0885
                                        g loss: 9.0044
Epoch [
         112/
               250] | d loss: 0.2493
                                        g_loss: 5.6905
Epoch [
         112/
               250]
                    d_loss: 0.0324
                                        g_loss: 7.0618
         112/
                    d_loss: 0.0891
                                        g_loss: 6.7880
Epoch [
               250]
                                        g_loss: 8.8072
Epoch [
         112/
               250]
                    | d loss: 0.0361
Epoch [
         112/
               250]
                    d loss: 0.0207
                                        g_loss: 7.0789
Epoch [
         112/
               250]
                      d loss: 0.0059
                                        g loss: 9.4115
Epoch [
         112/
               250]
                    d_loss: 0.0365
                                        g_loss: 7.1553
Epoch [
         112/
               250] | d loss: 0.1255
                                        g loss: 6.9440
         113/
                      d_loss: 0.0135
                                        g_loss: 9.1877
Epoch [
               250]
                    Epoch [
         113/
               250]
                      d loss: 0.0064
                                        g loss: 6.9732
                    1
Epoch [
         113/
               250]
                    d loss: 0.0832
                                        g loss: 7.9697
                                        g_loss: 10.1077
         113/
               250]
                    | d loss: 0.0419
Epoch [
Epoch [
         113/
               250]
                    | d_loss: 0.0315
                                        g_loss: 7.7017
         113/
                    | d_loss: 0.0172
                                        g_loss: 5.7266
Epoch [
               250]
Epoch [
         113/
               250] | d loss: 0.0267
                                        g loss: 6.6191
Epoch [
         113/
               250] | d loss: 0.1741
                                        g loss: 6.2428
Epoch [
         113/
                      d loss: 1.7685
               250]
                    1
                                        g loss: 1.6621
Epoch [
         113/
               250]
                    | d_loss: 0.0616 |
                                        g_loss: 5.4217
Epoch [
         113/
               250]
                    d loss: 0.1082
                                        g loss: 4.7276
                      d_loss: 0.0432
Epoch [
         113/
               250]
                                        g_loss: 6.5331
Epoch [
         113/
               250]
                    d loss: 0.1851
                                        g loss: 5.0916
Epoch [
         113/
               250]
                    d loss: 0.4861
                                        g loss: 1.1225
               250] | d_loss: 0.1306
         113/
                                        g_loss: 7.1590
Epoch [
                      d_loss: 0.1319
                                        g_loss: 5.8579
Epoch [
         113/
               250]
                    1
                    d_loss: 0.1568
                                        g_loss: 6.5342
Epoch [
         113/
               250]
                                        g_loss: 7.4706
Epoch [
         113/
               250]
                    | d loss: 0.0392
Epoch [
         113/
               250]
                    d loss: 0.2835
                                        g_loss: 4.2229
         113/
Epoch [
               250]
                    | d loss: 0.0243
                                        g loss: 6.5748
Epoch [
         113/
               250]
                    d_loss: 0.2546
                                        g_loss: 4.9145
Epoch [
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               250]
                    | d loss: 0.1565
                                        g loss: 4.5119
         113/
                      d_loss: 0.1486
                                        g_loss: 4.5925
Epoch [
               250]
                    Epoch [
         113/
               250]
                      d loss: 0.1246
                                        g loss: 6.1948
                    1
         113/
               250]
                    d loss: 0.0833
                                        g loss: 6.1001
Epoch [
                                        g_loss: 5.6003
         113/
               250]
                    | d loss: 0.0347
Epoch [
Epoch [
         113/
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                    | d_loss: 0.0260
                                        g_loss: 8.7667
         113/
                    d_loss: 0.1525
                                        g_loss: 8.0361
Epoch [
               250]
Epoch [
         113/
               250]
                    d loss: 0.0089
                                        g loss: 8.6131
Epoch [
         114/
               250] | d loss: 0.0234
                                        g loss: 4.6481
Epoch [
         114/
                      d loss: 0.0310
                                        g loss: 7.0553
               250]
                    1
                                        g_loss: 6.8057
Epoch [
         114/
               250]
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Epoch [
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               250]
                    d loss: 0.0145
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Epoch [
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               250]
                      d_loss: 0.0213
                                        g_loss: 6.8454
Epoch [
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               250]
                      d loss: 0.1008
                                        g loss: 6.3676
Epoch [
         114/
               250]
                    d loss: 0.1120
                                        g loss: 6.1583
Epoch [
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               250] | d loss: 0.0021
                                        g_loss: 7.6079
                                        g_loss: 8.6424
         114/
                      d_loss: 0.0343
Epoch [
               250]
                    1
Epoch [
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               250]
                    d_loss: 0.0199
                                        g_loss: 7.8973
         114/
               250]
                    d loss: 0.0625
                                        g loss: 5.5927
Epoch [
Epoch [
         114/
               250]
                    d loss: 0.0084
                                        g_loss: 8.5031
         114/
Epoch [
               250]
                      d loss: 0.0266
                                        g loss: 6.7735
                                        g_loss: 6.2847
Epoch [
         114/
               250]
                    d_loss: 0.0172
Epoch [
         114/
               250] | d loss: 0.0761
                                        g loss: 9.6497
Epoch [
         114/
               250]
                      d_loss: 0.0010 |
                                        g_loss: 10.6720
Epoch [
         114/
               250] | d loss: 0.0753 | g loss: 5.9025
```

```
250] | d loss: 0.0044 |
Epoch [
         114/
                                        g loss: 8.2986
Epoch [
         114/
               250] | d loss: 0.0606
                                        g loss: 6.2270
                                        g_loss: 5.0788
Epoch [
         114/
               250] | d_loss: 0.2047
Epoch [
         114/
               250] | d loss: 0.0175
                                        g loss: 8.1098
         114/
                      d_loss: 0.0619
Epoch [
               250]
                                        g_loss: 6.9319
Epoch [
         114/
               250]
                    d loss: 0.7027
                                        g loss: 4.6363
Epoch [
         114/
               250]
                    | d loss: 0.1863
                                        g loss: 5.5867
Epoch [
         114/
               250] | d loss: 0.0532
                                        g_loss: 6.0157
Epoch [
         114/
               250]
                    d_loss: 0.0346
                                        g_loss: 6.4129
         114/
                    d_loss: 0.2681
                                        g_loss: 5.4177
Epoch [
               250]
         114/
               250]
                    d loss: 0.1492
                                        g loss: 8.8589
Epoch [
Epoch [
         114/
               250]
                    d loss: 0.3741
                                        g_loss: 8.4150
Epoch [
         115/
               250]
                      d loss: 1.6523
                                        g loss: 12.9557
Epoch [
         115/
               250]
                    d_loss: 0.0953
                                        g_loss: 4.8225
Epoch [
         115/
               250] | d loss: 0.0171
                                        g loss: 5.4103
         115/
                      d_loss: 0.1724
                                        g_loss: 5.2992
Epoch [
               250]
                    Epoch [
         115/
               250]
                      d loss: 0.0495
                                        g loss: 3.8242
                    1
Epoch [
         115/
               250]
                    d loss: 0.0252
                                        g loss: 5.1373
                                        g_loss: 7.4007
         115/
               250]
                    | d loss: 0.0542
Epoch [
Epoch [
         115/
               250]
                    | d_loss: 0.0060
                                        g_loss: 7.0966
         115/
                    d_loss: 0.0034
                                        g_loss: 3.5897
Epoch [
               250]
         115/
               250] | d loss: 0.0705
                                        g loss: 3.5751
Epoch [
Epoch [
         115/
               250] | d loss: 0.0108
                                        g loss: 7.6829
Epoch [
         115/
                      d loss: 0.0369
               250]
                    1
                                        g loss: 6.5948
Epoch [
         115/
               250]
                    | d_loss: 0.1663 |
                                        g_loss: 4.8149
Epoch [
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               250]
                    d loss: 0.0723
                                        g loss: 8.6002
         115/
                      d_loss: 0.1023
Epoch [
               250]
                                        g_loss: 7.6350
Epoch [
         115/
               250]
                    d loss: 0.0057
                                        g loss: 7.3294
Epoch [
         115/
               250]
                    d loss: 0.0304
                                        g loss: 7.4889
         115/
               250] | d loss: 0.0334
                                        g_loss: 6.8835
Epoch [
                      d_loss: 0.0013
                                        g_loss: 10.2747
Epoch [
         115/
               250]
                    115/
                    | d_loss: 0.0163 |
                                        g_loss: 6.5273
Epoch [
               250]
                                        g_loss: 10.6904
Epoch [
         115/
               250]
                    d loss: 0.3630
Epoch [
         115/
               250]
                    d loss: 0.0481
                                        g_loss: 5.6170
         115/
                    d loss: 1.8287
Epoch [
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                                        g loss: 15.1236
Epoch [
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                                        g_loss: 4.7141
Epoch [
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                    | d loss: 0.1197
                                        g loss: 7.2217
         115/
                      d_loss: 0.0285
                                        g_loss: 9.2342
Epoch [
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                    Epoch [
         115/
               250]
                      d loss: 0.0190
                                        g loss: 5.8119
                    1
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               250]
                    d loss: 0.1041
                                        g loss: 7.5961
Epoch [
                                        g_loss: 6.9730
         115/
                    | d loss: 0.2712
Epoch [
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Epoch [
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                                        g_loss: 7.0087
         116/
                    d_loss: 0.0748
                                        g_loss: 5.9778
Epoch [
               250]
         116/
               250]
                    d loss: 0.2506
                                        g loss: 7.9046
Epoch [
Epoch [
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                                        g loss: 7.3654
Epoch [
         116/
                      d loss: 0.0651
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                    1
                                        g loss: 9.0100
Epoch [
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Epoch [
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Epoch [
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               250]
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                                        g_loss: 5.2230
Epoch [
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               250]
                    d loss: 0.0202
                                        g loss: 9.1608
Epoch [
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               250]
                    d loss: 0.0861
                                        g loss: 5.7111
         116/
               250] | d loss: 0.0156
                                        g_loss: 7.9760
Epoch [
                      d_loss: 0.0054
                                        g_loss: 7.3013
Epoch [
         116/
               250]
                    1
Epoch [
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                    d_loss: 0.0059
                                        g_loss: 9.3602
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                                        g loss: 6.7567
Epoch [
Epoch [
         116/
               250]
                    d loss: 0.4212
                                        g_loss: 10.8202
         116/
Epoch [
               250]
                      d loss: 0.0822
                                        g loss: 5.0137
Epoch [
         116/
               250]
                    d_loss: 0.1865
                                        g_loss: 7.1492
Epoch [
         116/
               250] | d loss: 0.0765
                                        g_loss: 7.1108
Epoch [
         116/
               250] |
                      d_loss: 0.0619 |
                                        g_loss: 5.4468
Epoch [
         116/
               250] | d loss: 0.0026 | g loss: 7.8216
```

```
250] | d loss: 0.0844 |
Epoch [
         116/
                                         g loss: 6.2958
         116/
                    | d loss: 0.1853
Epoch [
               250]
                                         g loss: 7.4815
                                         g_loss: 6.9549
Epoch [
         116/
               250] | d_loss: 0.0513
Epoch [
         116/
               250] | d loss: 0.0028
                                         g loss: 4.5185
                       d_loss: 0.0394
Epoch [
         116/
               250]
                                         g_loss: 8.0288
Epoch [
         116/
               250]
                     d loss: 0.0068
                                         g loss: 5.0970
Epoch [
         116/
               250]
                     | d loss: 0.3902
                                         g loss: 2.1021
Epoch [
         116/
               250] | d loss: 0.0409
                                         g_loss: 7.4633
Epoch [
         116/
               250]
                     d_loss: 0.0147
                                         g_loss: 6.5477
         117/
                     d_loss: 0.0887
                                         g_loss: 8.6355
Epoch [
               250]
         117/
               250]
                    d loss: 0.1043
                                         g loss: 9.0102
Epoch [
Epoch [
         117/
               250]
                       d loss: 0.1591
                                         g_loss: 6.0651
Epoch [
         117/
               250]
                       d loss: 0.1583
                                         g loss: 5.8272
Epoch [
         117/
               250]
                      d_loss: 0.1112
                                         g_loss: 7.4973
Epoch [
         117/
               250]
                    | d loss: 0.0013
                                         g_loss: 8.1965
         117/
                       d_loss: 0.0268
                                         g_loss: 8.0122
Epoch [
               250]
Epoch [
         117/
               250]
                      d loss: 0.0156
                                         g loss: 7.5763
                     1
Epoch [
         117/
               250]
                    d loss: 0.0114
                                         g loss: 6.1149
                                         g_loss: 6.7601
         117/
                     d loss: 0.0033
Epoch [
               250]
Epoch [
         117/
               250]
                     | d_loss: 0.1075
                                         g_loss: 5.4930
         117/
                     d_loss: 0.1492
                                         g_loss: 9.6226
Epoch [
               250]
         117/
               250]
                    d loss: 0.0038
                                         g loss: 6.8853
Epoch [
Epoch [
         117/
               250] | d loss: 0.0691
                                         g_loss: 6.8246
Epoch [
         117/
                       d loss: 0.0300
               250]
                     1
                                         g loss: 5.2709
                                         g_loss: 6.5175
Epoch [
         117/
               250]
                     | d_loss: 0.0046
Epoch [
         117/
               250]
                     d loss: 0.0273
                                         g loss: 7.9615
         117/
                       d_loss: 0.0847
Epoch [
               250]
                                         g_loss: 7.7845
Epoch [
         117/
               250]
                      d loss: 0.1088
                                         g loss: 9.8468
Epoch [
         117/
               250]
                     | d loss: 0.0013
                                         g loss: 8.2300
         117/
               250] | d loss: 0.1270
                                         g_loss: 7.0428
Epoch [
         117/
                       d_loss: 0.0520
                                         g_loss: 5.7727
Epoch [
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                     1
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                                         g_loss: 7.4488
Epoch [
               250]
Epoch [
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               250]
                    | d loss: 0.0058
                                         g loss: 6.7381
Epoch [
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                                         g_loss: 6.7869
         117/
Epoch [
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                                         g loss: 5.0707
Epoch [
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                                         g_loss: 6.0459
Epoch [
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                    | d loss: 0.0627
                                         g_loss: 8.7622
         117/
                       d_loss: 0.0188
                                         g_loss: 6.8962
Epoch [
               250]
Epoch [
         118/
               250]
                      d loss: 0.1422
                                         g loss: 3.8909
                     1
         118/
               250]
                    | d loss: 0.2599
                                         g loss: 3.4581
Epoch [
                                         g_loss: 6.7637
         118/
                     d loss: 0.0041
Epoch [
               250]
Epoch [
         118/
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                     | d_loss: 0.0803
                                         g_loss: 7.5948
         118/
                     | d_loss: 0.0325
                                         g_loss: 7.3307
Epoch [
               250]
         118/
               250]
                    | d loss: 0.1726
                                         g loss: 5.2629
Epoch [
Epoch [
         118/
               250] | d loss: 0.0143
                                         g loss: 5.7879
Epoch [
         118/
                       d loss: 0.0175
               250]
                     1
                                         g loss: 8.0720
Epoch [
         118/
               250]
                     | d_loss: 0.0336
                                         g_loss: 7.5815
Epoch [
         118/
               250]
                     d loss: 0.1615
                                         g loss: 8.1303
Epoch [
         118/
               250]
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                                         g_loss: 6.0743
Epoch [
         118/
               250]
                      d loss: 0.0368
                                         g loss: 7.4276
Epoch [
         118/
               250]
                      d loss: 0.2290
                                         g loss: 7.0583
Epoch [
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                                         g_loss: 8.0804
                       d_loss: 0.0264
Epoch [
         118/
               250]
                     1
                                         g_loss: 7.5564
Epoch [
         118/
               250]
                     d_loss: 0.0115
                                         g_loss: 7.2070
         118/
               250]
                     | d loss: 0.2111
                                         g loss: 8.1622
Epoch [
Epoch [
         118/
               250]
                       d loss: 0.1670
                                         g_loss: 5.4845
         118/
Epoch [
               250]
                       d loss: 0.0034
                                         g loss: 3.3099
                                         g_loss: 4.3955
Epoch [
         118/
               250]
                       d_loss: 0.0243
Epoch [
         118/
               250] | d loss: 0.0261
                                         g loss: 7.3500
Epoch [
         118/
               250]
                       d_loss: 0.0126 |
                                         g_loss: 5.6991
Epoch [
         118/
               250] | d loss: 0.3287 | g loss: 1.8492
```

```
250] | d loss: 0.0103 |
Epoch [
         118/
                                        g loss: 9.4254
         118/
               250] | d loss: 0.1902
Epoch [
                                         g loss: 4.6943
                                         g_loss: 6.0708
Epoch [
         118/
               250] | d_loss: 0.1144
Epoch [
         118/
               250] | d loss: 0.2759
                                         g loss: 3.6758
                      d_loss: 0.2251
Epoch [
         118/
               250]
                                         g_loss: 9.2914
Epoch [
         118/
               250]
                     d loss: 0.0052
                                         g loss: 7.3742
Epoch [
         119/
               250]
                    | d loss: 0.2198
                                         g loss: 8.2616
Epoch [
         119/
               250] | d loss: 0.0507
                                         g_loss: 4.2176
Epoch [
         119/
               250]
                    d_loss: 0.1589
                                         g_loss: 5.9190
         119/
                    d_loss: 0.2692
                                         g_loss: 4.2063
Epoch [
               250]
Epoch [
         119/
               250]
                    d loss: 0.0386
                                         g loss: 6.8152
Epoch [
         119/
               250]
                     | d loss: 0.0186
                                         g_loss: 6.2161
Epoch [
         119/
               250]
                      d loss: 0.0129
                                         g loss: 6.6468
Epoch [
         119/
               250]
                     d_loss: 1.3238
                                         g_loss: 15.2808
Epoch [
         119/
               250] | d loss: 0.0338
                                         g_loss: 8.1756
         119/
                      d_loss: 0.0367
                                         g_loss: 6.8514
Epoch [
               250]
Epoch [
         119/
               250]
                      d loss: 0.0100
                                         g loss: 9.1620
                     1
Epoch [
         119/
               250]
                    | d loss: 0.0100
                                         g loss: 7.6773
                                        g_loss: 7.6397
         119/
               250]
                     d loss: 0.0077
Epoch [
Epoch [
         119/
               250]
                      d_loss: 0.0577
                                         g_loss: 4.8378
         119/
                     d_loss: 0.0624
                                         g_loss: 6.6682
Epoch [
               250]
Epoch [
         119/
               250] | d loss: 0.0438
                                         g loss: 6.7202
Epoch [
         119/
               250] | d loss: 0.2979
                                         g_loss: 7.4848
Epoch [
         119/
                      d loss: 0.0547
                                         g loss: 6.4272
               250]
Epoch [
         119/
               250]
                    d_loss: 0.0477
                                         g_loss: 8.6249
Epoch [
         119/
               250]
                     d loss: 0.0771
                                         g loss: 6.5649
         119/
                      d_loss: 0.0103
Epoch [
               250]
                                         g_loss: 8.0327
Epoch [
         119/
               250]
                      d loss: 1.1147
                                         g loss: 0.8201
Epoch [
         119/
               250]
                    | d loss: 0.0308
                                         g loss: 7.3850
         119/
               250] | d loss: 0.2234
                                         g_loss: 4.5441
Epoch [
         119/
                      d_loss: 0.1018
                                         g_loss: 7.3912
Epoch [
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                     1
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                                         g_loss: 4.1095
Epoch [
               250]
                                         g_loss: 7.7203
Epoch [
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Epoch [
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                                         g loss: 5.4997
Epoch [
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Epoch [
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                                         g_loss: 3.8951
Epoch [
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                    d loss: 0.0149
                                         g loss: 9.1968
         120/
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                                         g_loss: 9.7695
Epoch [
               250]
Epoch [
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                                         g loss: 8.9864
                     1
         120/
               250]
                    d loss: 0.0980
                                         g loss: 6.9555
Epoch [
                                         g_loss: 9.2935
         120/
                    | d loss: 0.0214
Epoch [
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         120/
                     | d loss: 0.0707
Epoch [
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                                         g_loss: 4.5024
         120/
                     d_loss: 0.2050
                                         g_loss: 5.0539
Epoch [
               250]
Epoch [
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               250]
                    | d loss: 0.0215
                                         g loss: 4.4001
Epoch [
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               250] | d loss: 0.0130
                                         g loss: 7.3665
Epoch [
         120/
                      d loss: 0.0513
               250]
                     1
                                         g loss: 8.2499
Epoch [
         120/
               250]
                    | d_loss: 0.0394
                                         g_loss: 6.9747
Epoch [
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               250]
                     d loss: 0.1328
                                         g loss: 7.3494
Epoch [
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               250]
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                                         g_loss: 9.6796
Epoch [
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               250]
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                                         g loss: 5.6817
Epoch [
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               250]
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                                         g loss: 7.9522
Epoch [
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         120/
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                                         g_loss: 5.3197
Epoch [
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                     1
Epoch [
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Epoch [
Epoch [
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         120/
Epoch [
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                      d loss: 0.3246
                                         g loss: 7.8757
                      d_loss: 0.0237
                                        g_loss: 8.7768
Epoch [
         120/
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Epoch [
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               250] | d loss: 0.0042
                                        g loss: 7.4362
Epoch [
         120/
               250]
                      d_loss: 0.1101 |
                                        g_loss: 4.8720
Epoch [
         120/
               250] | d loss: 0.1572 | g loss: 7.0405
```

```
250] | d loss: 0.0597 |
Epoch [
         120/
                                        g loss: 7.7361
Epoch [
         120/
               250] | d loss: 0.0297
                                        g loss: 7.5366
                                        g_loss: 5.8995
Epoch [
         120/
               250] | d_loss: 0.0732
Epoch [
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                                        g loss: 8.7304
         121/
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Epoch [
               250]
                                        g_loss: 7.0051
Epoch [
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               250]
                    d loss: 0.0568
                                        g loss: 7.7498
Epoch [
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               250]
                    | d loss: 0.0425
                                        g loss: 4.8010
Epoch [
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                                        g loss: 7.1781
Epoch [
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                    d_loss: 0.0271
                                        g_loss: 7.5364
         121/
                    d_loss: 0.1202
                                        g_loss: 7.3743
Epoch [
               250]
Epoch [
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               250]
                    | d loss: 0.1010
                                        g loss: 7.6332
Epoch [
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                                        g_loss: 6.7689
Epoch [
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                                        g loss: 8.5836
Epoch [
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                                        g_loss: 3.4025
Epoch [
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                                        g loss: 6.3083
         121/
                      d_loss: 0.7011
                                        g_loss: 12.2958
Epoch [
               250]
Epoch [
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                      d loss: 0.0906
                                        g loss: 6.5053
                    1
Epoch [
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                    | d loss: 0.0300
                                        g loss: 5.4165
                                        g_loss: 3.6083
         121/
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                    d loss: 0.1135
Epoch [
         121/
Epoch [
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                    | d_loss: 0.0873
                                        g_loss: 7.0743
         121/
                    d_loss: 0.0200
                                        g_loss: 7.9764
Epoch [
               250]
Epoch [
         121/
               250] | d loss: 0.0280
                                        g loss: 4.4871
Epoch [
         121/
               250] | d loss: 0.0164
                                        g loss: 7.6409
Epoch [
         121/
                      d loss: 0.0060
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                    1
                                        g loss: 5.3186
Epoch [
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                    | d_loss: 0.0601
                                        g_loss: 6.2130
Epoch [
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                    d loss: 0.0035
                                        g loss: 9.5982
         121/
                      d_loss: 0.0562
Epoch [
               250]
                                        g_loss: 8.0317
Epoch [
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               250]
                    d loss: 0.0293
                                        g loss: 6.7563
Epoch [
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               250]
                    | d loss: 0.0426
                                        g loss: 6.1891
         121/
               250] | d loss: 0.0484
                                        g_loss: 7.7666
Epoch [
         121/
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Epoch [
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                    g_loss: 6.3040
         121/
                    d_loss: 0.0195
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                                        g loss: 8.8593
Epoch [
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                                        g_loss: 7.5963
Epoch [
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Epoch [
               250]
Epoch [
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                                        g loss: 8.1759
                    1
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                    d loss: 0.0059
                                        g loss: 8.9583
Epoch [
                                        g_loss: 6.0364
         122/
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Epoch [
         122/
Epoch [
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                    d_loss: 0.3673
                                        g_loss: 5.4454
Epoch [
               250]
Epoch [
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               250]
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                                        g loss: 7.1084
Epoch [
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Epoch [
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                    1
Epoch [
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Epoch [
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                                        g loss: 7.5488
Epoch [
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Epoch [
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                                        g loss: 8.1801
Epoch [
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               250]
                    d loss: 0.0150
                                        g loss: 9.3158
         122/
               250] | d loss: 0.0041
                                        g_loss: 8.9454
Epoch [
         122/
                      d_loss: 0.0401
                                        g_loss: 7.3558
Epoch [
               250]
                    Epoch [
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               250]
                    d_loss: 0.1212
                                        g_loss: 6.1492
                                        g_loss: 8.5291
         122/
               250]
                    | d loss: 0.0607
Epoch [
Epoch [
         122/
               250]
                    d loss: 0.3816
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         122/
Epoch [
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                                        g loss: 4.1917
                                        g_loss: 6.4244
Epoch [
         122/
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Epoch [
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                                        g loss: 7.1957
Epoch [
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               250]
                      d_loss: 0.0378 |
                                        g_loss: 8.3434
Epoch [
         122/
               250] | d loss: 0.1546 | g loss: 7.8794
```

```
250] | d loss: 0.0419 |
Epoch [
         123/
                                        g loss: 7.3286
         123/
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Epoch [
                                         g loss: 10.6583
                                         g_loss: 8.4212
Epoch [
         123/
               250] | d_loss: 0.0107
Epoch [
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                                         g loss: 9.5081
         123/
                       d_loss: 0.0210
Epoch [
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                                         g_loss: 5.6095
Epoch [
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                                         g loss: 6.4724
Epoch [
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               250]
                    | d loss: 0.3367
                                         g loss: 1.4275
Epoch [
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                                         g_loss: 8.6447
Epoch [
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                                        g_loss: 8.2568
         123/
                    d_loss: 0.0010
                                         g_loss: 8.0124
Epoch [
               250]
         123/
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                    | d loss: 0.0120
                                         g loss: 3.9016
Epoch [
Epoch [
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                     d loss: 0.0153
                                         g_loss: 9.0371
Epoch [
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                                         g loss: 7.4226
Epoch [
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                                         g_loss: 7.8471
Epoch [
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                                         g_loss: 4.8268
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                                         g_loss: 5.6590
Epoch [
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Epoch [
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                     1
Epoch [
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                                        g_loss: 7.2003
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                                         g loss: 7.9379
         123/
Epoch [
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                                         g_loss: 5.6277
Epoch [
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                       d loss: 0.4110
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                                         g loss: 4.3651
Epoch [
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Epoch [
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Epoch [
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                                         g loss: 7.7854
Epoch [
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                                        g_loss: 6.7577
Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                                         g loss: 6.3063
Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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         124/
Epoch [
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Epoch [
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                                         g loss: 7.3013
Epoch [
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Epoch [
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                                         g loss: 6.9641
Epoch [
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                                         g_loss: 5.5115
Epoch [
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               250]
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                                         g loss: 8.1304
Epoch [
         124/
               250]
                     d loss: 0.0111
                                         g loss: 9.2291
Epoch [
         124/
               250] | d loss: 1.1743
                                         g_loss: 9.9341
         124/
                       d_loss: 0.5099
Epoch [
               250]
                     1
                                         g_loss: 7.2101
Epoch [
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                                         g_loss: 5.8807
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               250]
                    d loss: 0.0959
                                         g loss: 6.6235
Epoch [
Epoch [
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               250]
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                                         g_loss: 6.7198
         124/
Epoch [
               250]
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                                         g loss: 4.3557
Epoch [
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               250]
                       d_loss: 0.0063
                                        g_loss: 7.8294
Epoch [
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         125/
Epoch [
               250]
                       d_loss: 0.1776 |
                                        g_loss: 3.8696
Epoch [
         125/
               250] | d loss: 0.1404 | g loss: 8.7504
```

```
250] | d loss: 0.1355 |
Epoch [
         125/
                                         g loss: 6.4507
         125/
               250] | d loss: 0.0568
Epoch [
                                         g loss: 8.6934
                                         g_loss: 6.0008
Epoch [
         125/
               250] | d_loss: 0.1471
Epoch [
         125/
               250] | d loss: 0.0184
                                         g loss: 7.6689
         125/
                       d_loss: 0.0183
Epoch [
               250]
                                         g_loss: 5.4242
Epoch [
         125/
               250]
                     d loss: 0.0870
                                         g loss: 5.9371
Epoch [
         125/
               250]
                    d loss: 0.0276
                                         g loss: 9.9955
               250] | d_loss: 0.0220
Epoch [
         125/
                                         g_loss: 5.6242
Epoch [
         125/
               250]
                    d_loss: 0.1252
                                         g_loss: 5.0808
         125/
                    d_loss: 0.0011
                                         g_loss: 7.3084
Epoch [
               250]
                                         g_loss: 7.7357
         125/
               250]
                    | d loss: 0.1003
Epoch [
Epoch [
         125/
               250]
                     d loss: 0.0540
                                         g_loss: 5.5476
Epoch [
         125/
               250]
                      d loss: 0.0145
                                         g loss: 5.5453
Epoch [
         125/
               250]
                     | d_loss: 0.0065
                                         g_loss: 6.2859
Epoch [
         125/
               250] | d loss: 0.0129
                                         g_loss: 6.3563
         125/
                       d_loss: 0.0083
                                         g_loss: 8.3480
Epoch [
               250]
Epoch [
         125/
               250]
                      d loss: 0.0184
                                         g loss: 6.7949
                     1
Epoch [
         125/
               250]
                    d loss: 0.0038
                                         g loss: 7.4558
         125/
               250]
                     d loss: 0.0278
                                         g_loss: 5.6473
Epoch [
         125/
Epoch [
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                     | d_loss: 0.0317
                                         g_loss: 6.4651
         125/
                     d_loss: 0.0607
                                         g_loss: 7.0514
Epoch [
               250]
Epoch [
         125/
               250] | d loss: 0.0259
                                         g loss: 8.0351
Epoch [
         125/
               250] | d loss: 0.0136
                                         g loss: 8.2306
Epoch [
         125/
                       d loss: 0.0092
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                     1
                                         g loss: 13.5929
Epoch [
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               250]
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Epoch [
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                                         g loss: 6.0469
         126/
                       d_loss: 0.0836
Epoch [
               250]
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Epoch [
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                                         g loss: 6.3185
Epoch [
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                                         g loss: 6.1293
Epoch [
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                                         g_loss: 7.1993
         126/
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                                         g_loss: 6.8424
Epoch [
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                     1
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                                         g_loss: 12.5155
Epoch [
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Epoch [
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                                         g loss: 5.0202
Epoch [
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                                         g_loss: 5.9297
         126/
                                         g loss: 7.2104
Epoch [
               250]
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                     | d_loss: 0.0015
Epoch [
         126/
               250]
                                         g_loss: 8.3969
Epoch [
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               250]
                    | d loss: 0.0893
                                         g_loss: 9.0720
         126/
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                                         g_loss: 8.5128
Epoch [
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Epoch [
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                      d loss: 0.0032
                                         g loss: 9.9901
                     1
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               250]
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                                         g loss: 7.8968
Epoch [
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                    | d loss: 0.0142
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Epoch [
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         126/
Epoch [
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         126/
                     | d_loss: 0.0567
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                       d loss: 0.1321
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                     1
                                         g_loss: 8.2861
Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                                         g loss: 7.6631
Epoch [
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                                         g_loss: 6.1041
         126/
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                                         g_loss: 6.4197
Epoch [
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                     1
Epoch [
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                    d_loss: 0.0171
                                         g_loss: 5.9772
         126/
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                    | d loss: 0.0362
                                         g loss: 4.3242
Epoch [
Epoch [
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                     d loss: 0.0489
                                         g_loss: 6.8956
         127/
Epoch [
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                                         g loss: 7.0103
                                         g_loss: 4.0790
Epoch [
         127/
               250]
                       d_loss: 0.5267
Epoch [
         127/
               250] | d loss: 0.0488
                                         g loss: 6.3852
Epoch [
         127/
               250] |
                       d_loss: 0.0258
                                         g_loss: 8.3429
Epoch [
         127/
               250] | d loss: 0.2649 | g loss: 6.7347
```

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250] | d loss: 0.0842 |
Epoch [
         127/
                                        g loss: 7.5652
         127/
               250] | d loss: 0.1088
Epoch [
                                         g loss: 5.8142
                                         g_loss: 6.5803
Epoch [
         127/
               250] | d_loss: 0.1884
Epoch [
         127/
               250] | d loss: 0.0256
                                         g loss: 6.6160
         127/
                      d_loss: 0.0138
Epoch [
               250]
                                         g_loss: 7.1986
Epoch [
         127/
               250]
                     d loss: 0.2140
                                         g loss: 10.1975
Epoch [
         127/
               250]
                    | d loss: 0.0926
                                         g loss: 6.9244
Epoch [
         127/
               250] | d loss: 0.1241
                                         g_loss: 4.3704
Epoch [
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               250]
                    d_loss: 0.9701
                                         g_loss: 1.0892
         127/
                    d_loss: 0.0160
                                         g_loss: 5.6174
Epoch [
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         127/
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                    | d loss: 0.1100
                                         g loss: 5.8906
Epoch [
Epoch [
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                      d loss: 0.0789
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Epoch [
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                                         g loss: 8.2246
Epoch [
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               250]
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                                         g_loss: 3.6306
Epoch [
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               250] | d loss: 0.0165
                                         g_loss: 6.5846
         127/
                      d_loss: 0.0460
                                         g_loss: 6.6034
Epoch [
               250]
Epoch [
         127/
               250]
                      d loss: 0.0022
                                         g loss: 7.4134
                     1
Epoch [
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                    d loss: 0.0513
                                         g loss: 6.0273
                                        g_loss: 5.3211
         127/
                    d loss: 0.2032
Epoch [
               250]
         127/
Epoch [
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                      d_loss: 0.0953
                                         g_loss: 5.9096
         127/
                     d_loss: 0.1642
                                         g_loss: 6.0474
Epoch [
               250]
Epoch [
         127/
               250] | d loss: 0.3290
                                         g loss: 8.6088
         127/
Epoch [
               250] | d loss: 0.0144
                                         g loss: 4.1146
Epoch [
         128/
                      d loss: 0.7348
                                         g loss: 5.4127
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Epoch [
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                    | d_loss: 0.2345
                                         g_loss: 5.7934
Epoch [
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                     d loss: 0.1529
                                         g loss: 5.2058
         128/
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Epoch [
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Epoch [
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                                         g loss: 6.5814
Epoch [
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                    | d loss: 0.1599
                                         g loss: 6.5099
Epoch [
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                    d loss: 0.0508
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Epoch [
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Epoch [
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                                         g loss: 8.8890
Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                                         g loss: 6.0355
Epoch [
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Epoch [
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Epoch [
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                      d_loss: 0.0147
                                        g_loss: 6.1132
Epoch [
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Epoch [
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                                        g loss: 4.8111
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Epoch [
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                                        g_loss: 6.8163
Epoch [
         129/
               250] | d loss: 1.5370 | g loss: 1.6988
```

```
250] | d loss: 0.1245 |
Epoch [
         129/
                                        g loss: 7.1090
Epoch [
         129/
               250] | d loss: 0.0110
                                        g loss: 6.3715
Epoch [
         129/
               250] | d_loss: 0.0495
                                        g_loss: 7.7050
Epoch [
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                                        g loss: 7.2760
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                                        g loss: 6.8845
Epoch [
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Epoch [
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                                        g_loss: 6.2946
Epoch [
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Epoch [
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                    1
Epoch [
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                                        g_loss: 6.7242
Epoch [
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Epoch [
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                    d_loss: 0.2963
                                        g_loss: 12.1346
                                        g_loss: 20.4520
         130/
                    d_loss: 8.1723
Epoch [
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Epoch [
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               250] | d loss: 0.0399
                                        g loss: 6.2435
Epoch [
         130/
               250] | d loss: 0.0867
                                        g loss: 6.4221
Epoch [
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                      d loss: 0.0369
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                    1
                                        g loss: 3.2129
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                                        g loss: 6.4887
         130/
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                                        g_loss: 8.7527
Epoch [
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Epoch [
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                    d loss: 0.0145
                                        g loss: 5.8907
Epoch [
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                    | d loss: 0.0110
                                        g loss: 7.3892
Epoch [
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                                        g_loss: 8.2940
Epoch [
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                    d_loss: 0.0311
                                        g_loss: 7.8635
Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                    1
                                        g loss: 8.2057
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                      d_loss: 0.0421
                                        g_loss: 6.9758
Epoch [
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               250]
                    d loss: 0.6078
                                        g loss: 11.2126
Epoch [
         131/
               250]
                    d loss: 0.0255
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         131/
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                                        g_loss: 7.3719
Epoch [
         131/
                      d_loss: 0.0688
                                        g_loss: 6.7482
Epoch [
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                    1
Epoch [
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                    d_loss: 0.0187
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                    | d loss: 0.0162
                                        g loss: 6.3361
Epoch [
Epoch [
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                    d loss: 0.0517
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         131/
Epoch [
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                                        g_loss: 10.3997
Epoch [
         131/
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                    d_loss: 0.0284
Epoch [
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                                        g loss: 9.2015
Epoch [
         131/
               250] |
                      d_loss: 0.0267 |
                                        g_loss: 9.2312
Epoch [
         131/
               250] | d loss: 0.0361 | g loss: 7.8282
```

```
250] | d loss: 0.1153 |
Epoch [
         131/
                                        g loss: 5.4967
Epoch [
         131/
               250] | d loss: 0.0309
                                        g loss: 6.9271
                                        g_loss: 5.5431
Epoch [
         131/
               250] | d_loss: 0.0926
Epoch [
         131/
               250] | d loss: 0.0822
                                        g loss: 11.7059
         131/
                      d_loss: 0.0781
Epoch [
               250]
                                        g_loss: 5.0743
Epoch [
         131/
               250]
                    d loss: 0.0184
                                        g loss: 4.6479
Epoch [
         131/
               250]
                    d loss: 0.0024
                                        g loss: 8.6186
               250] | d_loss: 0.0592
Epoch [
         131/
                                        g_loss: 7.9145
Epoch [
         131/
               250]
                    d_loss: 0.2826
                                        g_loss: 6.6335
         131/
                    | d_loss: 0.2649 |
                                        g_loss: 4.2122
Epoch [
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                                        g loss: 7.0847
Epoch [
Epoch [
         131/
               250]
                    d loss: 0.0664
                                        g_loss: 6.6661
Epoch [
         131/
               250]
                      d loss: 0.0305
                                        g loss: 5.8645
Epoch [
         131/
               250]
                    d_loss: 0.0865
                                        g_loss: 8.3038
Epoch [
         131/
               250] | d loss: 0.0026
                                        g loss: 8.8671
         131/
                      d_loss: 0.0035
                                        g_loss: 6.3687
Epoch [
               250] |
Epoch [
         131/
               250]
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                                        g loss: 10.4922
                    1
Epoch [
         132/
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                    d loss: 0.0502
                                        g loss: 8.6249
         132/
                    | d loss: 0.0592
                                        g_loss: 6.0453
Epoch [
               250]
         132/
                    | d_loss: 0.1845
Epoch [
               250]
                                        g_loss: 5.7018
         132/
                    | d_loss: 0.0655
                                        g_loss: 8.3076
Epoch [
               250]
Epoch [
         132/
               250] | d loss: 0.0513
                                        g loss: 5.7759
Epoch [
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               250] | d loss: 0.0018
                                        g_loss: 9.9726
Epoch [
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                      d loss: 0.1319
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                    1
                                        g loss: 5.2822
Epoch [
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                                        g_loss: 7.6332
Epoch [
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                    d loss: 0.0529
                                        g loss: 9.0206
         132/
                      d_loss: 0.0197
Epoch [
               250]
                                        g_loss: 6.9216
Epoch [
         132/
               250]
                    d loss: 0.0199
                                        g loss: 6.8897
Epoch [
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               250]
                    | d loss: 0.0428
                                        g loss: 6.2813
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                                        g_loss: 6.8635
Epoch [
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Epoch [
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Epoch [
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                                        g loss: 4.4785
Epoch [
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                    d loss: 0.1201
Epoch [
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                                        g loss: 7.9241
Epoch [
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Epoch [
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                                        g loss: 7.6102
         132/
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                                        g_loss: 9.2097
Epoch [
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Epoch [
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               250]
                      d loss: 0.0009
                                        g loss: 7.7340
                    132/
               250]
                    d loss: 0.0075
                                        g loss: 9.1395
Epoch [
                                        g_loss: 5.3145
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                    d loss: 0.0543
Epoch [
         132/
Epoch [
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                                        g_loss: 7.4875
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                    d_loss: 0.1606
                                        g_loss: 7.4968
Epoch [
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Epoch [
         132/
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                    d loss: 0.1166
                                        g loss: 7.9030
Epoch [
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               250] | d loss: 0.0218
                                        g loss: 6.2216
Epoch [
         132/
                      d loss: 0.1442
               250]
                    1
                                        g loss: 8.3926
Epoch [
         133/
               250]
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                                        g_loss: 7.7033
Epoch [
         133/
               250]
                    d loss: 0.0079
                                        g loss: 10.3624
Epoch [
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                      d_loss: 0.0499
                                        g_loss: 8.6366
Epoch [
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                                        g loss: 10.2698
Epoch [
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                                        g loss: 8.8020
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                                        g_loss: 10.6251
Epoch [
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                      d_loss: 0.0124
                                        g_loss: 7.5761
Epoch [
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                    Epoch [
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               250]
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                                        g loss: 6.7521
Epoch [
Epoch [
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                    d loss: 0.1378
                                        g_loss: 7.1368
         133/
Epoch [
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                      d loss: 0.0039
                                        g loss: 8.7386
Epoch [
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               250]
                    d_loss: 0.0030
                                        g_loss: 7.0499
Epoch [
         133/
               250] | d loss: 0.1885
                                        g loss: 7.8174
Epoch [
         133/
               250] |
                      d_loss: 0.0064 |
                                        g_loss: 6.4507
Epoch [
         133/
               250] | d loss: 0.0299 | g loss: 8.0439
```

```
250] | d loss: 0.0011 |
Epoch [
         133/
                                        g loss: 9.9236
         133/
               250] | d loss: 0.0186
Epoch [
                                        g loss: 10.1811
                                        g_loss: 8.7875
Epoch [
         133/
               250] | d_loss: 0.2944
Epoch [
         133/
               250] | d loss: 0.2206
                                        g loss: 6.2772
         133/
Epoch [
               250]
                      d_loss: 0.1664
                                        g_loss: 6.3343
Epoch [
         133/
               250]
                    d loss: 0.0767
                                        g loss: 6.3298
Epoch [
         133/
               250]
                    | d loss: 0.0110
                                        g loss: 10.3557
                                        g_loss: 7.7281
Epoch [
         133/
               250] | d loss: 0.3825
Epoch [
         133/
               250]
                    d_loss: 0.1845
                                        g_loss: 5.8010
         133/
                    d_loss: 0.0233
                                        g_loss: 7.0826
Epoch [
               250]
         133/
               250]
                    d loss: 0.0057
                                        g loss: 5.8811
Epoch [
Epoch [
         133/
               250]
                      d loss: 0.0011
                                        g_loss: 6.5674
Epoch [
         133/
               250]
                      d loss: 0.0070
                                        g loss: 8.4984
Epoch [
         133/
               250]
                    d_loss: 0.0816
                                        g_loss: 6.7342
         134/
Epoch [
               250] | d loss: 0.0549
                                        g_loss: 6.9574
         134/
                      d_loss: 0.0034
                                        g_loss: 8.3800
Epoch [
               250]
Epoch [
         134/
               250]
                      d loss: 0.1806
                                        g loss: 7.4754
                    1
Epoch [
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               250]
                    d loss: 0.0330
                                        g loss: 10.5358
         134/
               250]
                    | d loss: 0.0646
                                        g_loss: 6.6755
Epoch [
         134/
Epoch [
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                    | d_loss: 0.0265
                                        g_loss: 5.9766
         134/
                    d_loss: 0.0686
                                        g_loss: 7.8269
Epoch [
               250]
Epoch [
         134/
               250] | d loss: 0.0123
                                        g loss: 6.9262
Epoch [
         134/
               250] | d loss: 0.3145
                                        g_loss: 7.4247
Epoch [
         134/
                      d loss: 0.4824
               250]
                    1
                                        g loss: 3.2266
                                        g_loss: 8.1623
Epoch [
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Epoch [
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               250]
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                                        g loss: 8.5268
         134/
                      d_loss: 0.0097
Epoch [
               250]
                                        g_loss: 9.0771
Epoch [
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               250]
                    d loss: 0.0486
                                        g loss: 8.8806
Epoch [
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               250]
                    | d loss: 0.1032
                                        g loss: 8.1846
Epoch [
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                                        g_loss: 6.5452
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                                        g_loss: 5.5116
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                    | d loss: 0.4001
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                                        g_loss: 4.9916
Epoch [
               250]
Epoch [
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                                        g loss: 8.5686
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Epoch [
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Epoch [
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Epoch [
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                                        g_loss: 6.0933
Epoch [
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Epoch [
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                    d loss: 4.7498
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Epoch [
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                                        g_loss: 5.4580
Epoch [
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                                        g loss: 7.1943
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                    1
Epoch [
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Epoch [
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                    d loss: 0.0721
                                        g loss: 8.1862
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Epoch [
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                      d_loss: 0.0050
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Epoch [
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                    Epoch [
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Epoch [
Epoch [
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Epoch [
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                                        g_loss: 8.9913
Epoch [
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Epoch [
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                                        g loss: 9.1193
Epoch [
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               250] |
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                                        g_loss: 5.2297
Epoch [
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               250] | d loss: 0.0075 | g loss: 5.5520
```

```
250] | d loss: 0.0038 |
Epoch [
         135/
                                        g loss: 7.1158
         135/
               250] | d loss: 0.0265
Epoch [
                                        g loss: 8.4045
                                        g_loss: 4.8836
Epoch [
         135/
               250] | d_loss: 0.0267
Epoch [
         135/
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                                        g loss: 7.3818
         135/
                      d_loss: 0.0140
Epoch [
               250]
                                        g_loss: 8.1057
Epoch [
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                    | d loss: 0.0100
                                        g loss: 8.1928
Epoch [
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               250]
                    | d loss: 0.0009
                                        g loss: 8.1977
Epoch [
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                                        g_loss: 7.3286
Epoch [
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                    d_loss: 0.0058
                                        g_loss: 9.3395
         135/
                    | d_loss: 0.1928
                                        g_loss: 8.6963
Epoch [
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                                        g loss: 8.4251
Epoch [
Epoch [
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Epoch [
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                                        g loss: 6.9551
Epoch [
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                                        g_loss: 9.3183
Epoch [
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Epoch [
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                    1
Epoch [
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                    d loss: 0.0354
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         136/
                    | d loss: 0.0199
                                        g_loss: 7.8932
Epoch [
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         136/
Epoch [
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                    | d_loss: 0.0402
                                        g_loss: 11.0354
                                        g_loss: 11.7220
         136/
                    d_loss: 0.4291
Epoch [
               250]
Epoch [
         136/
               250] | d loss: 0.0412
                                        g loss: 5.2973
Epoch [
         136/
               250] | d loss: 0.0727
                                        g loss: 6.8052
Epoch [
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                      d loss: 0.0393
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                                        g loss: 6.4065
Epoch [
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                    d_loss: 0.0195
                                        g_loss: 9.7942
Epoch [
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                    d loss: 0.0345
                                        g loss: 9.6610
         136/
                      d_loss: 0.1149
Epoch [
               250]
                                        g_loss: 6.5808
Epoch [
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                    d loss: 0.1350
                                        g loss: 4.6363
Epoch [
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                    d loss: 0.0521
                                        g loss: 6.7496
Epoch [
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                                        g_loss: 6.0006
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                                        g_loss: 7.6765
Epoch [
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                    d_loss: 0.1004
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                    | d loss: 0.2988
Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                    1
                                        g loss: 5.4912
Epoch [
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                                        g loss: 6.2301
Epoch [
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                                        g_loss: 6.7907
Epoch [
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                                        g_loss: 9.7230
Epoch [
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                    Epoch [
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Epoch [
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Epoch [
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               250] |
                      d_loss: 0.0158
                                        g_loss: 7.1706
Epoch [
         137/
               250 | d loss: 0.0193 | g loss: 8.7216
```

```
250] | d loss: 0.0195 |
Epoch [
         137/
                                         g loss: 9.8655
         137/
               250] | d loss: 0.0044
Epoch [
                                         g loss: 8.0850
                                         g_loss: 5.2959
Epoch [
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               250] | d_loss: 0.0178
Epoch [
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                                         g loss: 8.7406
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Epoch [
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Epoch [
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                                         g loss: 10.5356
Epoch [
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               250]
                    | d loss: 0.0840
                                         g loss: 9.1815
Epoch [
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                                         g_loss: 9.4966
Epoch [
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                    d_loss: 0.0988
                                         g_loss: 8.8077
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                    d_loss: 2.1632
                                         g_loss: 14.2817
Epoch [
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                                         g_loss: 9.1050
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Epoch [
Epoch [
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                                         g_loss: 6.9049
Epoch [
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                                         g loss: 8.8612
Epoch [
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               250]
                       d_loss: 0.0928
                                         g_loss: 7.9144
         138/
Epoch [
               250] | d loss: 0.0477
                                         g_loss: 6.7967
         138/
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                                         g_loss: 7.1437
Epoch [
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Epoch [
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                                         g loss: 3.5400
                     1
Epoch [
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                    d loss: 0.2324
                                         g loss: 8.5890
         138/
                    | d loss: 0.0515
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Epoch [
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Epoch [
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                                         g_loss: 5.4813
         138/
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                                         g_loss: 7.3377
Epoch [
               250]
Epoch [
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               250] | d loss: 0.0165
                                         g loss: 7.6889
Epoch [
         138/
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                                         g loss: 7.1923
Epoch [
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                       d loss: 0.1027
                                         g loss: 7.3439
               250]
                                         g_loss: 6.9639
Epoch [
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                    | d_loss: 0.0364 |
Epoch [
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                                         g loss: 7.2720
         138/
                       d_loss: 0.0461
Epoch [
               250]
                                         g_loss: 7.4604
Epoch [
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               250]
                     d loss: 0.0034
                                         g loss: 4.3415
Epoch [
         138/
               250]
                    | d loss: 0.0063
                                         g loss: 5.6777
Epoch [
         138/
               250] | d loss: 0.0670
                                         g_loss: 8.1173
         138/
                       d_loss: 0.0191
Epoch [
               250]
                    g_loss: 7.1158
         138/
                    d_loss: 0.0384
                                         g_loss: 9.2130
Epoch [
               250]
Epoch [
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                    | d loss: 0.1889
                                         g loss: 6.0519
Epoch [
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                       d loss: 0.0258
                                         g_loss: 7.2557
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Epoch [
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                      d loss: 0.0026
                                         g loss: 7.9600
Epoch [
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                                         g_loss: 9.6811
         138/
Epoch [
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                    | d loss: 0.0525
                                         g_loss: 9.3573
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                                         g_loss: 8.0919
Epoch [
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Epoch [
         139/
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                      d loss: 0.0463
                                         g loss: 13.0003
                     1
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                    d loss: 0.3930
                                         g loss: 13.0834
Epoch [
                                         g_loss: 7.2348
         139/
                    | d loss: 0.0031
Epoch [
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         139/
Epoch [
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                     | d_loss: 0.1063
                                         g_loss: 8.8140
         139/
                     | d_loss: 0.1055
                                         g_loss: 5.9437
Epoch [
               250]
Epoch [
         139/
               250]
                    d loss: 0.0020
                                         g loss: 7.0708
Epoch [
         139/
               250] | d loss: 0.1293
                                         g loss: 8.7283
Epoch [
         139/
                       d loss: 0.0074
               250]
                     1
                                         g loss: 8.0781
Epoch [
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               250]
                    | d_loss: 0.0582
                                         g_loss: 8.7792
Epoch [
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               250]
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                                         g loss: 8.0082
Epoch [
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                                         g_loss: 6.3281
Epoch [
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               250]
                      d loss: 0.0089
                                         g loss: 6.8488
Epoch [
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               250]
                     d loss: 0.0405
                                         g loss: 7.6008
Epoch [
         139/
               250] | d loss: 0.0164
                                         g_loss: 6.9720
         139/
                       d_loss: 0.0052
                                         g_loss: 6.8812
Epoch [
               250]
                    Epoch [
         139/
               250]
                    d_loss: 0.0632
                                         g_loss: 5.8275
         139/
               250]
                    | d loss: 0.0308
                                         g loss: 5.8322
Epoch [
Epoch [
         139/
               250]
                     d loss: 0.0593
                                         g_loss: 8.5594
         139/
Epoch [
               250]
                      d loss: 0.3278
                                         g loss: 5.8072
Epoch [
         139/
               250]
                       d_loss: 0.0296
                                         g_loss: 9.5843
Epoch [
         139/
               250] | d loss: 0.0738
                                         g loss: 7.8180
Epoch [
         139/
               250] |
                       d_loss: 0.0229 |
                                         g_loss: 2.9193
Epoch [
         139/
               250] | d loss: 0.0135 | g loss: 5.7226
```

```
250] | d loss: 0.0214 |
Epoch [
         139/
                                        g loss: 7.6726
         139/
               250] | d loss: 0.0675
Epoch [
                                         g loss: 9.0296
                                         g_loss: 6.8638
Epoch [
         139/
               250] | d_loss: 0.0739
Epoch [
         139/
               250] | d loss: 0.1456
                                         g loss: 3.9919
         139/
                      d_loss: 0.0058
Epoch [
               250]
                                         g_loss: 9.0431
Epoch [
         140/
               250]
                     d loss: 0.0414
                                         g loss: 4.7961
Epoch [
         140/
               250]
                    | d loss: 0.0277
                                         g loss: 8.5097
                                        g_loss: 6.2562
Epoch [
         140/
               250] | d loss: 0.1150
Epoch [
         140/
               250]
                    d_loss: 0.0441
                                         g_loss: 7.9275
         140/
                    d_loss: 0.0009
                                         g_loss: 7.6168
Epoch [
               250]
         140/
               250]
                    d loss: 0.0823
                                         g loss: 5.7488
Epoch [
Epoch [
         140/
               250]
                      d loss: 0.0103
                                         g_loss: 7.6533
Epoch [
         140/
               250]
                      d loss: 0.0035
                                         g loss: 8.1826
Epoch [
         140/
               250]
                     d loss: 0.0040
                                         g_loss: 8.3591
Epoch [
         140/
               250] | d loss: 0.0440
                                         g_loss: 7.1708
         140/
                      d_loss: 0.0286
                                         g_loss: 6.6113
Epoch [
               250]
Epoch [
         140/
               250]
                      d loss: 0.0213
                                         g loss: 7.1205
                     1
Epoch [
         140/
               250]
                    d loss: 0.2146
                                         g loss: 8.9093
         140/
                    | d loss: 0.2938
                                         g_loss: 6.0699
Epoch [
               250]
         140/
Epoch [
               250]
                     | d_loss: 0.0121
                                         g_loss: 6.3567
         140/
                     | d_loss: 0.1148
                                         g_loss: 9.5535
Epoch [
               250]
Epoch [
         140/
               250] | d loss: 0.0020
                                         g loss: 6.7246
         140/
Epoch [
               250] | d loss: 0.0621
                                         g_loss: 5.5875
Epoch [
         140/
                      d loss: 0.0088
               250]
                                         g loss: 8.6649
Epoch [
         140/
               250]
                    | d_loss: 0.0268
                                         g_loss: 4.6220
Epoch [
         140/
               250]
                     d loss: 0.0156
                                         g loss: 7.5305
         140/
                      d_loss: 0.0048
Epoch [
               250]
                                         g_loss: 5.2889
Epoch [
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               250]
                     d loss: 0.0139
                                         g loss: 7.3679
Epoch [
         140/
               250]
                    d loss: 3.8191
                                         g loss: 0.7122
Epoch [
         140/
               250] | d loss: 0.1288
                                         g_loss: 6.4860
         140/
                      d_loss: 0.0109
                                         g_loss: 6.4104
Epoch [
               250]
                     1
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                    d_loss: 0.0039
                                         g_loss: 6.9539
Epoch [
               250]
Epoch [
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                                         g loss: 6.9961
Epoch [
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Epoch [
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                                         g loss: 5.9503
Epoch [
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               250]
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                                         g_loss: 9.3654
Epoch [
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                                         g_loss: 6.9036
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Epoch [
               250]
Epoch [
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               250]
                      d loss: 0.1369
                                         g loss: 6.0046
                     1
         141/
               250]
                    d loss: 0.0079
                                         g loss: 7.8498
Epoch [
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               250]
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                                         g_loss: 13.9156
Epoch [
         141/
Epoch [
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                                         g_loss: 6.8502
         141/
                     | d_loss: 0.0090
                                         g_loss: 7.3662
Epoch [
               250]
Epoch [
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               250]
                    | d loss: 0.0104
                                         g loss: 8.3112
Epoch [
         141/
               250] | d loss: 0.0653
                                         g_loss: 5.5769
Epoch [
         141/
                      d loss: 0.0090
               250]
                     1
                                         g loss: 8.3218
Epoch [
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               250]
                    d_loss: 0.2497
                                         g_loss: 7.1137
Epoch [
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               250]
                     d loss: 0.0883
                                         g loss: 9.4703
Epoch [
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               250]
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                                         g_loss: 9.7251
Epoch [
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               250]
                      d loss: 0.0711
                                         g loss: 7.5411
Epoch [
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               250]
                      d loss: 0.0567
                                         g loss: 7.1110
Epoch [
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               250] | d loss: 0.0101
                                         g_loss: 9.8131
         141/
                      d_loss: 0.1211
Epoch [
               250]
                     1
                                         g_loss: 5.3007
Epoch [
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               250]
                    d_loss: 0.0233
                                        g_loss: 6.9067
                                         g_loss: 7.3620
         141/
               250]
                    | d loss: 0.0896
Epoch [
Epoch [
         141/
               250]
                     d loss: 0.0356
                                         g_loss: 8.3002
         141/
Epoch [
               250]
                      d loss: 0.0608
                                         g loss: 9.3483
Epoch [
         141/
               250]
                      d_loss: 0.0143
                                        g_loss: 9.5030
Epoch [
         141/
               250] |
                      d loss: 0.0578
                                        g loss: 9.1418
Epoch [
         141/
               250]
                      d_loss: 0.1235 |
                                        g_loss: 6.9727
Epoch [
         141/
               250] | d loss: 0.0224 | g loss: 5.2221
```

```
250] | d loss: 0.0189 |
Epoch [
         141/
                                        g loss: 7.6630
Epoch [
         141/
               250] | d loss: 0.0144
                                         g loss: 5.4087
                                         g_loss: 7.5385
Epoch [
         142/
               250] | d_loss: 0.0057
Epoch [
         142/
               250] | d loss: 0.1172
                                         g loss: 6.8680
         142/
                      d_loss: 0.0255
Epoch [
               250]
                                         g_loss: 6.3139
Epoch [
         142/
               250]
                     d loss: 0.0504
                                         g loss: 6.6340
Epoch [
         142/
               250]
                    | d loss: 0.0890
                                         g loss: 8.3442
Epoch [
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               250] | d loss: 0.0415
                                         g_loss: 7.0234
Epoch [
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               250]
                    d_loss: 0.0068
                                         g_loss: 5.5411
         142/
                    d_loss: 0.0084
                                         g_loss: 8.7346
Epoch [
               250]
         142/
               250]
                    d loss: 0.0175
                                         g loss: 6.5769
Epoch [
Epoch [
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               250]
                      d loss: 0.4297
                                         g_loss: 2.1412
Epoch [
         142/
               250]
                      d loss: 0.0393
                                         g loss: 7.1637
Epoch [
         142/
               250]
                      d_loss: 0.0250
                                         g_loss: 7.2648
         142/
Epoch [
               250] | d loss: 0.1276
                                         g_loss: 7.5193
         142/
                      d_loss: 0.0338
                                         g_loss: 8.4824
Epoch [
               250]
Epoch [
         142/
               250]
                      d loss: 0.0055
                                         g loss: 8.2909
                     1
Epoch [
         142/
               250]
                    | d loss: 0.0607
                                         g loss: 9.4235
         142/
               250]
                    | d loss: 0.1098
                                         g_loss: 5.9753
Epoch [
         142/
Epoch [
               250]
                     | d_loss: 0.0221
                                         g_loss: 9.1562
         142/
                     | d_loss: 0.1367
                                         g_loss: 5.3370
Epoch [
               250]
Epoch [
         142/
               250] | d loss: 0.0076
                                         g loss: 7.7453
         142/
Epoch [
               250] | d loss: 0.2456
                                         g_loss: 3.3494
Epoch [
         142/
                      d loss: 0.0574
                                         g loss: 7.1538
               250]
Epoch [
         142/
               250]
                    | d_loss: 0.0395
                                         g_loss: 9.4167
Epoch [
         142/
               250]
                     d loss: 0.0063
                                         g loss: 6.4189
         142/
                      d_loss: 0.0207
Epoch [
               250]
                                         g_loss: 5.3934
Epoch [
         142/
               250]
                     d loss: 0.0282
                                         g loss: 6.2515
Epoch [
         142/
               250]
                    | d loss: 0.0038
                                         g loss: 5.7284
Epoch [
         142/
               250] | d loss: 0.0211
                                         g_loss: 8.1792
         142/
                      d_loss: 0.0119
Epoch [
               250]
                    g_loss: 6.4166
         143/
                    d_loss: 0.0062
                                         g_loss: 8.0310
Epoch [
               250]
                                         g_loss: 4.7850
Epoch [
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               250]
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Epoch [
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Epoch [
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Epoch [
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                                         g_loss: 7.0705
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Epoch [
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                    | d loss: 0.1266
                                         g_loss: 6.5184
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                                         g_loss: 7.3684
Epoch [
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Epoch [
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                      d loss: 0.0379
                                         g loss: 8.4711
                     1
         143/
               250]
                    d loss: 0.0070
                                         g loss: 7.4038
Epoch [
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               250]
                    | d loss: 0.1017
                                         g_loss: 9.4416
Epoch [
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Epoch [
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                     | d_loss: 0.0396
                                         g_loss: 7.1373
Epoch [
               250]
Epoch [
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               250]
                    d loss: 0.0959
                                         g loss: 6.2105
Epoch [
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                                         g_loss: 4.7572
Epoch [
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                      d loss: 0.2032
                                         g loss: 4.8405
               250]
                     1
Epoch [
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               250]
                    | d_loss: 0.0495
                                         g_loss: 5.1950
Epoch [
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               250]
                     d loss: 0.1209
                                         g loss: 7.7926
Epoch [
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               250]
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                                         g_loss: 4.7770
Epoch [
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               250]
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                                         g loss: 8.9760
Epoch [
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               250]
                     d loss: 0.0387
                                         g loss: 7.3105
Epoch [
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                                         g_loss: 10.0134
         143/
                      d_loss: 0.0089
                                         g_loss: 6.7827
Epoch [
               250]
                    Epoch [
         143/
               250]
                    d_loss: 0.0012
                                        g_loss: 7.3887
                                        g_loss: 8.0112
         143/
               250]
                    | d loss: 0.0005
Epoch [
Epoch [
         143/
               250]
                      d loss: 0.0250
                                         g_loss: 5.4099
         143/
Epoch [
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                      d loss: 0.0434
                                         g loss: 7.0147
                                        g_loss: 11.7370
Epoch [
         143/
               250]
                      d_loss: 0.0013
Epoch [
         143/
               250] | d loss: 0.1243 |
                                        g loss: 8.9116
         143/
                      d_loss: 0.0092 | g_loss: 7.5669
Epoch [
               250]
Epoch [
         144/
               250 | d loss: 11.8416 | g loss: 18.3865
```

```
250] | d loss: 0.1009 |
Epoch [
         144/
                                         g loss: 7.4840
Epoch [
         144/
                    | d loss: 0.0769
               250]
                                         g loss: 7.2553
Epoch [
         144/
               250] | d_loss: 0.0170
                                         g_loss: 9.2685
Epoch [
         144/
               250] | d loss: 0.1370
                                         g loss: 7.4725
         144/
                       d_loss: 0.0169
Epoch [
               250]
                                         g_loss: 6.4421
Epoch [
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               250]
                     d loss: 0.0540
                                         g loss: 9.8279
Epoch [
         144/
               250]
                    | d loss: 0.0572
                                         g loss: 7.0243
Epoch [
         144/
               250] | d loss: 0.0200
                                         g_loss: 6.5300
Epoch [
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                       d_loss: 0.0114
                                         g_loss: 7.8441
         144/
                      d_loss: 0.0102
                                         g_loss: 7.0614
Epoch [
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                    g_loss: 8.6546
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               250]
                       d loss: 0.0047
Epoch [
Epoch [
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               250]
                       d loss: 0.1307
                                         g_loss: 8.5374
Epoch [
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                       d loss: 0.1304
                                         g loss: 6.9578
Epoch [
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                                         g_loss: 6.0243
Epoch [
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                    | d loss: 0.0155
                                         g_loss: 9.1939
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                       d_loss: 0.0668
                                         g_loss: 6.6469
Epoch [
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Epoch [
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               250]
                      d loss: 0.0124
                                         g loss: 7.9337
                     1
Epoch [
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                    d loss: 0.0267
                                         g loss: 7.0425
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               250]
                     d loss: 0.0333
                                         g_loss: 8.0039
Epoch [
         144/
Epoch [
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                       d_loss: 0.0270
                                         g_loss: 6.6743
         144/
                     | d_loss: 0.0256
                                         g_loss: 6.9377
Epoch [
               250]
Epoch [
         144/
               250]
                    d loss: 0.0519
                                         g loss: 7.0251
         144/
Epoch [
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                                         g loss: 6.9689
Epoch [
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                       d loss: 0.0148
               250]
                                         g loss: 5.4307
Epoch [
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                    d_loss: 0.0057
                                         g_loss: 5.6167
Epoch [
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                     d loss: 0.0997
                                         g loss: 8.4078
         144/
                       d_loss: 0.1842
                                         g_loss: 6.9143
Epoch [
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Epoch [
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               250]
                      d loss: 0.0412
                                         g loss: 9.4951
Epoch [
         145/
               250]
                    d loss: 4.5248
                                         g loss: 14.6363
Epoch [
         145/
               250] | d loss: 0.0429
                                         g_loss: 4.9558
         145/
                       d_loss: 0.0066
                                         g_loss: 9.7072
Epoch [
               250]
                     1
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                    d_loss: 0.0650
                                         g_loss: 5.3176
Epoch [
               250]
                                         g_loss: 7.0297
Epoch [
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                    d loss: 0.0273
Epoch [
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               250]
                     d loss: 0.0201
                                         g_loss: 6.7697
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Epoch [
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                                         g loss: 7.7238
Epoch [
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                     d_loss: 0.0380
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Epoch [
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Epoch [
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Epoch [
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                    d loss: 0.0014
                                         g loss: 6.2454
Epoch [
                                         g_loss: 10.4500
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                    | d loss: 0.0437
Epoch [
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Epoch [
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         145/
                     | d_loss: 0.0098
                                         g_loss: 6.9530
Epoch [
               250]
         145/
               250]
                    | d loss: 0.0166
                                         g loss: 5.0207
Epoch [
Epoch [
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               250] | d loss: 0.1662
                                         g_loss: 6.4603
Epoch [
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                     1
                                         g loss: 6.5874
Epoch [
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Epoch [
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Epoch [
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Epoch [
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                                         g loss: 7.4161
Epoch [
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               250]
                      d loss: 0.0095
                                         g loss: 5.4162
Epoch [
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               250] | d loss: 0.1121
                                         g_loss: 8.5639
         145/
                       d_loss: 0.0181
Epoch [
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                     1
                                         g_loss: 5.1166
                                         g_loss: 10.4337
Epoch [
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                    d_loss: 0.1212
         145/
               250]
                    | d loss: 0.0262
                                         g loss: 7.9159
Epoch [
Epoch [
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                       d loss: 0.0406
                                         g_loss: 6.2566
         145/
Epoch [
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                       d loss: 0.0210
                                         g loss: 7.8137
                                         g_loss: 8.9765
Epoch [
         146/
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                       d_loss: 0.5183
Epoch [
         146/
               250] |
                       d loss: 0.0097
                                         g loss: 4.5248
Epoch [
         146/
               250]
                       d_loss: 0.0923
                                         g_loss: 2.8129
Epoch [
         146/
               250] | d loss: 0.0113 | g loss: 4.4409
```

```
250] | d loss: 0.0117 |
Epoch [
         146/
                                        g loss: 9.4803
         146/
                    d loss: 0.0701
Epoch [
               250]
                                        g loss: 6.9219
                                        g_loss: 9.4557
Epoch [
         146/
               250] | d_loss: 0.0044
Epoch [
         146/
               250] | d loss: 0.0108
                                        g loss: 8.7729
         146/
                      d_loss: 0.0689
Epoch [
               250]
                                        g_loss: 6.5883
Epoch [
         146/
               250]
                    d loss: 1.3986
                                        g loss: 16.2407
Epoch [
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               250]
                    | d loss: 0.0098
                                        g loss: 8.2691
Epoch [
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               250] | d loss: 0.0105
                                        g_loss: 8.5878
Epoch [
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                    d_loss: 0.0030
                                        g_loss: 6.5296
         146/
                    d_loss: 0.0831
                                        g_loss: 6.8395
Epoch [
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                                        g loss: 8.0555
Epoch [
Epoch [
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               250]
                      d loss: 0.0100
                                        g_loss: 7.1124
Epoch [
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                      d loss: 0.1164
                                        g loss: 3.4860
Epoch [
         146/
               250]
                      d_loss: 0.0297
                                        g_loss: 5.6419
Epoch [
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                                        g_loss: 6.5791
         146/
                      d_loss: 0.0044
                                        g_loss: 6.5919
Epoch [
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Epoch [
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                                        g loss: 8.0591
                    1
Epoch [
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                    d loss: 0.2208
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                    | d loss: 0.0364
                                        g_loss: 8.9156
Epoch [
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Epoch [
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                                        g_loss: 9.5885
Epoch [
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Epoch [
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                    d loss: 0.0139
                                        g loss: 7.8150
         146/
Epoch [
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                                        g_loss: 9.1038
Epoch [
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                                        g loss: 5.3782
Epoch [
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                                        g_loss: 7.8743
Epoch [
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Epoch [
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Epoch [
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                                        g loss: 6.7238
Epoch [
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                    | d loss: 0.3012
                                        g loss: 5.2258
Epoch [
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                                        g_loss: 5.6992
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                                        g_loss: 9.6724
Epoch [
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                    d_loss: 0.0326
                                        g_loss: 6.5804
Epoch [
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Epoch [
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                                        g loss: 8.6616
Epoch [
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                                        g_loss: 8.2839
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Epoch [
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                                        g loss: 7.1880
Epoch [
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               250]
                    | d_loss: 0.0163
                                        g_loss: 6.4428
         147/
Epoch [
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                                        g_loss: 7.8848
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                                        g_loss: 5.4429
Epoch [
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Epoch [
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                                        g loss: 7.5754
Epoch [
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Epoch [
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Epoch [
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                                        g_loss: 8.4662
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                                        g_loss: 11.8759
Epoch [
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         147/
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                    d loss: 0.0022
                                        g loss: 8.2138
Epoch [
         147/
Epoch [
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                                        g loss: 10.4505
Epoch [
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                      d loss: 0.0046
                                        g loss: 8.7127
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                    1
Epoch [
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                    | d_loss: 0.0003
                                        g_loss: 11.3822
Epoch [
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                    d loss: 0.0000
                                        g loss: 31.0767
Epoch [
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               250]
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                                        g_loss: 9.7978
Epoch [
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               250]
                    d loss: 0.0000
                                        g loss: 43.8499
Epoch [
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               250]
                    | d loss: 0.0026
                                        g loss: 8.3823
Epoch [
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                                        g_loss: 8.9342
         147/
                      d_loss: 0.0000
Epoch [
               250]
                    g_loss: 24.4023
Epoch [
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                    d_loss: 0.0079
                                        g_loss: 53.8193
         148/
               250]
                    | d loss: 0.0000
                                        g loss: 22.4585
Epoch [
Epoch [
         148/
               250]
                    d loss: 0.0000
                                        g_loss: 27.6890
         148/
Epoch [
               250]
                      d loss: 0.0000
                                        g loss: 51.9685
                                        g_loss: 33.1491
Epoch [
         148/
               250]
                      d_loss: 0.0000
Epoch [
         148/
               250] |
                      d loss: 0.0000
                                        g_loss: 37.2077
                                        g_loss: 12.4867
Epoch [
         148/
               250]
                      d_loss: 0.0009
Epoch [
         148/
               250] | d loss: 0.4242 |
                                        g loss: 24.5436
```

```
250] | d loss: 0.0005 |
Epoch [
         148/
                                        g loss: 11.3064
Epoch [
         148/
               250] | d loss: 0.0008
                                         g loss: 15.3973
                                         g_loss: 29.6648
Epoch [
         148/
               250] | d_loss: 0.4208
Epoch [
         148/
               250] | d loss: 0.0000
                                         g loss: 12.0459
         148/
                       d_loss: 0.0000
                                         g_loss: 15.9505
Epoch [
               250]
Epoch [
         148/
               250]
                     d loss: 0.0450
                                         g loss: 8.4714
Epoch [
         148/
               250]
                    d loss: 0.0074
                                         g loss: 12.8007
Epoch [
         148/
               250] | d loss: 0.0020
                                         g_loss: 20.5798
Epoch [
         148/
               250]
                    d_loss: 0.0000
                                         g_loss: 24.2870
         148/
                    d_loss: 0.0006
                                         g_loss: 17.0596
Epoch [
               250]
                                         g_loss: 7.0558
         148/
               250]
                    d loss: 0.0069
Epoch [
Epoch [
         148/
               250]
                       d loss: 0.0000
                                         g_loss: 20.2675
Epoch [
         148/
               250]
                      d loss: 0.0000
                                         g loss: 15.2875
Epoch [
         148/
               250]
                     d_loss: 0.0004
                                         g_loss: 10.6613
         148/
Epoch [
               250] | d loss: 0.0002
                                         g_loss: 7.8753
         148/
                       d_loss: 0.0012
                                         g_loss: 12.8515
Epoch [
               250]
Epoch [
         148/
               250]
                      d loss: 0.0011
                                         g loss: 10.7188
                     1
Epoch [
         148/
               250]
                    | d loss: 0.0011
                                         g loss: 10.4482
         148/
               250]
                    | d loss: 0.0977
                                         g_loss: 15.1793
Epoch [
         148/
Epoch [
               250]
                     | d_loss: 0.0003
                                         g_loss: 13.1620
         148/
                     | d_loss: 0.0011
                                         g_loss: 8.6810
Epoch [
               250]
Epoch [
         148/
               250] | d loss: 0.0011
                                         g loss: 21.8143
         149/
Epoch [
               250] | d loss: 0.0009
                                         g_loss: 16.8100
Epoch [
         149/
                       d loss: 0.0012
                                         g loss: 17.2063
               250]
Epoch [
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               250]
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                                         g_loss: 12.4532
Epoch [
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               250]
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                                         g loss: 10.7110
         149/
                       d_loss: 0.0010
Epoch [
               250]
                                         g_loss: 10.1271
Epoch [
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                                         g loss: 11.1416
Epoch [
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                    d loss: 0.0042
                                         g loss: 10.0283
Epoch [
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                                         g_loss: 27.8931
         149/
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                                         g_loss: 16.4787
Epoch [
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                    d_loss: 0.0457
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Epoch [
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Epoch [
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                                         g loss: 27.2546
Epoch [
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                                         g loss: 14.3835
Epoch [
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Epoch [
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Epoch [
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                                         g_loss: 12.8164
Epoch [
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Epoch [
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               250]
                      d loss: 0.5630
                                         g loss: 6.0405
                     1
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               250]
                    | d loss: 4.1609
                                         g loss: 30.8164
Epoch [
         149/
               250]
                    | d loss: 0.2348
                                         g_loss: 12.7963
Epoch [
         149/
Epoch [
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                                         g_loss: 7.4728
                                        g_loss: 11.3037
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Epoch [
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Epoch [
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                    | d loss: 0.6033
                                         g loss: 31.9120
         149/
Epoch [
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                                         g loss: 25.9902
Epoch [
         149/
                       d loss: 0.2583
                                         g loss: 6.3539
               250]
                     1
Epoch [
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                    | d_loss: 0.0120
                                         g_loss: 12.6430
Epoch [
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                     d loss: 0.0007
                                         g loss: 9.3172
Epoch [
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                                         g_loss: 8.7445
Epoch [
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               250]
                      d loss: 0.1890
                                         g loss: 15.3868
Epoch [
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                     d loss: 0.0661
                                         g loss: 8.0599
                                        g_loss: 10.0276
               250] | d_loss: 0.0885
Epoch [
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         150/
                       d_loss: 0.0001
                                         g_loss: 15.9087
Epoch [
               250]
                     1
Epoch [
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               250]
                    d_loss: 0.0345
                                         g_loss: 9.6645
         150/
               250]
                    d loss: 0.1691
                                         g loss: 23.7631
Epoch [
Epoch [
         150/
               250]
                     d loss: 0.5453
                                         g_loss: 35.3325
         150/
Epoch [
               250]
                      d loss: 0.0119
                                         g loss: 10.8137
                                        g_loss: 13.5509
Epoch [
         150/
               250]
                       d_loss: 0.0451
Epoch [
         150/
               250] | d loss: 0.0151
                                        g loss: 9.6146
         150/
Epoch [
               250] |
                       d_loss: 0.0053
                                        g_loss: 38.7020
Epoch [
         150/
               250] | d loss: 0.0458 | g loss: 7.8968
```

```
250] | d loss: 0.0129 |
Epoch [
         150/
                                        g loss: 8.2493
Epoch [
         150/
               250] | d loss: 0.0000
                                        g loss: 26.2951
                                        g_loss: 10.7811
Epoch [
         150/
               250] | d_loss: 0.1194
Epoch [
         150/
               250] | d loss: 0.0624 |
                                        g loss: 9.1028
         150/
                      d_loss: 0.0032
Epoch [
               250]
                                        g_loss: 8.9734
Epoch [
         150/
               250]
                    d loss: 0.0788
                                        g loss: 8.5525
Epoch [
         150/
               250]
                    | d loss: 0.0442
                                        g loss: 7.7334
Epoch [
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                                        g_loss: 7.8105
Epoch [
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               250]
                    d_loss: 0.0369
                                        g_loss: 7.2703
         150/
                    | d_loss: 0.3517
                                        g_loss: 19.3795
Epoch [
               250]
Epoch [
         150/
               250]
                    d loss: 0.0279
                                        g loss: 10.7290
Epoch [
         150/
               250]
                    d loss: 0.0261
                                        g_loss: 8.4890
Epoch [
         150/
               250]
                    | d loss: 0.0064
                                        g loss: 5.9232
Epoch [
         150/
               250]
                    d_loss: 0.4667
                                        g_loss: 3.3336
         150/
Epoch [
               250] | d loss: 0.0211
                                        g_loss: 13.0158
         150/
                      d_loss: 0.1588
                                        g_loss: 8.1035
Epoch [
               250] |
Epoch [
         150/
               250]
                      d loss: 0.0069
                                        g loss: 9.0583
                    1
Epoch [
         150/
               250]
                    | d loss: 0.0001
                                        g loss: 36.8758
         150/
               250]
                    | d loss: 0.0095
                                        g_loss: 9.5453
Epoch [
         151/
                    | d_loss: 2.1655
Epoch [
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                                        g_loss: 54.2361
         151/
                    d_loss: 0.0987
                                        g_loss: 5.3219
Epoch [
               250]
Epoch [
         151/
               250] | d loss: 0.0461
                                        g loss: 11.3755
Epoch [
         151/
               250] | d loss: 0.0337
                                        g loss: 4.5959
Epoch [
         151/
                      d loss: 0.0131
                                        g loss: 11.1164
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                    1
Epoch [
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                    | d_loss: 0.0067
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Epoch [
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                    d loss: 0.0038
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Epoch [
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Epoch [
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                    d loss: 0.0283
                                        g loss: 9.3660
Epoch [
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                    | d loss: 0.2145
                                        g loss: 14.0578
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                                        g_loss: 8.6601
Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                    d loss: 0.1264
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                      d loss: 0.0095
                                        g loss: 11.4511
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                                        g loss: 8.5958
Epoch [
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                                        g_loss: 10.2745
Epoch [
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Epoch [
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                                        g_loss: 25.9262
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                                        g_loss: 10.4977
Epoch [
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Epoch [
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Epoch [
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Epoch [
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                      d loss: 0.0217
                                        g loss: 6.9583
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                    1
Epoch [
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                    | d_loss: 0.0723
                                        g_loss: 6.8682
Epoch [
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                    d loss: 1.1560
                                        g loss: 30.3854
Epoch [
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Epoch [
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                      d loss: 1.0556
                                        g loss: 29.7651
Epoch [
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                                        g_loss: 9.3184
Epoch [
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                                        g_loss: 8.6524
Epoch [
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                    Epoch [
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                    | d loss: 0.3357
                                        g loss: 3.6938
Epoch [
Epoch [
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                    d loss: 0.1028
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         152/
Epoch [
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                                        g loss: 5.2403
                                        g_loss: 7.6713
Epoch [
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                    d_loss: 0.0795
Epoch [
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                                        g loss: 7.4469
                      d_loss: 0.0146 |
Epoch [
         152/
               250] |
                                        g_loss: 7.3483
Epoch [
         152/
               250 | d loss: 0.1071 | g loss: 19.4074
```

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250] | d loss: 0.0237 |
Epoch [
         152/
                                        g loss: 6.3668
Epoch [
         152/
               250] | d loss: 0.2024
                                        g loss: 3.7232
Epoch [
         152/
               250] | d_loss: 0.0147
                                        g_loss: 7.8475
Epoch [
         152/
               250] | d loss: 0.0003
                                        g loss: 13.9385
         152/
                      d_loss: 0.1894
                                        g_loss: 11.0253
Epoch [
               250]
Epoch [
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               250]
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                                        g loss: 5.0167
Epoch [
         152/
               250]
                    | d loss: 0.0699
                                        g loss: 10.0408
Epoch [
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               250] | d loss: 0.0969
                                        g_loss: 6.2476
Epoch [
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               250]
                    d_loss: 0.0253
                                        g_loss: 5.0234
         152/
                    | d_loss: 0.0527
                                        g_loss: 6.7380
Epoch [
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               250]
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                                        g loss: 11.5891
Epoch [
Epoch [
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                                        g_loss: 9.4087
Epoch [
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                                        g loss: 5.8893
Epoch [
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                    d_loss: 0.0122
                                        g_loss: 10.1570
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Epoch [
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                      d_loss: 0.0612
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Epoch [
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Epoch [
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               250]
                      d loss: 8.8020
                                        g loss: 31.8325
                    1
Epoch [
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                    d loss: 0.0605
                                        g loss: 5.1707
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               250]
                    | d loss: 0.0248
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Epoch [
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                                        g_loss: 7.6293
Epoch [
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                    | d_loss: 0.0846
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                    | d_loss: 0.1006
                                        g_loss: 7.9129
Epoch [
               250]
Epoch [
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               250] | d loss: 0.0801
                                        g loss: 8.4409
Epoch [
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               250] | d loss: 0.0868
                                        g loss: 7.5048
Epoch [
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                      d loss: 0.0414
                                        g loss: 8.8109
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                    1
Epoch [
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                    | d_loss: 0.3571
                                        g_loss: 8.1638
Epoch [
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                    d loss: 0.0000
                                        g loss: 18.2339
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                      d_loss: 0.0035
                                        g_loss: 6.4026
Epoch [
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Epoch [
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               250]
                    d loss: 0.0679
                                        g loss: 5.9166
Epoch [
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               250]
                    | d loss: 0.0003
                                        g loss: 25.4292
         153/
               250] | d loss: 0.1518
                                        g_loss: 11.8203
Epoch [
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                      d_loss: 0.2215
                                        g_loss: 6.6515
Epoch [
               250]
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                    | d_loss: 0.0115
                                        g_loss: 5.0212
Epoch [
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Epoch [
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               250] | d loss: 0.0556
                                        g loss: 8.3973
Epoch [
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                    d loss: 0.1306
Epoch [
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                                        g loss: 10.9886
Epoch [
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                                        g_loss: 6.2741
Epoch [
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Epoch [
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                                        g loss: 22.3025
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                                        g loss: 31.0824
Epoch [
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                                        g_loss: 5.5439
Epoch [
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Epoch [
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                    d_loss: 0.0620
                                        g_loss: 5.6434
Epoch [
               250]
Epoch [
         153/
               250]
                    d loss: 0.0580
                                        g loss: 6.6495
Epoch [
         153/
               250] | d loss: 0.0725
                                        g loss: 8.8348
Epoch [
         154/
                      d loss: 2.4362
                                        g loss: 23.8897
               250]
                    1
Epoch [
         154/
               250]
                    | d_loss: 0.0369
                                        g_loss: 5.6205
Epoch [
         154/
               250]
                    d loss: 0.2686
                                        g loss: 10.9750
Epoch [
         154/
               250]
                      d_loss: 0.0180
                                        g_loss: 5.8141
Epoch [
         154/
               250]
                    d loss: 0.0191
                                        g loss: 6.9179
Epoch [
         154/
               250]
                    | d loss: 0.0821
                                        g loss: 4.2565
Epoch [
         154/
               250] | d loss: 0.0955
                                        g_loss: 11.4268
         154/
                      d_loss: 0.0007
                                        g_loss: 11.4008
Epoch [
               250]
                    g_loss: 10.0635
Epoch [
         154/
               250]
                    d_loss: 0.0174
         154/
               250]
                    d loss: 0.0459
                                        g loss: 6.4407
Epoch [
Epoch [
         154/
               250]
                    d loss: 0.1451
                                        g_loss: 9.2700
         154/
Epoch [
               250]
                      d loss: 0.0810
                                        g loss: 7.9289
                                        g_loss: 8.6401
Epoch [
         154/
               250]
                      d_loss: 0.0068
Epoch [
         154/
               250] | d loss: 0.0230
                                        g loss: 7.1685
         154/
Epoch [
               250]
                      d_loss: 0.0303
                                        g_loss: 5.3888
Epoch [
         154/
               250] | d loss: 0.2442 | g loss: 4.8413
```

```
250] | d loss: 0.0078 |
Epoch [
         154/
                                        g loss: 15.1315
Epoch [
         154/
               250] | d loss: 0.3833
                                        g loss: 15.7137
                                        g_loss: 10.6037
Epoch [
         154/
               250] | d_loss: 0.0017
Epoch [
         154/
               250] | d loss: 0.0722
                                        g loss: 7.5716
         154/
                      d_loss: 0.0033
Epoch [
               250]
                                        g_loss: 6.5605
Epoch [
         154/
               250]
                    d loss: 0.0067
                                        g loss: 9.5670
Epoch [
         154/
               250]
                    d loss: 0.0099
                                        g loss: 4.9717
Epoch [
         154/
               250] | d loss: 0.1712
                                        g_loss: 8.6419
Epoch [
         154/
               250]
                    d_loss: 0.1752
                                        g_loss: 8.1723
         154/
                    d_loss: 0.0444
                                        g_loss: 16.2493
Epoch [
               250]
Epoch [
         154/
               250]
                    d loss: 1.0588
                                        g loss: 7.1078
Epoch [
         154/
               250]
                    d loss: 0.1260
                                        g_loss: 2.8761
Epoch [
         154/
               250]
                      d loss: 0.1788
                                        g loss: 10.6718
Epoch [
         155/
               250]
                    d_loss: 0.0026
                                        g_loss: 10.5044
         155/
Epoch [
               250] | d loss: 0.4805
                                        g_loss: 14.5800
         155/
                      d_loss: 0.0222
                                        g_loss: 25.6729
Epoch [
               250] |
Epoch [
         155/
               250]
                      d loss: 0.1200
                                        g loss: 5.5518
                    1
Epoch [
         155/
               250]
                    d loss: 0.0847
                                        g loss: 6.3934
         155/
               250]
                    d loss: 0.0243
                                        g_loss: 11.9031
Epoch [
         155/
Epoch [
               250]
                    | d_loss: 0.0191
                                        g_loss: 5.4790
         155/
                    d_loss: 0.1409
                                        g_loss: 8.3218
Epoch [
               250]
Epoch [
         155/
               250] | d loss: 0.4150
                                        g loss: 2.5074
Epoch [
         155/
               250] | d loss: 0.1095
                                        g loss: 4.9225
Epoch [
         155/
                      d loss: 0.2583
                                        g loss: 13.3907
               250]
                    1
Epoch [
         155/
               250]
                    | d_loss: 0.1281
                                        g_loss: 8.9636
Epoch [
         155/
               250]
                    | d loss: 0.0110
                                        g loss: 8.7666
         155/
                      d_loss: 0.0266
Epoch [
               250]
                                        g_loss: 14.4207
Epoch [
         155/
               250]
                    d loss: 0.0540
                                        g loss: 9.5074
Epoch [
         155/
               250]
                    d loss: 0.0541
                                        g loss: 5.7424
         155/
               250] | d loss: 0.2187
                                        g_loss: 4.3236
Epoch [
         155/
                      d_loss: 0.1574
                                        g_loss: 6.1377
Epoch [
               250]
                    155/
                    d_loss: 0.0332
                                        g_loss: 5.2881
Epoch [
               250]
Epoch [
         155/
               250] | d loss: 0.0277
                                        g loss: 17.6735
Epoch [
         155/
               250]
                    d loss: 0.0607
                                        g_loss: 9.6142
         155/
                    d loss: 0.0983
Epoch [
               250]
                                        g loss: 8.7061
Epoch [
         155/
               250]
                    | d_loss: 0.0135
                                        g_loss: 5.7446
         155/
Epoch [
               250]
                    d loss: 0.0758
                                        g_loss: 9.0245
         155/
                      d_loss: 0.0210
                                        g_loss: 2.8963
Epoch [
               250]
Epoch [
         155/
               250]
                      d loss: 0.0385
                                        g loss: 7.2657
                    155/
               250] | d loss: 0.0612
                                        g loss: 8.4360
Epoch [
         155/
               250] | d loss: 0.0179
                                        g_loss: 6.3595
Epoch [
         155/
                    | d_loss: 0.0115
Epoch [
               250]
                                        g_loss: 9.1793
                                        g_loss: 32.6735
         156/
                    d_loss: 3.4198
Epoch [
               250]
Epoch [
         156/
               250]
                    | d loss: 0.1358
                                        g loss: 5.7242
Epoch [
         156/
               250] | d loss: 0.0296
                                        g loss: 7.8483
Epoch [
         156/
                      d loss: 0.1706
                                        g loss: 11.6145
               250]
                    1
Epoch [
         156/
               250]
                    | d_loss: 0.0211
                                        g_loss: 6.6938
Epoch [
         156/
               250]
                    d loss: 0.1305
                                        g loss: 10.1319
Epoch [
         156/
               250]
                      d_loss: 0.0618
                                        g_loss: 8.2756
Epoch [
         156/
               250]
                      d loss: 0.0147
                                        g loss: 6.1069
Epoch [
         156/
               250]
                    d loss: 0.0272
                                        g loss: 4.8836
Epoch [
         156/
               250] | d loss: 0.0762
                                        g_loss: 7.7876
         156/
                      d_loss: 0.0291
                                        g_loss: 5.2471
Epoch [
               250]
                    1
Epoch [
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               250]
                    d_loss: 0.0107
                                        g_loss: 6.8451
                                        g_loss: 4.3006
         156/
               250]
                    d loss: 0.0401
Epoch [
Epoch [
         156/
               250]
                    d loss: 0.0247
                                        g_loss: 7.1168
         156/
Epoch [
               250]
                      d loss: 0.0230
                                        g loss: 9.8266
Epoch [
         156/
               250]
                    d_loss: 0.0108
                                        g_loss: 9.3475
Epoch [
         156/
               250] | d loss: 0.1889 |
                                        g loss: 4.5024
         156/
                      d_loss: 0.2561 |
Epoch [
               250]
                                        g_loss: 6.0847
Epoch [
         156/
               250] | d loss: 0.0711 | g loss: 23.3659
```

```
250] | d loss: 0.0037
Epoch [
         156/
                                        g loss: 7.4750
         156/
               250] | d loss: 0.0009
Epoch [
                                        g loss: 17.6818
                                        g_loss: 10.7471
Epoch [
         156/
               250] | d_loss: 0.0039
Epoch [
         156/
               250] | d loss: 0.0010
                                        g loss: 13.7372
         156/
                      d_loss: 0.0130
Epoch [
               250]
                                        g_loss: 6.5765
Epoch [
         156/
               250]
                    d loss: 0.0634
                                        g loss: 9.1038
Epoch [
         156/
               250]
                    | d loss: 0.0003
                                        g loss: 8.3822
Epoch [
         156/
               250] | d loss: 0.0638
                                        g_loss: 7.2499
Epoch [
         156/
               250]
                    d_loss: 0.0015
                                        g_loss: 7.4187
         156/
                    d_loss: 0.0099
                                        g_loss: 6.8371
Epoch [
               250]
Epoch [
         157/
               250]
                    d loss: 5.2177
                                        g loss: 28.5128
Epoch [
         157/
               250]
                    d loss: 0.4691
                                        g_loss: 13.6246
Epoch [
         157/
               250]
                      d loss: 0.1389
                                        g loss: 4.8635
Epoch [
         157/
               250]
                    d_loss: 0.0878
                                        g_loss: 8.6822
         157/
Epoch [
               250] | d loss: 0.2127
                                        g_loss: 3.1205
         157/
                      d_loss: 0.0210
                                        g_loss: 5.0389
Epoch [
               250]
Epoch [
         157/
               250]
                      d loss: 0.0759
                                        g loss: 6.4568
                    1
Epoch [
         157/
               250]
                    d loss: 0.0174
                                        g loss: 11.2799
         157/
                    | d loss: 0.0160
                                        g_loss: 9.8932
Epoch [
               250]
         157/
Epoch [
               250]
                    | d_loss: 0.1002
                                        g_loss: 5.6260
         157/
                    d_loss: 0.2599
                                        g_loss: 9.6718
Epoch [
               250]
Epoch [
         157/
               250] | d loss: 0.2883
                                        g loss: 2.5083
Epoch [
         157/
               250] | d loss: 0.0059
                                        g loss: 8.3490
Epoch [
         157/
                      d loss: 0.1476
                                        g loss: 9.8375
               250]
                    1
Epoch [
         157/
               250]
                    | d_loss: 0.1249 |
                                        g_loss: 9.1765
Epoch [
         157/
               250]
                    d loss: 0.0192
                                        g loss: 5.7038
         157/
                      d_loss: 0.1218
Epoch [
               250]
                                        g_loss: 5.8128
Epoch [
         157/
               250]
                    d loss: 0.1075
                                        g loss: 7.3026
Epoch [
         157/
               250]
                    | d loss: 0.1685
                                        g loss: 5.4724
         157/
               250] | d loss: 0.0346
                                        g_loss: 4.7733
Epoch [
         157/
                      d_loss: 0.0214
                                        g_loss: 9.4591
Epoch [
               250]
                    157/
                    d_loss: 0.0268
                                        g_loss: 7.7829
Epoch [
               250]
Epoch [
         157/
               250] | d loss: 0.0284
                                        g loss: 6.8887
Epoch [
         157/
               250]
                    d loss: 0.0112
                                        g_loss: 10.3222
         157/
                      d loss: 0.0855
Epoch [
               250]
                                        g loss: 6.3687
Epoch [
         157/
               250]
                    d_loss: 1.2404
                                        g_loss: 27.9459
         157/
Epoch [
               250] | d_loss: 0.0297
                                        g loss: 6.1318
         157/
                      d_loss: 0.1218
Epoch [
               250]
                                        g_loss: 6.2796
                                        g_loss: 6.8392
Epoch [
         157/
               250]
                      d loss: 0.0379 |
                    1
Epoch [
         158/
               250]
                    | d_loss: 14.5327 | g_loss: 29.1837
         158/
                    | d loss: 0.0345 |
Epoch [
               250]
                                        g loss: 6.0672
         158/
                    | d_loss: 0.0210
Epoch [
               250]
                                        g_loss: 8.6080
         158/
                    d_loss: 0.1633
                                        g_loss: 6.8824
Epoch [
               250]
Epoch [
         158/
               250]
                    d loss: 0.2064
                                        g loss: 6.8976
         158/
Epoch [
               250] | d loss: 0.1138
                                        g_loss: 7.7605
Epoch [
         158/
                      d loss: 0.0487
               250]
                    1
                                        g loss: 5.5638
Epoch [
         158/
               250]
                    | d_loss: 0.1546
                                        g_loss: 7.9638
Epoch [
         158/
               250]
                    d loss: 0.0688
                                        g loss: 7.2731
Epoch [
         158/
               250]
                      d_loss: 0.0313
                                        g_loss: 5.9928
Epoch [
         158/
               250]
                      d loss: 0.0326
                                        g loss: 5.7675
Epoch [
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               250]
                    d loss: 0.1736
                                        g loss: 8.9853
               250] | d_loss: 0.0290
Epoch [
         158/
                                        g_loss: 5.4688
         158/
                      d_loss: 0.0153
                                        g_loss: 6.4980
Epoch [
               250]
                    1
                                        g_loss: 14.2170
Epoch [
         158/
               250]
                    d_loss: 0.0100
         158/
               250]
                    | d loss: 0.0133
                                        g loss: 4.5797
Epoch [
Epoch [
         158/
               250]
                      d loss: 0.2849
                                        g_loss: 15.5719
         158/
Epoch [
               250]
                      d loss: 0.3339
                                        g loss: 2.9531
                                        g_loss: 6.8422
Epoch [
         158/
               250]
                      d_loss: 0.0444
Epoch [
         158/
               250] | d loss: 0.0032
                                        g loss: 6.1258
         158/
Epoch [
               250]
                      d_loss: 0.0150 |
                                        g_loss: 11.8884
Epoch [
         158/
               250] | d loss: 0.2702 | g loss: 8.8425
```

```
250] | d loss: 0.0018 |
Epoch [
         158/
                                        g loss: 8.2058
         158/
               250] | d loss: 0.1406
Epoch [
                                        g loss: 9.9803
                                        g_loss: 11.4655
Epoch [
         158/
               250] | d_loss: 0.1993
Epoch [
         158/
               250] | d loss: 0.0164
                                        g loss: 7.0889
         158/
                      d_loss: 0.0128
                                        g_loss: 9.2494
Epoch [
               250]
Epoch [
         158/
               250]
                    d loss: 0.0268
                                        g loss: 5.7442
Epoch [
         158/
               250]
                    | d loss: 0.0018
                                        g loss: 7.2117
Epoch [
         159/
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                                        g_loss: 5.5983
Epoch [
         159/
               250]
                    d_loss: 0.0314
                                        g_loss: 7.6506
         159/
                    | d_loss: 0.0190
                                        g_loss: 18.6595
Epoch [
               250]
                                        g_loss: 7.4583
         159/
               250]
                    d loss: 0.0013
Epoch [
Epoch [
         159/
               250]
                    d loss: 0.0286
                                        g_loss: 7.9244
Epoch [
         159/
               250]
                      d loss: 0.0595
                                        g loss: 7.5112
Epoch [
         159/
               250]
                    d_loss: 0.0859
                                        g_loss: 5.9959
         159/
Epoch [
               250] | d loss: 0.1021
                                        g_loss: 6.2147
         159/
                      d_loss: 0.0297
                                        g_loss: 10.3286
Epoch [
               250]
Epoch [
         159/
               250]
                      d loss: 0.0123
                                        g loss: 8.5213
                    1
Epoch [
         159/
               250]
                    d loss: 0.0051
                                        g loss: 12.4634
         159/
               250]
                    | d loss: 0.0207
                                        g_loss: 10.3107
Epoch [
         159/
                    | d_loss: 0.2619
                                        g_loss: 4.7190
Epoch [
               250]
         159/
                    | d_loss: 0.1781
                                        g_loss: 10.1595
Epoch [
               250]
Epoch [
         159/
               250] | d loss: 0.2649
                                        g loss: 13.4003
Epoch [
         159/
               250] | d loss: 0.1276
                                        g_loss: 8.8281
Epoch [
         159/
                      d loss: 0.0121
               250]
                    1
                                        g loss: 7.1140
Epoch [
         159/
               250]
                    | d_loss: 0.0060 |
                                        g_loss: 6.2833
Epoch [
         159/
               250]
                    d loss: 0.1001
                                        g loss: 8.5524
         159/
                      d_loss: 0.0205
Epoch [
               250]
                                        g_loss: 11.3047
Epoch [
         159/
               250]
                    d loss: 0.1048
                                        g loss: 5.9258
Epoch [
         159/
               250]
                    d loss: 0.0295
                                        g loss: 7.0696
         159/
               250] | d loss: 0.0060
                                        g_loss: 10.4073
Epoch [
         159/
                      d_loss: 0.0280
                                        g_loss: 7.5620
Epoch [
               250]
                    159/
                    d_loss: 0.0252
                                        g_loss: 5.4936
Epoch [
               250]
Epoch [
         159/
               250] | d loss: 0.0768
                                        g loss: 12.4792
Epoch [
         159/
               250]
                    d loss: 0.1624
                                        g_loss: 9.1387
         159/
                    d loss: 0.8615
                                        g_loss: 0.6265
Epoch [
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Epoch [
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               250]
                    | d_loss: 0.0668 |
                                        g_loss: 7.2514
Epoch [
         160/
               250] | d_loss: 11.9750 | g_loss: 32.8788
         160/
                      d_loss: 0.0151 |
                                        g_loss: 5.9416
Epoch [
               250]
Epoch [
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               250]
                      d loss: 0.3243
                                        g loss: 12.4334
                    1
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               250]
                    d loss: 0.1051
                                        g loss: 8.2817
Epoch [
                                        g_loss: 4.5956
         160/
                    d loss: 0.0361
Epoch [
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         160/
Epoch [
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                    | d_loss: 0.0875
                                        g_loss: 8.1985
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                    d_loss: 0.1652
                                        g_loss: 13.5193
Epoch [
               250]
Epoch [
         160/
               250]
                    d loss: 0.0061
                                        g loss: 8.1160
Epoch [
         160/
               250] | d loss: 0.0577
                                        g loss: 7.0047
Epoch [
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                      d loss: 0.0324
                                        g loss: 5.2760
               250]
                    1
Epoch [
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               250]
                    | d_loss: 0.0275
                                        g_loss: 5.8362
Epoch [
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                    d loss: 0.0036
                                        g_loss: 5.9374
Epoch [
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                                        g_loss: 6.2825
Epoch [
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               250]
                      d loss: 0.6523
                                        g loss: 7.5501
Epoch [
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               250]
                    d loss: 0.0907
                                        g loss: 7.9997
Epoch [
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               250] | d loss: 0.0613
                                        g_loss: 7.3882
         160/
                      d_loss: 0.1084
                                        g_loss: 7.1082
Epoch [
               250]
                    1
Epoch [
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               250]
                    d_loss: 0.4943
                                        g_loss: 2.2771
         160/
               250]
                    | d loss: 0.1040
                                        g loss: 5.0748
Epoch [
Epoch [
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                    d loss: 0.0370
                                        g_loss: 7.2917
         160/
Epoch [
               250]
                      d loss: 0.0200
                                        g loss: 5.7370
                                        g_loss: 8.9172
Epoch [
         160/
               250]
                      d_loss: 0.0381
Epoch [
         160/
               250] | d loss: 0.4275
                                        g loss: 14.4844
                      d_loss: 0.0147 |
Epoch [
         160/
               250]
                                        g_loss: 5.9440
Epoch [
         160/
               250] | d loss: 0.0241 | g loss: 5.8580
```

```
250] | d loss: 0.0170 |
Epoch [
         160/
                                        g loss: 6.0384
         160/
                    d loss: 0.0014
Epoch [
               250]
                                         g loss: 18.6382
                                         g_loss: 13.6275
Epoch [
         160/
               250] | d_loss: 0.0012
Epoch [
         160/
               250] | d loss: 0.0053
                                         g loss: 4.5305
         161/
                      d_loss: 9.9179
Epoch [
               250]
                                         g_loss: 30.9986
Epoch [
         161/
               250]
                     d loss: 0.2750
                                         g loss: 7.5261
Epoch [
         161/
               250]
                    | d loss: 0.0131
                                        g loss: 7.7396
Epoch [
         161/
               250] | d loss: 0.0060
                                         g_loss: 8.6819
Epoch [
         161/
               250]
                    d_loss: 0.0143
                                         g_loss: 6.0853
         161/
                    d_loss: 0.0116
                                         g_loss: 7.7372
Epoch [
               250]
         161/
                    d loss: 0.7118
                                         g loss: 21.8831
Epoch [
               250]
Epoch [
         161/
               250]
                      d loss: 0.1016
                                         g_loss: 7.1184
Epoch [
         161/
               250]
                      d loss: 0.2674
                                         g loss: 16.1975
Epoch [
         161/
               250]
                     d_loss: 0.1202
                                         g_loss: 3.0890
Epoch [
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               250]
                    d loss: 0.0271
                                         g_loss: 7.8071
         161/
                      d_loss: 0.0015
                                         g_loss: 11.0096
Epoch [
               250]
Epoch [
         161/
               250]
                      d loss: 0.0564
                                         g loss: 6.3844
                     1
Epoch [
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                    d loss: 0.0004
                                         g loss: 10.7937
         161/
                     d loss: 0.0151
                                         g_loss: 7.6416
Epoch [
               250]
         161/
Epoch [
               250]
                     | d_loss: 0.0262
                                         g_loss: 11.8447
                                        g_loss: 6.3808
         161/
                     | d_loss: 0.0058
Epoch [
               250]
         161/
               250]
                    d loss: 0.0277
                                         g loss: 6.0073
Epoch [
Epoch [
         161/
               250] | d loss: 0.0314
                                         g loss: 8.1688
Epoch [
         161/
                      d loss: 0.0482
               250]
                                         g loss: 6.2074
Epoch [
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                    | d_loss: 0.0018
                                         g_loss: 6.9440
Epoch [
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                                         g loss: 7.0256
         161/
                      d_loss: 0.0515
Epoch [
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                                         g_loss: 5.4481
Epoch [
         161/
               250]
                     d loss: 0.0252
                                         g loss: 6.4918
Epoch [
         161/
               250]
                    | d loss: 0.0670
                                         g loss: 6.8405
Epoch [
         161/
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                                         g_loss: 8.2734
         161/
                      d_loss: 0.5487
Epoch [
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                     1
                                         g_loss: 3.3581
         161/
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                                         g_loss: 8.8210
Epoch [
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Epoch [
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                                         g loss: 6.8293
Epoch [
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                                         g_loss: 32.1334
         162/
                      d loss: 0.0007
Epoch [
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                                         g loss: 14.1967
Epoch [
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               250]
                     d loss: 0.1147
                                         g_loss: 7.0596
Epoch [
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                                         g_loss: 6.4249
         162/
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                                         g_loss: 8.3249
Epoch [
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Epoch [
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                      d loss: 0.0844
                                         g loss: 7.4148
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         162/
               250]
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                                         g loss: 6.1953
Epoch [
         162/
                     d loss: 0.0392
                                         g_loss: 8.9951
Epoch [
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Epoch [
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                     | d_loss: 0.0375
                                         g_loss: 5.6171
         162/
                     | d_loss: 0.0193
                                         g_loss: 5.8563
Epoch [
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Epoch [
         162/
               250]
                    | d loss: 0.0078
                                         g loss: 5.9241
Epoch [
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                                         g loss: 10.1405
Epoch [
         162/
                      d loss: 0.0401
                                         g loss: 7.4432
               250]
                     1
Epoch [
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               250]
                    | d_loss: 0.2683
                                         g_loss: 4.0168
Epoch [
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               250]
                     d loss: 0.0015
                                         g loss: 8.6164
Epoch [
         162/
               250]
                      d_loss: 0.0628
                                         g_loss: 5.7692
Epoch [
         162/
               250]
                      d loss: 0.0198
                                         g loss: 9.9724
Epoch [
         162/
               250]
                     | d loss: 0.1160
                                         g loss: 19.1652
                                        g_loss: 7.8852
Epoch [
         162/
               250] | d loss: 0.0924
         162/
                      d_loss: 0.0596
                                         g_loss: 7.4524
Epoch [
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                     1
Epoch [
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               250]
                    d_loss: 0.1187
                                         g_loss: 9.5429
                                         g_loss: 7.0591
         162/
                    d loss: 0.0206
Epoch [
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Epoch [
         162/
               250]
                      d loss: 0.0554
                                         g_loss: 5.7505
         162/
Epoch [
               250]
                      d loss: 0.0068
                                         g loss: 8.9431
Epoch [
         162/
               250]
                      d_loss: 0.0080
                                        g_loss: 7.2129
Epoch [
         162/
               250] |
                      d loss: 0.0296
                                        g loss: 6.0217
Epoch [
         162/
               250]
                      d_loss: 0.1235
                                        g_loss: 5.1507
Epoch [
         162/
               250] | d loss: 0.0049 |
                                        g loss: 7.1767
```

```
250] | d loss: 0.0264 |
Epoch [
         162/
                                        g loss: 10.0548
         163/
                    d loss: 1.1479
                                        g loss: 22.2814
Epoch [
               250]
                                        g_loss: 5.1982
Epoch [
         163/
               250] | d_loss: 0.0138
Epoch [
         163/
               250] | d loss: 0.1392
                                        g loss: 5.5370
         163/
                      d_loss: 0.0652
Epoch [
               250]
                                        g_loss: 10.5621
Epoch [
         163/
               250]
                    d loss: 0.0678
                                        g loss: 9.1984
Epoch [
         163/
               250]
                    d loss: 0.0261
                                        g loss: 7.3552
Epoch [
         163/
               250] | d loss: 0.0912
                                        g_loss: 6.7544
Epoch [
         163/
               250]
                    d_loss: 0.0003
                                        g_loss: 12.1312
         163/
                    d_loss: 0.0043
                                        g_loss: 7.9402
Epoch [
               250]
         163/
               250]
                    d loss: 0.0049
                                        g loss: 8.9646
Epoch [
Epoch [
         163/
               250]
                    d loss: 0.0588
                                        g_loss: 7.9435
Epoch [
         163/
               250]
                    | d loss: 0.0416
                                        g loss: 5.4274
Epoch [
         163/
               250]
                    | d_loss: 0.0117
                                        g_loss: 9.5807
         163/
Epoch [
               250] | d loss: 0.0466
                                        g_loss: 7.1425
         163/
                      d_loss: 0.1054
                                        g_loss: 6.2200
Epoch [
               250]
Epoch [
         163/
               250]
                      d loss: 0.1150
                                        g loss: 14.0042
                    1
Epoch [
         163/
               250]
                    d loss: 0.0095
                                        g loss: 4.7033
         163/
                    | d loss: 0.0987
                                        g_loss: 12.3881
Epoch [
               250]
         163/
                                        g_loss: 6.5833
Epoch [
               250]
                    | d_loss: 0.0193
         163/
                    | d_loss: 0.0125
                                        g_loss: 6.6225
Epoch [
               250]
Epoch [
         163/
               250] | d loss: 0.0547
                                        g loss: 4.9747
Epoch [
         163/
               250] | d loss: 0.0031
                                        g loss: 9.0053
Epoch [
         163/
                      d loss: 0.0048
               250]
                    1
                                        g loss: 6.8612
Epoch [
         163/
               250]
                    | d_loss: 0.0259
                                        g_loss: 5.2354
Epoch [
         163/
               250]
                    d loss: 0.0569
                                        g loss: 9.1517
         163/
                      d_loss: 0.1681
Epoch [
               250]
                                        g_loss: 10.5917
Epoch [
         163/
               250]
                    d loss: 0.0256
                                        g loss: 6.9108
Epoch [
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               250]
                    | d loss: 0.0025
                                        g loss: 11.0101
Epoch [
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                                        g_loss: 9.0395
         164/
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                                        g_loss: 23.9049
Epoch [
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                    164/
                    d_loss: 0.0769
                                        g_loss: 7.1333
Epoch [
               250]
Epoch [
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               250]
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                                        g loss: 12.3630
Epoch [
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               250]
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                                        g_loss: 7.7459
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                                        g loss: 4.9870
Epoch [
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                    | d loss: 0.0377
Epoch [
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               250]
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                                        g_loss: 7.5728
         164/
Epoch [
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                                        g_loss: 10.8571
         164/
                      d_loss: 0.0166
                                        g_loss: 5.2948
Epoch [
               250]
Epoch [
         164/
               250]
                      d loss: 0.0236
                                        g loss: 5.2715
                    1
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               250]
                    d loss: 0.1981
                                        g loss: 11.8783
Epoch [
                                        g_loss: 3.6731
         164/
                    d loss: 0.0224
Epoch [
               250]
         164/
Epoch [
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                                        g_loss: 6.5972
                                        g_loss: 10.7176
         164/
                    d_loss: 0.0039
Epoch [
               250]
Epoch [
         164/
               250]
                    d loss: 0.0036
                                        g loss: 9.9119
         164/
Epoch [
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                                        g loss: 6.8305
Epoch [
         164/
                      d loss: 0.0175
               250]
                    1
                                        g loss: 6.9534
Epoch [
         164/
               250]
                    | d_loss: 0.1189
                                        g_loss: 12.6760
Epoch [
         164/
               250]
                    d loss: 0.1718
                                        g loss: 13.1653
Epoch [
         164/
               250]
                      d_loss: 0.0069
                                        g_loss: 4.4436
Epoch [
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               250]
                      d loss: 0.0025
                                        g loss: 10.7335
Epoch [
         164/
               250]
                    d loss: 0.0331
                                        g loss: 6.7354
Epoch [
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                                        g_loss: 25.1435
         164/
                      d_loss: 0.0347
                                        g_loss: 6.4343
Epoch [
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                    1
Epoch [
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                                        g_loss: 8.6773
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                    | d loss: 0.0042
                                        g loss: 6.9229
Epoch [
Epoch [
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                    d loss: 0.1665
                                        g_loss: 7.4506
         164/
Epoch [
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                      d loss: 0.2645
                                        g loss: 6.8712
                                        g_loss: 10.7177
Epoch [
         164/
               250]
                      d_loss: 0.0188
Epoch [
         164/
               250] | d loss: 0.0288
                                        g loss: 5.1968
Epoch [
         165/
               250]
                      d_loss: 8.2720 |
                                        g_loss: 34.2252
Epoch [
         165/
               250] | d loss: 0.0691 | g loss: 7.6564
```

```
250] | d loss: 0.0573 |
Epoch [
         165/
                                        g loss: 11.7576
         165/
               250] | d loss: 0.0946
Epoch [
                                        g loss: 5.6961
                                        g_loss: 10.4620
Epoch [
         165/
               250] | d_loss: 0.0039
Epoch [
         165/
               250] | d loss: 0.0104
                                        g loss: 6.4818
         165/
                    | d_loss: 0.0207
                                        g_loss: 4.9579
Epoch [
               250]
Epoch [
         165/
               250]
                    d loss: 0.0038
                                        g loss: 7.7691
Epoch [
         165/
               250]
                    d loss: 0.0124
                                        g loss: 7.6688
Epoch [
         165/
               250] | d loss: 0.0107
                                        g_loss: 5.4254
Epoch [
         165/
               250]
                    d_loss: 0.0497
                                        g_loss: 6.2698
         165/
                    d_loss: 0.0523
                                        g_loss: 7.0788
Epoch [
               250]
         165/
               250] | d loss: 0.0032
                                        g loss: 20.2336
Epoch [
Epoch [
         165/
               250]
                    d loss: 0.0008
                                        g loss: 13.1972
Epoch [
         165/
               250]
                    d loss: 0.2235
                                        g loss: 12.6463
Epoch [
         165/
               250]
                    d_loss: 0.0598
                                        g_loss: 8.4439
         165/
Epoch [
               250] | d loss: 0.0394
                                        g_loss: 9.3129
         165/
                      d_loss: 0.0394
                                        g_loss: 4.6247
Epoch [
               250] |
Epoch [
         165/
               250]
                      d loss: 0.0190
                                        g loss: 5.2939
                    1
Epoch [
         165/
               250]
                    d loss: 0.1944
                                        g loss: 3.4399
         165/
                    | d loss: 0.0385
                                        g_loss: 7.2916
Epoch [
               250]
         165/
                    | d_loss: 0.0047
Epoch [
               250]
                                        g_loss: 8.7772
         165/
                    | d_loss: 0.1918
                                        g_loss: 12.4466
Epoch [
               250]
Epoch [
         165/
               250] | d loss: 0.0758
                                        g loss: 9.2836
Epoch [
         165/
               250] | d loss: 0.1639
                                        g loss: 11.7525
Epoch [
         165/
                      d loss: 0.0113
                                        g loss: 7.8719
               250]
                    1
Epoch [
         165/
               250]
                    | d_loss: 0.2309 |
                                        g_loss: 8.9263
Epoch [
         165/
               250]
                    d loss: 0.3712
                                        g loss: 16.2271
         165/
                      d_loss: 0.1852
                                        g_loss: 5.4903
Epoch [
               250]
Epoch [
         166/
               250]
                    d loss: 9.5908
                                        g loss: 29.1937
Epoch [
         166/
               250]
                    | d loss: 0.1721
                                        g loss: 2.8661
Epoch [
         166/
               250] | d loss: 0.0145
                                        g_loss: 8.9992
         166/
                      d_loss: 0.0280
                                        g_loss: 3.0530
Epoch [
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                    166/
                    d_loss: 0.0523
                                        g_loss: 4.3012
Epoch [
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Epoch [
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                                        g loss: 6.3205
Epoch [
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               250]
                    | d loss: 0.0386
                                        g_loss: 5.8892
         166/
                    d loss: 0.0090
Epoch [
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                                        g loss: 7.3485
Epoch [
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               250]
                    d_loss: 0.0070
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Epoch [
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         166/
                      d_loss: 0.1208
                                        g_loss: 8.0658
Epoch [
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Epoch [
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                    d loss: 0.0327
                                        g loss: 7.8875
         166/
               250]
                    d loss: 0.2005
                                        g loss: 9.0383
Epoch [
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                                        g_loss: 4.0814
Epoch [
         166/
Epoch [
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                                        g_loss: 5.7771
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                                        g_loss: 8.4600
Epoch [
               250]
Epoch [
         166/
               250] | d loss: 0.0423
                                        g loss: 10.6658
Epoch [
         166/
               250] | d loss: 0.0012
                                        g loss: 15.1092
Epoch [
         166/
                      d loss: 0.0000
                                        g loss: 14.3921
               250]
                    1
Epoch [
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                    | d_loss: 0.1121
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Epoch [
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Epoch [
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Epoch [
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                                        g loss: 7.8353
Epoch [
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         166/
                      d_loss: 0.0253
                                        g_loss: 19.9169
Epoch [
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                    1
Epoch [
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                    d_loss: 0.0135
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                                        g_loss: 7.0446
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Epoch [
Epoch [
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                    | d_loss: 0.0041 |
                                        g_loss: 8.6926
         167/
                    | d loss: 11.3737 | g loss: 31.1811
Epoch [
               250]
Epoch [
         167/
               250]
                    | d_loss: 0.2066 | g_loss: 7.1362
Epoch [
         167/
               250] | d loss: 0.0015 |
                                        g loss: 8.7950
         167/
                      d_loss: 0.0009 |
                                        g_loss: 10.8415
Epoch [
               250] |
Epoch [
         167/
               250] | d loss: 0.0004 | g loss: 13.7257
```

```
250] | d loss: 0.0024 |
Epoch [
         167/
                                        g loss: 6.9161
         167/
               250] | d loss: 0.0096
Epoch [
                                        g loss: 6.3515
Epoch [
         167/
               250] | d_loss: 0.0213
                                        g_loss: 9.5871
Epoch [
         167/
               250] | d loss: 0.0481
                                        g loss: 8.5928
         167/
                      d_loss: 0.0111
Epoch [
               250]
                                        g_loss: 8.3623
Epoch [
         167/
               250]
                    d loss: 0.0820
                                        g loss: 8.3771
Epoch [
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               250]
                    | d loss: 0.0367
                                        g loss: 9.1125
Epoch [
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               250] | d loss: 0.0906
                                        g_loss: 8.5992
Epoch [
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                    d_loss: 0.0102
                                        g_loss: 14.2953
         167/
                    d_loss: 0.1289
                                        g_loss: 4.6453
Epoch [
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         167/
                    d loss: 0.0134
                                        g loss: 6.3154
Epoch [
               250]
Epoch [
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               250]
                    d loss: 0.0204
                                        g_loss: 4.7628
Epoch [
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               250]
                    | d loss: 0.0246
                                        g loss: 2.4911
Epoch [
         167/
               250]
                    | d_loss: 0.0871
                                        g_loss: 5.4266
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Epoch [
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                                        g_loss: 6.8661
         167/
                      d_loss: 0.2826
                                        g_loss: 13.7478
Epoch [
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Epoch [
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               250]
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                                        g loss: 5.4428
                    1
Epoch [
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                    d loss: 0.0708
                                        g loss: 8.2260
         167/
                    d loss: 0.0334
                                        g_loss: 8.0254
Epoch [
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         167/
Epoch [
               250]
                    | d_loss: 0.0204
                                        g_loss: 12.1428
         167/
                    d_loss: 0.0369
                                        g_loss: 7.3205
Epoch [
               250]
Epoch [
         167/
               250] | d loss: 0.0057
                                        g loss: 6.9387
         167/
Epoch [
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                                        g_loss: 7.7315
Epoch [
         167/
                      d loss: 0.1000
                                        g loss: 12.3342
               250]
Epoch [
         168/
               250]
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                                        g_loss: 26.1176
Epoch [
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                                        g loss: 7.9712
         168/
                      d_loss: 0.0024
                                        g_loss: 14.7413
Epoch [
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Epoch [
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                                        g loss: 10.4478
Epoch [
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                    d loss: 0.7275
                                        g loss: 0.6999
Epoch [
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                      d_loss: 0.0406
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Epoch [
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                    g_loss: 10.7609
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Epoch [
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Epoch [
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Epoch [
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                                        g loss: 7.5614
Epoch [
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                                        g_loss: 6.4290
Epoch [
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Epoch [
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                                        g loss: 6.8892
                    1
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                    d loss: 0.0049
                                        g loss: 8.1197
Epoch [
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                                        g_loss: 6.4398
Epoch [
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Epoch [
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                    | d_loss: 0.0203
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Epoch [
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Epoch [
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                    d loss: 0.3893
                                        g loss: 17.6875
         168/
Epoch [
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                                        g loss: 9.3523
Epoch [
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                      d loss: 0.0519
               250]
                    1
                                        g loss: 9.0264
Epoch [
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                    d_loss: 0.0420
                                        g_loss: 6.8457
Epoch [
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Epoch [
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                                        g loss: 11.1868
Epoch [
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               250]
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                                        g loss: 7.0796
Epoch [
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                                        g_loss: 8.3651
         168/
                      d_loss: 0.1664
                                        g_loss: 15.9622
Epoch [
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                    1
Epoch [
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                    d_loss: 0.3520
                                        g_loss: 16.7247
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                    | d loss: 0.0417
Epoch [
Epoch [
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Epoch [
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                                        g loss: 7.9558
Epoch [
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Epoch [
               250] |
                      d_loss: 0.0482
                                        g_loss: 10.5346
Epoch [
         169/
               250] | d loss: 0.0012 | g loss: 11.4650
```

```
250] | d loss: 0.0157 |
Epoch [
         169/
                                        g loss: 4.2968
         169/
               250] | d loss: 0.0012
Epoch [
                                        g loss: 6.7390
Epoch [
         169/
               250] | d_loss: 0.0268
                                        g_loss: 5.6769
Epoch [
         169/
               250] | d loss: 0.1549
                                        g loss: 4.1276
         169/
                      d_loss: 0.0084
Epoch [
               250]
                                        g_loss: 6.9497
Epoch [
         169/
               250]
                    d loss: 0.2854
                                        g loss: 16.4071
Epoch [
         169/
               250]
                    | d loss: 0.0271
                                        g loss: 6.4306
Epoch [
         169/
               250] | d loss: 0.0545
                                        g_loss: 7.7284
Epoch [
         169/
               250]
                    d_loss: 0.0016
                                        g_loss: 12.3277
         169/
                    | d_loss: 0.0190
                                        g_loss: 6.0820
Epoch [
               250]
         169/
               250]
                    d loss: 0.0028
                                        g loss: 4.9590
Epoch [
Epoch [
         169/
               250]
                    d loss: 0.0035
                                        g_loss: 7.4749
Epoch [
         169/
               250]
                    d loss: 0.0624
                                        g loss: 8.2803
Epoch [
         169/
               250]
                    | d_loss: 0.0437
                                        g_loss: 4.9099
         169/
Epoch [
               250] | d loss: 0.0069
                                        g loss: 8.9181
         169/
                      d_loss: 0.0054
                                        g_loss: 15.0770
Epoch [
               250]
Epoch [
         169/
               250]
                      d loss: 0.0399
                                        g loss: 7.4838
                    1
Epoch [
         169/
               250]
                    d loss: 0.0061
                                        g loss: 6.6076
         169/
                    | d loss: 0.0065
                                        g_loss: 7.0311
Epoch [
               250]
         169/
Epoch [
               250]
                    | d_loss: 0.0127
                                        g_loss: 7.5352
                                        g_loss: 15.0819
         169/
                    d_loss: 0.0182
Epoch [
               250]
Epoch [
         170/
               250] | d loss: 8.4001
                                        g loss: 37.9277
         170/
Epoch [
               250] | d loss: 0.1771
                                        g loss: 8.4459
Epoch [
         170/
                      d loss: 0.0261
               250]
                    1
                                        g loss: 7.1453
Epoch [
         170/
               250]
                    | d_loss: 0.0113
                                        g_loss: 7.0799
Epoch [
         170/
               250]
                    d loss: 0.0065
                                        g loss: 5.4080
         170/
                      d_loss: 0.0429
                                        g_loss: 6.0310
Epoch [
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Epoch [
         170/
               250]
                    d loss: 0.0534
                                        g loss: 8.4377
Epoch [
         170/
               250]
                    | d loss: 0.1766
                                        g loss: 10.9861
Epoch [
         170/
               250] | d loss: 0.0045
                                        g_loss: 7.2621
         170/
                      d_loss: 0.0101
                                        g_loss: 8.0008
Epoch [
               250]
                    170/
                    d_loss: 0.0096
                                        g_loss: 6.6858
Epoch [
               250]
Epoch [
         170/
               250]
                    | d loss: 0.0100
                                        g loss: 10.9198
Epoch [
         170/
               250]
                    d loss: 0.0176
                                        g_loss: 6.0738
         170/
Epoch [
               250]
                    | d loss: 0.0802
                                        g loss: 3.2560
                    d_loss: 0.0042
Epoch [
         170/
               250]
                                        g_loss: 11.8600
         170/
Epoch [
               250] | d loss: 0.0039
                                        g_loss: 9.2513
         170/
                      d_loss: 0.4344
                                        g_loss: 18.5769
Epoch [
               250] |
Epoch [
         170/
               250]
                      d loss: 0.5846
                                        g loss: 22.1959
                    170/
               250]
                    d loss: 0.1783
                                        g loss: 10.4051
Epoch [
         170/
                    | d loss: 0.0797
                                        g_loss: 12.9527
Epoch [
               250]
         170/
                                        g_loss: 9.3878
Epoch [
               250]
                    | d_loss: 0.0006
         170/
                    | d_loss: 0.0038
                                        g_loss: 7.5264
Epoch [
               250]
Epoch [
         170/
               250]
                    d loss: 0.0866
                                        g loss: 6.8952
Epoch [
         170/
               250] | d loss: 0.0744
                                        g loss: 8.0652
Epoch [
         170/
                      d loss: 0.0023
               250]
                    1
                                        g loss: 8.9316
                                        g_loss: 15.2166
Epoch [
         170/
               250]
                    | d_loss: 0.0646
Epoch [
         170/
               250]
                    d loss: 3.4662
                                        g loss: 17.2797
Epoch [
         170/
               250]
                      d_loss: 0.2429
                                        g_loss: 5.4906
Epoch [
         170/
               250]
                      d loss: 0.0430
                                        g loss: 8.4715
Epoch [
         171/
               250]
                    d loss: 0.0021
                                        g loss: 7.4947
         171/
               250] | d loss: 0.0320
                                        g_loss: 5.9915
Epoch [
                                        g_loss: 4.5977
         171/
                      d_loss: 0.1513
Epoch [
               250]
                    1
Epoch [
         171/
               250]
                    d_loss: 0.0058
                                        g_loss: 7.1038
                                        g_loss: 7.5892
         171/
               250]
                    | d loss: 0.0010
Epoch [
Epoch [
         171/
               250]
                    d loss: 0.1127
                                        g_loss: 5.8823
         171/
Epoch [
               250]
                      d loss: 0.0012
                                        g loss: 9.2191
Epoch [
         171/
               250]
                      d_loss: 0.0205
                                        g_loss: 3.9546
Epoch [
         171/
               250] | d loss: 0.0157
                                        g loss: 8.9185
         171/
Epoch [
               250] |
                      d_loss: 0.0150 |
                                        g_loss: 6.6028
Epoch [
         171/
               250] | d loss: 0.0328 | g loss: 7.2098
```

```
250] | d loss: 0.0170 |
Epoch [
         171/
                                        g loss: 7.1472
Epoch [
         171/
               250] | d loss: 0.1100
                                        g loss: 7.0011
                                        g_loss: 15.6693
Epoch [
         171/
               250] | d_loss: 0.0455
Epoch [
         171/
               250] | d loss: 0.0442
                                        g loss: 4.9090
         171/
                    d_loss: 0.0626
Epoch [
               250]
                                        g_loss: 5.9821
Epoch [
         171/
               250]
                    d loss: 0.1028
                                        g loss: 9.3740
Epoch [
         171/
               250]
                    | d loss: 0.0067
                                        g loss: 7.2161
Epoch [
         171/
               250] | d loss: 0.0451
                                        g_loss: 5.2327
Epoch [
         171/
               250]
                    d_loss: 0.0162
                                        g_loss: 7.9757
         171/
                    d_loss: 0.0408
                                        g_loss: 4.6848
Epoch [
               250]
         171/
               250] | d loss: 0.0219
                                        g loss: 6.8292
Epoch [
Epoch [
         171/
               250]
                    d loss: 0.0084
                                        g_loss: 7.3806
Epoch [
         171/
               250]
                    | d loss: 0.0101
                                        g loss: 8.8877
Epoch [
         171/
               250]
                    d_loss: 0.0021
                                        g_loss: 12.2528
Epoch [
         171/
               250] | d loss: 0.0580
                                        g_loss: 6.2400
         171/
                      d_loss: 0.2015
                                        g_loss: 4.5653
Epoch [
               250]
Epoch [
         171/
               250]
                      d loss: 0.0089
                                        g loss: 6.8900
                    Epoch [
         171/
               250]
                    d loss: 0.0015
                                        g loss: 10.4825
         172/
               250]
                    | d loss: 0.0977
                                        g_loss: 9.0685
Epoch [
         172/
Epoch [
               250]
                    | d_loss: 0.0304
                                        g_loss: 11.9086
         172/
                    d_loss: 0.2869
Epoch [
               250]
                                        g_loss: 15.8894
         172/
               250] | d loss: 0.0608
                                        g loss: 9.1771
Epoch [
Epoch [
         172/
               250] | d loss: 0.0032
                                        g loss: 6.4854
Epoch [
         172/
                      d loss: 0.0300
               250]
                    1
                                        g loss: 6.7822
Epoch [
         172/
               250]
                    d_loss: 0.2529
                                        g_loss: 5.3202
Epoch [
         172/
               250]
                    | d loss: 0.0140
                                        g loss: 6.3251
         172/
                      d_loss: 0.0144
Epoch [
               250]
                                        g_loss: 8.1765
Epoch [
         172/
               250]
                    d loss: 0.0462
                                        g loss: 6.0818
Epoch [
         172/
               250]
                    | d loss: 0.0128
                                        g loss: 6.0453
         172/
               250] | d loss: 0.0039
                                        g_loss: 7.2545
Epoch [
         172/
                      d_loss: 0.0157
                                        g_loss: 8.9430
Epoch [
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                    g_loss: 6.9004
         172/
                    d_loss: 0.0475
Epoch [
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Epoch [
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                                        g loss: 5.9011
Epoch [
         172/
               250]
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                                        g_loss: 12.7496
         172/
                    d loss: 0.0066
Epoch [
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                                        g loss: 4.0404
Epoch [
         172/
               250]
                    d_loss: 0.0364
                                        g_loss: 7.0421
Epoch [
         172/
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                                        g_loss: 4.3434
         172/
                      d_loss: 0.0614
                                        g_loss: 7.5201
Epoch [
               250] |
Epoch [
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               250]
                    d loss: 1.7765
                                        g loss: 34.3844
         172/
               250]
                    d loss: 0.0059
                                        g loss: 9.2441
Epoch [
         172/
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                                        g_loss: 8.7993
Epoch [
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Epoch [
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                    d_loss: 0.0423
                                        g_loss: 6.4861
         172/
                    d_loss: 0.0098
                                        g_loss: 4.7115
Epoch [
               250]
         172/
               250] | d loss: 0.0020
                                        g loss: 10.4212
Epoch [
Epoch [
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                                        g loss: 6.4879
Epoch [
         172/
                      d loss: 0.1632
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                    1
                                        g loss: 7.0700
Epoch [
         172/
               250]
                    | d_loss: 0.0087 |
                                        g_loss: 9.7909
Epoch [
         173/
               250]
                    | d loss: 10.4452 |
                                         g_loss: 34.8783
Epoch [
         173/
               250]
                      d_loss: 0.0736
                                        g_loss: 9.2540
Epoch [
         173/
               250]
                    d loss: 0.0090
                                        g loss: 6.1347
Epoch [
         173/
               250]
                    d loss: 0.0696
                                        g loss: 7.2185
         173/
               250] | d loss: 0.0028
                                        g_loss: 9.3262
Epoch [
         173/
                      d_loss: 0.0077
Epoch [
               250]
                    g_loss: 9.2380
Epoch [
         173/
               250]
                    | d_loss: 0.0645 |
                                        g_loss: 4.9063
                                        g_loss: 9.2152
         173/
               250] | d loss: 0.0115
Epoch [
Epoch [
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               250]
                    d loss: 0.0039
                                        g_loss: 5.9071
         173/
Epoch [
               250]
                    | d loss: 0.0153
                                        g loss: 5.6091
Epoch [
         173/
               250]
                    d_loss: 0.0270
                                        g_loss: 7.4175
Epoch [
         173/
               250] | d loss: 0.0873 |
                                        g loss: 7.3380
                      d_loss: 0.8750 |
Epoch [
         173/
               250] |
                                        g_loss: 27.3490
Epoch [
         173/
               250] | d loss: 0.0006 | g loss: 7.5221
```

```
250] | d loss: 0.0068 |
Epoch [
         173/
                                        g loss: 7.1590
         173/
               250] | d loss: 0.0356
Epoch [
                                        g loss: 7.9773
                                        g_loss: 6.2467
Epoch [
         173/
               250] | d_loss: 0.0116
Epoch [
         173/
               250] | d loss: 0.0585
                                        g loss: 5.2679
         173/
                      d_loss: 0.0033
Epoch [
               250]
                                        g_loss: 4.5807
Epoch [
         173/
               250]
                    d loss: 0.0061
                                        g loss: 6.6720
Epoch [
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               250]
                    | d loss: 0.0071
                                        g loss: 5.5923
Epoch [
         173/
               250] | d loss: 0.0053
                                        g loss: 5.0891
Epoch [
         173/
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                    d_loss: 0.0739
                                        g_loss: 8.9917
         173/
                    d_loss: 0.0233
                                        g_loss: 7.7221
Epoch [
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                    d loss: 0.0289
                                        g loss: 6.1909
Epoch [
Epoch [
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               250]
                    d loss: 0.0164
                                        g_loss: 8.7602
Epoch [
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               250]
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                                        g loss: 4.6477
Epoch [
         173/
               250]
                    d_loss: 0.0043
                                        g_loss: 7.5873
Epoch [
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               250] | d loss: 0.0051
                                        g_loss: 8.3256
         174/
                      d_loss: 5.4205
                                        g_loss: 39.8814
Epoch [
               250] |
Epoch [
         174/
               250]
                      d loss: 0.0378
                                        g loss: 5.5909
                    1
Epoch [
         174/
               250]
                    d loss: 0.0030
                                        g loss: 6.4749
         174/
               250]
                    d loss: 0.0581
                                        g_loss: 7.7746
Epoch [
         174/
Epoch [
               250]
                    | d_loss: 0.0229
                                        g_loss: 11.0541
                                        g_loss: 10.1444
         174/
                    | d_loss: 0.0011
Epoch [
               250]
Epoch [
         174/
               250] | d loss: 0.0258
                                        g loss: 8.4856
Epoch [
         174/
               250] | d loss: 0.0315
                                        g loss: 9.7914
Epoch [
         174/
                      d loss: 0.1197
               250]
                                        g loss: 4.3746
Epoch [
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                    | d_loss: 0.0042
                                        g_loss: 8.7037
Epoch [
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                    d loss: 0.0390
                                        g loss: 8.5655
         174/
                      d_loss: 0.0385
                                        g_loss: 4.7427
Epoch [
               250]
Epoch [
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                    d loss: 0.0065
                                        g loss: 9.0198
Epoch [
         174/
               250]
                    | d loss: 0.0338
                                        g loss: 4.8685
Epoch [
         174/
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                                        g_loss: 9.8006
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                      d_loss: 0.1032
Epoch [
               250]
                    g_loss: 12.8374
                                        g_loss: 14.2709
         174/
                    d_loss: 0.1482
Epoch [
               250]
Epoch [
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               250]
                    d loss: 0.0121
                                        g loss: 4.5140
Epoch [
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                    d loss: 0.0602
                                        g_loss: 5.4789
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                                        g loss: 7.8919
Epoch [
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                    | d loss: 0.0056
Epoch [
         174/
               250]
                    d_loss: 0.0630
                                        g_loss: 5.2478
         174/
Epoch [
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                    | d loss: 0.0081
                                        g_loss: 9.6970
         174/
                      d_loss: 0.0047
                                        g_loss: 4.5269
Epoch [
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Epoch [
         174/
               250]
                      d loss: 0.0058
                                        g loss: 7.6627
                    1
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               250]
                    d loss: 0.0003
                                        g loss: 8.0585
Epoch [
                                        g_loss: 8.1953
         174/
               250]
                    | d loss: 0.0389
Epoch [
         174/
Epoch [
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                    | d_loss: 0.0063
                                        g_loss: 7.0690
         174/
                    | d_loss: 0.0081
                                        g_loss: 7.5959
Epoch [
               250]
         174/
               250]
                    | d loss: 0.0015
                                        g loss: 7.1421
Epoch [
Epoch [
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                                        g loss: 25.8425
Epoch [
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                      d loss: 0.0013
                                        g loss: 13.1628
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                    1
                                        g_loss: 6.0434
Epoch [
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               250]
                    | d_loss: 0.0122
Epoch [
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                                        g loss: 9.6987
Epoch [
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                      d_loss: 0.0066
                                        g_loss: 6.6863
Epoch [
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                    d loss: 0.0536
                                        g loss: 6.2640
Epoch [
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                    | d loss: 0.0035
                                        g loss: 5.5716
         175/
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                                        g_loss: 7.0657
Epoch [
         175/
                      d_loss: 0.0749
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Epoch [
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                    g_loss: 19.9131
Epoch [
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                                        g loss: 5.7230
Epoch [
Epoch [
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                    | d loss: 0.0110
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         175/
Epoch [
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                      d loss: 0.0081
                                        g loss: 7.2248
Epoch [
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                    d_loss: 0.0157
                                        g_loss: 3.9035
Epoch [
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               250] | d loss: 0.0601
                                        g loss: 7.3497
         175/
Epoch [
               250] |
                      d_loss: 0.0076 |
                                        g_loss: 5.9158
Epoch [
         175/
               250] | d loss: 0.0015 | g loss: 13.4999
```

```
250] | d loss: 0.0407
Epoch [
         175/
                                        g loss: 8.4487
Epoch [
         175/
               250] | d loss: 0.0039
                                        g loss: 13.3903
                                        g_loss: 5.9473
Epoch [
         175/
               250] | d_loss: 0.0036
Epoch [
         175/
               250] | d loss: 0.0001
                                        g loss: 9.4292
         175/
                      d_loss: 0.0372
Epoch [
               250]
                                        g_loss: 6.2006
Epoch [
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               250]
                     d loss: 0.0778
                                        g loss: 10.7123
Epoch [
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               250]
                    | d loss: 0.0231
                                        g loss: 9.0193
Epoch [
         175/
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                                        g loss: 21.8154
Epoch [
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               250]
                    d_loss: 0.0007
                                        g_loss: 10.4114
         175/
                    d_loss: 0.0025
                                        g_loss: 8.8556
Epoch [
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         175/
               250] | d loss: 0.0082
                                        g loss: 8.5046
Epoch [
Epoch [
         175/
               250]
                     | d loss: 0.0100
                                        g loss: 11.4055
Epoch [
         176/
               250]
                     d loss: 4.7343
                                        g loss: 37.6448
Epoch [
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               250]
                     d_loss: 0.0011
                                        g_loss: 8.5816
Epoch [
         176/
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                                        g_loss: 5.1220
         176/
                      d_loss: 0.5182
                                        g_loss: 10.1606
Epoch [
               250] |
Epoch [
         176/
               250]
                      d loss: 0.0021
                                        g loss: 7.7091
                     1
Epoch [
         176/
               250]
                    d loss: 0.0495
                                        g loss: 11.2230
         176/
                    | d loss: 0.1064
                                        g_loss: 12.4450
Epoch [
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         176/
                                        g_loss: 10.4523
Epoch [
               250]
                     | d_loss: 0.0031
                                        g_loss: 18.7922
         176/
                     | d_loss: 0.0001
Epoch [
               250]
Epoch [
         176/
               250] | d loss: 0.0024
                                        g loss: 6.8940
Epoch [
         176/
               250] | d loss: 0.0149
                                        g loss: 11.4293
Epoch [
         176/
                      d loss: 0.0815
                                        g loss: 8.8660
               250]
                     1
Epoch [
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               250]
                    | d_loss: 0.0493
                                        g_loss: 8.1397
Epoch [
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               250]
                     d loss: 0.0303
                                        g loss: 5.8726
         176/
                      d_loss: 0.0080
                                        g_loss: 7.0393
Epoch [
               250]
Epoch [
         176/
               250]
                     d loss: 0.1633
                                        g loss: 10.7541
Epoch [
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               250]
                    | d loss: 0.0090
                                        g loss: 8.8815
         176/
               250] | d loss: 0.1534
                                        g_loss: 7.2333
Epoch [
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                                        g_loss: 6.5340
Epoch [
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                    176/
                    | d_loss: 0.0312
                                        g_loss: 9.9416
Epoch [
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Epoch [
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                                        g loss: 8.1325
Epoch [
         176/
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         176/
Epoch [
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                                        g loss: 8.3211
Epoch [
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                     d_loss: 0.0066
                                        g_loss: 10.2956
Epoch [
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                      d_loss: 0.0041
                                        g_loss: 5.5243
Epoch [
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Epoch [
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                     d loss: 0.0086
                                        g loss: 17.4773
         176/
               250]
                    d loss: 0.0027
                                        g loss: 8.3829
Epoch [
                                        g_loss: 5.9814
         176/
               250] | d loss: 0.0214
Epoch [
         177/
Epoch [
               250]
                     | d_loss: 8.8183
                                        g_loss: 35.6097
         177/
                     d_loss: 0.0431
                                        g_loss: 8.0999
Epoch [
               250]
         177/
               250] | d loss: 0.0008
                                        g loss: 7.3643
Epoch [
Epoch [
         177/
               250] | d loss: 0.0983
                                        g loss: 2.9758
Epoch [
         177/
                      d loss: 0.0614
                                        g loss: 9.4065
               250]
                     1
Epoch [
         177/
               250]
                    d_loss: 0.0163
                                        g_loss: 10.0453
Epoch [
         177/
               250]
                    d loss: 0.0009
                                        g loss: 8.8553
Epoch [
         177/
               250]
                      d_loss: 0.0115
                                        g_loss: 8.8000
Epoch [
         177/
               250]
                     d loss: 0.0525
                                        g loss: 7.4192
Epoch [
         177/
               250]
                    | d loss: 0.0008
                                        g loss: 9.9387
         177/
               250] | d loss: 0.0565
                                        g loss: 7.5732
Epoch [
         177/
                      d_loss: 0.1210
                                        g_loss: 8.6544
Epoch [
               250]
                    g_loss: 20.9075
Epoch [
         177/
               250]
                    | d_loss: 0.0178
                                        g_loss: 14.1276
         177/
               250] | d loss: 0.0004
Epoch [
Epoch [
         177/
               250]
                    | d loss: 0.0005
                                        g_loss: 8.9276
         177/
Epoch [
               250]
                     | d loss: 0.1513
                                        g loss: 10.2753
                                        g_loss: 6.3350
Epoch [
         177/
               250]
                     | d_loss: 0.0027
Epoch [
         177/
               250] | d loss: 0.0179
                                        g_loss: 6.0381
         177/
Epoch [
               250] |
                      d_loss: 0.0260 |
                                        g_loss: 6.3684
Epoch [
         177/
               250] | d loss: 0.0002 | g loss: 12.2288
```

```
250] | d loss: 0.0803 |
Epoch [
         177/
                                        g loss: 5.8069
Epoch [
         177/
               250] | d loss: 0.0175
                                        g loss: 7.1773
                                        g_loss: 9.1973
Epoch [
         177/
               250] | d_loss: 0.0054
Epoch [
         177/
               250] | d loss: 0.1507
                                        g loss: 10.7965
         177/
                      d_loss: 0.0129
Epoch [
               250]
                                        g_loss: 9.2520
Epoch [
         177/
               250]
                    d loss: 0.0042
                                        g loss: 7.7258
Epoch [
         177/
               250]
                    | d loss: 0.0665
                                        g loss: 7.8309
Epoch [
         177/
               250] | d loss: 0.0045
                                        g_loss: 6.0549
Epoch [
         177/
               250]
                    d_loss: 0.0602
                                        g_loss: 10.2498
         178/
                    d_loss: 9.6094
                                        g_loss: 41.5372
Epoch [
               250]
                                        g_loss: 7.0913
         178/
               250] | d loss: 0.1315
Epoch [
Epoch [
         178/
               250]
                    d loss: 0.0702
                                        g_loss: 5.7628
Epoch [
         178/
               250]
                    d loss: 0.1005
                                        g loss: 5.9534
Epoch [
         178/
               250]
                    d_loss: 0.0032
                                        g_loss: 8.4390
         178/
Epoch [
               250] | d loss: 0.0281
                                        g_loss: 7.6666
         178/
                      d_loss: 0.0040
                                        g_loss: 9.4018
Epoch [
               250] |
Epoch [
         178/
               250]
                    d loss: 0.0190
                                        g loss: 5.9416
Epoch [
         178/
               250] | d loss: 0.0055
                                        g loss: 7.9370
         178/
               250] | d loss: 0.0596
                                        g_loss: 4.4203
Epoch [
         178/
Epoch [
               250]
                    | d_loss: 0.0041
                                        g_loss: 9.3153
         178/
                    d_loss: 0.0024
                                        g_loss: 5.4337
Epoch [
               250]
Epoch [
         178/
               250] | d loss: 0.0035
                                        g loss: 4.9332
         178/
Epoch [
               250] | d loss: 0.8657
                                        g loss: 18.8492
Epoch [
         178/
                      d loss: 0.0487
               250]
                    1
                                        g loss: 5.6675
Epoch [
         178/
               250]
                    | d_loss: 0.0072
                                        g_loss: 5.4089
Epoch [
         178/
               250]
                    d loss: 0.0439
                                        g loss: 5.6991
         178/
                      d_loss: 0.0192
                                        g_loss: 4.8789
Epoch [
               250]
Epoch [
         178/
               250]
                    d loss: 0.0004
                                        g loss: 8.1257
Epoch [
         178/
               250]
                    | d loss: 0.0099
                                        g loss: 4.5301
Epoch [
         178/
               250] | d loss: 0.0065
                                        g_loss: 9.8452
         178/
                      d_loss: 0.0069
Epoch [
               250]
                    g_loss: 5.1631
         178/
                    d_loss: 0.0109
                                        g_loss: 8.8007
Epoch [
               250]
                                        g_loss: 7.6485
Epoch [
         178/
               250] | d loss: 0.0126
Epoch [
         178/
               250]
                    d loss: 0.0024
                                        g_loss: 16.2137
         178/
                    d loss: 0.1488
Epoch [
               250]
                                        g loss: 4.4388
                                        g_loss: 13.7717
Epoch [
         178/
               250]
                    d_loss: 0.0017
         178/
Epoch [
               250] | d loss: 0.0066
                                        g loss: 11.0884
         178/
                      d_loss: 0.0025 | g_loss: 7.0048
Epoch [
               250] |
Epoch [
         179/
               250]
                    | d loss: 12.9361 | g loss: 44.0735
         179/
               250] | d loss: 0.0369 |
                                        g loss: 7.0692
Epoch [
                                        g_loss: 8.0415
         179/
               250] | d loss: 0.0024
Epoch [
         179/
                    | d_loss: 0.1401
Epoch [
               250]
                                        g_loss: 11.1525
         179/
                    | d_loss: 0.0138
                                        g_loss: 8.2751
Epoch [
               250]
         179/
               250] | d loss: 0.0057
                                        g loss: 12.8949
Epoch [
Epoch [
         179/
               250] | d loss: 0.0121
                                        g loss: 7.4095
Epoch [
         179/
                      d loss: 0.0623
                                        g loss: 10.0259
               250]
                    Epoch [
         179/
               250]
                    | d_loss: 0.0008
                                        g_loss: 12.4452
Epoch [
         179/
               250]
                    d loss: 0.0073
                                        g loss: 5.6735
Epoch [
         179/
               250]
                      d_loss: 0.0010
                                        g_loss: 11.2729
Epoch [
         179/
               250]
                    d loss: 0.0031
                                        g loss: 14.2579
Epoch [
         179/
               250]
                    | d loss: 0.0009
                                        g loss: 6.3881
         179/
               250] | d loss: 0.0253
                                        g_loss: 12.3698
Epoch [
         179/
                      d_loss: 0.0203
                                        g_loss: 15.0914
Epoch [
               250]
                    g_loss: 11.9334
Epoch [
         179/
               250]
                    d_loss: 0.0906
                                        g_loss: 8.4463
         179/
               250] | d loss: 0.0041
Epoch [
Epoch [
         179/
               250]
                    | d loss: 0.0096
                                        g_loss: 10.8732
         179/
Epoch [
               250]
                    | d loss: 0.0078
                                        g loss: 6.6388
Epoch [
         179/
               250]
                    d_loss: 0.0004
                                        g_loss: 9.9148
Epoch [
         179/
               250] | d loss: 0.3733 |
                                        g loss: 20.6827
         179/
Epoch [
               250] |
                      d_loss: 0.1007 |
                                        g_loss: 6.3204
Epoch [
         179/
               250] | d loss: 0.0372 | g loss: 8.6313
```

```
250] | d loss: 0.0044 |
Epoch [
         179/
                                        g loss: 7.2580
Epoch [
         179/
               250] | d loss: 0.0121
                                        g loss: 6.6415
                                        g_loss: 8.0479
Epoch [
         179/
               250] | d_loss: 0.0118
Epoch [
         179/
               250] | d loss: 0.0117
                                        g loss: 7.3964
         179/
                      d_loss: 0.0027
Epoch [
               250]
                                        g_loss: 6.6324
Epoch [
         179/
               250]
                    d loss: 0.1502
                                        g loss: 10.3085
Epoch [
         180/
               250]
                    d loss: 7.4965
                                        g loss: 33.9637
Epoch [
         180/
               250] | d loss: 0.0528
                                        g_loss: 8.3128
Epoch [
         180/
               250]
                    d_loss: 0.0938
                                        g_loss: 4.6261
         180/
                    d_loss: 0.0025
                                        g_loss: 7.3754
Epoch [
               250]
         180/
               250]
                    d loss: 0.0001
                                        g loss: 11.5436
Epoch [
Epoch [
         180/
               250]
                    d loss: 0.0165
                                        g_loss: 7.1628
Epoch [
         180/
               250]
                    | d loss: 0.0131
                                        g loss: 7.2699
Epoch [
         180/
               250]
                    | d_loss: 0.0009
                                        g_loss: 7.3927
         180/
Epoch [
               250] | d loss: 0.0026
                                        g_loss: 6.0435
         180/
                      d_loss: 0.0259
                                        g_loss: 8.4190
Epoch [
               250] |
Epoch [
         180/
               250]
                      d loss: 0.0143
                                        g loss: 9.8589
                    1
Epoch [
         180/
               250]
                    d loss: 0.0017
                                        g loss: 7.5203
         180/
               250] | d loss: 0.0186
                                        g_loss: 9.4931
Epoch [
         180/
Epoch [
               250]
                    | d_loss: 0.0150
                                        g_loss: 7.9748
                                        g_loss: 12.4084
         180/
                    d_loss: 0.0330
Epoch [
               250]
Epoch [
         180/
               250] | d loss: 0.0175
                                        g loss: 9.1010
         180/
Epoch [
               250] | d loss: 0.1658
                                        g loss: 21.3021
Epoch [
         180/
                      d loss: 0.0034
                                        g loss: 12.2801
               250]
                    1
Epoch [
         180/
               250]
                    | d_loss: 0.0086
                                        g_loss: 9.5725
Epoch [
         180/
               250]
                    d loss: 0.0198
                                        g loss: 6.0181
         180/
                      d_loss: 0.0041
                                        g_loss: 7.4712
Epoch [
               250]
Epoch [
         180/
               250]
                    d loss: 0.0020
                                        g loss: 9.6257
Epoch [
         180/
               250]
                    | d loss: 0.0049
                                        g loss: 6.3611
Epoch [
         180/
               250] | d loss: 0.0024
                                        g_loss: 9.1272
         180/
                      d_loss: 0.0597
Epoch [
               250]
                    g_loss: 10.6222
         180/
                    d_loss: 0.0129
                                        g_loss: 9.5455
Epoch [
               250]
Epoch [
         180/
               250]
                    d loss: 0.0466
                                        g loss: 9.0442
Epoch [
         180/
               250]
                    d loss: 0.0065
                                        g_loss: 9.8413
         180/
                    d loss: 0.0912
Epoch [
               250]
                                        g loss: 6.3770
Epoch [
         181/
               250]
                    d_loss: 1.8042
                                        g_loss: 22.6544
Epoch [
         181/
               250]
                    d loss: 0.1852
                                        g_loss: 9.4825
         181/
                      d_loss: 0.0017
                                        g_loss: 8.2579
Epoch [
               250] |
Epoch [
         181/
               250]
                      d loss: 0.0009
                                        g loss: 6.1493
                    1
         181/
               250]
                    d loss: 0.0270
                                        g loss: 6.6777
Epoch [
         181/
                    | d loss: 0.0037
                                        g_loss: 5.6171
Epoch [
               250]
         181/
                    | d_loss: 0.0046
Epoch [
               250]
                                        g_loss: 3.8610
         181/
                    | d_loss: 0.1292
                                        g_loss: 13.2983
Epoch [
               250]
Epoch [
         181/
               250]
                    d loss: 0.0038
                                        g loss: 12.3496
Epoch [
         181/
               250] | d loss: 0.0326
                                        g loss: 7.2178
Epoch [
         181/
                      d loss: 0.0751
                                        g loss: 5.3995
               250]
                    1
Epoch [
         181/
               250]
                    | d_loss: 0.0178
                                        g_loss: 6.2775
Epoch [
         181/
               250]
                    d loss: 0.0263
                                        g loss: 8.0745
Epoch [
         181/
               250]
                      d_loss: 0.0191
                                        g_loss: 9.1481
Epoch [
         181/
               250]
                    d loss: 0.0203
                                        g loss: 9.5049
Epoch [
         181/
               250]
                    d loss: 0.2404
                                        g loss: 12.0568
Epoch [
         181/
               250] | d loss: 0.0601
                                        g_loss: 5.3576
         181/
                      d_loss: 0.0025
                                        g_loss: 7.0171
Epoch [
               250]
                    Epoch [
         181/
               250]
                    d_loss: 0.0108
                                        g_loss: 6.9728
         181/
               250]
                    d loss: 0.0037
                                        g loss: 9.6685
Epoch [
Epoch [
         181/
               250]
                    d loss: 0.0472
                                        g_loss: 9.3549
         181/
Epoch [
               250]
                      d loss: 0.0021
                                        g loss: 10.8897
                                        g_loss: 10.1734
Epoch [
         181/
               250]
                      d_loss: 0.0147
Epoch [
         181/
               250] | d loss: 0.0007
                                        g_loss: 25.2230
         181/
Epoch [
               250] |
                      d_loss: 0.0131
                                        g_loss: 7.2169
Epoch [
         181/
               250] | d loss: 0.0000 | g loss: 18.6300
```

```
250] | d loss: 0.0079 |
Epoch [
         181/
                                        g loss: 6.2044
         181/
               250] | d loss: 0.0380
Epoch [
                                        g loss: 6.1308
Epoch [
         181/
               250] | d_loss: 0.0029
                                        g_loss: 8.6606
Epoch [
         182/
               250] | d loss: 0.9871
                                        g loss: 23.5127
         182/
                      d_loss: 0.0037
                                        g_loss: 9.1527
Epoch [
               250]
Epoch [
         182/
               250]
                    d loss: 0.0010
                                        g loss: 9.7268
Epoch [
         182/
               250]
                    | d loss: 0.0488
                                        g loss: 5.9531
Epoch [
         182/
               250] | d loss: 0.0350
                                        g_loss: 10.0884
Epoch [
         182/
               250]
                    d_loss: 0.0036
                                        g_loss: 6.6215
         182/
                    | d_loss: 0.0039
                                        g_loss: 6.1109
Epoch [
               250]
         182/
               250]
                    d loss: 0.0145
                                        g loss: 9.7278
Epoch [
Epoch [
         182/
               250]
                    d loss: 0.0254
                                        g_loss: 5.7713
Epoch [
         182/
               250]
                      d loss: 0.1906
                                        g loss: 1.8145
Epoch [
         182/
               250]
                    d_loss: 0.0358
                                        g_loss: 7.4055
         182/
Epoch [
               250] | d loss: 0.0042
                                        g_loss: 7.7324
         182/
                      d_loss: 0.0058
                                        g_loss: 7.3102
Epoch [
               250]
Epoch [
         182/
               250]
                      d loss: 0.2163
                                        g loss: 4.6744
                    1
Epoch [
         182/
               250]
                    d loss: 0.0210
                                        g loss: 9.5687
         182/
                    | d loss: 0.0231
                                        g_loss: 8.8495
Epoch [
               250]
         182/
Epoch [
               250]
                    | d_loss: 0.0009
                                        g_loss: 6.6259
         182/
                    | d_loss: 0.0141
                                        g_loss: 8.4217
Epoch [
               250]
Epoch [
         182/
               250] | d loss: 1.2394
                                        g loss: 30.8842
         182/
Epoch [
               250] | d loss: 0.0016
                                        g loss: 10.0412
Epoch [
         182/
                      d loss: 0.0033
                                        g loss: 9.2705
               250]
                    1
Epoch [
         182/
               250]
                    | d_loss: 0.1344
                                        g_loss: 7.9630
Epoch [
         182/
               250]
                    d loss: 0.0103
                                        g loss: 9.2549
         182/
                      d_loss: 0.0358
                                        g_loss: 8.0549
Epoch [
               250]
Epoch [
         182/
               250]
                    d loss: 0.0852
                                        g loss: 5.8702
Epoch [
         182/
               250]
                    | d loss: 0.0015
                                        g loss: 10.8769
Epoch [
         182/
               250] | d loss: 0.0039
                                        g_loss: 7.0877
         182/
                      d loss: 0.0704
Epoch [
               250]
                    g_loss: 7.6272
         182/
                      d_loss: 0.0259 |
                                        g_loss: 6.4124
Epoch [
               250]
                    Epoch [
         183/
               250]
                    d loss: 11.4529
                                         g loss: 39.0624
Epoch [
         183/
               250]
                    d loss: 0.0018
                                        g loss: 12.5359
         183/
                                        g loss: 5.9949
Epoch [
               250]
                    | d loss: 0.0137
Epoch [
         183/
               250]
                    d_loss: 0.0453
                                        g_loss: 7.9554
         183/
Epoch [
               250]
                    | d loss: 0.0110
                                        g_loss: 6.6352
         183/
                      d_loss: 0.0048
                                        g_loss: 16.9643
Epoch [
               250]
Epoch [
         183/
               250]
                      d loss: 0.0039
                                        g loss: 8.0456
                    1
         183/
               250]
                    d loss: 0.0124
                                        g loss: 8.5585
Epoch [
                                        g_loss: 7.4846
         183/
                    d loss: 0.0064
Epoch [
               250]
         183/
                                        g_loss: 11.4636
Epoch [
               250]
                    | d_loss: 0.0008
                                        g_loss: 10.0643
         183/
                    | d_loss: 0.0010
Epoch [
               250]
Epoch [
         183/
               250]
                    | d loss: 0.0120
                                        g loss: 9.4074
Epoch [
         183/
               250] | d loss: 0.0209
                                        g loss: 5.2875
Epoch [
         183/
                      d loss: 0.0062
                                        g loss: 7.1068
               250]
                    1
Epoch [
         183/
               250]
                    | d_loss: 0.0085
                                        g_loss: 7.9006
Epoch [
         183/
               250]
                    d loss: 0.0008
                                        g loss: 11.6861
Epoch [
         183/
               250]
                      d_loss: 0.0384
                                        g_loss: 9.1857
Epoch [
         183/
               250]
                      d loss: 0.0121
                                        g loss: 9.4598
Epoch [
         183/
               250]
                    d loss: 0.0696
                                        g loss: 3.9298
Epoch [
         183/
               250] | d loss: 0.0368
                                        g_loss: 7.6539
         183/
                      d_loss: 0.0287
Epoch [
               250]
                    g_loss: 16.7107
Epoch [
         183/
               250]
                    d_loss: 0.0369
                                        g_loss: 6.7687
         183/
                    d loss: 0.0039
                                        g loss: 7.8391
Epoch [
               250]
Epoch [
         183/
               250]
                    d loss: 0.1268
                                        g_loss: 7.8931
         183/
Epoch [
               250]
                      d loss: 0.0001
                                        g loss: 16.7411
                                        g_loss: 6.8803
Epoch [
         183/
               250]
                      d_loss: 0.0105
Epoch [
         183/
               250] | d loss: 0.0048
                                        g loss: 5.0033
         183/
Epoch [
               250] |
                      d_loss: 0.0700 |
                                        g_loss: 13.6493
Epoch [
         183/
               250] | d loss: 0.2101 | g loss: 13.1933
```

```
250] | d loss: 15.9165 | g loss: 27.6339
Epoch [
         184/
Epoch [
         184/
               250] | d loss: 0.0848 |
                                        g loss: 5.9322
                                        g_loss: 6.5469
Epoch [
         184/
               250] | d_loss: 0.0070
Epoch [
         184/
               250] | d loss: 0.0342
                                        g loss: 7.2158
         184/
                      d_loss: 0.0617
Epoch [
               250]
                                        g_loss: 8.7103
Epoch [
         184/
               250]
                    d loss: 0.0403
                                        g loss: 11.7217
Epoch [
         184/
               250]
                    | d loss: 0.0099
                                        g loss: 9.2298
Epoch [
         184/
               250] | d loss: 0.0117
                                        g_loss: 9.0864
Epoch [
         184/
               250]
                    d_loss: 0.0088
                                        g_loss: 6.6849
         184/
                    d_loss: 0.0783
                                        g_loss: 8.3986
Epoch [
               250]
         184/
               250]
                    d loss: 0.0097
                                        g loss: 6.4056
Epoch [
Epoch [
         184/
               250]
                    d loss: 0.0095
                                        g_loss: 8.2348
Epoch [
         184/
               250]
                      d loss: 0.0141
                                        g loss: 8.0610
Epoch [
         184/
               250]
                    d_loss: 0.0041
                                        g_loss: 7.0503
         184/
Epoch [
               250] | d loss: 0.0798
                                        g_loss: 6.8192
         184/
                      d_loss: 0.0569
                                        g_loss: 5.4617
Epoch [
               250]
         184/
Epoch [
               250]
                      d loss: 0.0118
                                        g loss: 6.6270
                    1
Epoch [
         184/
               250]
                    d loss: 0.0201
                                        g loss: 14.7029
         184/
               250]
                    d loss: 0.0025
                                        g_loss: 9.0302
Epoch [
         184/
Epoch [
               250]
                    | d_loss: 0.0016
                                        g_loss: 7.0962
         184/
                    | d_loss: 0.0100
                                        g_loss: 5.8852
Epoch [
               250]
Epoch [
         184/
               250] | d loss: 0.0057
                                        g loss: 8.0934
         184/
Epoch [
               250] | d loss: 0.0039
                                        g_loss: 7.0871
Epoch [
         184/
                      d loss: 0.0064
                                        g loss: 6.7015
               250]
Epoch [
         184/
               250]
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                                        g_loss: 7.6277
Epoch [
         184/
               250]
                    d loss: 0.0033
                                        g loss: 7.0924
         184/
                      d_loss: 0.0096
                                        g_loss: 8.2811
Epoch [
               250]
Epoch [
         184/
               250]
                    d loss: 0.0006
                                        g loss: 7.5686
Epoch [
         184/
               250]
                    d loss: 0.0064
                                        g loss: 7.0993
Epoch [
         185/
               250] | d loss: 7.7677
                                        g_loss: 45.8226
         185/
                      d_loss: 0.2331
                                        g_loss: 5.8329
Epoch [
               250]
                    185/
                    d_loss: 0.0048
                                        g_loss: 5.3966
Epoch [
               250]
Epoch [
         185/
               250]
                    d loss: 0.1042
                                        g loss: 9.1757
Epoch [
         185/
               250]
                    d loss: 0.0192
                                        g_loss: 7.1848
         185/
                    d loss: 0.0048
Epoch [
               250]
                                        g loss: 8.4799
Epoch [
         185/
               250]
                    d_loss: 0.0054
                                        g_loss: 11.5006
         185/
Epoch [
               250]
                    d loss: 0.0228
                                        g_loss: 7.3518
         185/
                      d_loss: 0.0547
                                        g_loss: 5.2756
Epoch [
               250]
                    Epoch [
         185/
               250]
                      d loss: 0.0046
                                        g loss: 7.4431
                    1
         185/
               250]
                    d loss: 0.0059
                                        g loss: 7.8250
Epoch [
         185/
                    | d loss: 0.0043
                                        g_loss: 16.2391
Epoch [
               250]
         185/
Epoch [
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                    | d_loss: 0.0207
                                        g_loss: 6.9539
         185/
                    | d_loss: 0.0001
                                        g_loss: 5.9498
Epoch [
               250]
Epoch [
         185/
               250]
                    d loss: 0.0029
                                        g loss: 6.9777
Epoch [
         185/
               250] | d loss: 0.0013
                                        g loss: 9.9915
Epoch [
         185/
                      d loss: 0.0002
               250]
                    1
                                        g loss: 6.3100
Epoch [
         185/
               250]
                    | d_loss: 0.0312
                                        g_loss: 7.7292
Epoch [
         185/
               250]
                    d loss: 0.0228
                                        g loss: 7.2321
Epoch [
         185/
               250]
                      d_loss: 0.0029
                                        g_loss: 7.5035
Epoch [
         185/
               250]
                      d loss: 0.0078
                                        g loss: 6.4123
Epoch [
         185/
               250]
                    d loss: 0.0352
                                        g loss: 8.5718
Epoch [
         185/
               250] | d loss: 1.1483
                                        g_loss: 33.1372
         185/
                      d_loss: 0.0038
                                        g_loss: 6.6470
Epoch [
               250]
                    g_loss: 13.9337
Epoch [
         185/
               250]
                    d_loss: 0.0490
         185/
               250]
                    d loss: 0.0073
                                        g loss: 6.6016
Epoch [
Epoch [
         185/
               250]
                    d loss: 0.0643
                                        g_loss: 11.0513
         185/
Epoch [
               250]
                      d loss: 0.1143
                                        g loss: 5.5101
Epoch [
         185/
               250]
                      d_loss: 0.0025
                                        g_loss: 9.1237
Epoch [
         186/
               250] | d loss: 3.7525
                                        g loss: 34.0496
         186/
                      d_loss: 0.0207 |
Epoch [
               250]
                                        g_loss: 5.9357
Epoch [
         186/
               250] | d loss: 0.0820 | g loss: 8.2381
```

```
250] | d loss: 0.0010 |
Epoch [
         186/
                                        g loss: 7.7206
         186/
                    | d loss: 0.1698
Epoch [
               250]
                                        g loss: 13.9516
                                        g_loss: 15.8543
Epoch [
         186/
               250] | d_loss: 0.0019
Epoch [
         186/
               250] | d loss: 0.0166
                                        g loss: 7.8121
         186/
                      d_loss: 0.0071
Epoch [
               250]
                                        g_loss: 6.5911
Epoch [
         186/
               250]
                    d loss: 0.0109
                                        g loss: 5.7162
Epoch [
         186/
               250]
                    | d loss: 0.0165
                                        g loss: 5.2497
Epoch [
         186/
               250] | d loss: 0.0123
                                        g_loss: 7.2441
Epoch [
         186/
               250]
                    d_loss: 0.0010
                                        g_loss: 6.4652
         186/
                    d_loss: 0.0459
                                        g_loss: 7.0343
Epoch [
               250]
         186/
               250]
                    | d loss: 0.0101
                                        g loss: 6.4486
Epoch [
Epoch [
         186/
               250]
                    d loss: 0.0020
                                        g_loss: 8.0984
Epoch [
         186/
               250]
                      d loss: 0.0074
                                        g loss: 7.3581
Epoch [
         186/
               250]
                    d loss: 0.0194
                                        g_loss: 6.5908
         186/
Epoch [
               250] | d loss: 0.0040
                                        g_loss: 8.0954
         186/
                      d_loss: 0.0079
                                        g_loss: 9.8324
Epoch [
               250]
Epoch [
         186/
               250]
                      d loss: 0.0002
                                        g loss: 9.3337
                    1
Epoch [
         186/
               250]
                    | d loss: 0.0000
                                        g loss: 11.9531
         186/
                    d loss: 0.0023
                                        g_loss: 9.8271
Epoch [
               250]
         186/
Epoch [
               250]
                    | d_loss: 0.0027
                                        g_loss: 7.1602
         186/
                    d_loss: 0.0062
                                        g_loss: 10.3220
Epoch [
               250]
Epoch [
         186/
               250] | d loss: 0.0839
                                        g loss: 12.0600
         186/
Epoch [
               250] | d loss: 0.0011
                                        g loss: 8.6817
Epoch [
         186/
                      d loss: 0.5560
                                        g loss: 13.3609
               250]
Epoch [
         186/
               250]
                    d_loss: 0.0006
                                        g_loss: 9.0352
Epoch [
         186/
               250]
                    d loss: 0.0079
                                        g loss: 15.1337
         187/
                      d_loss: 7.4569
                                        g_loss: 38.5429
Epoch [
               250]
Epoch [
         187/
               250]
                    d loss: 0.0135
                                        g loss: 6.6347
Epoch [
         187/
               250]
                    | d loss: 0.1520
                                        g loss: 5.4067
Epoch [
         187/
               250] | d loss: 0.0030
                                        g_loss: 9.0965
         187/
                      d_loss: 0.0229
                                        g_loss: 7.4956
Epoch [
               250]
                    187/
                    | d_loss: 0.0186
                                        g_loss: 6.2906
Epoch [
               250]
Epoch [
         187/
               250] | d loss: 0.0029
                                        g loss: 7.4595
Epoch [
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               250]
                    d loss: 0.0062
                                        g_loss: 6.8612
         187/
                    d loss: 0.0104
Epoch [
               250]
                                        g loss: 7.7758
                    d_loss: 0.1485
Epoch [
         187/
               250]
                                        g_loss: 7.5879
         187/
Epoch [
               250] | d loss: 0.0034
                                        g_loss: 5.9656
         187/
                      d_loss: 0.0004
                                        g_loss: 7.2919
Epoch [
               250] |
Epoch [
         187/
               250]
                      d loss: 0.0447
                                        g loss: 8.5283
                    187/
               250]
                    d loss: 0.0061
                                        g loss: 10.1078
Epoch [
         187/
                    | d loss: 0.0481
                                        g_loss: 6.3138
Epoch [
               250]
         187/
Epoch [
               250]
                    | d_loss: 0.0006
                                        g_loss: 9.0939
         187/
                    d_loss: 0.0887
                                        g_loss: 7.1361
Epoch [
               250]
Epoch [
         187/
               250]
                    d loss: 0.0071
                                        g loss: 8.8065
         187/
Epoch [
               250] | d loss: 0.0118
                                        g loss: 9.9692
Epoch [
         187/
                      d loss: 0.0058
                                        g loss: 9.2825
               250]
                    1
Epoch [
         187/
               250]
                    d_loss: 0.0223
                                        g_loss: 5.6138
Epoch [
         187/
               250]
                    d loss: 0.0418
                                        g loss: 10.2030
Epoch [
         187/
               250]
                      d_loss: 0.0065
                                        g_loss: 8.2174
Epoch [
         187/
               250]
                      d loss: 0.0185
                                        g loss: 6.1385
Epoch [
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               250]
                    d loss: 0.0313
                                        g loss: 7.5398
Epoch [
         187/
               250] | d loss: 0.0086
                                        g_loss: 8.3281
         187/
                      d_loss: 0.0027
Epoch [
               250]
                    g_loss: 9.2123
Epoch [
         187/
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                    d_loss: 0.0121
                                        g_loss: 5.0466
                                        g_loss: 7.6688
         187/
                    | d loss: 0.0030 |
Epoch [
               250]
Epoch [
         188/
               250]
                    | d_loss: 17.7192 | g_loss: 41.1066
         188/
                      d loss: 0.0468 |
Epoch [
               250]
                                        g_loss: 7.9821
                                        g_loss: 10.2163
Epoch [
         188/
               250]
                    d_loss: 0.0217
Epoch [
         188/
               250] | d loss: 0.0348 |
                                        g loss: 7.9843
         188/
Epoch [
               250]
                      d_loss: 0.0306 |
                                        g_loss: 7.2177
Epoch [
         188/
               250 | d loss: 0.0071 | g loss: 12.7542
```

```
250] | d loss: 0.0024
Epoch [
         188/
                                         g loss: 8.3740
         188/
                     | d loss: 0.0662
Epoch [
               250]
                                         g loss: 5.7583
                                         g_loss: 7.4652
Epoch [
         188/
               250] | d_loss: 0.0083
Epoch [
         188/
                250] | d loss: 0.0008
                                         g loss: 6.3359
         188/
                       d_loss: 0.0057
Epoch [
               250]
                                         g_loss: 9.3671
Epoch [
         188/
               250]
                     | d loss: 0.1190
                                         g loss: 6.1932
Epoch [
         188/
               250]
                     | d loss: 0.0019
                                         g loss: 10.1885
Epoch [
         188/
                250] | d loss: 0.0006
                                         g_loss: 12.6560
Epoch [
         188/
               250]
                     d_loss: 0.0012
                                         g_loss: 8.4222
         188/
                     d_loss: 0.0013
                                         g_loss: 18.3066
Epoch [
                250]
         188/
                250]
                       d loss: 0.0014
                                         g loss: 6.3202
Epoch [
Epoch [
         188/
                250]
                       d loss: 0.0025
                                         g_loss: 7.2742
Epoch [
         188/
                250]
                       d loss: 0.0034
                                         g loss: 9.5699
Epoch [
         188/
               250]
                       d_loss: 0.1774
                                         g_loss: 5.7802
         188/
Epoch [
                250]
                    d loss: 0.0042
                                         g_loss: 9.7426
         188/
                       d_loss: 0.0006
                                         g_loss: 17.9312
Epoch [
               250]
Epoch [
         188/
               250]
                       d loss: 0.0246
                                         g loss: 5.5088
                     1
Epoch [
         188/
               250]
                    d loss: 0.0351
                                         g loss: 5.9906
         188/
                     d loss: 0.0618
                                         g_loss: 6.2075
Epoch [
                250]
         188/
Epoch [
               250]
                       d_loss: 0.0126
                                         g_loss: 9.6947
         188/
                     | d_loss: 0.0114
                                         g_loss: 6.0908
Epoch [
                250]
Epoch [
         188/
               250]
                    | d loss: 0.0008
                                         g loss: 13.2560
         188/
Epoch [
                250] | d loss: 0.0041
                                         g loss: 16.3677
Epoch [
         189/
                       d loss: 5.1529
               250]
                                         g loss: 46.0472
Epoch [
         189/
               250]
                     d_loss: 0.0017
                                         g_loss: 6.4097
Epoch [
         189/
                250]
                     d loss: 0.0115
                                         g_loss: 3.0296
         189/
                       d_loss: 0.0216
Epoch [
               250]
                                         g_loss: 6.3110
Epoch [
         189/
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                      d loss: 0.0081
                                         g loss: 6.3646
Epoch [
         189/
               250]
                     | d loss: 0.0298
                                         g loss: 7.6687
Epoch [
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                250] | d loss: 0.0568
                                         g_loss: 7.2022
         189/
                       d_loss: 0.0288
                                         g_loss: 6.8519
Epoch [
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                     1
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                     d_loss: 0.0176
                                         g_loss: 5.9027
Epoch [
               250]
Epoch [
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                    | d loss: 0.0203
                                         g loss: 6.1539
Epoch [
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                       d loss: 0.0178
                                         g_loss: 8.1624
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Epoch [
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                                         g loss: 6.9610
Epoch [
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                      d_loss: 0.0550
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         189/
Epoch [
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                     | d loss: 0.0048
                                         g_loss: 9.6266
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                                         g_loss: 9.4090
Epoch [
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Epoch [
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                      d loss: 0.0040
                                         g loss: 7.2962
                     1
         189/
               250]
                    | d loss: 0.0015
                                         g loss: 7.7458
Epoch [
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                     | d loss: 0.0099
                                         g_loss: 9.0558
Epoch [
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Epoch [
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         189/
                     | d_loss: 0.0074
Epoch [
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Epoch [
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                                         g loss: 10.3689
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Epoch [
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                                         g_loss: 10.6121
Epoch [
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                       d loss: 0.0148
                                         g loss: 7.3965
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                     1
Epoch [
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                     d_loss: 0.0033
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Epoch [
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Epoch [
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                       d_loss: 0.0055
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Epoch [
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                                         g loss: 8.9977
Epoch [
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                       d loss: 0.0104
                                         g loss: 7.5263
Epoch [
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                                         g_loss: 8.3480
         190/
                       d_loss: 0.9517
Epoch [
               250]
                     1
                                         g_loss: 26.1617
Epoch [
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                     d_loss: 0.0036
                                         g_loss: 5.9911
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                     | d loss: 0.0381
                                         g loss: 8.8467
Epoch [
Epoch [
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                       d loss: 0.0299
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         190/
Epoch [
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                                         g loss: 5.0509
Epoch [
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                       d_loss: 0.0058
                                         g_loss: 7.7515
Epoch [
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                       d loss: 0.0055
                                         g_loss: 7.2576
         190/
Epoch [
               250]
                       d_loss: 0.0015 |
                                         g_loss: 6.5020
Epoch [
         190/
               250] | d loss: 0.0350 | g loss: 7.1550
```

```
250] | d loss: 0.0027 |
Epoch [
         190/
                                        g loss: 6.0613
Epoch [
         190/
               250] | d loss: 0.0085
                                        g loss: 8.8191
                                        g_loss: 12.9077
Epoch [
         190/
               250] | d_loss: 0.0003
Epoch [
         190/
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                                        g loss: 11.0796
         190/
                      d_loss: 0.0004
                                        g_loss: 9.8113
Epoch [
               250]
Epoch [
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               250]
                    d loss: 0.0145
                                        g loss: 7.3234
         190/
Epoch [
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                    d loss: 0.0012
                                        g loss: 7.9991
Epoch [
         190/
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                                        g_loss: 7.0272
Epoch [
         190/
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                      d_loss: 0.0514
                                        g_loss: 6.2865
         190/
                    d_loss: 0.0003
                                        g_loss: 11.3580
Epoch [
               250]
Epoch [
         190/
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                                        g loss: 8.4068
Epoch [
         190/
               250]
                    d loss: 0.0027
                                        g_loss: 7.5160
Epoch [
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               250]
                    d loss: 0.0059
                                        g loss: 6.9380
Epoch [
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                    d_loss: 0.0051
                                        g_loss: 5.8098
         190/
Epoch [
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                                        g loss: 8.7175
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                                        g_loss: 7.9446
Epoch [
Epoch [
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                    d loss: 0.0012
                                        g loss: 7.9269
Epoch [
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                    d loss: 0.0026
                                        g loss: 6.7221
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                    | d loss: 0.0109
                                        g_loss: 8.9054
Epoch [
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                    | d_loss: 0.0237
Epoch [
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                                        g_loss: 9.5546
         191/
                    d_loss: 8.2214
                                        g_loss: 49.8995
Epoch [
               250]
Epoch [
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               250] | d loss: 0.1948
                                        g loss: 3.4014
         191/
Epoch [
               250] | d loss: 0.0035
                                        g loss: 4.7605
Epoch [
         191/
                      d loss: 0.0188
                                        g loss: 12.0268
               250]
                    1
Epoch [
         191/
               250]
                    | d_loss: 0.0021
                                        g_loss: 7.3165
Epoch [
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                    d loss: 0.0348
                                        g loss: 6.7345
         191/
                      d_loss: 0.0022
                                        g_loss: 6.6451
Epoch [
               250]
Epoch [
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               250]
                    d loss: 0.0016
                                        g loss: 19.4045
Epoch [
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               250]
                    | d loss: 0.0041
                                        g loss: 6.2502
         191/
               250] | d loss: 0.0064
                                        g_loss: 6.1067
Epoch [
         191/
                      d_loss: 0.0018
Epoch [
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                    g_loss: 9.3803
         191/
                    d_loss: 0.0059
                                        g_loss: 4.6888
Epoch [
               250]
Epoch [
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               250] | d loss: 0.0015
                                        g loss: 9.8639
Epoch [
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                    d loss: 0.0012
                                        g_loss: 6.8954
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                    d loss: 0.0093
Epoch [
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                                        g loss: 10.5844
Epoch [
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                    d_loss: 0.0024
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         191/
Epoch [
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                                        g_loss: 5.8449
         191/
                      d_loss: 0.0688
                                        g_loss: 8.6745
Epoch [
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Epoch [
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                    d loss: 0.0009
                                        g loss: 10.2037
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                    d loss: 0.0510
                                        g loss: 5.3340
Epoch [
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                    d loss: 0.0696
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Epoch [
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                                        g_loss: 11.5102
Epoch [
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                    d_loss: 0.1045
                                        g_loss: 7.5381
Epoch [
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                    d loss: 0.0004
                                        g loss: 4.3512
Epoch [
Epoch [
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                                        g loss: 11.7861
Epoch [
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               250]
                    1
                                        g_loss: 6.7667
Epoch [
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               250]
                    | d_loss: 0.1118
Epoch [
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                    d loss: 0.0126
                                        g loss: 6.2410
Epoch [
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                      d_loss: 0.0707 |
                                        g_loss: 8.5515
Epoch [
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                    | d loss: 11.2119 | g loss: 30.2789
Epoch [
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               250]
                    | d loss: 0.0128 |
                                        g loss: 6.6477
         192/
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                                        g loss: 6.2521
Epoch [
         192/
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Epoch [
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                    g_loss: 11.9385
Epoch [
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                    | d_loss: 0.0190 |
                                        g_loss: 7.5135
         192/
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                                        g loss: 6.9767
Epoch [
Epoch [
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         192/
Epoch [
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                                        g loss: 9.3432
                                        g_loss: 9.5758
Epoch [
         192/
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                    d_loss: 0.0006
Epoch [
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               250] | d loss: 0.0006 |
                                        g loss: 3.6885
         192/
Epoch [
               250] |
                      d_loss: 0.0264 |
                                        g_loss: 7.9545
Epoch [
         192/
               250] | d loss: 0.0261 | g loss: 7.1298
```

```
250] | d loss: 0.0026 |
Epoch [
         192/
                                        g loss: 9.3213
Epoch [
         192/
               250] | d loss: 0.0284
                                        g loss: 7.9727
                                        g_loss: 5.8843
Epoch [
         192/
               250] | d_loss: 0.0101
Epoch [
         192/
               250] | d loss: 0.0559
                                        g loss: 8.0472
         192/
                      d_loss: 0.1132
                                        g_loss: 4.2451
Epoch [
               250]
Epoch [
         192/
               250]
                    d loss: 0.0090
                                        g loss: 7.6595
Epoch [
         192/
               250]
                    | d loss: 0.0113
                                        g loss: 7.4369
Epoch [
         192/
               250] | d loss: 0.0026
                                        g_loss: 6.3532
Epoch [
         192/
               250]
                    d_loss: 0.0152
                                        g_loss: 7.3980
         192/
                    | d_loss: 0.0013
                                        g_loss: 16.7163
Epoch [
               250]
Epoch [
         192/
               250] | d loss: 0.0028
                                        g loss: 9.1390
Epoch [
         192/
               250]
                    d loss: 0.0008
                                        g_loss: 9.3546
Epoch [
         192/
               250]
                    d loss: 0.0119
                                        g loss: 12.1290
Epoch [
         192/
               250]
                    | d_loss: 0.0009
                                        g_loss: 7.5255
         192/
Epoch [
               250] | d loss: 0.0059
                                        g_loss: 7.2493
         192/
                      d_loss: 0.0039
                                        g_loss: 11.0433
Epoch [
               250] |
Epoch [
         192/
               250]
                      d loss: 0.0009
                                        g loss: 9.3564
                    Epoch [
         193/
               250]
                    d loss: 9.8027
                                        g loss: 54.7820
         193/
               250]
                    d loss: 0.0493
                                        g_loss: 9.6168
Epoch [
         193/
Epoch [
               250]
                    | d_loss: 0.1339
                                        g_loss: 6.7603
         193/
                    d_loss: 0.0053
                                        g_loss: 9.5134
Epoch [
               250]
Epoch [
         193/
               250] | d loss: 0.0008
                                        g loss: 10.5535
         193/
Epoch [
               250] | d loss: 0.0099
                                        g loss: 5.4984
Epoch [
         193/
                      d loss: 0.3873
                                        g loss: 7.8017
               250]
                    1
Epoch [
         193/
               250]
                    | d_loss: 0.0005
                                        g_loss: 9.4612
Epoch [
         193/
               250]
                    d loss: 0.0004
                                        g loss: 10.7059
         193/
                      d_loss: 0.0012
                                        g_loss: 6.8857
Epoch [
               250]
Epoch [
         193/
               250]
                    d loss: 0.0021
                                        g loss: 10.9155
Epoch [
         193/
               250]
                    | d loss: 0.0008
                                        g loss: 12.7497
Epoch [
         193/
               250] | d loss: 0.0010
                                        g_loss: 13.7725
         193/
                      d_loss: 0.0076
                                        g_loss: 5.9352
Epoch [
               250]
                    193/
                    d_loss: 0.0075
                                        g_loss: 4.1861
Epoch [
               250]
Epoch [
         193/
               250] | d loss: 0.7730
                                        g loss: 29.9611
Epoch [
         193/
               250]
                    d loss: 0.1436
                                        g_loss: 13.2182
         193/
                    d loss: 0.0280
Epoch [
               250]
                                        g loss: 7.4209
Epoch [
         193/
               250]
                    d_loss: 0.0323
                                        g_loss: 7.7154
         193/
Epoch [
               250] | d loss: 0.0073
                                        g_loss: 6.1136
         193/
                      d_loss: 0.0046
                                        g_loss: 10.4708
Epoch [
               250] |
Epoch [
         193/
               250]
                    d loss: 0.0038
                                        g loss: 9.3221
         193/
               250] | d loss: 0.0391
                                        g loss: 14.4789
Epoch [
                                        g_loss: 5.7338
         193/
               250] | d loss: 0.0021
Epoch [
         193/
                    d_loss: 0.0548
Epoch [
               250]
                                        g_loss: 7.0288
         193/
                    d_loss: 0.0020
                                        g_loss: 7.5314
Epoch [
               250]
Epoch [
         193/
               250] | d loss: 0.0013
                                        g loss: 6.2247
         193/
Epoch [
               250] | d loss: 0.1412
                                        g loss: 6.4718
Epoch [
         193/
                      d loss: 0.0063 |
               250]
                    1
                                        g loss: 6.8143
Epoch [
         194/
               250]
                    | d_loss: 19.7291 | g_loss: 29.7706
Epoch [
         194/
               250]
                    d loss: 0.0864
                                        g loss: 8.3552
Epoch [
         194/
               250]
                      d_loss: 0.1593
                                        g_loss: 4.3945
Epoch [
         194/
               250]
                    d loss: 0.0023
                                        g loss: 6.2698
         194/
Epoch [
               250]
                    d loss: 0.0155
                                        g loss: 9.8354
Epoch [
         194/
               250] | d loss: 0.0854
                                        g_loss: 5.7526
         194/
                      d_loss: 0.0022
                                        g_loss: 8.4500
Epoch [
               250]
                    Epoch [
         194/
               250]
                    d_loss: 0.0032
                                        g_loss: 7.2678
         194/
               250]
                    d loss: 0.0077
                                        g loss: 7.1508
Epoch [
Epoch [
         194/
               250]
                    d loss: 0.0146
                                        g_loss: 9.0023
         194/
Epoch [
               250]
                    | d loss: 0.0002
                                        g loss: 8.5844
                                        g_loss: 6.7039
Epoch [
         194/
               250]
                    d_loss: 0.1265
Epoch [
         194/
               250] | d loss: 0.0009
                                        g_loss: 6.9822
         194/
Epoch [
               250] |
                      d_loss: 0.0009 |
                                        g_loss: 6.4520
Epoch [
         194/
               250] | d loss: 0.0063 | g loss: 12.7604
```

```
250] | d loss: 0.0268 |
Epoch [
         194/
                                        g loss: 9.0362
Epoch [
         194/
               250] | d loss: 0.0139
                                        g loss: 8.8688
                                        g_loss: 10.2402
Epoch [
         194/
               250] | d_loss: 0.0463
Epoch [
         194/
               250] | d loss: 0.0184
                                        g loss: 7.9416
         194/
                      d_loss: 0.0016
                                        g_loss: 6.9739
Epoch [
               250]
Epoch [
         194/
               250]
                    d loss: 0.0009
                                        g loss: 9.1081
         194/
Epoch [
               250]
                    | d loss: 0.0090
                                        g loss: 5.4009
Epoch [
         194/
               250] | d loss: 0.0042
                                        g_loss: 9.8122
Epoch [
         194/
               250]
                    d_loss: 0.0875
                                        g_loss: 8.7901
         194/
                    d_loss: 0.0236
                                        g_loss: 7.0757
Epoch [
               250]
Epoch [
         194/
               250]
                    d loss: 0.0072
                                        g loss: 9.6402
Epoch [
         194/
               250]
                    d loss: 0.0135
                                        g_loss: 8.3484
Epoch [
         194/
               250]
                      d loss: 0.0010
                                        g loss: 12.9462
Epoch [
         194/
               250]
                    d_loss: 0.0502
                                        g_loss: 9.1517
         195/
Epoch [
               250] | d loss: 5.0162
                                        g loss: 45.5754
         195/
                      d_loss: 0.0066
                                        g_loss: 8.2354
Epoch [
               250]
Epoch [
         195/
               250]
                      d loss: 0.0029
                                        g loss: 7.4265
                    1
Epoch [
         195/
               250]
                    d loss: 0.0180
                                        g loss: 9.8119
         195/
               250]
                    | d loss: 0.0175
                                        g_loss: 8.2650
Epoch [
         195/
Epoch [
               250]
                    | d_loss: 0.0032
                                        g_loss: 7.9603
         195/
                    | d_loss: 0.0014
                                        g_loss: 8.7288
Epoch [
               250]
Epoch [
         195/
               250] | d loss: 0.0024
                                        g loss: 7.0929
Epoch [
         195/
               250] | d loss: 0.0294
                                        g_loss: 9.0475
Epoch [
         195/
                      d loss: 0.0182
                                        g loss: 7.3357
               250]
                    1
Epoch [
         195/
               250]
                    | d_loss: 0.0207
                                        g_loss: 6.7335
Epoch [
         195/
               250]
                    d loss: 0.0395
                                        g loss: 8.2155
         195/
                      d_loss: 0.0064
Epoch [
               250]
                                        g_loss: 6.9716
Epoch [
         195/
               250]
                    d loss: 0.4478
                                        g loss: 22.9337
Epoch [
         195/
               250]
                    | d loss: 0.0010
                                        g loss: 5.3519
Epoch [
         195/
               250] | d loss: 0.0037
                                        g_loss: 8.1719
         195/
                      d_loss: 0.0027
                                        g_loss: 12.7480
Epoch [
               250]
                    195/
                    d_loss: 0.0042
                                        g_loss: 7.0927
Epoch [
               250]
                                        g_loss: 7.4842
Epoch [
         195/
               250] | d loss: 0.0007
Epoch [
         195/
               250]
                    d loss: 0.0041
                                        g_loss: 7.9518
         195/
                    d loss: 0.0009
Epoch [
               250]
                                        g loss: 9.8480
Epoch [
         195/
               250]
                    | d_loss: 0.0006
                                        g_loss: 9.8522
         195/
Epoch [
               250]
                    | d loss: 0.0005
                                        g_loss: 16.3232
         195/
                      d_loss: 0.0035
                                        g_loss: 7.4710
Epoch [
               250]
Epoch [
         195/
               250]
                      d loss: 0.0139
                                        g loss: 7.7192
                    195/
               250]
                    d loss: 0.0271
                                        g loss: 10.9495
Epoch [
                                        g_loss: 7.9626
         195/
               250] | d loss: 0.0035
Epoch [
         195/
                    | d_loss: 0.0030
Epoch [
               250]
                                        g_loss: 7.2745
         195/
                    | d_loss: 0.0146
                                        g_loss: 8.6156
Epoch [
               250]
Epoch [
         196/
               250]
                    d loss: 8.0539
                                        g loss: 45.0178
         196/
Epoch [
               250] | d loss: 0.0135
                                        g loss: 7.7947
Epoch [
         196/
                      d loss: 0.0063
                                        g loss: 8.5132
               250]
                    1
Epoch [
         196/
               250]
                    | d_loss: 0.0129
                                        g_loss: 7.6600
Epoch [
         196/
               250]
                    d loss: 0.0008
                                        g loss: 6.7337
Epoch [
         196/
               250]
                      d_loss: 0.0190
                                        g_loss: 9.0502
Epoch [
         196/
               250]
                      d loss: 0.0013
                                        g loss: 7.4575
Epoch [
         196/
               250]
                    d loss: 0.0380
                                        g loss: 5.3053
Epoch [
         196/
               250] | d loss: 0.0014
                                        g_loss: 10.5383
         196/
                      d_loss: 0.0010
                                        g_loss: 12.4033
Epoch [
               250]
                    Epoch [
         196/
               250]
                    d_loss: 0.0353
                                        g_loss: 8.7597
         196/
               250]
                    | d loss: 0.0169
                                        g loss: 7.1061
Epoch [
Epoch [
         196/
               250]
                    d loss: 0.2745
                                        g_loss: 4.0402
         196/
Epoch [
               250]
                      d loss: 0.0061
                                        g loss: 8.2644
Epoch [
         196/
               250]
                      d_loss: 0.0056
                                        g_loss: 9.1903
Epoch [
         196/
               250] | d loss: 0.0167
                                        g loss: 7.5880
         196/
                                        g_loss: 4.4044
Epoch [
               250] |
                      d_loss: 0.0046 |
Epoch [
         196/
               250] | d loss: 0.0006 |
                                        g loss: 10.0672
```

```
250] | d loss: 0.0086 |
Epoch [
         196/
                                        g loss: 9.3492
         196/
               250] | d loss: 0.0445
Epoch [
                                        g loss: 9.4050
                                        g_loss: 8.1140
Epoch [
         196/
               250] | d_loss: 0.0012
Epoch [
         196/
               250] | d loss: 0.0012
                                        g loss: 12.8930
         196/
                      d_loss: 0.0066
                                        g_loss: 10.0597
Epoch [
               250]
Epoch [
         196/
               250]
                    d loss: 0.0403
                                        g loss: 18.7536
         196/
Epoch [
               250]
                    | d loss: 0.0036
                                        g loss: 6.1458
Epoch [
         196/
               250] | d loss: 0.0047
                                        g_loss: 9.3408
Epoch [
         196/
               250]
                    d_loss: 0.0018
                                        g_loss: 8.0886
         196/
                    d_loss: 0.0052
                                        g_loss: 11.3665
Epoch [
               250]
                                        g_loss: 7.5243
         196/
               250]
                    | d loss: 0.0026 |
Epoch [
Epoch [
         197/
               250]
                    | d loss: 17.6739 |
                                         g_loss: 27.0224
Epoch [
         197/
               250]
                    d loss: 0.0324
                                        g loss: 6.8889
Epoch [
         197/
               250]
                    d_loss: 0.0043
                                        g_loss: 6.0399
         197/
Epoch [
               250] | d loss: 0.0087
                                        g loss: 7.5168
         197/
                      d_loss: 0.0339
                                        g_loss: 9.8987
Epoch [
               250] |
Epoch [
         197/
               250]
                      d loss: 0.0034
                                        g loss: 9.4058
                    1
Epoch [
         197/
               250] | d loss: 0.0234
                                        g loss: 14.4338
         197/
               250] | d loss: 0.0191
                                        g_loss: 7.1537
Epoch [
         197/
Epoch [
               250]
                    | d_loss: 0.0016
                                        g_loss: 9.2968
                                        g_loss: 18.3217
         197/
                    d_loss: 0.0024
Epoch [
               250]
         197/
               250] | d loss: 0.0100
                                        g loss: 6.9626
Epoch [
         197/
Epoch [
               250] | d loss: 0.0329
                                        g loss: 12.5945
Epoch [
         197/
                      d loss: 0.0109
                                        g loss: 7.5976
               250]
                    1
Epoch [
         197/
               250]
                    | d_loss: 0.0079 |
                                        g_loss: 12.1712
Epoch [
         197/
               250]
                    d loss: 0.0157
                                        g loss: 11.4420
         197/
                      d_loss: 0.0034
                                        g_loss: 8.0149
Epoch [
               250]
Epoch [
         197/
               250]
                    d loss: 0.0023
                                        g loss: 7.8661
Epoch [
         197/
               250]
                    | d loss: 0.0012
                                        g loss: 8.3423
         197/
               250] | d loss: 0.0075
                                        g_loss: 8.5333
Epoch [
         197/
                      d_loss: 0.0034
Epoch [
               250]
                    g_loss: 7.8782
         197/
                    | d_loss: 0.0411
                                        g_loss: 7.9124
Epoch [
               250]
Epoch [
         197/
               250] | d loss: 0.0874
                                        g loss: 11.1111
Epoch [
         197/
               250]
                    d loss: 0.0087
                                        g_loss: 11.1141
         197/
                                        g loss: 12.5549
Epoch [
               250]
                    d loss: 0.0024
Epoch [
         197/
               250]
                    | d_loss: 0.0003
                                        g_loss: 11.5097
         197/
Epoch [
               250] | d loss: 0.0027
                                        g_loss: 7.7362
         197/
                      d_loss: 0.0039
                                        g_loss: 6.7464
Epoch [
               250] |
Epoch [
         197/
               250]
                    d loss: 0.0002
                                        g loss: 7.6181
         197/
               250] | d loss: 0.0363
                                        g loss: 10.1148
Epoch [
         198/
               250] | d loss: 8.7317
                                        g_loss: 48.7901
Epoch [
         198/
                                        g_loss: 7.2136
Epoch [
               250]
                    | d_loss: 0.0082
         198/
                    d_loss: 0.0594
                                        g_loss: 7.6097
Epoch [
               250]
Epoch [
         198/
               250]
                    d loss: 0.0062
                                        g loss: 9.3647
         198/
Epoch [
               250] | d loss: 0.0143
                                        g_loss: 8.6211
Epoch [
         198/
                      d loss: 0.0113
               250]
                    1
                                        g loss: 5.6450
                                        g_loss: 6.1852
Epoch [
         198/
               250]
                    | d_loss: 0.0152
Epoch [
         198/
               250]
                    d loss: 0.0043
                                        g loss: 4.9640
Epoch [
         198/
               250]
                      d_loss: 0.0010
                                        g_loss: 7.4502
Epoch [
         198/
               250]
                      d loss: 0.1827
                                        g loss: 12.5303
         198/
Epoch [
               250]
                    | d loss: 0.0017
                                        g loss: 11.2237
Epoch [
         198/
               250] | d loss: 0.0047
                                        g_loss: 9.9406
         198/
                      d_loss: 0.0001
                                        g_loss: 9.4185
Epoch [
               250]
                    Epoch [
         198/
               250]
                    d_loss: 0.0214
                                        g_loss: 6.9292
         198/
               250]
                    | d loss: 0.0014
                                        g loss: 6.1845
Epoch [
Epoch [
         198/
               250]
                    d loss: 0.0122
                                        g_loss: 7.0651
         198/
Epoch [
               250]
                    | d loss: 0.0138
                                        g loss: 8.0941
Epoch [
         198/
               250]
                    d_loss: 0.0313
                                        g_loss: 11.1301
Epoch [
         198/
               250] | d loss: 0.0068
                                        g loss: 8.0212
         198/
Epoch [
               250] |
                      d_loss: 0.0167 |
                                        g_loss: 6.5089
Epoch [
         198/
               250] | d loss: 0.0314 | g loss: 7.5065
```

```
250] | d loss: 0.0300 |
Epoch [
         198/
                                        g loss: 9.6816
         198/
               250] | d loss: 0.0004
Epoch [
                                        g loss: 8.4269
                                        g_loss: 12.9678
Epoch [
         198/
               250] | d_loss: 0.0135
Epoch [
         198/
               250] | d loss: 0.0021
                                        g loss: 9.0850
         198/
                      d_loss: 0.0020
Epoch [
               250]
                                        g_loss: 7.4308
Epoch [
         198/
               250]
                     d loss: 0.0012
                                        g loss: 10.9297
         198/
                                        g_loss: 6.3469
Epoch [
               250]
                    d loss: 0.0021
Epoch [
         198/
               250] | d_loss: 0.1339 | g_loss: 7.4425
Epoch [
         199/
               250]
                    d_loss: 11.4822 | g_loss: 44.1515
         199/
                    | d_loss: 0.0865 |
                                        g_loss: 7.9163
Epoch [
               250]
         199/
               250] | d loss: 0.0156
                                        g loss: 9.3240
Epoch [
Epoch [
         199/
               250]
                     d loss: 0.0655
                                        g_loss: 8.2448
Epoch [
         199/
               250]
                     | d loss: 0.0124
                                        g loss: 8.0576
Epoch [
         199/
               250]
                     d_loss: 0.0703
                                        g_loss: 7.2351
         199/
Epoch [
               250] | d loss: 0.0384
                                        g_loss: 6.6725
         199/
                      d_loss: 0.0032
                                        g_loss: 10.0862
Epoch [
               250] |
Epoch [
         199/
               250]
                      d loss: 0.0026
                                        g loss: 8.8469
                     1
Epoch [
         199/
               250]
                    d loss: 0.0220
                                        g loss: 10.2025
         199/
               250]
                    | d loss: 0.0031
                                        g_loss: 10.7086
Epoch [
         199/
Epoch [
               250]
                     | d_loss: 0.0005
                                        g_loss: 7.2993
         199/
                     | d_loss: 0.0193
                                        g_loss: 6.8450
Epoch [
               250]
Epoch [
         199/
               250] | d loss: 0.0052
                                        g loss: 10.2527
Epoch [
         199/
               250] | d loss: 0.0013
                                        g loss: 9.5090
Epoch [
         199/
                      d loss: 0.0063
               250]
                     1
                                        g loss: 11.4533
Epoch [
                                        g_loss: 8.8776
         199/
               250]
                    | d_loss: 0.0563
Epoch [
         199/
               250]
                     d loss: 0.0073
                                        g loss: 5.7835
         199/
                      d_loss: 0.0015
                                        g_loss: 9.1381
Epoch [
               250]
Epoch [
         199/
               250]
                     d loss: 0.0035
                                        g loss: 9.2588
Epoch [
         199/
               250]
                    | d loss: 0.1199
                                        g loss: 8.7732
Epoch [
         199/
               250] | d loss: 0.0015
                                        g_loss: 9.9680
         199/
                      d_loss: 0.0388
                                        g_loss: 9.8667
Epoch [
               250]
                    199/
                    d_loss: 0.0043
                                        g_loss: 7.7322
Epoch [
               250]
Epoch [
         199/
               250] | d loss: 0.0041
                                        g loss: 6.6445
Epoch [
         199/
               250]
                     d loss: 0.0132
                                        g_loss: 8.4483
         199/
Epoch [
               250]
                     | d loss: 0.0265
                                        g loss: 7.3104
Epoch [
         199/
               250]
                     d_loss: 0.0092
                                        g_loss: 7.1754
         199/
Epoch [
               250] | d loss: 0.0064
                                        g_loss: 11.0702
         200/
                      d_loss: 6.8935
                                        g_loss: 51.4804
Epoch [
               250] |
Epoch [
         200/
               250]
                      d loss: 0.0360
                                        g loss: 7.9864
                     200/
               250]
                    d loss: 0.0071
                                        g loss: 6.1449
Epoch [
         200/
               250] | d loss: 0.0161
                                        g_loss: 10.0694
Epoch [
         200/
Epoch [
               250]
                     | d_loss: 0.0144
                                        g_loss: 6.8819
         200/
                     d_loss: 0.0264
                                        g_loss: 6.2967
Epoch [
               250]
Epoch [
         200/
               250]
                    | d loss: 0.0101
                                        g loss: 6.5032
Epoch [
         200/
               250] | d loss: 0.0058
                                        g loss: 7.8199
Epoch [
         200/
                      d loss: 0.0008
                                        g loss: 9.2546
               250]
                     1
Epoch [
         200/
               250]
                    | d_loss: 0.0022
                                        g_loss: 12.2729
Epoch [
         200/
               250]
                     d loss: 0.0038
                                        g_loss: 16.5386
Epoch [
         200/
               250]
                      d_loss: 0.0297
                                        g_loss: 7.7324
Epoch [
         200/
               250]
                     d loss: 0.0042
                                        g loss: 8.9224
Epoch [
         200/
               250]
                    | d loss: 0.0018
                                        g loss: 9.2756
Epoch [
         200/
               250] | d loss: 0.0051
                                        g_loss: 7.7664
         200/
                      d_loss: 0.0020
                                        g_loss: 5.7370
Epoch [
               250]
                    Epoch [
         200/
               250]
                    d_loss: 0.0028
                                        g_loss: 9.8435
         200/
               250]
                    d loss: 0.0034
                                        g loss: 9.2018
Epoch [
Epoch [
         200/
               250]
                     d loss: 0.0726
                                        g_loss: 8.6447
         200/
Epoch [
               250]
                     | d loss: 0.0020
                                        g loss: 8.8945
                                        g_loss: 8.4096
Epoch [
         200/
               250]
                      d_loss: 0.0360
Epoch [
         200/
               250] | d loss: 0.1656
                                        g loss: 18.8547
         200/
Epoch [
               250]
                      d_loss: 0.0116 |
                                        g_loss: 8.7951
Epoch [
         200/
               250] | d loss: 0.0081 | g loss: 7.7801
```

```
250] | d loss: 0.0120 |
Epoch [
         200/
                                        g loss: 8.5608
         200/
                      d loss: 0.0069
Epoch [
               250]
                                         g loss: 8.7489
                                        g_loss: 9.7696
Epoch [
         200/
               250] | d_loss: 0.0005
Epoch [
         200/
               250] | d loss: 0.0042
                                         g loss: 9.8563
         200/
                       d_loss: 0.0038 |
Epoch [
               250]
                                        g_loss: 8.9417
Epoch [
         201/
               250]
                     | d loss: 12.0176 | g loss: 33.1847
         201/
               250]
                    | d loss: 0.0373 |
                                        g loss: 8.7405
Epoch [
Epoch [
         201/
               250] | d loss: 0.0037
                                        g loss: 7.8729
Epoch [
         201/
               250]
                    d loss: 0.0745
                                        g_loss: 6.9578
         201/
                    d_loss: 0.0038
                                        g_loss: 6.0188
Epoch [
               250]
                                         g_loss: 7.9097
         201/
               250]
                    d loss: 0.0038
Epoch [
Epoch [
         201/
               250]
                       d loss: 0.1148
                                         g_loss: 4.5518
Epoch [
         201/
               250]
                       d loss: 0.0045
                                         g loss: 11.9955
Epoch [
         201/
               250]
                      d_loss: 0.0127
                                         g_loss: 7.3089
Epoch [
         201/
               250]
                    d loss: 0.0139
                                         g_loss: 7.5870
         201/
                       d_loss: 0.0117
                                         g_loss: 10.4212
Epoch [
               250]
Epoch [
         201/
               250]
                      d loss: 0.0089
                                         g loss: 9.5985
                     1
Epoch [
         201/
               250]
                    d loss: 0.0047
                                         g loss: 8.5684
                                        g_loss: 9.0224
         201/
                    | d loss: 0.0441
Epoch [
               250]
         201/
Epoch [
               250]
                     | d_loss: 0.0077
                                         g_loss: 7.5558
                                         g_loss: 15.5549
         201/
                     d_loss: 0.1409
Epoch [
               250]
         201/
               250]
                    d loss: 0.0576
                                         g loss: 10.2287
Epoch [
Epoch [
         201/
               250] | d loss: 0.0027
                                         g loss: 8.2983
Epoch [
         201/
                       d loss: 0.0028
               250]
                     1
                                         g loss: 11.5731
Epoch [
         201/
               250]
                    | d_loss: 0.0124 |
                                         g_loss: 7.0925
Epoch [
         201/
               250]
                     d loss: 0.0261
                                         g loss: 7.2913
         201/
                       d_loss: 0.0057
Epoch [
               250]
                                         g_loss: 6.7666
Epoch [
         201/
               250]
                     d loss: 0.0018
                                         g loss: 13.8357
Epoch [
         201/
               250]
                    | d loss: 0.0026
                                         g loss: 10.6284
                                        g_loss: 3.9031
Epoch [
         201/
               250] | d loss: 0.2750
         201/
                       d_loss: 0.0090
Epoch [
               250]
                     1
                                         g_loss: 4.3318
         201/
                    d_loss: 0.0044
                                         g_loss: 6.4340
Epoch [
               250]
                                        g_loss: 7.7678
Epoch [
         201/
               250]
                    | d loss: 0.0046
Epoch [
         201/
               250]
                     | d_loss: 0.0061 |
                                        g_loss: 11.0302
         202/
                                       g loss: 39.9927
Epoch [
               250]
                     | d loss: 14.7271
Epoch [
         202/
               250]
                     d_loss: 0.0460
                                        g_loss: 10.2917
Epoch [
         202/
               250]
                    | d loss: 0.0023
                                        g loss: 9.5695
         202/
                       d_loss: 0.0010
                                         g_loss: 8.8741
Epoch [
               250]
Epoch [
         202/
               250]
                      d loss: 0.0042
                                         g loss: 6.4480
                     1
         202/
               250]
                    d loss: 0.0797
                                         g loss: 6.7948
Epoch [
                                         g_loss: 5.6700
         202/
                    | d loss: 0.0122
Epoch [
               250]
Epoch [
         202/
               250]
                     | d_loss: 0.0002
                                         g_loss: 16.1301
         202/
                     | d_loss: 0.0066
                                         g_loss: 8.3598
Epoch [
               250]
         202/
               250]
                    | d loss: 0.0043
                                         g loss: 5.8671
Epoch [
Epoch [
         202/
               250] | d loss: 0.0005
                                         g loss: 5.7134
Epoch [
         202/
                       d loss: 0.0019
                                         g loss: 13.5678
               250]
                     1
                                         g_loss: 17.5589
Epoch [
         202/
               250]
                    | d_loss: 0.0009
Epoch [
         202/
               250]
                     d loss: 0.0008
                                         g loss: 8.0196
Epoch [
         202/
               250]
                       d_loss: 0.0585
                                         g_loss: 4.3731
Epoch [
         202/
               250]
                      d loss: 0.0000
                                         g loss: 13.2209
Epoch [
         202/
               250]
                     d loss: 0.0014
                                         g loss: 13.0814
         202/
               250] | d loss: 0.0043
                                         g_loss: 10.5906
Epoch [
         202/
                       d_loss: 0.0002
                                         g_loss: 7.1156
Epoch [
               250]
                     1
Epoch [
         202/
               250]
                    d_loss: 0.0040
                                         g_loss: 6.4669
         202/
               250]
                    | d loss: 0.0025
                                         g loss: 8.2267
Epoch [
Epoch [
         202/
               250]
                     | d_loss: 0.0188
                                         g_loss: 9.2515
         202/
Epoch [
               250]
                      d loss: 0.0000
                                         g loss: 12.1473
Epoch [
         202/
               250]
                       d_loss: 0.0043
                                        g_loss: 9.5576
Epoch [
         202/
               250] | d loss: 0.0049
                                        g loss: 10.6813
         202/
Epoch [
               250]
                       d_loss: 0.0238
                                        g_loss: 8.4872
Epoch [
         202/
               250] | d loss: 0.0016 | g loss: 7.3095
```

```
250] | d loss: 0.0053 |
Epoch [
         202/
                                        g loss: 6.2436
         202/
                    d loss: 0.0025
Epoch [
               250]
                                        g loss: 6.8994
Epoch [
         203/
               250] | d_loss: 3.5754
                                        g_loss: 44.5368
Epoch [
         203/
               250] | d loss: 0.0170
                                        g loss: 6.4722
         203/
                      d_loss: 0.0060
Epoch [
               250]
                                        g_loss: 7.8188
Epoch [
         203/
               250]
                     d loss: 0.0248
                                        g loss: 7.7957
         203/
               250]
                    | d loss: 0.0155
                                        g loss: 8.7656
Epoch [
Epoch [
         203/
               250] | d loss: 0.0481
                                        g_loss: 8.1970
Epoch [
         203/
               250]
                    d_loss: 0.0039
                                        g_loss: 7.9645
         203/
                    | d_loss: 0.0168
                                        g_loss: 6.7921
Epoch [
               250]
                                        g_loss: 10.5274
         203/
               250]
                    d loss: 0.0014
Epoch [
Epoch [
         203/
               250]
                     d loss: 0.0124
                                        g_loss: 7.9628
Epoch [
         203/
               250]
                      d loss: 0.0009
                                        g loss: 9.2776
Epoch [
         203/
               250]
                     | d_loss: 0.0056
                                        g_loss: 6.9958
         203/
Epoch [
               250] | d loss: 0.0039
                                        g_loss: 9.0414
         203/
                      d_loss: 0.0006
                                        g_loss: 10.4319
Epoch [
               250]
Epoch [
         203/
               250]
                      d loss: 0.0025
                                        g loss: 8.3164
                     1
Epoch [
         203/
               250]
                    d loss: 0.0008
                                        g loss: 9.2437
                                        g_loss: 8.8193
         203/
                    | d loss: 0.0036
Epoch [
               250]
Epoch [
         203/
               250]
                     | d_loss: 0.0038
                                        g_loss: 8.0665
         203/
                     d_loss: 0.0084
                                        g_loss: 9.3995
Epoch [
               250]
         203/
               250] | d loss: 0.0133
                                        g loss: 12.5911
Epoch [
Epoch [
         203/
               250] | d loss: 0.0213
                                        g loss: 6.8905
Epoch [
         203/
                      d loss: 0.0460
               250]
                                        g loss: 8.4685
Epoch [
         203/
               250]
                    | d_loss: 0.0129
                                        g_loss: 7.4182
Epoch [
         203/
               250]
                     d loss: 0.0030
                                        g loss: 8.4652
         203/
                      d_loss: 0.0008
Epoch [
               250]
                                        g_loss: 7.3621
Epoch [
         203/
               250]
                      d loss: 0.0139
                                        g loss: 5.2965
Epoch [
         203/
               250]
                    d loss: 0.0023
                                        g loss: 9.7880
                                        g_loss: 5.2684
         203/
               250] | d loss: 0.0038
Epoch [
         203/
                      d_loss: 0.0007 |
Epoch [
               250]
                                        g_loss: 8.4300
         204/
                      d_loss: 13.7496 | g_loss: 43.6834
Epoch [
               250]
                    Epoch [
         204/
               250]
                    | d loss: 0.0076 |
                                        g loss: 7.9480
Epoch [
         204/
               250]
                      d loss: 0.0063
                                        g_loss: 5.1838
         204/
Epoch [
               250]
                      d loss: 0.0016
                                        g loss: 10.6602
                                        g_loss: 6.6983
Epoch [
         204/
               250]
                     d loss: 0.0064
         204/
Epoch [
               250]
                    d loss: 0.0014
                                        g_loss: 10.1808
         204/
                      d_loss: 0.0244
                                        g_loss: 6.0680
Epoch [
               250]
Epoch [
         204/
               250]
                      d loss: 0.0019
                                        g loss: 7.6789
                     1
         204/
               250]
                    d loss: 0.0007
                                        g loss: 10.9614
Epoch [
                                        g_loss: 9.5916
         204/
               250] | d loss: 0.0108
Epoch [
         204/
Epoch [
               250]
                     | d_loss: 0.0043
                                        g_loss: 5.4105
         204/
                     d_loss: 0.0144
                                        g_loss: 9.8416
Epoch [
               250]
         204/
               250]
                    d loss: 0.0024
                                        g loss: 8.0534
Epoch [
Epoch [
         204/
               250] | d loss: 0.0046
                                        g_loss: 7.2028
Epoch [
         204/
                      d loss: 0.0032
                                        g loss: 7.6249
               250]
                     1
Epoch [
         204/
               250]
                    | d_loss: 0.0173
                                        g_loss: 5.2316
Epoch [
         204/
               250]
                     d loss: 0.0064
                                        g_loss: 11.8326
Epoch [
         204/
               250]
                      d_loss: 0.0086
                                        g_loss: 7.9482
Epoch [
         204/
               250]
                      d loss: 0.0092
                                        g loss: 7.1546
Epoch [
         204/
               250]
                    | d loss: 0.0315
                                        g loss: 8.9668
Epoch [
         204/
               250] | d loss: 0.0010
                                        g_loss: 7.8633
         204/
                      d_loss: 0.0033
                                        g_loss: 7.2743
Epoch [
               250]
                     1
Epoch [
         204/
               250]
                    d_loss: 0.0871
                                        g_loss: 6.5864
         204/
               250]
                    d loss: 0.0125
                                        g loss: 6.3649
Epoch [
Epoch [
         204/
               250]
                     d loss: 0.0010
                                        g_loss: 9.1705
         204/
Epoch [
               250]
                      d loss: 0.0039
                                        g loss: 7.6322
Epoch [
         204/
               250]
                      d_loss: 0.0015
                                        g_loss: 9.1819
Epoch [
         204/
               250] | d loss: 0.0050
                                        g_loss: 8.6724
         204/
Epoch [
               250]
                      d_loss: 0.0217 |
                                        g_loss: 7.7651
Epoch [
         205/
               250] | d loss: 9.1828 | g loss: 41.5434
```

```
250] | d loss: 0.0054 |
Epoch [
         205/
                                         g loss: 13.3354
         205/
                    | d loss: 0.0011
                                         g loss: 12.9316
Epoch [
               250]
                                         g_loss: 12.6477
Epoch [
         205/
               250] | d_loss: 0.0015
Epoch [
         205/
               250] | d loss: 0.0035
                                         g loss: 7.9495
         205/
                       d_loss: 0.0106
Epoch [
               250]
                                         g_loss: 6.7781
Epoch [
         205/
               250]
                     d loss: 0.0046
                                         g loss: 6.7898
         205/
               250]
                    | d loss: 0.0140
                                         g loss: 10.3351
Epoch [
                                         g_loss: 8.7286
Epoch [
         205/
               250] | d loss: 0.0064
Epoch [
         205/
               250]
                    d_loss: 0.0073
                                         g_loss: 7.7945
         205/
                    d_loss: 0.0016
                                         g_loss: 4.3996
Epoch [
               250]
                                         g_loss: 9.0649
         205/
               250]
                    d loss: 0.0112
Epoch [
Epoch [
         205/
               250]
                     d loss: 0.0009
                                         g_loss: 7.7618
Epoch [
         205/
               250]
                      d loss: 0.0200
                                         g loss: 8.0408
Epoch [
         205/
               250]
                     | d_loss: 0.0042
                                         g_loss: 7.9975
         205/
Epoch [
               250] | d loss: 0.0025
                                         g_loss: 6.3615
         205/
                       d_loss: 0.0022
                                         g_loss: 10.1249
Epoch [
               250]
Epoch [
         205/
               250]
                      d loss: 0.0011
                                         g loss: 7.7027
                     1
Epoch [
         205/
               250]
                    | d loss: 0.0113
                                         g loss: 8.2546
         205/
                    | d loss: 0.0037
                                         g_loss: 8.2887
Epoch [
               250]
         205/
Epoch [
               250]
                     | d_loss: 0.0467
                                         g_loss: 5.5841
                                         g_loss: 16.7313
         205/
                     d_loss: 0.0002
Epoch [
               250]
         205/
               250] | d loss: 0.0173
                                         g loss: 6.8563
Epoch [
Epoch [
         205/
               250] | d loss: 0.0053
                                         g loss: 12.3603
Epoch [
         205/
                       d loss: 0.0525
               250]
                                         g loss: 6.7703
Epoch [
         205/
               250]
                    | d_loss: 0.0022
                                         g_loss: 7.9914
Epoch [
         205/
               250]
                     d loss: 0.0094
                                         g loss: 8.1501
         205/
                       d_loss: 0.0334
Epoch [
               250]
                                         g_loss: 10.7419
Epoch [
         205/
               250]
                     d loss: 0.0609
                                        g loss: 4.8302
Epoch [
         206/
               250]
                    | d loss: 15.1364 | g loss: 33.6348
Epoch [
         206/
               250] | d_loss: 0.0129 |
                                        g_loss: 7.9251
         206/
                      d_loss: 0.0013
                                         g_loss: 5.2064
Epoch [
               250]
         206/
                    | d_loss: 0.0320 |
                                         g_loss: 9.3531
Epoch [
               250]
Epoch [
         206/
               250]
                    d loss: 0.0874
                                         g loss: 8.2812
Epoch [
         206/
               250]
                       d loss: 0.0063
                                         g_loss: 9.0833
         206/
Epoch [
               250]
                     | d loss: 0.0114
                                         g loss: 5.7027
Epoch [
         206/
               250]
                     d loss: 0.0012
                                         g_loss: 9.9861
Epoch [
         206/
               250]
                    | d loss: 0.0005
                                         g_loss: 8.4079
         206/
                       d_loss: 0.0003
                                         g_loss: 7.0777
Epoch [
               250]
Epoch [
         206/
               250]
                      d loss: 0.0050
                                         g loss: 6.5178
                     1
         206/
               250]
                    d loss: 0.0070
                                         g loss: 7.7911
Epoch [
                                         g_loss: 9.8879
         206/
                    | d loss: 0.0064
Epoch [
               250]
         206/
Epoch [
               250]
                     | d_loss: 0.0032
                                         g_loss: 6.7413
         206/
                     | d_loss: 0.0021
                                         g_loss: 9.1532
Epoch [
               250]
         206/
               250]
                    d loss: 0.0097
                                         g loss: 7.6355
Epoch [
Epoch [
         206/
               250] | d loss: 0.0018
                                         g loss: 6.7452
Epoch [
         206/
                       d loss: 0.3418
                                         g loss: 20.2160
               250]
                     1
                                         g_loss: 12.9486
Epoch [
         206/
               250]
                    | d_loss: 0.1166
Epoch [
         206/
               250]
                     d loss: 0.0005
                                         g loss: 8.4437
Epoch [
         206/
               250]
                       d_loss: 0.0034
                                         g_loss: 5.6160
Epoch [
         206/
               250]
                      d loss: 0.0015
                                         g loss: 9.9608
Epoch [
         206/
               250]
                     d loss: 0.0017
                                         g loss: 8.1244
Epoch [
         206/
               250] | d loss: 0.0071
                                         g_loss: 6.9356
         206/
                       d_loss: 0.0046
Epoch [
               250]
                     1
                                         g_loss: 7.5776
Epoch [
         206/
               250]
                    d_loss: 0.0081
                                         g_loss: 9.3539
         206/
               250]
                    | d loss: 0.0020
                                         g loss: 6.7438
Epoch [
Epoch [
         206/
               250]
                     d loss: 0.0010
                                         g_loss: 9.3126
         206/
Epoch [
               250]
                      d loss: 0.0070
                                         g loss: 9.3027
                                         g_loss: 48.9444
Epoch [
         207/
               250]
                       d_loss: 5.3395
Epoch [
         207/
               250] | d loss: 0.0128
                                         g loss: 14.0854
         207/
Epoch [
               250] |
                       d_loss: 0.0031
                                         g_loss: 7.9053
Epoch [
         207/
               250] | d loss: 0.0024 | g loss: 7.1120
```

```
250] | d loss: 0.0185 |
Epoch [
         207/
                                        g loss: 9.6544
         207/
               250] | d loss: 0.0003
Epoch [
                                         g loss: 8.5320
                                         g_loss: 10.0557
Epoch [
         207/
               250] | d_loss: 0.0029
Epoch [
         207/
               250] | d loss: 0.0008
                                         g loss: 16.6080
         207/
                    | d_loss: 0.0121
                                         g_loss: 11.9721
Epoch [
               250]
Epoch [
         207/
               250]
                     d loss: 0.0080
                                         g loss: 13.9060
Epoch [
         207/
               250]
                    | d loss: 0.0035
                                         g loss: 10.1383
Epoch [
         207/
               250] | d loss: 0.0012
                                         g_loss: 10.6366
Epoch [
         207/
               250]
                    d_loss: 0.0355
                                        g_loss: 12.8105
         207/
                    | d_loss: 0.0015
                                         g_loss: 9.3688
Epoch [
               250]
         207/
               250] | d loss: 0.0018
                                         g loss: 8.5408
Epoch [
Epoch [
         207/
               250]
                    d loss: 0.0025
                                         g loss: 11.8551
Epoch [
         207/
               250]
                     | d loss: 0.0005
                                         g loss: 14.2455
Epoch [
         207/
               250]
                     | d_loss: 0.0025
                                         g_loss: 8.6253
Epoch [
         207/
               250] | d loss: 0.0054
                                         g_loss: 7.1582
         207/
                      d_loss: 0.0002
                                         g_loss: 9.5997
Epoch [
               250]
Epoch [
         207/
               250]
                      d loss: 0.0294
                                         g loss: 7.0352
                     1
Epoch [
         207/
               250] | d loss: 0.0005
                                         g loss: 10.0503
         207/
               250] | d loss: 0.0027
                                         g_loss: 8.3299
Epoch [
Epoch [
         207/
               250]
                     | d_loss: 0.0055
                                         g_loss: 11.5469
                                        g_loss: 11.0872
         207/
                     | d_loss: 0.0001
Epoch [
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               250] | d loss: 0.0036
                                         g loss: 9.8199
Epoch [
Epoch [
         207/
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                                         g_loss: 9.2211
Epoch [
         207/
                      d loss: 0.0785
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                                         g loss: 11.1215
                                        g_loss: 11.0013
Epoch [
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                    | d_loss: 0.0319 |
                                         g_loss: 28.0121
Epoch [
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                    d loss: 13.9054
         208/
                      d_loss: 0.0002
Epoch [
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Epoch [
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                                         g loss: 7.9444
Epoch [
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                    | d loss: 0.0208
                                         g loss: 7.4236
Epoch [
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                                         g_loss: 8.3950
         208/
                      d_loss: 0.0032
Epoch [
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                    g_loss: 8.5207
         208/
                    d_loss: 0.0297
                                         g_loss: 18.6543
Epoch [
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                                         g_loss: 7.6144
Epoch [
         208/
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Epoch [
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                    | d loss: 0.0089
                                         g_loss: 7.0408
         208/
Epoch [
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                                         g loss: 6.6225
                    d_loss: 0.0021
Epoch [
         208/
               250]
                                         g_loss: 6.3034
         208/
Epoch [
               250] | d loss: 0.0019
                                         g_loss: 9.7477
         208/
                      d_loss: 0.0044
                                         g_loss: 11.1135
Epoch [
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Epoch [
         208/
               250]
                     d loss: 0.0050
                                         g loss: 14.2754
         208/
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                                         g loss: 11.4586
Epoch [
                                        g_loss: 6.0624
         208/
               250] | d loss: 0.0849
Epoch [
         208/
Epoch [
               250]
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                                         g_loss: 9.6101
         208/
                     d_loss: 0.0046
                                         g_loss: 7.7910
Epoch [
               250]
         208/
               250] | d loss: 0.0416
                                         g loss: 5.9596
Epoch [
Epoch [
         208/
               250] | d loss: 0.0122
                                         g_loss: 6.2077
Epoch [
         208/
                      d loss: 0.0002
               250]
                     1
                                         g loss: 7.4920
                                         g_loss: 7.2615
Epoch [
         208/
               250]
                    | d_loss: 0.0106
Epoch [
         208/
               250]
                    d loss: 0.0009
                                         g_loss: 11.4719
Epoch [
         208/
               250]
                      d_loss: 0.0027
                                         g_loss: 6.7367
Epoch [
         208/
               250]
                     | d loss: 0.0111
                                         g loss: 10.4275
Epoch [
         208/
               250]
                    | d loss: 0.0019
                                         g loss: 10.4212
Epoch [
         208/
               250] | d loss: 0.0112
                                        g_loss: 6.3498
         208/
                      d_loss: 0.0053
Epoch [
               250]
                    g_loss: 8.4193
Epoch [
         208/
               250]
                    d_loss: 0.0134 |
                                        g_loss: 7.0028
         209/
               250]
                    | d loss: 13.5891 | g loss: 36.9011
Epoch [
Epoch [
         209/
               250]
                    | d_loss: 0.0030 |
                                        g_loss: 12.9314
         209/
Epoch [
               250]
                     | d loss: 0.0337
                                        g loss: 6.5325
                                        g_loss: 9.6592
Epoch [
         209/
               250]
                    | d_loss: 0.0055 |
Epoch [
         209/
               250] | d loss: 0.0013 |
                                        g loss: 8.4824
         209/
Epoch [
               250] |
                      d_loss: 0.0000 |
                                        g_loss: 12.2962
Epoch [
         209/
               250] | d loss: 0.0134 | g loss: 6.8415
```

```
250] | d loss: 0.0014 |
Epoch [
         209/
                                        g loss: 7.9934
         209/
               250] | d loss: 0.0094
Epoch [
                                         g loss: 8.0558
                                         g_loss: 6.8521
Epoch [
         209/
               250] | d_loss: 0.0130
Epoch [
         209/
               250] | d loss: 0.0022
                                         g loss: 7.1990
         209/
                      d_loss: 0.0051
                                         g_loss: 12.0414
Epoch [
               250]
Epoch [
         209/
               250]
                     d loss: 0.0021
                                         g loss: 10.5555
Epoch [
         209/
               250]
                    | d loss: 0.3050
                                         g loss: 16.9382
Epoch [
         209/
               250] | d loss: 0.0051
                                         g_loss: 8.3637
Epoch [
         209/
               250] | d_loss: 0.0002
                                         g_loss: 14.3087
         209/
                    | d_loss: 0.0033
                                         g_loss: 7.1644
Epoch [
               250]
                                         g_loss: 7.4503
         209/
               250] | d loss: 0.0094
Epoch [
Epoch [
         209/
               250]
                    | d loss: 0.0059
                                         g_loss: 7.8960
Epoch [
         209/
               250]
                     | d loss: 0.0014
                                         g loss: 7.7321
Epoch [
         209/
               250]
                     d_loss: 0.0101
                                         g_loss: 9.5762
         209/
Epoch [
               250] | d loss: 0.0018
                                         g_loss: 10.5903
         209/
               250] | d_loss: 0.0007
                                         g_loss: 26.7830
Epoch [
Epoch [
         209/
               250]
                     d loss: 0.0019
                                         g loss: 7.1296
Epoch [
         209/
               250] | d loss: 0.0012
                                         g loss: 8.6420
         209/
               250] | d loss: 0.0025
                                         g_loss: 9.5954
Epoch [
         209/
Epoch [
               250]
                     | d_loss: 0.0106
                                         g_loss: 12.0783
         209/
                     d_loss: 0.0002
Epoch [
               250]
                                         g_loss: 15.2221
         209/
               250] | d loss: 0.0080
Epoch [
                                         g loss: 7.1298
Epoch [
         210/
               250] | d loss: 0.2578
                                         g_loss: 18.5226
Epoch [
         210/
                      d loss: 0.0019
               250]
                     1
                                         g loss: 6.6403
Epoch [
         210/
               250]
                    | d_loss: 0.0316
                                         g_loss: 7.3782
Epoch [
         210/
               250]
                     d loss: 0.0007
                                         g loss: 7.2738
         210/
                      d_loss: 0.0013
Epoch [
               250]
                                         g_loss: 6.5035
Epoch [
         210/
               250]
                     d loss: 0.0062
                                         g loss: 7.3008
Epoch [
         210/
               250]
                    | d loss: 0.0076
                                         g loss: 9.2993
         210/
               250] | d loss: 0.0005
                                         g_loss: 8.3024
Epoch [
         210/
                      d_loss: 0.0126
                                         g_loss: 9.4144
Epoch [
               250]
                    210/
                    | d_loss: 0.0118
                                         g_loss: 8.8236
Epoch [
               250]
Epoch [
         210/
               250] | d loss: 0.0161
                                         g loss: 6.3392
Epoch [
         210/
               250]
                     d loss: 0.0028
                                         g_loss: 8.6312
         210/
Epoch [
               250]
                     | d loss: 0.0094
                                         g loss: 8.2536
                     d_loss: 0.0048
Epoch [
         210/
               250]
                                         g_loss: 12.8401
Epoch [
         210/
               250] | d loss: 0.0007
                                         g_loss: 9.6718
         210/
                      d_loss: 0.0011
                                         g_loss: 9.9740
Epoch [
               250] |
Epoch [
         210/
               250]
                     d loss: 0.0055
                                         g loss: 8.5618
         210/
               250] | d loss: 0.0051
                                         g loss: 5.7229
Epoch [
                                         g_loss: 13.1845
         210/
               250] | d loss: 0.0015
Epoch [
Epoch [
         210/
               250]
                     | d_loss: 0.0295
                                         g_loss: 11.2779
                                         g_loss: 10.2523
         210/
                     | d_loss: 0.0010
Epoch [
               250]
         210/
               250]
                    d loss: 0.0149
                                         g loss: 9.6599
Epoch [
Epoch [
         210/
               250] | d loss: 0.0000
                                         g loss: 12.0927
Epoch [
         210/
                      d loss: 0.0115
                                         g loss: 11.8192
               250]
                     1
                                         g_loss: 7.7551
Epoch [
         210/
               250]
                    | d_loss: 0.0022
Epoch [
         210/
               250]
                     d loss: 0.0018
                                         g_loss: 9.3237
Epoch [
         210/
               250]
                      d_loss: 0.0076
                                         g_loss: 5.7107
Epoch [
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               250]
                     d loss: 0.0080
                                         g loss: 7.5494
                                        g_loss: 8.1970
Epoch [
         210/
               250]
                    | d loss: 0.0011 |
         211/
               250 | d loss: 15.1252 | g loss: 43.3191
Epoch [
         211/
                      d_loss: 0.0139 |
                                        g_loss: 6.3777
Epoch [
               250]
                    Epoch [
         211/
               250]
                    | d_loss: 0.0166 |
                                         g_loss: 5.1800
         211/
               250] | d loss: 0.0513
                                         g loss: 5.8418
Epoch [
Epoch [
         211/
               250]
                     d loss: 0.0052
                                         g_loss: 10.1248
Epoch [
         211/
               250]
                     | d loss: 0.0013
                                         g loss: 7.6933
Epoch [
         211/
               250]
                     d_loss: 0.0004
                                        g_loss: 6.2517
Epoch [
         211/
               250] | d loss: 0.0034
                                        g_loss: 7.6926
Epoch [
         211/
               250] |
                      d_loss: 0.0019 |
                                        g_loss: 10.3345
Epoch [
         211/
               250] | d loss: 0.0008 | g loss: 11.3064
```

```
250] | d loss: 0.0261 |
Epoch [
         211/
                                        g loss: 12.2283
         211/
               250] | d loss: 0.0240
Epoch [
                                        g loss: 9.0821
Epoch [
         211/
               250] | d_loss: 0.0067
                                        g_loss: 7.8550
Epoch [
         211/
               250] | d loss: 0.0551
                                        g loss: 9.6062
                    d_loss: 0.0023
Epoch [
         211/
               250]
                                        g_loss: 12.9506
Epoch [
         211/
               250]
                    d loss: 0.0004
                                        g loss: 12.3419
         211/
               250]
                    | d loss: 0.0030
                                        g loss: 7.0967
Epoch [
Epoch [
         211/
               250] | d loss: 0.0148
                                        g_loss: 6.2999
Epoch [
         211/
               250]
                    d_loss: 0.0026
                                        g_loss: 6.3229
                    d_loss: 0.0287
                                        g_loss: 6.7609
Epoch [
         211/
               250]
         211/
               250] | d loss: 0.0099
                                        g loss: 12.0137
Epoch [
Epoch [
         211/
               250]
                    d loss: 0.0084
                                        g_loss: 11.0050
Epoch [
         211/
               250]
                    | d loss: 0.0152
                                        g loss: 7.0864
Epoch [
         211/
               250]
                    d_loss: 0.0125
                                        g_loss: 8.8885
Epoch [
         211/
               250] | d loss: 0.0126
                                        g loss: 8.0005
         211/
               250] | d_loss: 1.1714
                                        g_loss: 47.4394
Epoch [
Epoch [
         211/
               250]
                      d loss: 0.0002
                                        g loss: 8.5616
                    Epoch [
         211/
               250]
                    d loss: 0.0111
                                        g loss: 10.9798
         211/
               250] | d loss: 0.0226 |
                                        g_loss: 5.2837
Epoch [
                    | d_loss: 12.3009 | g_loss: 34.7933
Epoch [
         212/
               250]
         212/
                    | d_loss: 0.0070 |
                                        g_loss: 9.9568
Epoch [
               250]
         212/
               250] | d loss: 0.0011
                                        g loss: 6.5175
Epoch [
Epoch [
         212/
               250] | d loss: 0.0110
                                        g loss: 7.9927
Epoch [
         212/
                      d loss: 0.0038
               250]
                    1
                                        g loss: 6.4298
                                        g_loss: 8.0681
Epoch [
         212/
               250]
                    | d_loss: 0.0482 |
Epoch [
         212/
               250]
                    | d loss: 0.0011
                                        g loss: 8.3374
         212/
                      d_loss: 0.0110
Epoch [
               250]
                                        g_loss: 9.4901
Epoch [
         212/
               250]
                    d loss: 0.0051
                                        g loss: 5.0997
Epoch [
         212/
               250]
                    | d loss: 0.0029
                                        g loss: 9.3624
         212/
               250] | d loss: 0.0050
                                        g_loss: 8.5445
Epoch [
         212/
                    | d_loss: 0.0008
Epoch [
               250]
                                        g_loss: 10.5028
         212/
                    d_loss: 0.0040
                                        g_loss: 8.2495
Epoch [
               250]
                                        g_loss: 11.4984
Epoch [
         212/
               250] | d loss: 0.0005
Epoch [
         212/
               250]
                    d loss: 0.0261
                                        g_loss: 6.2944
         212/
Epoch [
               250]
                    | d loss: 0.0440
                                        g loss: 6.5877
Epoch [
         212/
               250]
                    d_loss: 0.0029
                                        g_loss: 8.0517
Epoch [
         212/
               250] | d loss: 0.0005
                                        g_loss: 9.6237
         212/
               250] | d_loss: 0.0177
                                        g_loss: 8.4673
Epoch [
Epoch [
         212/
               250]
                    d loss: 0.0026
                                        g loss: 7.0150
         212/
               250] | d loss: 0.0006
                                        g loss: 8.8015
Epoch [
                                        g_loss: 9.0537
         212/
               250] | d loss: 0.0044
Epoch [
         212/
Epoch [
               250]
                    | d_loss: 0.0020
                                        g_loss: 12.7288
         212/
                    d_loss: 0.0038
                                        g_loss: 7.9031
Epoch [
               250]
         212/
               250] | d loss: 0.0015
                                        g loss: 7.6342
Epoch [
Epoch [
         212/
               250] | d loss: 0.0731
                                        g loss: 20.5755
Epoch [
         212/
                      d loss: 0.0023
               250]
                    g loss: 9.8290
Epoch [
         212/
               250]
                    d_loss: 0.0128
                                        g_loss: 7.0333
Epoch [
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               250]
                    d loss: 0.0001
                                        g loss: 7.6047
Epoch [
         213/
               250]
                      d_loss: 0.2857
                                        g_loss: 18.4092
Epoch [
         213/
               250]
                    d loss: 0.0015
                                        g loss: 10.4086
Epoch [
         213/
               250]
                    | d loss: 0.0070
                                        g loss: 10.2293
         213/
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                                        g_loss: 9.9968
Epoch [
                    | d_loss: 0.0052
Epoch [
         213/
               250]
                                        g_loss: 12.8355
Epoch [
         213/
               250]
                    d_loss: 0.0089
                                        g_loss: 10.5667
         213/
               250] | d loss: 0.0068
                                        g loss: 8.7730
Epoch [
Epoch [
         213/
               250]
                    | d loss: 0.0511
                                        g_loss: 7.1451
         213/
Epoch [
               250]
                    | d loss: 0.0006
                                        g loss: 10.3003
Epoch [
                                        g_loss: 8.3363
         213/
               250]
                    d_loss: 0.0032
Epoch [
         213/
               250] | d_loss: 0.0001
                                        g loss: 12.1393
Epoch [
         213/
               250]
                      d_loss: 0.0011 |
                                        g_loss: 10.2680
Epoch [
         213/
               250] | d loss: 0.0191 | g loss: 12.6221
```

```
250] | d loss: 0.0092 |
Epoch [
         213/
                                        g loss: 11.2102
Epoch [
         213/
               250] | d loss: 0.0137
                                        g loss: 7.6461
                                        g_loss: 7.4946
Epoch [
         213/
               250] | d_loss: 0.0040
Epoch [
         213/
               250] | d loss: 0.0009 |
                                        g loss: 10.9469
               250] | d_loss: 0.0391
                                        g_loss: 11.0885
Epoch [
         213/
Epoch [
         213/
               250]
                    d loss: 0.0051
                                        g loss: 8.5284
         213/
               250] | d loss: 0.0212
                                        g loss: 10.1333
Epoch [
Epoch [
         213/
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                                        g_loss: 8.3885
Epoch [
         213/
               250] | d_loss: 0.0019
                                        g_loss: 8.0368
         213/
                    d_loss: 0.0461
                                        g_loss: 10.0199
Epoch [
               250]
                                        g_loss: 10.4336
         213/
               250] | d loss: 0.0012
Epoch [
Epoch [
         213/
               250] | d loss: 0.0065
                                        g_loss: 11.5022
Epoch [
         213/
               250]
                    | d loss: 0.0021
                                        g loss: 14.2955
Epoch [
         213/
               250]
                    d_loss: 0.0032
                                        g_loss: 5.8039
Epoch [
         213/
               250] | d_loss: 0.0086 |
                                        g loss: 9.1207
         213/
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Epoch [
Epoch [
         214/
               250]
                    | d loss: 16.2639 | g loss: 48.3150
Epoch [
         214/
               250] | d loss: 0.0337 |
                                        g loss: 8.8568
Epoch [
         214/
               250] | d loss: 0.0382
                                        g_loss: 7.9060
         214/
Epoch [
               250]
                    | d_loss: 0.0122
                                        g_loss: 8.4193
         214/
                    d_loss: 0.0092
                                        g_loss: 7.0963
Epoch [
               250]
         214/
               250] | d loss: 0.0031
                                        g loss: 7.6122
Epoch [
Epoch [
         214/
               250] | d loss: 0.0367
                                        g loss: 4.1792
Epoch [
         214/
                    | d loss: 0.0108
                                        g loss: 7.6174
               250]
Epoch [
         214/
               250]
                    | d_loss: 0.0010 |
                                        g_loss: 6.2308
Epoch [
         214/
               250]
                    d loss: 0.1625
                                        g loss: 11.3005
         214/
                    | d_loss: 0.0012
Epoch [
               250]
                                        g_loss: 7.8684
Epoch [
         214/
               250]
                    d loss: 0.0001
                                        g loss: 11.4139
Epoch [
         214/
               250] | d loss: 0.0066
                                        g loss: 9.1960
         214/
               250] | d loss: 0.0008
                                        g_loss: 9.1661
Epoch [
         214/
               250] | d_loss: 0.0022
Epoch [
                                        g_loss: 10.8304
         214/
                    | d_loss: 0.0113 |
                                        g_loss: 8.8733
Epoch [
               250]
                                        g_loss: 9.1169
Epoch [
         214/
               250] | d loss: 0.0066
Epoch [
         214/
               250] | d loss: 0.0009
                                        g_loss: 7.5186
         214/
                    d loss: 0.0009
Epoch [
               250]
                                        g loss: 6.5452
Epoch [
         214/
               250]
                    d_loss: 0.0065
                                        g_loss: 8.7592
Epoch [
         214/
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                                        g_loss: 8.7959
         214/
               250] | d_loss: 0.0008
                                        g_loss: 10.4912
Epoch [
Epoch [
         214/
               250]
                    d loss: 0.0302
                                        g loss: 17.1817
         214/
               250] | d loss: 0.0014
                                        g loss: 16.3806
Epoch [
                                        g_loss: 6.7219
         214/
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Epoch [
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Epoch [
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                    | d_loss: 0.0008
                                        g_loss: 9.2843
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                    d_loss: 0.0017
Epoch [
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                                        g_loss: 8.5799
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                                        g_loss: 9.8255
Epoch [
Epoch [
         214/
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Epoch [
         215/
                    | d loss: 10.7673 | g loss: 40.1633
               250]
Epoch [
         215/
               250] | d_loss: 0.0043 |
                                        g_loss: 7.5209
Epoch [
         215/
               250] | d loss: 0.0102
                                        g loss: 5.0205
Epoch [
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                    | d_loss: 0.0035
                                        g_loss: 8.1140
Epoch [
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               250]
                    d loss: 0.0004
                                        g loss: 6.6538
Epoch [
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                    | d loss: 0.0090
                                        g loss: 8.6237
         215/
               250] | d loss: 0.0141
                                        g_loss: 11.0416
Epoch [
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               250] | d_loss: 0.0033
                                        g_loss: 9.2838
Epoch [
Epoch [
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                    d_loss: 0.0037
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                                        g_loss: 7.0742
         215/
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Epoch [
Epoch [
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                    d loss: 0.0091
                                        g_loss: 11.4049
         215/
Epoch [
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                    | d loss: 0.0026
                                        g loss: 6.1618
Epoch [
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               250]
                    d_loss: 0.0005
                                        g_loss: 11.1744
Epoch [
         215/
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                                        g_loss: 7.1514
Epoch [
         215/
               250] |
                      d_loss: 0.0008 |
                                        g_loss: 7.6591
Epoch [
         215/
               250] | d loss: 0.0004 | g loss: 15.3720
```

```
250] | d loss: 0.0003 |
Epoch [
         215/
                                        g loss: 6.8131
         215/
               250] | d loss: 0.0083
Epoch [
                                        g loss: 8.5325
                                        g_loss: 10.0127
Epoch [
         215/
               250] | d_loss: 0.0005
Epoch [
         215/
               250] | d loss: 0.0009
                                        g loss: 8.0242
         215/
Epoch [
               250]
                    | d_loss: 0.0166
                                        g_loss: 12.5891
Epoch [
         215/
               250]
                    d loss: 0.0003
                                        g loss: 12.8152
         215/
               250]
                    | d loss: 0.0006
                                        g loss: 8.5138
Epoch [
                                        g_loss: 12.7653
Epoch [
         215/
               250] | d loss: 0.1814
Epoch [
         215/
               250]
                    d_loss: 0.0013
                                        g_loss: 11.6849
         215/
                    d_loss: 0.0006
                                        g_loss: 13.6338
Epoch [
               250]
                                        g_loss: 13.1410
         215/
               250] | d loss: 0.1005
Epoch [
Epoch [
         215/
               250]
                    d loss: 0.0004
                                        g_loss: 14.5439
Epoch [
         215/
               250]
                    d loss: 0.0103
                                        g loss: 8.0212
Epoch [
         216/
               250]
                    | d_loss: 11.0633 | g_loss: 46.8410
Epoch [
         216/
               250] | d loss: 0.0405 |
                                        g loss: 8.8004
         216/
               250] | d_loss: 0.0000
                                        g_loss: 16.2485
Epoch [
Epoch [
         216/
               250]
                      d loss: 0.0062
                                        g loss: 12.5660
                    Epoch [
         216/
               250]
                    | d loss: 0.0010 |
                                        g loss: 6.5126
                                        g_loss: 8.0384
         216/
                    d loss: 0.0225
Epoch [
               250]
Epoch [
         216/
               250]
                    | d_loss: 0.0041
                                        g_loss: 8.1515
         216/
                    | d_loss: 0.0018
                                        g_loss: 6.3953
Epoch [
               250]
         216/
               250] | d loss: 0.0006
                                        g loss: 5.5548
Epoch [
Epoch [
         216/
               250] | d loss: 0.0249
                                        g loss: 7.6544
Epoch [
         216/
                      d loss: 0.0258
                                        g loss: 5.9486
               250]
                    1
Epoch [
         216/
               250]
                    | d_loss: 0.0079 |
                                        g_loss: 7.7349
Epoch [
         216/
               250]
                    d loss: 0.0056
                                        g loss: 8.7014
         216/
                      d_loss: 0.0038
Epoch [
               250]
                                        g_loss: 7.4461
Epoch [
         216/
               250]
                    d loss: 0.0036
                                        g loss: 8.3157
Epoch [
         216/
               250]
                    | d loss: 0.0102
                                        g loss: 8.3634
         216/
               250] | d loss: 0.0053
                                        g_loss: 6.4828
Epoch [
         216/
                      d_loss: 0.0075
                                        g_loss: 8.7870
Epoch [
               250]
                    216/
                    d_loss: 0.0094
                                        g_loss: 6.9813
Epoch [
               250]
                                        g_loss: 7.1119
Epoch [
         216/
               250] | d loss: 0.0019
Epoch [
         216/
               250]
                    d loss: 0.0015
                                        g_loss: 11.2466
         216/
Epoch [
               250]
                    | d loss: 0.0010
                                        g loss: 6.8643
Epoch [
                    | d_loss: 0.0013
         216/
               250]
                                        g_loss: 7.1285
Epoch [
         216/
               250] | d loss: 0.0077
                                        g_loss: 6.5018
         216/
               250] | d_loss: 0.0491
                                        g_loss: 7.3204
Epoch [
Epoch [
         216/
               250]
                    d loss: 0.0111
                                        g loss: 13.6144
         216/
               250]
                    d loss: 0.0068
                                        g loss: 9.8266
Epoch [
                                        g_loss: 15.2898
         216/
               250] | d loss: 0.0055
Epoch [
Epoch [
         216/
               250]
                    | d_loss: 0.0661
                                        g_loss: 11.8812
         217/
                    | d_loss: 7.0278
                                        g_loss: 38.4754
Epoch [
               250]
         217/
               250] | d loss: 0.0045
                                        g loss: 10.9309
Epoch [
Epoch [
         217/
               250] | d loss: 0.0049
                                        g loss: 10.2910
Epoch [
         217/
                      d loss: 0.0147
                                        g loss: 10.2271
               250]
                    1
Epoch [
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               250]
                    d_loss: 0.0278
                                        g_loss: 5.8075
Epoch [
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               250]
                    | d loss: 0.0013
                                        g loss: 13.3595
Epoch [
         217/
               250]
                      d_loss: 0.0016
                                        g_loss: 8.7331
Epoch [
         217/
               250]
                    d loss: 0.0189
                                        g loss: 6.8397
Epoch [
         217/
               250]
                    d loss: 0.0036
                                        g loss: 6.5706
         217/
               250] | d loss: 0.0032
                                        g_loss: 10.1117
Epoch [
         217/
                      d_loss: 0.0123
                                        g_loss: 8.5661
Epoch [
               250]
                    Epoch [
         217/
               250]
                    | d_loss: 0.0001
                                        g_loss: 6.3334
         217/
               250] | d loss: 0.0015
                                        g loss: 13.7469
Epoch [
Epoch [
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               250]
                    | d loss: 0.0017
                                        g_loss: 7.5437
         217/
Epoch [
               250]
                    d loss: 0.0004
                                        g loss: 7.2095
Epoch [
         217/
               250]
                    d_loss: 0.0105
                                        g_loss: 7.1654
Epoch [
         217/
               250] | d loss: 0.0080
                                        g loss: 8.7724
         217/
Epoch [
               250]
                      d_loss: 0.0131
                                        g_loss: 8.2407
Epoch [
         217/
               250] | d loss: 0.0032 | g loss: 11.3874
```

```
250] | d loss: 0.0276 |
Epoch [
         217/
                                        g loss: 10.8867
         217/
               250] | d loss: 0.0224
Epoch [
                                        g loss: 7.2604
                                        g_loss: 7.8215
Epoch [
         217/
               250] | d_loss: 0.0062
Epoch [
         217/
               250] | d loss: 0.0114
                                        g loss: 9.8217
         217/
                      d_loss: 0.0025
Epoch [
               250]
                                        g_loss: 6.1041
Epoch [
         217/
               250]
                    d loss: 0.0004
                                        g loss: 12.1803
         217/
               250]
                    | d loss: 0.0011
                                        g loss: 8.9544
Epoch [
Epoch [
         217/
               250] | d loss: 0.0021
                                        g loss: 9.1476
Epoch [
         217/
               250]
                    d_loss: 0.0104
                                        g_loss: 11.5477
         217/
                    | d_loss: 0.0015 |
                                        g_loss: 8.8298
Epoch [
               250]
         218/
               250]
                    | d loss: 13.1630 | g loss: 43.6288
Epoch [
Epoch [
         218/
               250]
                      d loss: 0.0031
                                        g loss: 11.7976
Epoch [
         218/
               250]
                      d loss: 0.0518
                                        g loss: 7.8724
Epoch [
         218/
               250]
                    d loss: 0.0036
                                        g_loss: 8.4554
Epoch [
         218/
               250] | d loss: 0.0079
                                        g_loss: 6.9981
         218/
                      d_loss: 0.0012
                                        g_loss: 7.7786
Epoch [
               250]
Epoch [
         218/
               250]
                      d loss: 0.0271
                                        g loss: 6.8470
                    1
Epoch [
         218/
               250]
                    d loss: 0.0087
                                        g loss: 10.2251
         218/
                    d loss: 0.0039
                                        g_loss: 7.8422
Epoch [
               250]
Epoch [
         218/
               250]
                    | d_loss: 0.0053
                                        g_loss: 12.4942
         218/
                    d_loss: 0.0565
                                        g_loss: 8.5803
Epoch [
               250]
         218/
               250] | d loss: 0.0259
                                        g loss: 9.1730
Epoch [
Epoch [
         218/
               250] | d loss: 0.0036
                                        g loss: 9.4709
Epoch [
         218/
                      d loss: 0.0008
                                        g loss: 12.5634
               250]
                    1
Epoch [
         218/
               250]
                    | d_loss: 0.0060
                                        g_loss: 9.1777
Epoch [
         218/
               250]
                    d loss: 0.0015
                                        g loss: 9.1858
         218/
                      d_loss: 0.0024
Epoch [
               250]
                                        g_loss: 11.8779
Epoch [
         218/
               250]
                    d loss: 0.0030
                                        g loss: 9.6227
Epoch [
         218/
               250]
                    | d loss: 0.0037
                                        g loss: 6.7739
         218/
               250] | d loss: 0.0004
                                        g_loss: 7.5571
Epoch [
         218/
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                                        g_loss: 6.6209
Epoch [
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                    218/
                    d_loss: 0.0102
                                        g_loss: 6.1552
Epoch [
               250]
Epoch [
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                                        g_loss: 6.8758
Epoch [
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               250]
                    d loss: 0.0062
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         218/
Epoch [
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                    | d loss: 0.0008
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                    d_loss: 0.0025
Epoch [
         218/
               250]
                                        g_loss: 8.8633
Epoch [
         218/
               250]
                    | d loss: 0.0048
                                        g_loss: 9.5933
         218/
               250] | d_loss: 0.0014
                                        g_loss: 8.0120
Epoch [
Epoch [
         218/
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                    d loss: 0.0395
                                        g loss: 9.2477
         219/
               250]
                    d loss: 2.9622
                                        g loss: 54.3825
Epoch [
                                        g_loss: 14.8176
         219/
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Epoch [
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Epoch [
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                    | d_loss: 0.0012
                                        g_loss: 6.7111
         219/
                    | d_loss: 0.0775
                                        g_loss: 8.2657
Epoch [
               250]
         219/
               250]
                    d loss: 0.0088
                                        g loss: 7.7184
Epoch [
Epoch [
         219/
               250] | d loss: 0.0463
                                        g loss: 6.4724
Epoch [
         219/
                      d loss: 0.0004
               250]
                    g loss: 8.3697
                                        g_loss: 8.6679
Epoch [
         219/
               250]
                    | d_loss: 0.0044
Epoch [
         219/
               250]
                    d loss: 0.0030
                                        g loss: 8.1291
Epoch [
         219/
               250]
                      d_loss: 0.0014
                                        g_loss: 10.4870
Epoch [
         219/
               250]
                    d loss: 0.0004
                                        g loss: 14.5893
Epoch [
         219/
               250]
                    d loss: 0.0077
                                        g loss: 7.7173
         219/
               250] | d loss: 0.0034
                                        g_loss: 7.6023
Epoch [
         219/
                      d_loss: 0.0441
Epoch [
               250]
                    g_loss: 9.1387
Epoch [
         219/
               250]
                    d_loss: 0.0317
                                        g_loss: 7.1867
         219/
               250]
                    d loss: 0.0059
                                        g loss: 8.6371
Epoch [
Epoch [
         219/
               250]
                    d loss: 0.0129
                                        g_loss: 8.3214
         219/
Epoch [
               250]
                    | d loss: 0.0056
                                        g loss: 8.7863
Epoch [
         219/
               250]
                    d_loss: 0.0025
                                        g_loss: 11.1308
Epoch [
         219/
               250] | d loss: 0.7966
                                        g loss: 2.9589
Epoch [
         219/
               250]
                      d_loss: 0.0016 |
                                        g_loss: 7.5744
Epoch [
         219/
               250] | d loss: 0.0045 | g loss: 5.2637
```

```
250] | d loss: 0.0003 |
Epoch [
         219/
                                        g loss: 9.5011
         219/
               250] | d loss: 0.0007
Epoch [
                                        g loss: 10.1794
                                        g_loss: 7.6319
Epoch [
         219/
               250] | d_loss: 0.0045
Epoch [
         219/
               250] | d loss: 0.0022
                                        g loss: 7.1003
         219/
               250] | d_loss: 0.0001
Epoch [
                                        g_loss: 16.3515
Epoch [
         219/
               250]
                    d loss: 0.0030
                                        g loss: 5.6257
Epoch [
         219/
               250]
                    d loss: 0.0093
                                        g loss: 9.4031
Epoch [
         220/
               250] | d loss: 1.3203
                                        g_loss: 36.4113
Epoch [
         220/
               250] | d_loss: 0.0872
                                        g_loss: 6.7328
         220/
                    | d_loss: 0.0003 |
                                        g_loss: 9.7629
Epoch [
               250]
         220/
               250] | d loss: 0.0027
                                        g loss: 8.3374
Epoch [
Epoch [
         220/
               250]
                    | d loss: 0.0017
                                        g loss: 7.9939
Epoch [
         220/
               250]
                    | d loss: 0.0012
                                        g loss: 10.1282
Epoch [
         220/
               250]
                    d_loss: 0.0055
                                        g_loss: 11.6190
Epoch [
         220/
               250] | d loss: 0.0013
                                        g loss: 11.5140
         220/
               250] | d_loss: 0.0254
                                        g_loss: 8.4354
Epoch [
Epoch [
         220/
               250]
                    d loss: 0.0002
                                        g loss: 7.5612
Epoch [
         220/
               250] | d loss: 0.0021
                                        g loss: 7.5399
         220/
               250] | d loss: 0.0697
                                        g_loss: 12.9989
Epoch [
         220/
Epoch [
               250]
                    | d_loss: 0.0046
                                        g_loss: 6.2182
         220/
                    d_loss: 0.0005
                                        g_loss: 7.2582
Epoch [
               250]
         220/
               250] | d loss: 0.0019
                                        g loss: 6.5637
Epoch [
         220/
Epoch [
               250] | d loss: 0.0011
                                        g loss: 10.7278
Epoch [
         220/
                      d loss: 0.0034
               250]
                    1
                                        g loss: 8.1858
                                        g_loss: 10.5082
Epoch [
         220/
               250]
                    d_loss: 0.0379
Epoch [
         220/
               250]
                    d loss: 0.1386
                                        g loss: 15.0590
         220/
                      d_loss: 0.0143
Epoch [
               250]
                                        g_loss: 7.6205
Epoch [
         220/
               250]
                    d loss: 0.0007
                                        g_loss: 10.8125
Epoch [
         220/
               250]
                    | d loss: 20.1749 | g loss: 30.4985
         220/
               250] | d loss: 0.0191 |
                                        g loss: 4.9392
Epoch [
         220/
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                                        g_loss: 7.4185
Epoch [
         220/
                    | d_loss: 0.0008 |
                                        g_loss: 9.4374
Epoch [
               250]
Epoch [
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               250] | d loss: 0.0443
                                        g loss: 6.5083
Epoch [
         220/
               250]
                    | d loss: 0.0002
                                        g_loss: 7.6217
         220/
Epoch [
               250]
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                                        g loss: 8.3247
Epoch [
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               250]
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                                        g_loss: 9.4627
Epoch [
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         221/
               250] | d_loss: 0.0166
                                        g_loss: 6.4882
Epoch [
Epoch [
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                    d loss: 0.0011
                                        g loss: 4.9084
         221/
               250]
                    d loss: 0.0010
                                        g loss: 6.3418
Epoch [
                                        g_loss: 7.2727
         221/
               250] | d loss: 0.0008
Epoch [
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Epoch [
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                    | d_loss: 0.0816
                                        g_loss: 9.4458
                                        g_loss: 10.1600
         221/
                    | d_loss: 0.0009
Epoch [
               250]
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               250]
                    d loss: 0.0025
                                        g loss: 8.9105
Epoch [
Epoch [
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                                        g loss: 7.7608
Epoch [
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                      d loss: 0.0045
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               250]
                    1
Epoch [
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               250]
                    | d_loss: 0.0241
                                        g_loss: 6.8067
Epoch [
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                    | d loss: 0.0013
                                        g loss: 6.3548
Epoch [
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                      d_loss: 0.0000
                                        g_loss: 16.3981
Epoch [
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                                        g loss: 6.7517
Epoch [
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                    d loss: 0.0002
                                        g loss: 15.0804
         221/
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Epoch [
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Epoch [
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                    g_loss: 8.2425
Epoch [
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                    d_loss: 0.0031
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                    d loss: 0.0227
                                        g loss: 8.5478
Epoch [
Epoch [
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                    d loss: 0.0006
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Epoch [
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                    | d loss: 0.0057
                                        g loss: 11.1956
Epoch [
                                        g_loss: 7.1546
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                    d_loss: 0.0060
Epoch [
         221/
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                                        g loss: 8.6608
         221/
Epoch [
               250] |
                      d_loss: 0.0012 |
                                        g_loss: 10.4647
Epoch [
         221/
               250] | d loss: 0.0230 | g loss: 7.3244
```

```
250] | d loss: 0.0080 |
Epoch [
         221/
                                        g loss: 8.8427
Epoch [
         221/
               250] | d loss: 0.0043
                                        g loss: 5.2756
                                        g_loss: 11.0180
Epoch [
         221/
               250] | d_loss: 0.0013
Epoch [
         221/
               250] | d loss: 0.0059 |
                                        g loss: 9.2224
         222/
                    | d_loss: 17.2840 | g_loss: 36.7886
Epoch [
               250]
Epoch [
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                    | d loss: 0.0648 |
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         222/
               250]
                    d loss: 0.0014
                                        g loss: 9.4956
Epoch [
Epoch [
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                                        g loss: 6.6090
Epoch [
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                    d_loss: 0.0032
                                        g_loss: 9.6472
         222/
                    | d_loss: 0.0008
                                        g_loss: 13.4703
Epoch [
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         222/
               250] | d loss: 0.0632
                                        g loss: 7.6656
Epoch [
Epoch [
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               250]
                    d loss: 0.0023
                                        g_loss: 8.0388
Epoch [
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               250]
                    | d loss: 0.0066
                                        g loss: 10.5703
Epoch [
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               250]
                    d_loss: 0.0293
                                        g_loss: 12.4988
Epoch [
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                                        g loss: 12.3713
         222/
               250] | d_loss: 0.0005
                                        g_loss: 7.3431
Epoch [
Epoch [
         222/
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                    d loss: 0.0020
                                        g loss: 8.2674
Epoch [
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                    d loss: 0.0016
                                        g loss: 9.4417
         222/
               250]
                    | d loss: 0.0002
                                        g_loss: 7.2017
Epoch [
         222/
Epoch [
               250]
                    | d_loss: 0.0019
                                        g_loss: 8.9791
         222/
                    d_loss: 0.0008
                                        g_loss: 6.7929
Epoch [
               250]
         222/
               250] | d loss: 0.0010
                                        g loss: 9.9263
Epoch [
Epoch [
         222/
               250] | d loss: 0.0004
                                        g_loss: 9.3782
Epoch [
         222/
                      d loss: 0.0185
               250]
                    1
                                        g loss: 10.4415
                                        g_loss: 6.6643
Epoch [
         222/
               250]
                    | d_loss: 0.0147
Epoch [
         222/
               250]
                    | d loss: 0.0011
                                        g loss: 7.3979
         222/
                      d_loss: 0.0006
Epoch [
               250]
                                        g_loss: 8.5983
Epoch [
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                    d loss: 0.0033
                                        g loss: 8.3878
Epoch [
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               250]
                    | d loss: 0.0008
                                        g loss: 5.6607
         222/
               250] | d loss: 0.0063
                                        g_loss: 9.1888
Epoch [
         222/
                      d_loss: 0.0126
Epoch [
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                    g_loss: 8.6998
         222/
                    | d_loss: 0.0018
                                        g_loss: 7.2954
Epoch [
               250]
Epoch [
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                                        g loss: 15.9789
Epoch [
         223/
               250]
                    d loss: 5.7753
                                        g_loss: 59.0219
         223/
                    d loss: 0.0002
                                        g loss: 11.5609
Epoch [
               250]
Epoch [
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                    d_loss: 0.0658
                                        g_loss: 4.4661
Epoch [
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                                        g loss: 8.4647
         223/
               250] | d_loss: 0.0030
Epoch [
                                        g_loss: 10.2782
Epoch [
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                    d loss: 0.0018
                                        g loss: 7.4016
         223/
               250]
                    d loss: 0.0037
                                        g loss: 7.4010
Epoch [
         223/
               250] | d loss: 0.0138
                                        g_loss: 5.9985
Epoch [
         223/
Epoch [
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                                        g_loss: 10.7590
         223/
                    d_loss: 0.0054
                                        g_loss: 7.8336
Epoch [
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         223/
               250]
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                                        g loss: 9.7010
Epoch [
Epoch [
         223/
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                                        g loss: 5.2059
Epoch [
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                                        g loss: 10.6175
               250]
                    g_loss: 14.9341
Epoch [
         223/
               250]
                    | d_loss: 0.0462
Epoch [
         223/
               250]
                    | d loss: 0.0008
                                        g loss: 9.2126
Epoch [
         223/
               250]
                      d_loss: 0.0001
                                        g_loss: 8.5446
Epoch [
         223/
               250]
                    | d loss: 0.0180
                                        g loss: 8.6636
Epoch [
         223/
               250]
                    d loss: 0.0041
                                        g loss: 6.2757
         223/
               250] | d loss: 0.0073
                                        g_loss: 8.1535
Epoch [
         223/
                      d_loss: 0.0043
Epoch [
               250]
                    g_loss: 7.4236
                                        g_loss: 13.5908
Epoch [
         223/
               250]
                    d_loss: 0.0005
                                        g_loss: 6.9815
         223/
               250]
                    d loss: 0.0019
Epoch [
Epoch [
         223/
               250]
                    d loss: 0.0009
                                        g_loss: 8.1740
         223/
Epoch [
               250]
                    | d loss: 0.0006
                                        g loss: 7.6098
Epoch [
                                        g_loss: 9.8090
         223/
               250]
                    d_loss: 0.0007
Epoch [
         223/
               250] | d loss: 0.0011
                                        g loss: 9.9175
         223/
Epoch [
               250] |
                      d_loss: 0.0057 |
                                        g_loss: 9.7913
Epoch [
         223/
               250] | d loss: 0.0043 | g loss: 7.9388
```

```
250] | d loss: 0.0194 | g loss: 10.2880
Epoch [
         223/
Epoch [
         224/
               250] | d loss: 11.3429 | g loss: 36.3644
Epoch [
         224/
               250] | d_loss: 0.0006 |
                                        g_loss: 8.4469
Epoch [
         224/
               250] | d loss: 0.0039 |
                                        g loss: 7.5722
         224/
                      d_loss: 0.0002
Epoch [
               250]
                                        g_loss: 10.8272
Epoch [
         224/
               250]
                    d loss: 0.0218
                                        g loss: 5.8905
Epoch [
         224/
               250]
                    | d loss: 0.0035
                                        g loss: 7.7355
Epoch [
         224/
               250] | d loss: 0.0029
                                        g_loss: 9.7135
Epoch [
         224/
               250]
                    d_loss: 0.0009
                                        g_loss: 10.0665
         224/
                    | d_loss: 0.0012
                                        g_loss: 7.4509
Epoch [
               250]
                                        g_loss: 9.8728
         224/
               250] | d loss: 0.0752
Epoch [
Epoch [
         224/
               250]
                    d loss: 0.0014
                                        g_loss: 16.0979
Epoch [
         224/
               250]
                    | d loss: 0.0093
                                        g loss: 6.5083
Epoch [
         224/
               250]
                    | d_loss: 0.0025
                                        g_loss: 9.2505
Epoch [
         224/
               250] | d loss: 0.0731
                                        g loss: 12.5316
         224/
                      d_loss: 0.0021
                                        g_loss: 7.1946
Epoch [
               250]
Epoch [
         224/
               250]
                      d loss: 0.0079
                                        g loss: 9.6074
                    1
Epoch [
         224/
               250]
                    d loss: 0.0150
                                        g loss: 8.7057
                                        g_loss: 10.9120
         224/
               250]
                    | d loss: 0.0036
Epoch [
         224/
Epoch [
               250]
                    | d_loss: 0.0012
                                        g loss: 10.0715
         224/
                    | d_loss: 0.0014
                                        g_loss: 9.4930
Epoch [
               250]
         224/
               250] | d loss: 0.0045
                                        g loss: 5.7870
Epoch [
         224/
Epoch [
               250] | d loss: 0.0224
                                        g_loss: 15.7004
Epoch [
         224/
                      d loss: 0.0003
               250]
                    1
                                        g loss: 7.1292
                                        g_loss: 11.7655
Epoch [
         224/
               250]
                    | d_loss: 0.0011
Epoch [
         224/
               250]
                    d loss: 0.0155
                                        g loss: 8.5711
         224/
                      d_loss: 0.0005
Epoch [
               250]
                                        g_loss: 7.6350
Epoch [
         224/
               250]
                    d loss: 0.0026
                                        g loss: 12.2019
Epoch [
         224/
               250]
                    d loss: 0.0026
                                        g_loss: 8.4799
                                        g_loss: 12.6445
         224/
               250] | d_loss: 0.0002 |
Epoch [
         225/
                      d_loss: 20.9809 | g_loss: 35.3897
Epoch [
               250]
                    225/
                    | d_loss: 0.0091 |
                                        g_loss: 7.7441
Epoch [
               250]
Epoch [
         225/
               250] | d loss: 0.0070
                                        g loss: 6.4146
Epoch [
         225/
               250]
                    d loss: 0.0228
                                        g_loss: 8.9208
         225/
Epoch [
               250]
                    | d loss: 0.0251
                                        g loss: 7.8507
Epoch [
         225/
               250]
                    | d_loss: 0.0476
                                        g_loss: 8.2247
Epoch [
         225/
               250] | d loss: 0.0237
                                        g_loss: 6.8686
         225/
                      d_loss: 0.0008
                                        g_loss: 8.4603
Epoch [
               250] |
Epoch [
         225/
               250]
                    d loss: 0.0049
                                        g loss: 8.1278
         225/
               250]
                    d loss: 0.0033
                                        g loss: 7.0392
Epoch [
         225/
               250] | d loss: 0.0057
                                        g_loss: 10.2504
Epoch [
         225/
Epoch [
               250]
                    | d_loss: 0.0005
                                        g_loss: 10.9578
                                        g_loss: 6.2446
         225/
                    d_loss: 0.0005
Epoch [
               250]
         225/
               250]
                    d loss: 0.0149
                                        g loss: 8.6587
Epoch [
Epoch [
         225/
               250] | d loss: 0.0023
                                        g loss: 8.2920
Epoch [
         225/
                      d loss: 0.0006
               250]
                    1
                                        g loss: 8.0634
Epoch [
         225/
               250]
                    | d_loss: 0.0695
                                        g_loss: 7.2477
Epoch [
         225/
               250]
                    | d loss: 0.0017
                                        g loss: 9.4140
Epoch [
         225/
               250]
                      d_loss: 0.0047
                                        g_loss: 5.1877
Epoch [
         225/
               250]
                    d loss: 0.0004
                                        g loss: 9.0415
Epoch [
         225/
               250]
                    | d loss: 0.0160
                                        g loss: 8.3297
                                        g_loss: 7.7616
         225/
               250] | d loss: 0.0113
Epoch [
         225/
                      d_loss: 0.0019
Epoch [
               250]
                    g_loss: 10.1284
Epoch [
         225/
               250]
                    d_loss: 0.0046
                                        g_loss: 8.3984
         225/
               250] | d loss: 0.0048
                                        g loss: 9.6572
Epoch [
Epoch [
         225/
               250]
                    d loss: 0.0279
                                        g_loss: 12.2582
         225/
Epoch [
               250]
                    | d loss: 0.0005
                                        g loss: 10.0360
                                        g_loss: 6.1795
Epoch [
         225/
               250]
                    d_loss: 0.0003
Epoch [
         225/
               250] | d loss: 0.0006
                                        g loss: 9.1874
         226/
Epoch [
               250] |
                      d_loss: 9.3694 |
                                        g_loss: 42.2430
Epoch [
         226/
               250] | d loss: 0.0182 | g loss: 9.1707
```

```
250] | d loss: 0.0027
Epoch [
         226/
                                        g loss: 5.9784
         226/
               250] | d loss: 0.1269
Epoch [
                                        g loss: 8.6251
                                        g_loss: 7.9886
Epoch [
         226/
               250] | d_loss: 0.0088
Epoch [
         226/
               250] | d loss: 0.0007
                                        g loss: 6.5988
         226/
                    | d_loss: 0.0095
Epoch [
               250]
                                        g_loss: 8.0186
Epoch [
         226/
               250]
                     d loss: 0.0006
                                        g loss: 8.2331
         226/
               250]
                    | d loss: 0.0006
                                        g loss: 9.8095
Epoch [
                                        g_loss: 6.4113
Epoch [
         226/
               250] | d loss: 0.0028
Epoch [
         226/
               250]
                    | d_loss: 0.0020
                                        g_loss: 7.7754
         226/
                    | d_loss: 0.0146
                                        g_loss: 6.8647
Epoch [
               250]
         226/
               250] | d loss: 0.0002
                                        g loss: 11.7498
Epoch [
Epoch [
         226/
               250]
                     d loss: 0.0078
                                        g_loss: 6.8537
Epoch [
         226/
               250]
                     | d loss: 0.0011
                                        g loss: 9.6620
Epoch [
         226/
               250]
                     | d_loss: 0.0014
                                        g_loss: 9.0285
Epoch [
         226/
               250] | d loss: 0.0046
                                        g loss: 18.9929
         226/
               250] | d_loss: 0.0016
                                        g_loss: 8.4136
Epoch [
Epoch [
         226/
               250]
                     d loss: 0.0001
                                        g loss: 11.4974
Epoch [
         226/
               250]
                    d loss: 0.0018
                                        g loss: 7.6225
                                        g_loss: 9.7220
         226/
               250] | d loss: 0.0054
Epoch [
         226/
Epoch [
               250]
                     | d_loss: 0.0018
                                        g_loss: 12.3453
                                        g_loss: 11.0929
         226/
                     d_loss: 0.0024
Epoch [
               250]
         226/
               250] | d loss: 0.0220
                                        g loss: 13.0433
Epoch [
Epoch [
         226/
               250] | d loss: 0.0009
                                        g loss: 16.8144
Epoch [
         226/
                      d loss: 0.0099
               250]
                     1
                                        g loss: 8.3134
                                        g_loss: 6.3734
Epoch [
         226/
               250]
                    | d_loss: 0.0289 |
Epoch [
         226/
               250]
                    d loss: 0.0120
                                        g loss: 8.5280
         226/
                      d_loss: 0.0104 |
Epoch [
               250]
                                        g_loss: 9.3532
Epoch [
         227/
               250]
                     | d loss: 13.8160 | g loss: 35.6661
Epoch [
         227/
               250]
                    | d loss: 0.0201 | g loss: 6.2451
         227/
               250] | d loss: 0.0021
                                        g loss: 10.7955
Epoch [
         227/
                    d_loss: 0.0033
                                        g_loss: 7.3418
Epoch [
               250]
         227/
                    | d_loss: 0.0106 |
                                        g_loss: 8.2950
Epoch [
               250]
                                        g_loss: 7.4611
Epoch [
         227/
               250] | d loss: 0.0141
Epoch [
         227/
               250]
                    | d loss: 0.0002
                                        g_loss: 9.7305
         227/
Epoch [
               250]
                     | d loss: 0.0120
                                        g loss: 9.3493
Epoch [
         227/
               250]
                    d_loss: 0.0003
                                        g_loss: 9.8026
Epoch [
         227/
               250] | d loss: 0.0006
                                        g loss: 11.1785
         227/
               250] | d_loss: 0.0005
                                        g_loss: 13.2965
Epoch [
Epoch [
         227/
               250]
                     d loss: 0.0566
                                        g loss: 7.6363
         227/
               250] | d loss: 0.0034
                                        g loss: 8.7737
Epoch [
                                        g_loss: 7.0098
         227/
               250] | d loss: 0.0014
Epoch [
         227/
Epoch [
               250]
                     | d_loss: 0.0005
                                        g_loss: 11.7256
                                        g_loss: 10.6018
         227/
                     | d_loss: 0.0077
Epoch [
               250]
         227/
               250] | d loss: 0.0030
                                        g loss: 8.2198
Epoch [
Epoch [
         227/
               250] | d loss: 0.0071
                                        g_loss: 9.6972
Epoch [
         227/
                      d loss: 0.0007
               250]
                     1
                                        g loss: 6.7700
Epoch [
         227/
               250]
                    | d_loss: 0.0074 |
                                        g_loss: 7.4859
Epoch [
         227/
               250]
                    | d loss: 0.0151
                                        g loss: 8.4791
Epoch [
         227/
               250]
                      d_loss: 0.0016
                                        g_loss: 7.8720
Epoch [
         227/
               250]
                     d loss: 0.0045
                                        g loss: 8.4643
         227/
               250]
                    d loss: 0.0002
                                        g loss: 8.1587
Epoch [
         227/
               250] | d loss: 0.0072
                                        g_loss: 9.0701
Epoch [
         227/
                      d_loss: 0.0206
Epoch [
               250]
                    g_loss: 10.4047
Epoch [
         227/
               250]
                    | d_loss: 0.0176 |
                                        g_loss: 8.7560
                                        g_loss: 6.8924
         227/
               250] | d loss: 0.0106
Epoch [
                                        g_loss: 8.2395
Epoch [
         227/
               250]
                    | d_loss: 0.0072 |
         228/
                     | d loss: 10.5471 | g loss: 33.4088
Epoch [
               250]
Epoch [
         228/
               250]
                    | d_loss: 0.0170 | g_loss: 10.5142
Epoch [
         228/
               250] | d loss: 0.0080 |
                                        g loss: 21.6902
         228/
                                        g_loss: 6.8875
Epoch [
               250] |
                      d_loss: 0.0015 |
Epoch [
         228/
               250 | d loss: 0.0091 | g loss: 13.1218
```

```
250] | d loss: 0.0028 |
Epoch [
         228/
                                        g loss: 6.3737
Epoch [
         228/
               250] | d loss: 0.0040
                                        g loss: 7.3202
                                        g_loss: 6.4858
Epoch [
         228/
               250] | d_loss: 0.0012
Epoch [
         228/
               250] | d loss: 0.0488
                                        g loss: 6.9076
         228/
                      d_loss: 0.0141
Epoch [
               250]
                                        g_loss: 9.5426
Epoch [
         228/
               250]
                    d loss: 0.0081
                                        g loss: 6.6890
         228/
               250]
                    | d loss: 0.2166
                                        g loss: 4.3971
Epoch [
Epoch [
         228/
               250] | d loss: 0.0031
                                        g_loss: 10.2523
Epoch [
         228/
               250]
                    d_loss: 0.0011
                                        g_loss: 16.2479
         228/
                    | d_loss: 0.0021
                                        g_loss: 10.8840
Epoch [
               250]
                                        g_loss: 7.8116
         228/
               250]
                    d loss: 0.0007
Epoch [
Epoch [
         228/
               250]
                    d loss: 0.0003
                                        g_loss: 11.0680
Epoch [
         228/
               250]
                    | d loss: 0.0019
                                        g loss: 6.7462
Epoch [
         228/
               250]
                    d_loss: 0.0003
                                        g_loss: 8.1734
Epoch [
         228/
               250] | d loss: 0.0142
                                        g_loss: 7.1800
         228/
                      d_loss: 0.0029
                                        g_loss: 8.5376
Epoch [
               250] |
Epoch [
         228/
               250]
                      d loss: 0.0007
                                        g loss: 10.1140
                    1
Epoch [
         228/
               250]
                    d loss: 0.0395
                                        g loss: 8.9327
                                        g_loss: 11.1999
         228/
               250]
                    | d loss: 0.0250
Epoch [
         228/
                    | d_loss: 1.3079
Epoch [
               250]
                                        g_loss: 43.7657
                                        g_loss: 11.4443
         228/
                    d_loss: 0.0007
Epoch [
               250]
         228/
               250] | d loss: 0.0003
                                        g loss: 11.4565
Epoch [
         228/
Epoch [
               250] | d loss: 0.0293
                                        g loss: 7.2556
Epoch [
         228/
                      d loss: 0.0005
                                        g loss: 7.7743
               250]
                    1
Epoch [
         229/
               250]
                    d_loss: 8.8362
                                        g_loss: 43.2225
Epoch [
         229/
               250]
                    d loss: 0.0082
                                        g loss: 7.9773
         229/
                      d_loss: 0.0050
Epoch [
               250]
                                        g_loss: 16.0914
Epoch [
         229/
               250]
                    d loss: 0.0019
                                        g loss: 11.4391
Epoch [
         229/
               250]
                    | d loss: 0.0772
                                        g loss: 5.1221
         229/
               250] | d loss: 0.0244
                                        g_loss: 8.3469
Epoch [
         229/
                      d_loss: 0.0001
Epoch [
               250]
                    g_loss: 11.2240
                                        g_loss: 10.3454
         229/
                    d_loss: 0.0014
Epoch [
               250]
Epoch [
         229/
               250] | d loss: 0.0017
                                        g loss: 8.2652
Epoch [
         229/
               250]
                    | d loss: 0.0208
                                        g loss: 9.0704
         229/
Epoch [
               250]
                    | d loss: 0.0012
                                        g loss: 9.0443
Epoch [
                    | d_loss: 0.0011
         229/
               250]
                                        g_loss: 11.1585
Epoch [
         229/
               250] | d loss: 0.0023
                                        g_loss: 8.0017
         229/
                      d_loss: 0.0010
                                        g_loss: 9.4078
Epoch [
               250] |
Epoch [
         229/
               250]
                    d loss: 0.0013
                                        g loss: 8.2731
         229/
               250]
                    d loss: 0.0041
                                        g loss: 8.4056
Epoch [
                                        g_loss: 8.3204
         229/
               250] | d loss: 0.0049
Epoch [
         229/
Epoch [
               250]
                    | d_loss: 0.0030
                                        g_loss: 7.3765
         229/
                    d_loss: 0.0087
                                        g_loss: 8.9547
Epoch [
               250]
         229/
               250]
                    d loss: 0.0025
                                        g loss: 10.7953
Epoch [
         229/
Epoch [
               250] | d loss: 0.0105
                                        g loss: 8.3274
Epoch [
         229/
                      d loss: 0.0002
               250]
                    1
                                        g loss: 9.3387
                                        g_loss: 16.1910
Epoch [
         229/
               250]
                    | d_loss: 0.0277
Epoch [
         229/
               250]
                    d loss: 0.0001
                                        g loss: 16.0789
Epoch [
         229/
               250]
                      d_loss: 0.0363
                                        g_loss: 9.6964
Epoch [
         229/
               250]
                    d loss: 0.0020
                                        g loss: 11.3828
Epoch [
         229/
               250]
                    | d loss: 0.0000
                                        g loss: 24.1987
         229/
               250] | d_loss: 0.0046 |
                                        g_loss: 7.8745
Epoch [
         229/
                      d_loss: 0.0573 |
Epoch [
               250]
                    g_loss: 11.9251
Epoch [
         230/
               250]
                    | d_loss: 12.0014 | g_loss: 34.9511
         230/
               250]
                    | d loss: 0.0038 |
                                        g loss: 8.7318
Epoch [
Epoch [
         230/
               250]
                    d loss: 0.0038
                                        g_loss: 12.0205
         230/
Epoch [
               250]
                    | d loss: 0.0028
                                        g loss: 7.4136
                                        g_loss: 9.9105
Epoch [
         230/
               250]
                    | d_loss: 0.0032 |
Epoch [
         230/
               250] | d loss: 0.0003 |
                                        g loss: 10.5780
Epoch [
         230/
               250] |
                      d_loss: 0.0021 |
                                        g_loss: 8.4140
Epoch [
         230/
               250] | d loss: 0.0309 | g loss: 6.9812
```

```
250] | d loss: 0.0042 |
Epoch [
         230/
                                        g loss: 8.7228
Epoch [
         230/
               250] | d loss: 0.0030
                                        g loss: 6.9274
                                        g_loss: 7.3497
Epoch [
         230/
               250] | d_loss: 0.0021
Epoch [
         230/
               250] | d loss: 0.0368
                                        g loss: 6.9006
         230/
                    | d_loss: 0.0149
                                        g_loss: 8.1579
Epoch [
               250]
Epoch [
         230/
               250]
                    | d loss: 0.0110
                                        g loss: 9.2330
Epoch [
         230/
               250]
                    | d loss: 0.0005
                                        g loss: 5.9370
Epoch [
         230/
               250] | d loss: 0.0165
                                        g loss: 7.8559
Epoch [
         230/
               250]
                    | d_loss: 0.0013
                                        g_loss: 8.4462
         230/
                    | d_loss: 0.0019
                                        g_loss: 7.7968
Epoch [
               250]
         230/
               250] | d loss: 0.0063
                                        g loss: 9.3305
Epoch [
Epoch [
         230/
               250]
                    d loss: 0.0010
                                        g_loss: 8.6509
Epoch [
         230/
               250]
                    | d loss: 0.0088
                                        g loss: 8.9711
Epoch [
         230/
               250]
                    d_loss: 0.0073
                                        g_loss: 12.4171
Epoch [
         230/
               250] | d loss: 0.0114
                                        g_loss: 9.1983
         230/
               250] | d_loss: 0.0010
                                        g_loss: 9.0649
Epoch [
Epoch [
         230/
               250]
                    d loss: 0.0256
                                        g loss: 8.2760
Epoch [
         230/
               250]
                    d loss: 0.0661
                                        g loss: 10.9940
                                        g_loss: 7.4243
         230/
               250] | d loss: 0.0006
Epoch [
         230/
Epoch [
               250]
                    | d_loss: 0.0003
                                        g_loss: 7.6874
         230/
                    d_loss: 1.5334
                                        g_loss: 45.1861
Epoch [
               250]
         231/
               250] | d loss: 1.5236
                                        g loss: 37.5999
Epoch [
Epoch [
         231/
               250] | d loss: 0.0002
                                        g loss: 21.8405
Epoch [
         231/
                      d loss: 0.0066
                                        g loss: 8.4510
               250]
                    1
Epoch [
         231/
               250]
                    | d_loss: 0.0064
                                        g_loss: 10.2354
Epoch [
         231/
               250]
                    d loss: 0.0225
                                        g loss: 6.4271
         231/
                      d_loss: 0.0016
                                        g_loss: 9.3798
Epoch [
               250]
Epoch [
         231/
               250]
                    d loss: 0.0015
                                        g loss: 9.2865
Epoch [
         231/
               250]
                    | d loss: 0.0001
                                        g loss: 10.1196
         231/
               250] | d loss: 0.0040
                                        g_loss: 7.8792
Epoch [
         231/
                      d_loss: 0.0005
                                        g_loss: 9.4170
Epoch [
               250]
                    231/
                    | d_loss: 0.0019
                                        g_loss: 7.9468
Epoch [
               250]
Epoch [
         231/
               250] | d loss: 0.0046
                                        g loss: 10.0571
Epoch [
         231/
               250]
                    d loss: 0.0010
                                        g_loss: 10.5554
         231/
                                        g loss: 10.5018
Epoch [
               250]
                    | d loss: 0.0027
Epoch [
         231/
               250]
                    d_loss: 0.0007
                                        g_loss: 11.0039
Epoch [
         231/
               250]
                    d loss: 0.0007
                                        g_loss: 8.5779
         231/
                      d_loss: 0.0009
                                        g_loss: 16.2060
Epoch [
               250] |
Epoch [
         231/
               250]
                    d loss: 0.0003
                                        g loss: 12.2938
         231/
               250]
                    d loss: 0.0039
                                        g loss: 8.2445
Epoch [
         231/
               250]
                    | d loss: 0.0078
                                        g_loss: 10.9045
Epoch [
         231/
Epoch [
               250]
                    | d_loss: 0.0120
                                        g_loss: 12.8063
                                        g_loss: 20.7089
         231/
                    d_loss: 0.0369
Epoch [
               250]
         231/
               250]
                    d loss: 0.0084
                                        g loss: 8.8841
Epoch [
Epoch [
         231/
               250] | d loss: 0.0010
                                        g loss: 10.4936
Epoch [
         231/
                      d loss: 0.0027
                                        g loss: 7.4208
               250]
                    1
Epoch [
         231/
               250]
                    | d_loss: 0.0047
                                        g_loss: 8.9375
Epoch [
         231/
               250]
                    d loss: 0.0020
                                        g loss: 9.0449
Epoch [
         231/
               250]
                      d_loss: 0.0026
                                        g_loss: 10.8164
Epoch [
         231/
               250]
                    d loss: 0.0004
                                        g loss: 11.6060
Epoch [
         232/
               250]
                    | d loss: 12.2309 | g loss: 42.7244
         232/
               250] | d_loss: 0.0073 |
                                        g loss: 9.1085
Epoch [
         232/
                      d loss: 0.0436
Epoch [
               250]
                    g_loss: 9.1505
                                        g_loss: 10.9075
Epoch [
         232/
               250]
                    d_loss: 0.0015
         232/
               250]
                    d loss: 0.0100
                                        g loss: 6.6421
Epoch [
Epoch [
         232/
               250]
                    d loss: 0.0063
                                        g_loss: 7.6740
         232/
Epoch [
               250]
                    | d loss: 0.0118
                                        g loss: 5.7761
                                        g_loss: 12.3271
Epoch [
         232/
               250]
                    d_loss: 0.0004
Epoch [
         232/
               250] | d loss: 0.0000
                                        g_loss: 8.5186
Epoch [
         232/
               250] |
                      d_loss: 0.0165 |
                                        g_loss: 8.2582
Epoch [
         232/
               250] | d loss: 0.0006 | g loss: 8.0758
```

```
250] | d loss: 0.0011 |
Epoch [
         232/
                                        g loss: 8.4741
Epoch [
         232/
               250] | d loss: 0.0022
                                        g loss: 6.2746
                                        g_loss: 8.7968
Epoch [
         232/
               250] | d_loss: 0.0345
Epoch [
         232/
               250] | d loss: 0.0036
                                        g loss: 6.9029
         232/
                    d_loss: 0.0004
Epoch [
               250]
                                        g_loss: 10.9650
Epoch [
         232/
               250]
                    d loss: 0.0069
                                        g loss: 12.7628
Epoch [
         232/
               250]
                    | d loss: 0.0433
                                        g loss: 9.5295
Epoch [
         232/
               250] | d loss: 0.0011
                                        g loss: 10.0127
Epoch [
         232/
               250]
                    | d_loss: 0.0059
                                        g_loss: 8.1918
         232/
                    d_loss: 0.0006
                                        g_loss: 7.1565
Epoch [
               250]
         232/
               250] | d loss: 0.0006
                                        g loss: 7.7648
Epoch [
Epoch [
         232/
               250]
                    d loss: 0.0017
                                        g_loss: 8.1816
Epoch [
         232/
               250]
                    | d loss: 0.0006
                                        g loss: 12.4454
Epoch [
         232/
               250]
                    d loss: 0.0044
                                        g_loss: 11.3982
Epoch [
         232/
               250] | d loss: 0.0007
                                        g_loss: 4.3452
         232/
                      d_loss: 0.0089
                                        g_loss: 11.3128
Epoch [
               250]
Epoch [
         232/
               250]
                      d loss: 0.0775
                                        g loss: 16.1986
                    1
Epoch [
         232/
               250]
                    | d loss: 0.0008 |
                                        g loss: 12.1188
Epoch [
         233/
                    d loss: 13.0875
                                         g_loss: 40.3760
               250]
         233/
Epoch [
               250]
                    d_loss: 0.0332
                                        g_loss: 8.3354
                                        g_loss: 12.5124
         233/
                    d_loss: 0.0013
Epoch [
               250]
         233/
               250] | d loss: 0.0020
                                        g loss: 9.9607
Epoch [
Epoch [
         233/
               250] | d loss: 0.0033
                                        g loss: 7.7295
Epoch [
         233/
                      d loss: 0.0044
               250]
                    1
                                        g loss: 8.4266
Epoch [
                                        g_loss: 8.5509
         233/
               250]
                    | d_loss: 0.0003
Epoch [
         233/
               250]
                    d loss: 0.0234
                                        g loss: 7.3932
         233/
                      d_loss: 0.0012
                                        g_loss: 9.7435
Epoch [
               250]
Epoch [
         233/
               250]
                    | d loss: 0.0131
                                        g loss: 7.5480
Epoch [
         233/
               250]
                    | d loss: 0.0012
                                        g loss: 8.4704
         233/
               250] | d loss: 0.0217
                                        g_loss: 7.6063
Epoch [
         233/
                      d_loss: 0.0020
                                        g_loss: 10.5308
Epoch [
               250]
                    233/
                    d_loss: 0.0003
                                        g_loss: 8.1685
Epoch [
               250]
                                        g_loss: 9.3745
Epoch [
         233/
               250] | d loss: 0.0042
Epoch [
         233/
               250]
                    | d loss: 0.0008
                                        g_loss: 7.0259
         233/
                    d loss: 0.0046
Epoch [
               250]
                                        g loss: 6.0166
Epoch [
         233/
               250]
                    d_loss: 0.0168
                                        g_loss: 7.7321
Epoch [
         233/
               250] | d loss: 0.0010
                                        g_loss: 10.1542
         233/
                      d_loss: 0.0141
                                        g_loss: 8.4002
Epoch [
               250] |
Epoch [
         233/
               250]
                    d loss: 0.0163
                                        g loss: 18.7375
         233/
               250] | d loss: 0.0067
                                        g loss: 12.8585
Epoch [
                                        g_loss: 12.7889
         233/
               250] | d loss: 0.0015
Epoch [
         233/
Epoch [
               250]
                    | d_loss: 0.0038
                                        g_loss: 8.5612
         233/
                    | d_loss: 0.0019
                                        g_loss: 10.4039
Epoch [
               250]
         233/
               250]
                    | d loss: 0.0013
                                        g loss: 6.9753
Epoch [
Epoch [
         233/
               250] | d loss: 0.0106
                                        g loss: 4.9524
Epoch [
         233/
                      d loss: 0.0024
                                        g loss: 8.4293
               250]
                    1
Epoch [
         233/
               250]
                    d_loss: 0.0062
                                        g_loss: 12.2474
Epoch [
         234/
               250]
                    | d loss: 1.9498
                                        g loss: 32.1016
Epoch [
         234/
               250]
                      d_loss: 0.0099
                                        g_loss: 8.0334
Epoch [
         234/
               250]
                    d loss: 0.0023
                                        g loss: 11.4123
Epoch [
         234/
               250]
                    d loss: 0.0054
                                        g loss: 8.3882
Epoch [
         234/
               250] | d loss: 0.0004
                                        g_loss: 10.5464
Epoch [
         234/
                      d_loss: 0.0002
                                        g_loss: 12.4928
               250]
                    g_loss: 10.0703
Epoch [
         234/
               250]
                    d_loss: 0.0012
         234/
               250]
                    d loss: 0.0003
                                        g loss: 13.3725
Epoch [
Epoch [
         234/
               250]
                    | d loss: 0.0012
                                        g_loss: 9.3657
         234/
Epoch [
               250]
                    | d loss: 0.0023
                                        g loss: 6.6094
                                        g_loss: 8.4430
Epoch [
         234/
               250]
                    d_loss: 0.0017
Epoch [
         234/
               250] | d loss: 0.0005
                                        g loss: 8.5235
         234/
Epoch [
               250] |
                      d_loss: 0.1166 |
                                        g_loss: 7.7346
Epoch [
         234/
               250] | d loss: 0.0016 | g loss: 8.5025
```

```
250] | d loss: 0.0080 |
Epoch [
         234/
                                        g loss: 9.5205
Epoch [
         234/
               250] | d loss: 0.0046
                                         g loss: 15.3759
                                         g_loss: 7.3440
Epoch [
         234/
               250] | d_loss: 0.0032
Epoch [
         234/
               250] | d loss: 0.0122
                                         g loss: 8.0698
         234/
                      d_loss: 0.0168
Epoch [
               250]
                                         g_loss: 7.1311
Epoch [
         234/
               250]
                     d loss: 0.0043
                                         g loss: 10.3483
Epoch [
         234/
               250]
                    | d loss: 0.0004
                                         g loss: 7.7842
Epoch [
         234/
               250] | d loss: 0.0014
                                         g_loss: 7.9181
Epoch [
         234/
               250]
                    d_loss: 0.0012
                                         g_loss: 8.5773
         234/
                    d_loss: 0.2406
                                         g_loss: 1.6553
Epoch [
               250]
         234/
               250]
                    d loss: 0.0002
                                         g loss: 5.8360
Epoch [
Epoch [
         234/
               250]
                     d loss: 0.0014
                                         g_loss: 6.5633
Epoch [
         234/
               250]
                     | d loss: 0.0030
                                         g loss: 8.0149
Epoch [
         234/
               250]
                     | d_loss: 0.0286
                                         g_loss: 9.3162
Epoch [
         234/
               250] | d loss: 0.0088
                                         g_loss: 9.0064
         235/
                      d_loss: 6.6375
                                         g_loss: 52.1762
Epoch [
               250] |
Epoch [
         235/
               250]
                      d loss: 0.0034
                                         g loss: 12.0861
                     1
Epoch [
         235/
               250]
                    d loss: 0.0109
                                         g loss: 7.9304
Epoch [
         235/
                    | d loss: 0.0141
                                         g_loss: 8.7761
               250]
         235/
Epoch [
               250]
                     | d_loss: 0.0045
                                         g_loss: 6.4985
         235/
                     | d_loss: 0.0027
                                         g_loss: 4.7873
Epoch [
               250]
         235/
               250] | d loss: 0.0062
                                         g loss: 5.3286
Epoch [
Epoch [
         235/
               250] | d loss: 0.0158
                                         g loss: 10.5771
Epoch [
         235/
                      d loss: 0.0038
               250]
                     1
                                         g loss: 8.0095
Epoch [
         235/
               250]
                    | d_loss: 0.0086
                                         g_loss: 6.8034
Epoch [
         235/
               250]
                     | d loss: 0.0158
                                         g loss: 8.5250
         235/
                      d_loss: 0.0064
Epoch [
               250]
                                         g_loss: 7.3681
Epoch [
         235/
               250]
                     d loss: 0.0010
                                         g loss: 7.8728
Epoch [
         235/
               250]
                    d loss: 0.0004
                                         g loss: 7.9062
         235/
               250] | d loss: 0.0114
                                         g_loss: 7.8570
Epoch [
         235/
                      d_loss: 0.0051
                                        g_loss: 6.7442
Epoch [
               250]
                    235/
                    | d_loss: 0.0033
                                         g_loss: 8.2549
Epoch [
               250]
Epoch [
         235/
               250] | d loss: 0.0256
                                         g loss: 6.9302
Epoch [
         235/
               250]
                     d loss: 0.0019
                                         g_loss: 11.7628
         235/
                     d loss: 0.0028
Epoch [
               250]
                                         g loss: 8.7278
Epoch [
         235/
               250]
                     d_loss: 0.0150
                                         g_loss: 8.0238
Epoch [
         235/
               250]
                    | d loss: 0.0101
                                         g_loss: 9.0697
         235/
                      d_loss: 0.0087
                                         g_loss: 8.9071
Epoch [
               250] |
Epoch [
         235/
               250]
                     d loss: 0.0003
                                         g loss: 6.7499
         235/
               250]
                    d loss: 0.0008
                                         g loss: 8.8128
Epoch [
                                        g_loss: 8.1664
         235/
               250] | d loss: 0.0022
Epoch [
         235/
Epoch [
               250]
                     | d_loss: 0.0152
                                         g_loss: 6.8586
         235/
                     | d_loss: 0.0176
                                         g_loss: 8.3826
Epoch [
               250]
         235/
               250]
                    d loss: 0.0003
                                         g loss: 6.5976
Epoch [
Epoch [
         236/
               250] | d loss: 0.0808
                                         g loss: 10.6354
Epoch [
         236/
                      d loss: 0.0000
                                         g loss: 17.7777
               250]
                     1
Epoch [
         236/
               250]
                    | d_loss: 0.0069
                                         g_loss: 7.1095
Epoch [
         236/
               250]
                     d loss: 0.0073
                                         g loss: 7.2866
Epoch [
         236/
               250]
                      d_loss: 0.0006
                                         g_loss: 7.4948
Epoch [
         236/
               250]
                      d loss: 0.0165
                                         g loss: 7.0634
Epoch [
         236/
               250]
                     d loss: 0.0246
                                         g loss: 6.2879
         236/
               250] | d loss: 0.0009
                                         g_loss: 9.5000
Epoch [
         236/
                      d_loss: 0.0011
                                         g_loss: 11.9394
Epoch [
               250]
                    Epoch [
         236/
               250]
                    d_loss: 0.0163
                                         g_loss: 8.7740
                                         g_loss: 9.1369
         236/
               250]
                    | d loss: 0.0005
Epoch [
Epoch [
         236/
               250]
                     d loss: 0.0176
                                         g_loss: 7.7658
         236/
Epoch [
               250]
                      d loss: 0.0008
                                         g loss: 8.2734
Epoch [
         236/
               250]
                      d_loss: 0.0002
                                         g_loss: 10.7022
Epoch [
         236/
               250] | d loss: 0.0005
                                        g loss: 10.7446
Epoch [
         236/
               250] |
                      d_loss: 0.0004 |
                                        g_loss: 9.7831
Epoch [
         236/
               250] | d loss: 0.0001 | g loss: 10.6382
```

```
250] | d loss: 0.0044 |
Epoch [
         236/
                                        g loss: 10.1483
         236/
               250] | d loss: 0.0564
Epoch [
                                        g loss: 8.5455
                                        g_loss: 11.6404
Epoch [
         236/
               250] | d_loss: 0.0000
Epoch [
         236/
               250] | d loss: 0.0017
                                        g loss: 13.7851
         236/
                      d_loss: 0.0004
Epoch [
               250]
                                        g_loss: 8.1118
Epoch [
         236/
               250]
                    d loss: 0.0223
                                        g loss: 16.1286
         236/
               250]
                    | d loss: 0.0010
                                        g loss: 8.8639
Epoch [
                                        g_loss: 14.2131
Epoch [
         236/
               250] | d loss: 0.0010
Epoch [
         236/
               250]
                    d_loss: 0.0002
                                        g_loss: 9.7021
         236/
                    | d_loss: 0.0071
                                        g_loss: 12.9728
Epoch [
               250]
                                        g_loss: 12.0418
         236/
               250]
                    d loss: 0.0004
Epoch [
Epoch [
         236/
               250]
                    | d loss: 0.0008 |
                                        g_loss: 8.3958
Epoch [
         237/
               250]
                    d loss: 16.7669
                                       g loss: 42.1319
Epoch [
         237/
               250]
                    | d_loss: 0.0026 |
                                        g_loss: 11.2204
Epoch [
         237/
               250] | d loss: 0.0129
                                        g loss: 6.7154
         237/
                      d_loss: 0.0110
                                        g_loss: 6.5385
Epoch [
               250] |
Epoch [
         237/
               250]
                      d loss: 0.0253
                                        g loss: 7.6738
                    Epoch [
         237/
               250] | d loss: 0.0001
                                        g loss: 11.7237
         237/
               250] | d loss: 0.0030
                                        g_loss: 12.6126
Epoch [
         237/
Epoch [
               250]
                    | d_loss: 0.0013
                                        g_loss: 6.4849
         237/
                    d_loss: 0.0060
                                        g_loss: 8.1601
Epoch [
               250]
         237/
               250] | d loss: 0.0012
                                        g loss: 10.9382
Epoch [
Epoch [
         237/
               250] | d loss: 0.0018
                                        g loss: 8.9797
Epoch [
         237/
                      d loss: 0.0042
               250]
                    1
                                        g loss: 6.0835
Epoch [
         237/
               250]
                    d_loss: 0.0023
                                        g_loss: 9.5576
Epoch [
         237/
               250]
                    | d loss: 0.0108
                                        g loss: 7.6214
         237/
                      d_loss: 0.0055
                                        g_loss: 6.4854
Epoch [
               250]
Epoch [
         237/
               250]
                    d loss: 0.0010
                                        g loss: 7.3545
Epoch [
         237/
               250]
                    | d loss: 0.0429
                                        g loss: 7.8775
         237/
               250] | d loss: 0.0007
                                        g_loss: 13.5499
Epoch [
         237/
                      d_loss: 0.0001
                                        g_loss: 9.8071
Epoch [
               250]
                    237/
                    | d_loss: 0.0012
                                        g_loss: 7.6764
Epoch [
               250]
Epoch [
         237/
               250] | d loss: 0.0002
                                        g loss: 9.6472
Epoch [
         237/
               250]
                    | d loss: 0.0055
                                        g_loss: 9.0269
         237/
Epoch [
               250]
                    | d loss: 0.0009
                                        g loss: 6.1271
Epoch [
         237/
               250]
                    d_loss: 0.0022
                                        g_loss: 7.1447
Epoch [
         237/
               250] | d loss: 0.0002
                                        g_loss: 13.8957
         237/
                      d_loss: 0.0018
                                        g_loss: 9.0755
Epoch [
               250] |
Epoch [
         237/
               250]
                    d loss: 0.0155
                                        g loss: 9.8464
         237/
               250] | d loss: 0.0017
                                        g loss: 10.5083
Epoch [
                                        g_loss: 8.6247
         237/
               250] | d loss: 0.0008 |
Epoch [
         238/
                    | d_loss: 14.6470 | g_loss: 46.4718
Epoch [
               250]
         238/
                    | d_loss: 0.0051 |
                                        g_loss: 8.8633
Epoch [
               250]
         238/
               250] | d loss: 0.0243
                                        g loss: 8.0753
Epoch [
Epoch [
         238/
               250] | d loss: 0.0123
                                        g_loss: 8.4714
Epoch [
         238/
                      d loss: 0.0047
               250]
                    1
                                        g loss: 9.5506
Epoch [
         238/
               250]
                    | d_loss: 0.0079
                                        g_loss: 7.1750
Epoch [
         238/
               250]
                    d loss: 0.0203
                                        g_loss: 7.3165
Epoch [
         238/
               250]
                      d_loss: 0.0107
                                        g_loss: 7.4068
Epoch [
         238/
               250]
                    d loss: 0.0007
                                        g loss: 9.0280
Epoch [
         238/
               250]
                    | d loss: 0.0001
                                        g loss: 7.4449
         238/
               250] | d loss: 0.0024
                                        g_loss: 7.0328
Epoch [
         238/
                      d_loss: 0.0068
                                        g_loss: 7.0469
Epoch [
               250]
                    Epoch [
         238/
               250]
                    d_loss: 0.0019
                                        g_loss: 7.3719
                                        g_loss: 7.1868
         238/
               250]
                    d loss: 0.0083
Epoch [
Epoch [
         238/
               250]
                    d loss: 0.0060
                                        g_loss: 8.7473
         238/
Epoch [
               250]
                    | d loss: 0.0225
                                        g loss: 7.8556
Epoch [
         238/
               250]
                    d_loss: 0.0007
                                        g_loss: 8.9782
Epoch [
         238/
               250] | d loss: 0.0037
                                        g loss: 11.3736
Epoch [
         238/
               250] |
                      d_loss: 0.0003 |
                                        g_loss: 10.6983
Epoch [
         238/
               250] | d loss: 0.0013 | g loss: 8.3801
```

```
250] | d loss: 0.0000 |
Epoch [
         238/
                                        g loss: 12.6392
Epoch [
         238/
               250] | d loss: 0.0001
                                        g loss: 12.7021
                                        g_loss: 5.9548
Epoch [
         238/
               250] | d_loss: 0.0004
Epoch [
         238/
               250] | d loss: 0.0045
                                        g loss: 8.4578
         238/
                    | d_loss: 0.0023
Epoch [
               250]
                                        g_loss: 6.3726
Epoch [
         238/
               250]
                    d loss: 0.0056
                                        g loss: 9.9463
         238/
               250]
                    | d loss: 0.0006
                                        g loss: 11.4010
Epoch [
Epoch [
         238/
               250] | d loss: 0.0002
                                        g_loss: 6.5326
Epoch [
         238/
               250]
                    d_loss: 0.0002
                                        g_loss: 9.8335
         239/
                    | d_loss: 1.0561
                                        g_loss: 37.8914
Epoch [
               250]
         239/
               250] | d loss: 0.0737
                                        g loss: 5.1915
Epoch [
Epoch [
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               250]
                    d loss: 0.0031
                                        g_loss: 8.2570
Epoch [
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                    | d loss: 0.0328
                                        g loss: 10.0004
Epoch [
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                                        g_loss: 6.6968
Epoch [
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                                        g loss: 11.2400
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Epoch [
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Epoch [
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                    d loss: 0.0014
                                        g loss: 7.0600
Epoch [
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                                        g loss: 12.0841
                                        g_loss: 9.4366
         239/
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Epoch [
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Epoch [
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                                        g_loss: 11.9953
         239/
                    d_loss: 0.0023
                                        g_loss: 9.3402
Epoch [
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         239/
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                                        g loss: 10.6664
Epoch [
Epoch [
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                                        g loss: 9.7792
Epoch [
         239/
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                    1
Epoch [
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                                        g_loss: 8.7672
Epoch [
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         239/
                      d_loss: 0.0007
                                        g_loss: 7.9238
Epoch [
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Epoch [
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                                        g loss: 8.3409
Epoch [
         239/
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                                        g loss: 9.1799
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                                        g_loss: 14.9358
Epoch [
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                                        g_loss: 13.6145
Epoch [
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                    239/
                    d_loss: 0.0004
                                        g_loss: 10.4542
Epoch [
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                                        g_loss: 7.4606
Epoch [
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Epoch [
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Epoch [
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                                        g loss: 13.0205
Epoch [
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                    d_loss: 0.0142
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                                        g_loss: 22.4782
Epoch [
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                      d_loss: 0.0248 | g_loss: 10.6338
Epoch [
               250] |
Epoch [
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                      d loss: 12.3702 | g loss: 43.9306
                    1
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                                        g loss: 7.8163
Epoch [
                                        g_loss: 9.0991
         240/
               250] | d loss: 0.0154
Epoch [
         240/
Epoch [
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                    | d_loss: 0.0339
                                        g_loss: 9.5523
         240/
                    d_loss: 0.0296
                                        g_loss: 7.4602
Epoch [
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         240/
               250]
                    | d loss: 0.0018
                                        g loss: 12.9931
Epoch [
Epoch [
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                                        g_loss: 9.2375
Epoch [
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                      d loss: 0.0059
                                        g loss: 10.7851
               250]
                    1
                                        g_loss: 8.2202
Epoch [
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               250]
                    d_loss: 0.0023
Epoch [
         240/
               250]
                    | d loss: 0.0065
                                        g loss: 7.5854
Epoch [
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               250]
                      d_loss: 0.0034
                                        g_loss: 14.0477
Epoch [
         240/
               250]
                    d loss: 0.0225
                                        g loss: 7.2807
Epoch [
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               250]
                    | d loss: 0.0017
                                        g loss: 7.6835
Epoch [
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                                        g_loss: 7.1292
         240/
                      d_loss: 0.0073
Epoch [
               250]
                    g_loss: 11.7293
Epoch [
         240/
               250]
                    d_loss: 0.0474
                                        g_loss: 5.0091
         240/
               250]
                    d loss: 0.0027
                                        g loss: 9.3777
Epoch [
Epoch [
         240/
               250]
                    | d loss: 0.0046
                                        g_loss: 7.1136
         240/
Epoch [
               250]
                    | d loss: 0.0002
                                        g loss: 10.2490
                                        g_loss: 11.0237
Epoch [
         240/
               250]
                    d_loss: 0.0007
Epoch [
         240/
               250] | d loss: 0.0010
                                        g loss: 10.8415
                                        g_loss: 11.4829
Epoch [
         240/
               250] |
                      d_loss: 0.0006
Epoch [
         240/
               250] | d loss: 0.0020 | g loss: 6.5166
```

```
250] | d loss: 0.0033 |
Epoch [
         240/
                                        g loss: 9.2910
Epoch [
         240/
               250] | d loss: 0.0005
                                        g loss: 16.7553
                                        g_loss: 6.9141
Epoch [
         240/
               250] | d_loss: 0.0036
Epoch [
         240/
               250] | d loss: 0.0106 |
                                        g loss: 8.0689
                      d_loss: 0.0008
Epoch [
         240/
               250]
                                        g_loss: 11.5342
                                        g_loss: 7.2628
Epoch [
         240/
               250]
                    | d loss: 0.0002 |
         241/
               250]
                    | d loss: 13.1074 | g loss: 31.9844
Epoch [
Epoch [
         241/
               250] | d loss: 0.0062 |
                                        g loss: 11.0983
Epoch [
         241/
               250]
                    d_loss: 0.0077
                                        g_loss: 8.4631
         241/
                    | d_loss: 0.0151
                                        g_loss: 7.9059
Epoch [
               250]
         241/
               250] | d loss: 0.0019
                                        g loss: 8.3767
Epoch [
Epoch [
         241/
               250]
                    d loss: 0.0638
                                        g_loss: 9.4190
Epoch [
         241/
               250]
                    | d loss: 0.0059
                                        g loss: 11.8355
Epoch [
         241/
               250]
                    d_loss: 0.0067
                                        g_loss: 9.7602
Epoch [
         241/
               250] | d loss: 0.0042
                                        g_loss: 8.7047
         241/
                      d_loss: 0.0695
                                        g_loss: 8.3029
Epoch [
               250] |
Epoch [
         241/
               250]
                      d loss: 0.0031
                                        g loss: 9.1519
                    Epoch [
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               250]
                    d loss: 0.0195
                                        g loss: 9.1413
                                        g_loss: 5.9955
         241/
                    d loss: 0.0124
Epoch [
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         241/
Epoch [
               250]
                    | d_loss: 0.0331
                                        g_loss: 6.1713
         241/
                    d_loss: 0.0034
Epoch [
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                                        g_loss: 6.8671
         241/
               250] | d loss: 0.0001
                                        g_loss: 11.5036
Epoch [
Epoch [
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                                        g loss: 11.3219
Epoch [
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                      d loss: 0.0003
                                        g loss: 11.5048
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                    1
                                        g_loss: 8.5148
Epoch [
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Epoch [
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         241/
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                                        g_loss: 8.2157
Epoch [
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Epoch [
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                                        g loss: 9.5973
Epoch [
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                    | d loss: 0.0001
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         241/
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                                        g_loss: 10.3639
Epoch [
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                      d_loss: 0.0001
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Epoch [
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                    d_loss: 0.0149
Epoch [
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                                        g_loss: 9.5910
Epoch [
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                                        g loss: 12.4749
Epoch [
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                    d loss: 0.0002
                                        g_loss: 11.6537
         241/
                    d loss: 0.0005
Epoch [
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                                        g loss: 10.9181
Epoch [
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               250]
                    | d_loss: 11.2485 | g_loss: 55.8992
Epoch [
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                                        g loss: 8.6131
         242/
                      d_loss: 0.0012
Epoch [
               250]
                                        g_loss: 8.0385
Epoch [
         242/
               250]
                    d loss: 0.0003
                                        g loss: 28.5793
         242/
               250]
                    d loss: 0.0001
                                        g loss: 10.0535
Epoch [
                                        g_loss: 9.4589
         242/
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Epoch [
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Epoch [
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                                        g_loss: 10.3994
         242/
                    d_loss: 0.0003
                                        g_loss: 7.4730
Epoch [
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         242/
               250]
                    | d loss: 0.0017
                                        g loss: 11.6005
Epoch [
Epoch [
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                                        g_loss: 8.4216
Epoch [
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                      d loss: 0.0023
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                    1
                                        g loss: 7.9249
Epoch [
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                                        g_loss: 6.3000
Epoch [
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               250]
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                                        g loss: 8.4122
Epoch [
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                      d_loss: 0.0023
                                        g_loss: 9.5288
Epoch [
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         242/
               250]
                    | d loss: 0.0060
                                        g loss: 13.9960
Epoch [
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                                        g_loss: 9.7955
Epoch [
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                      d_loss: 0.0013
                                        g_loss: 8.9792
Epoch [
               250]
                    Epoch [
         242/
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                    d_loss: 0.0156
                                        g_loss: 8.7678
         242/
               250]
                    d loss: 0.0042
                                        g loss: 11.7981
Epoch [
Epoch [
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                    | d_loss: 0.0001
                                        g_loss: 7.6154
         242/
Epoch [
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                    | d loss: 0.0006
                                        g loss: 9.7472
Epoch [
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               250]
                    d_loss: 0.0036
                                        g_loss: 9.8972
Epoch [
         242/
               250] | d loss: 0.0020
                                        g loss: 9.4484
Epoch [
         242/
               250] |
                      d_loss: 0.0004
                                        g_loss: 11.6565
Epoch [
         242/
               250] | d loss: 0.0012 | g loss: 11.9025
```

```
250] | d loss: 0.0051 |
Epoch [
         242/
                                        g loss: 9.8803
Epoch [
         242/
               250] | d loss: 0.0318
                                        g loss: 7.2134
                                        g_loss: 9.2309
Epoch [
         242/
               250] | d_loss: 0.0004 |
Epoch [
         243/
               250] | d_loss: 14.1989 | g_loss: 55.4643
Epoch [
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                    | d_loss: 0.1036 |
                                        g_loss: 4.1231
Epoch [
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                    d loss: 0.0031
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         243/
               250]
                    d loss: 0.0107
                                        g loss: 6.1131
Epoch [
Epoch [
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                                        g_loss: 6.7911
Epoch [
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                    d_loss: 0.0014
                                        g_loss: 9.9676
         243/
                    | d_loss: 0.0066
                                        g_loss: 8.9364
Epoch [
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               250] | d loss: 0.0021
                                        g loss: 4.9778
Epoch [
Epoch [
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               250]
                    d loss: 0.0141
                                        g_loss: 5.8839
Epoch [
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               250]
                    | d loss: 0.0025
                                        g loss: 7.1668
Epoch [
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               250]
                    | d_loss: 0.0089
                                        g_loss: 6.1149
Epoch [
         243/
               250] | d loss: 0.0442
                                        g_loss: 9.6901
         243/
               250] | d_loss: 0.0025
                                        g_loss: 7.7555
Epoch [
Epoch [
         243/
               250]
                    d loss: 0.0015
                                        g loss: 12.6124
Epoch [
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               250]
                    d loss: 0.0002
                                        g loss: 8.1005
         243/
               250] | d loss: 0.0003
                                        g_loss: 14.1652
Epoch [
         243/
Epoch [
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                    | d_loss: 0.0143
                                        g_loss: 7.9325
         243/
                    d_loss: 0.0025
                                        g_loss: 8.7732
Epoch [
               250]
         243/
               250] | d loss: 0.0007
                                        g loss: 14.0594
Epoch [
Epoch [
         243/
               250] | d loss: 0.0015
                                        g loss: 8.1651
Epoch [
         243/
                      d loss: 0.0018
               250]
                    1
                                        g loss: 9.2960
                                        g_loss: 6.2886
Epoch [
         243/
               250]
                    | d_loss: 0.0462
Epoch [
         243/
               250]
                    d loss: 0.0114
                                        g loss: 6.3550
         243/
                      d_loss: 0.0005
Epoch [
               250]
                                        g_loss: 7.6465
Epoch [
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                    d loss: 0.0042
                                        g loss: 7.9421
Epoch [
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                    | d loss: 0.0005
                                        g loss: 11.8542
                                        g_loss: 10.7883
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Epoch [
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Epoch [
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                    | d_loss: 0.0042 |
Epoch [
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Epoch [
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                                       g loss: 45.7392
Epoch [
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                    d loss: 0.0058
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Epoch [
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Epoch [
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                    d_loss: 0.0035
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Epoch [
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Epoch [
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Epoch [
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                    d loss: 0.0177
                                        g loss: 8.2653
Epoch [
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         244/
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Epoch [
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Epoch [
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                    d loss: 0.0010
                                        g_loss: 10.7849
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                    | d_loss: 0.0010
                                        g_loss: 7.6631
Epoch [
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                    d loss: 0.0058
                                        g loss: 8.1019
Epoch [
Epoch [
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Epoch [
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                    1
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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Epoch [
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                                        g_loss: 6.7599
Epoch [
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Epoch [
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                    d_loss: 0.0001
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                                        g_loss: 8.7677
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Epoch [
Epoch [
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                    | d loss: 0.0007
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Epoch [
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                                        g loss: 13.7256
                                        g_loss: 10.2220
Epoch [
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Epoch [
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                                        g loss: 10.8844
Epoch [
         244/
               250] |
                      d_loss: 0.0008
                                        g_loss: 8.4693
Epoch [
         244/
               250] | d loss: 0.0004 | g loss: 8.8417
```

```
250 | d loss: 12.4826 | g loss: 39.4591
Epoch [
         245/
         245/
               250] | d loss: 0.0001 |
Epoch [
                                        g loss: 13.9067
                                        g_loss: 9.4763
Epoch [
         245/
               250] | d_loss: 0.0036
Epoch [
         245/
               250] | d loss: 0.0079
                                        g loss: 10.6528
               250] | d_loss: 0.0010
Epoch [
         245/
                                        g_loss: 8.8729
Epoch [
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                    d loss: 0.0084
                                        g loss: 9.1317
         245/
               250]
                    d loss: 0.0001
                                        g loss: 10.6656
Epoch [
Epoch [
         245/
               250] | d loss: 0.0012
                                        g_loss: 7.0616
Epoch [
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               250] | d_loss: 0.0023
                                        g_loss: 9.1798
         245/
                    | d_loss: 0.0019
                                        g_loss: 6.6294
Epoch [
               250]
         245/
               250] | d loss: 0.0015
                                        g loss: 6.8465
Epoch [
Epoch [
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                    | d loss: 0.0043
                                        g loss: 8.5086
Epoch [
         245/
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                    | d loss: 0.0014
                                        g loss: 10.9878
Epoch [
         245/
               250]
                    d_loss: 0.0045
                                        g_loss: 9.8569
Epoch [
         245/
               250] | d loss: 0.0040
                                        g loss: 12.3674
         245/
               250] | d_loss: 0.0012
                                        g_loss: 10.8025
Epoch [
Epoch [
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               250]
                    d loss: 0.0055
                                        g loss: 14.4173
Epoch [
         245/
               250] | d loss: 0.0352
                                        g loss: 8.2047
         245/
               250] | d loss: 0.0005
                                        g_loss: 15.7494
Epoch [
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Epoch [
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                    | d_loss: 0.0012
                                        g_loss: 8.8359
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                    d_loss: 0.0103
                                        g_loss: 10.9180
Epoch [
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         245/
               250] | d loss: 0.0062
                                        g loss: 11.6400
Epoch [
Epoch [
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                                        g_loss: 6.6954
Epoch [
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                                        g loss: 11.5171
               250]
                    Epoch [
         245/
               250]
                    d_loss: 0.0008
                                        g_loss: 7.7112
Epoch [
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               250]
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                                        g loss: 26.1393
         245/
                      d_loss: 0.0012
                                        g_loss: 13.9678
Epoch [
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Epoch [
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               250]
                    d loss: 0.0220
                                        g loss: 9.3043
Epoch [
         245/
               250]
                    | d loss: 0.0058 |
                                        g_loss: 6.9450
         246/
               250] | d_loss: 14.0964 | g_loss: 34.8968
Epoch [
         246/
                      d_loss: 0.0235
                                        g_loss: 7.1310
Epoch [
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                    g_loss: 11.0022
         246/
                    | d_loss: 0.0080 |
Epoch [
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                                        g_loss: 7.7237
Epoch [
         246/
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Epoch [
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                    d loss: 0.0496
                                        g_loss: 8.0060
         246/
Epoch [
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                    | d loss: 0.0015
                                        g loss: 6.2941
Epoch [
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Epoch [
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                                        g_loss: 7.0820
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                                        g_loss: 7.6291
Epoch [
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Epoch [
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                    d loss: 0.0124
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                                        g loss: 6.3004
Epoch [
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Epoch [
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Epoch [
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                    | d_loss: 0.0038
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                    | d_loss: 0.0012
                                        g_loss: 7.7830
Epoch [
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                                        g loss: 8.7819
Epoch [
Epoch [
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                                        g loss: 6.9941
Epoch [
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                      d loss: 0.0055
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                    g loss: 8.7030
Epoch [
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                                        g loss: 8.2882
Epoch [
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                                        g_loss: 8.7072
Epoch [
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                                        g loss: 11.7565
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                                        g loss: 14.9846
Epoch [
                                        g_loss: 7.6813
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Epoch [
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                    d_loss: 0.0029
Epoch [
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                                        g_loss: 8.2466
                                        g_loss: 10.0223
Epoch [
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                                        g_loss: 12.4763
         246/
               250] | d loss: 0.0010
Epoch [
Epoch [
         246/
               250] | d loss: 0.0023
                                        g_loss: 7.3977
Epoch [
         246/
               250]
                    | d loss: 0.0031
                                        g loss: 11.9733
Epoch [
         246/
               250]
                    | d_loss: 0.0004 | g_loss: 11.9211
Epoch [
         247/
               250] | d loss: 17.8854 | g loss: 38.5756
         247/
                      d_loss: 0.0035 | g_loss: 5.8889
Epoch [
               250] |
               250] | d loss: 0.0588 | g loss: 8.1962
Epoch [
         247/
```

```
250] | d loss: 0.0002 |
Epoch [
         247/
                                        g loss: 10.2694
         247/
               250] | d loss: 0.0016
Epoch [
                                         g loss: 7.7605
                                         g_loss: 8.3099
Epoch [
         247/
               250] | d_loss: 0.0038
Epoch [
         247/
               250] | d loss: 0.0097
                                         g loss: 8.2435
                      d_loss: 0.0065
Epoch [
         247/
               250]
                                         g_loss: 9.2775
Epoch [
         247/
               250]
                     d loss: 0.0034
                                         g loss: 10.8191
         247/
               250]
                    | d loss: 0.0011
                                         g loss: 13.7456
Epoch [
                                        g_loss: 12.3755
Epoch [
         247/
               250] | d loss: 0.0014
Epoch [
         247/
               250]
                    d_loss: 0.0014
                                         g_loss: 7.3016
         247/
                    | d_loss: 0.0005
                                         g_loss: 7.4472
Epoch [
               250]
                                         g_loss: 10.9883
         247/
               250] | d loss: 0.0054
Epoch [
Epoch [
         247/
               250]
                     d loss: 0.0031
                                         g_loss: 8.7318
Epoch [
         247/
               250]
                     | d loss: 0.0009
                                         g loss: 8.1270
Epoch [
         247/
               250]
                     d loss: 0.0041
                                         g_loss: 7.8915
         247/
Epoch [
               250] | d loss: 0.0009
                                         g_loss: 9.4367
         247/
                      d_loss: 0.0008
                                         g_loss: 8.6267
Epoch [
               250]
Epoch [
         247/
               250]
                      d loss: 0.0054
                                         g loss: 8.0918
                     Epoch [
         247/
               250] | d loss: 0.0004
                                         g loss: 6.7152
                                        g_loss: 17.3664
         247/
               250] | d loss: 0.0000
Epoch [
         247/
                                         g_loss: 7.0550
Epoch [
               250]
                     | d_loss: 0.0021
         247/
                     | d_loss: 0.0110
                                         g_loss: 7.0601
Epoch [
               250]
         247/
               250] | d loss: 0.0035
                                         g loss: 8.4785
Epoch [
Epoch [
         247/
               250] | d loss: 0.0084
                                         g loss: 12.8721
Epoch [
         247/
                      d loss: 0.0001
               250]
                                         g loss: 6.9609
Epoch [
         247/
               250]
                    | d_loss: 0.0024 |
                                         g_loss: 7.4470
                                        g_loss: 7.1006
Epoch [
         247/
               250]
                     | d loss: 0.0026 |
         248/
                      d_loss: 11.5918 | g_loss: 31.9332
Epoch [
               250]
Epoch [
         248/
               250]
                     d loss: 0.0372
                                        g loss: 7.7357
Epoch [
         248/
               250]
                    | d loss: 0.0003
                                        g loss: 7.4374
Epoch [
         248/
               250] | d loss: 0.0160
                                         g_loss: 7.2529
         248/
                      d_loss: 0.0019
                                        g_loss: 8.2730
Epoch [
               250]
                    248/
                    d_loss: 0.0186
                                         g_loss: 6.9745
Epoch [
               250]
Epoch [
         248/
               250] | d loss: 0.0015
                                         g loss: 11.3719
Epoch [
         248/
               250]
                    | d loss: 0.0059
                                         g_loss: 7.1215
         248/
Epoch [
               250]
                     | d loss: 0.0126
                                         g loss: 7.4341
Epoch [
         248/
               250]
                     d_loss: 0.0902
                                         g_loss: 13.2184
         248/
Epoch [
               250] | d loss: 0.0004
                                         g_loss: 8.1955
         248/
                      d_loss: 0.0061
                                         g_loss: 8.7318
Epoch [
               250] |
Epoch [
         248/
               250]
                     d loss: 0.0101
                                         g loss: 13.9821
         248/
               250] | d loss: 0.0018
                                         g loss: 11.1083
Epoch [
                                         g_loss: 10.8522
         248/
               250] | d loss: 0.0130
Epoch [
         248/
                                         g_loss: 15.4994
Epoch [
               250]
                     | d_loss: 0.0057
         248/
                     | d_loss: 0.0006
                                         g_loss: 8.9474
Epoch [
               250]
         248/
               250]
                    d loss: 0.0026
                                         g loss: 8.1241
Epoch [
Epoch [
         248/
               250] | d loss: 0.0102
                                         g loss: 8.4427
Epoch [
         248/
                      d loss: 0.0009
               250]
                     1
                                         g loss: 10.8581
                                         g_loss: 10.7933
Epoch [
         248/
               250]
                    d_loss: 0.0003
Epoch [
         248/
               250]
                    | d loss: 0.0011
                                         g loss: 10.5213
Epoch [
         248/
               250]
                      d_loss: 0.0001
                                         g_loss: 8.5747
Epoch [
         248/
               250]
                     d loss: 0.0020
                                         g loss: 8.9121
Epoch [
         248/
               250]
                    | d loss: 0.0019
                                         g loss: 8.1161
Epoch [
         248/
               250] | d loss: 0.0025
                                         g_loss: 10.8698
         248/
                      d_loss: 0.0002
                                         g_loss: 7.6180
Epoch [
               250]
                    g_loss: 13.0455
Epoch [
         248/
               250]
                    d_loss: 0.0025
                                         g_loss: 14.2145
         248/
               250]
                    d loss: 0.0003
Epoch [
Epoch [
         249/
               250]
                    | d_loss: 3.4375
                                         g_loss: 41.3765
         249/
                                         g loss: 8.7062
Epoch [
               250]
                     | d loss: 0.0262
                                        g_loss: 6.8988
Epoch [
         249/
               250]
                     d_loss: 0.2875
Epoch [
         249/
               250] | d loss: 0.0031
                                        g loss: 8.0844
Epoch [
         249/
               250] |
                      d_loss: 0.0074 |
                                        g_loss: 7.5842
Epoch [
         249/
               250] | d loss: 0.0023 | g loss: 9.9434
```

```
250] | d loss: 0.0013 |
Epoch [
         249/
                                        g loss: 9.6123
Epoch [
         249/
                    | d loss: 0.0008
               250]
                                        g loss: 7.5915
                                        g_loss: 10.2328
Epoch [
         249/
               250] | d_loss: 0.0004 |
Epoch [
         249/
               250] | d loss: 0.0072 |
                                        g loss: 12.5693
Epoch [
         249/
               250]
                    | d_loss: 0.0004
                                        g_loss: 11.8960
Epoch [
         249/
               250]
                    d loss: 0.0006
                                        g loss: 9.3340
Epoch [
         249/
               250]
                    | d loss: 0.0136 |
                                        g loss: 7.5284
Epoch [
         249/
               250] | d loss: 0.0023 |
                                        g loss: 8.7563
Epoch [
         249/
               250]
                    | d_loss: 0.0006 |
                                        g_loss: 8.5140
Epoch [
         249/
               250]
                    | d_loss: 0.0065 |
                                        g_loss: 7.4744
                                        g_loss: 8.6913
         249/
               250]
                    | d loss: 0.0002 |
Epoch [
Epoch [
         249/
               250]
                    | d loss: 0.0019 |
                                        g loss: 8.6299
Epoch [
         249/
               250]
                    | d loss: 0.0017
                                        g loss: 8.6529
Epoch [
         249/
               250]
                    | d_loss: 0.0014 |
                                        g_loss: 11.5000
Epoch [
         249/
               250] | d loss: 0.0025 |
                                        g loss: 13.8598
         249/
               250] | d_loss: 0.0012 |
                                        g_loss: 7.9426
Epoch [
Epoch [
         249/
               250]
                    | d loss: 0.0011 |
                                        g loss: 10.7931
Epoch [
         249/
               250]
                    | d loss: 0.0008 |
                                        g loss: 9.8210
         249/
               250] | d loss: 0.0003 |
                                        g loss: 13.4014
Epoch [
         249/
Epoch [
               250]
                    d_loss: 0.0083
                                        g loss: 14.1335
         249/
                    d_loss: 0.0020
                                        g_loss: 9.2359
Epoch [
               250]
         249/
               250] | d loss: 0.0012 |
                                        g loss: 6.1445
Epoch [
Epoch [
         249/
               250] | d loss: 0.0026 | g loss: 9.3904
Epoch [
         250/
                    | d loss: 12.5877 | g loss: 35.1726
               250]
Epoch [
         250/
               250]
                    | d_loss: 0.0034 |
                                        g_loss: 8.9086
Epoch [
         250/
               250]
                    d loss: 0.0000
                                        g loss: 8.4743
         250/
Epoch [
               250]
                    | d_loss: 0.0134
                                        g_loss: 6.7987
Epoch [
         250/
               250]
                    d loss: 0.0001
                                        g loss: 11.4506
Epoch [
         250/
               250]
                    d loss: 0.0067
                                        g loss: 10.5687
         250/
               250] | d loss: 0.0130 |
                                        g loss: 9.4999
Epoch [
Epoch [
         250/
                    d_loss: 0.0004
               250]
                                        g loss: 10.2216
Epoch [
         250/
                    | d_loss: 0.0033 |
                                        g_loss: 10.5448
               250]
                                        g_loss: 10.2377
Epoch [
         250/
               250] | d loss: 0.0094 |
Epoch [
         250/
               250]
                    | d loss: 0.0016 |
                                        g loss: 7.7619
         250/
Epoch [
               250]
                    | d loss: 0.0020
                                        g loss: 6.1930
                    | d_loss: 0.0003 |
                                        g_loss: 8.2480
Epoch [
         250/
               250]
Epoch [
         250/
               250] | d loss: 0.0004 |
                                        g loss: 10.0634
         250/
               250] | d_loss: 0.0868 |
                                        g_loss: 5.5563
Epoch [
Epoch [
         250/
               250]
                    | d loss: 0.0002 |
                                        g loss: 9.2868
Epoch [
         250/
               250]
                    | d loss: 0.0450 |
                                        g loss: 10.0673
         250/
               250] | d loss: 0.0092
                                        g loss: 7.6309
Epoch [
         250/
Epoch [
               250]
                    d loss: 0.0355
                                        g_loss: 15.9781
                                        g_loss: 10.3414
         250/
                    d_loss: 0.0205
Epoch [
               250]
         250/
               250] | d loss: 0.1114 |
Epoch [
                                        g loss: 7.5175
Epoch [
         250/
               250] | d loss: 0.0017
                                        g loss: 9.8940
Epoch [
         250/
                    d loss: 0.0004
               250]
                                        g loss: 10.1772
                                        g_loss: 9.1768
Epoch [
         250/
               250]
                    | d_loss: 0.0086 |
Epoch [
         250/
               250] | d loss: 0.0009
                                        g loss: 10.4892
Epoch [
         250/
               250]
                    d_loss: 0.0001
                                        g_loss: 7.0555
Epoch [
         250/
               250]
                    d loss: 0.0004
                                        g loss: 9.1233
Epoch [
         250/
               250] | d loss: 0.0001 |
                                        g loss: 11.9221
         250/
               250] | d loss: 0.0049 | g loss: 5.0968
Epoch [
```

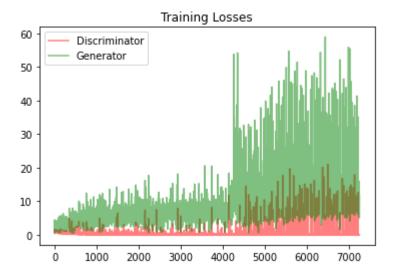
Training loss

Plot the training losses for the generator and discriminator, recorded after each epoch.

```
fig, ax = plt.subplots()
losses = np.array(losses)
```

```
plt.plot(losses.T[0], label='Discriminator', alpha=0.5,color='red')
plt.plot(losses.T[1], label='Generator', alpha=0.5,color='green')
plt.title("Training Losses")
plt.legend()
```

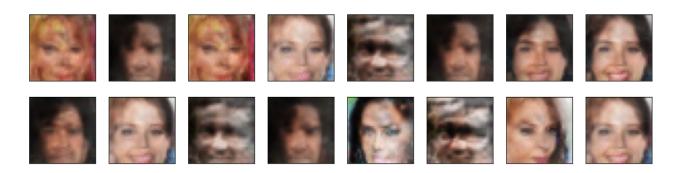
Out[]: <matplotlib.legend.Legend at 0x1a7fd72b348>



Generator samples from training

View samples of images from the generator, and answer a question about the strengths and weaknesses of your trained models.

```
In [ ]:
         # helper function for viewing a list of passed in sample images
         def view samples(epoch, samples):
             fig, axes = plt.subplots(figsize=(16,4), nrows=2, ncols=8, sharey=True, sharex=True
             for ax, img in zip(axes.flatten(), samples[epoch]):
                 img = img.detach().cpu().numpy()
                 img = np.transpose(img, (1, 2, 0))
                 img = ((img + 1)*255 / (2)).astype(np.uint8)
                 ax.xaxis.set visible(False)
                 ax.yaxis.set_visible(False)
                 im = ax.imshow(img.reshape((32,32,3)))
In [ ]:
         # Load samples from generator, taken while training
         with open('train samples.pkl', 'rb') as f:
             samples = pkl.load(f)
In [ ]:
          = view_samples(-1, samples)
```



Question: What do you notice about your generated samples and how might you improve this model?

When you answer this question, consider the following factors:

- The dataset is biased; it is made of "celebrity" faces that are mostly white
- Model size; larger models have the opportunity to learn more features in a data feature space
- Optimization strategy; optimizers and number of epochs affect your final result

Answer:

I see my generated faces have a lot og duplicates of the same or similar face. These faces represent the ones that were the most likely to "trick" or "get passed" the discriminator. With more training my generator would prefect just a few number of faces. This makes sense, working off the analogy from the lesson ... why would a counter-fitter try to create all the different notes (one,five,ten,twenty, etc)? They wouldn't, in the real would counter-fitters only create twenty notes. Lower notes (one,five,ten) are not wroth counter-fitting, and anything higher is too suspicious. Similarly my generator network tries to limit the number of different images it creates.

The size of the models might also limit the how many faces it could learn and generate. A larger model would take longer to train, however it should be able to come up with a wider range of faces.

I trained my models for 250 epochs, however looking at the graph above, i might be able to get a very simiar result if i stopped at 100-150.

I did not test out too many optimizers, however the learning rate could be adjusted over time. so start with a high learning rate (0.05 or 0.0005) and then lower it a tiny bit after every few epochs to end with a learning like of 0.0005 or lower.

Assuming that the dataset is a random selection of all the celebrities photos it would make sense that my generator network generates mostly women's (or female like) faces. This makes sense. Many celebrities are known for looking good (other adjectives) ... and one of the feminine traits is looking good... so more pictures are taken of them.

Submitting This Project

When submitting this project, make sure to run all the cells before saving the notebook. Save the notebook file as "dlnd_face_generation.ipynb" and save it as a HTML file under "File" -> "Download as". Include the "problem_unittests.py" files in your submission.