

Lorenz_PINN_baseline

March 14, 2024

```
[168]: # import numpy, scipy, and matplotliblib
import numpy as np
import scipy as sp
import matplotlib.pyplot as plt

from sklearn.model_selection import train_test_split

import torch
%matplotlib widget

import os
import tempfile

# torch random seed
torch.manual_seed(0)
```

```
[168]: <torch._C.Generator at 0x7f2510c938b0>
```

0.1 Useful func

```
[169]: def lorenz(t, Y):
    # documentation
    """
    This function returns the right-hand side of the Lorenz system of ordinary_
    ↪differential equations.
    Parameters:
    t (float): time
    Y (array): state vector [x, y, z]

    Returns:
    array: [dxdt, dydt, dzdt]
    """

    x, y, z = Y
    dxdt = 10 * (y - x)
    dydt = x * (28 - z) - y
    dzdt = x * y - 8/3 * z
```

```

    return [dxdt, dydt, dzdt]

# define seq_lorenz, where not asking t, but the input is a numpy array of Y's
↳ and output is a numpy array of dY_dt's
def seq_lorenz(Y):
    # documentation
    """
    This function returns the right-hand side of the Lorenz system of ordinary
    ↳ differential equations.
    Parameters:
    Y (array): state vector [x, y, z]

    Returns:
    array: [dxdt, dydt, dzdt]
    """

    x, y, z = Y[:, 0], Y[:, 1], Y[:, 2]
    dxdt = 10 * (y - x)
    dydt = x * (28 - z) - y
    dzdt = x * y - 8/3 * z

    return np.array([dxdt, dydt, dzdt]).T

```

```

[170]: # def a func
def plot_components(X, Y):
    plt.figure(figsize=(15, 10))
    plt.subplot(131)
    plt.plot(X, Y[:,0], label='x')
    plt.ylabel('x')
    plt.xlabel('time')
    plt.grid()

    # do all the same for y
    plt.subplot(132)
    plt.plot(X, Y[:,1], label='y')
    plt.ylabel('y')
    plt.xlabel('time')
    plt.grid()

    # do all the same for z
    plt.subplot(133)
    plt.plot(X, Y[:,2], label='z')
    plt.ylabel('z')
    plt.xlabel('time')
    plt.grid()

```

```

# def func compare compoenents Y and Y_pred
def plot_compare_components(X, Y, Y_pred):
    plt.figure(figsize=(15, 10))
    plt.subplot(131)
    plt.plot(X, Y[:,0], label='x')
    plt.plot(X, Y_pred[:,0], label='x_pred')
    plt.ylabel('x')
    plt.xlabel('time')
    plt.legend()
    plt.grid()

    # do all the same for y
    plt.subplot(132)
    plt.plot(X, Y[:,1], label='y')
    plt.plot(X, Y_pred[:,1], label='y_pred')
    plt.ylabel('y')
    plt.xlabel('time')
    plt.legend()
    plt.grid()

    # do all the same for z
    plt.subplot(133)
    plt.plot(X, Y[:,2], label='z')
    plt.plot(X, Y_pred[:,2], label='z_pred')
    plt.ylabel('z')
    plt.xlabel('time')
    plt.legend()
    plt.grid()

```

0.2 Load data

```

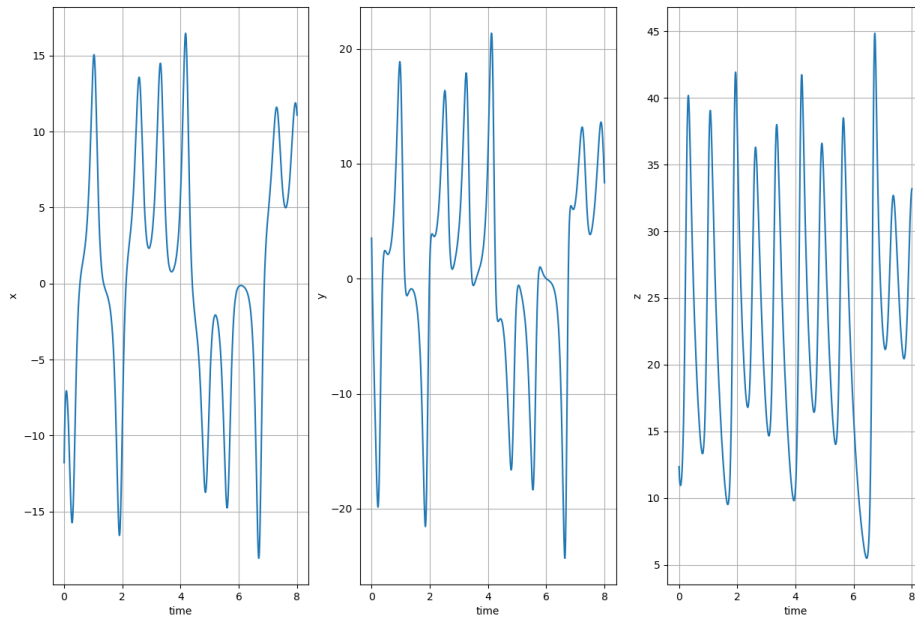
[171]: # import data
# data are generated by "src/DHOscillator_data_gen.py"
data = np.load('../data/Lorenz_data.npy')
# Y is the state, X is the time, Y is made of x, y, z
X = data[:,0]
Y = data[:,1:]

```

```

[172]: # plot components
plot_components(X, Y)

```



0.3 Define the model

This is inspired by the tuned model on DHO

```
[173]: # Model class
class FFNN(torch.nn.Module):
    def __init__(self, n_layers, n_neurons):
        super(FFNN, self).__init__()
        layers = []
        for i in range(n_layers):
            if i == 0:
                layers.append(torch.nn.Linear(1, n_neurons))
            else:
                layers.append(torch.nn.Linear(n_neurons, n_neurons))
                layers.append(torch.nn.Tanh())
            layers.append(torch.nn.Linear(n_neurons, 3))
        self.model = torch.nn.Sequential(*layers)
    def forward(self, x):
        return self.model(x)
```

```
[174]: n_layers = 4
n_neurons = 28
n_epochs = 10000
```

```
# create model
model = FFNN(n_layers, n_neurons)
```

0.4 Train

```
[158]: history_PINN = []
```

```
[159]: history_PINN
```

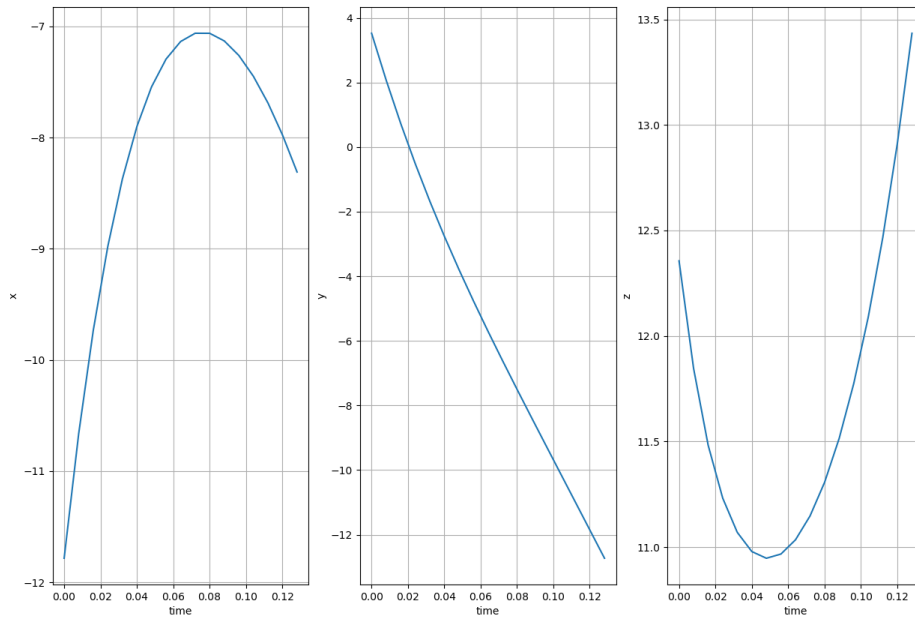
```
[159]: []
```

```
[160]: # define the optimizer
optimizer = torch.optim.Adam(model.parameters(), lr=0.001)
# add minimum to lr
scheduler = torch.optim.lr_scheduler.ReduceLROnPlateau(optimizer, 'min',
    ↪factor=0.7, patience=400, min_lr=1e-6)

# define the loss function
loss_fn = torch.nn.MSELoss()
```

```
[161]: # select only time < 2
X_sub = X[X<0.13]
Y_sub = Y[X<0.13]
```

```
[162]: # plot components
plot_components(X_sub, Y_sub)
```



```
[163]: # to torch
X_sub_t = torch.tensor(X_sub, dtype=torch.float32).view(-1, 1)
Y_sub_t = torch.tensor(Y_sub, dtype=torch.float32)
```

```
[164]: %%time

for epoch in range(50000):
    optimizer.zero_grad()
    X_sub_t.requires_grad = True
    Y_pred = model(X_sub_t)

    # get the derivatives
    dx_dt_pred = torch.autograd.grad(Y_pred[:,0], X_sub_t, grad_outputs=torch.
    ↪ones_like(Y_pred[:,0]), create_graph=True)[0]
    dy_dt_pred = torch.autograd.grad(Y_pred[:,1], X_sub_t, grad_outputs=torch.
    ↪ones_like(Y_pred[:,1]), create_graph=True)[0]
    dz_dt_pred = torch.autograd.grad(Y_pred[:,2], X_sub_t, grad_outputs=torch.
    ↪ones_like(Y_pred[:,2]), create_graph=True)[0]

    # get true derivatives, using the lorenz parameter
    dx_dt_ode = 10 * (Y_pred[:,1] - Y_pred[:,0])
    dy_dt_ode = Y_pred[:,0] * (28 - Y_pred[:,2]) - Y_pred[:,1]
    dz_dt_ode = Y_pred[:,0] * Y_pred[:,1] - 8/3 * Y_pred[:,2]
```

```

# loss ode
loss_ode = loss_fn(dx_dt_pred[:,0], dx_dt_ode) + loss_fn(dy_dt_pred[:,0],
↳dy_dt_ode) + loss_fn(dz_dt_pred[:,0], dz_dt_ode)

# add loss ic
loss_ic = torch.mean((Y_pred[0] - Y_sub_t[0])**2)

loss = 20*loss_ode + loss_ic

loss.backward()
optimizer.step()
scheduler.step(loss)

history_PINN.append([loss.item(), loss_ode.detach().numpy(), loss_ic.
↳detach().numpy(), optimizer.param_groups[0]["lr"]])

if epoch % 1000 == 0:
    print(f'Epoch {epoch}, Loss {loss.item()}, lr {optimizer.
↳param_groups[0]["lr"]}')

```

Epoch 0, Loss 1545.568115234375, lr 0.001

```

-----
KeyboardInterrupt                                Traceback (most recent call last)
File <timed exec>:7

File ~/anaconda3/envs/ml/lib/python3.12/site-packages/torch/autograd/__init__.p :
↳411, in grad(outputs, inputs, grad_outputs, retain_graph, create_graph,
↳only_inputs, allow_unused, is_grads_batched, materialize_grads)
    407     result = _vmap_internals._vmap(vjp, 0, 0,
↳allow_none_pass_through=True)(
    408         grad_outputs_
    409     )
    410 else:
--> 411     result = Variable._execution_engine.run_backward( # Calls into the
↳C++ engine to run the backward pass
    412         t_outputs,
    413         grad_outputs_,
    414         retain_graph,
    415         create_graph,
    416         inputs,
    417         allow_unused,
    418         accumulate_grad=False,
    419     ) # Calls into the C++ engine to run the backward pass
    420 if materialize_grads:
    421     if any(

```

```

422         result[i] is None and not is_tensor_like(inputs[i])
423         for i in range(len(inputs))
424     ):

```

KeyboardInterrupt:

```

[ ]: # plot history_PINN loss and lr in two subplots
history_PINN = np.array(history_PINN)

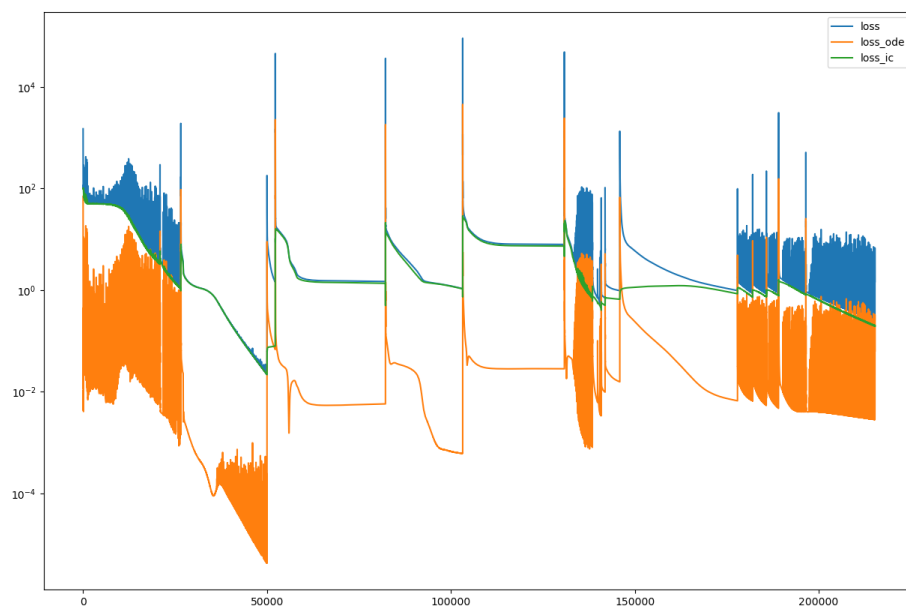
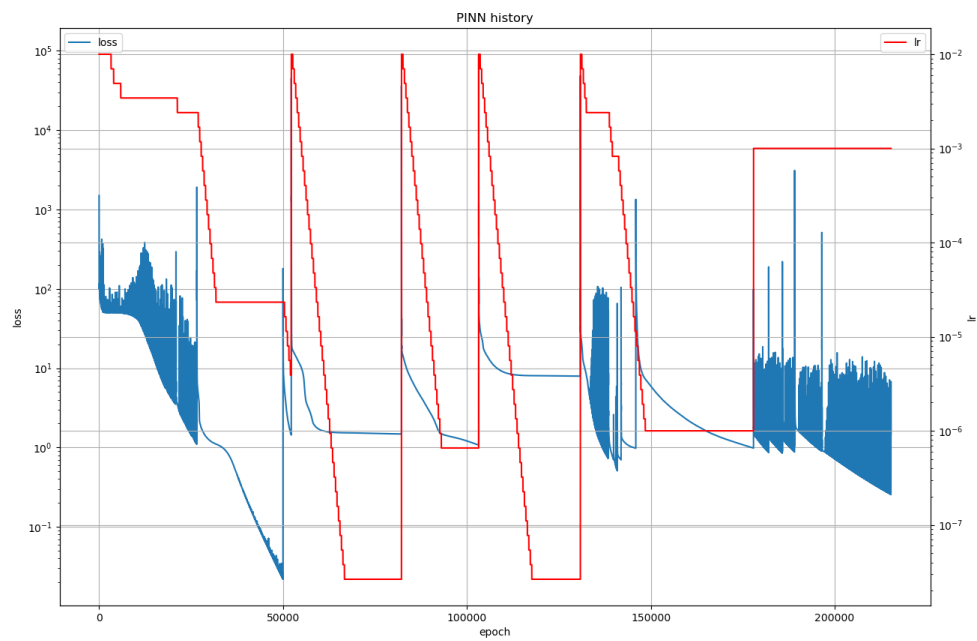
fig, ax = plt.subplots(figsize=(15, 10))
# plot the loss
ax.plot(history_PINN[:, 0], label='loss')
ax.legend(loc='upper left')
ax.set_yscale('log')
ax.set_xlabel('epoch')
ax.set_ylabel('loss')
plt.grid()

# plot the learning rate
ax2 = ax.twinx()
ax2.plot(history_PINN[:, -1], label='lr', color='r')
ax2.set_yscale('log')
ax2.set_ylabel('lr')
# legend to the right
ax2.legend(loc='upper right')
plt.grid()
plt.title('PINN history')

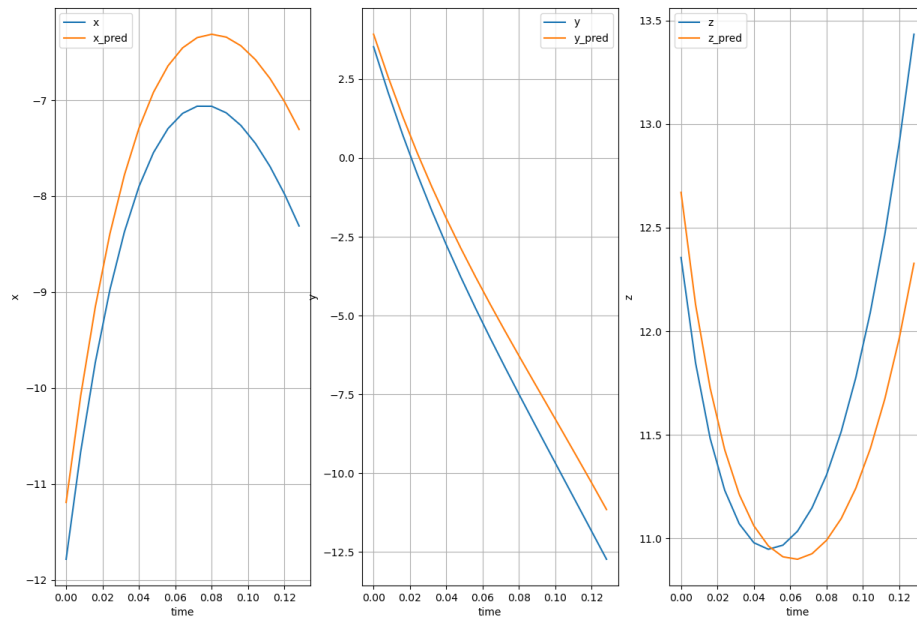
# plot losses
plt.figure(figsize=(15, 10))
plt.plot(history_PINN[:, 0], label='loss')
plt.plot(history_PINN[:, 1], label='loss_ode')
plt.plot(history_PINN[:, 2], label='loss_ic')
plt.legend()
plt.yscale('log')

# history to list
history_PINN = history_PINN.tolist()

```

```
[ ]: # get prediction and plot compare
Y_pred = model(X_sub_t).detach().numpy()
plot_compare_components(X_sub, Y_sub, Y_pred)
```



```
[ ]: 8/1000
```

```
[ ]: 0.008
```

```
[ ]: 0.025/0.008
```

```
[ ]: 3.125
```

```
[ ]: history_PINN = np.array(history_PINN)
# get losses
losses = history_PINN[:, 0]
losses_ode = history_PINN[:, 1]
losses_ic = history_PINN[:, 2]
```

```
[ ]: # get derivative of the losses
d_losses = np.diff(losses)
d_losses_ode = np.diff(losses_ode)
d_losses_ic = np.diff(losses_ic)
```

```

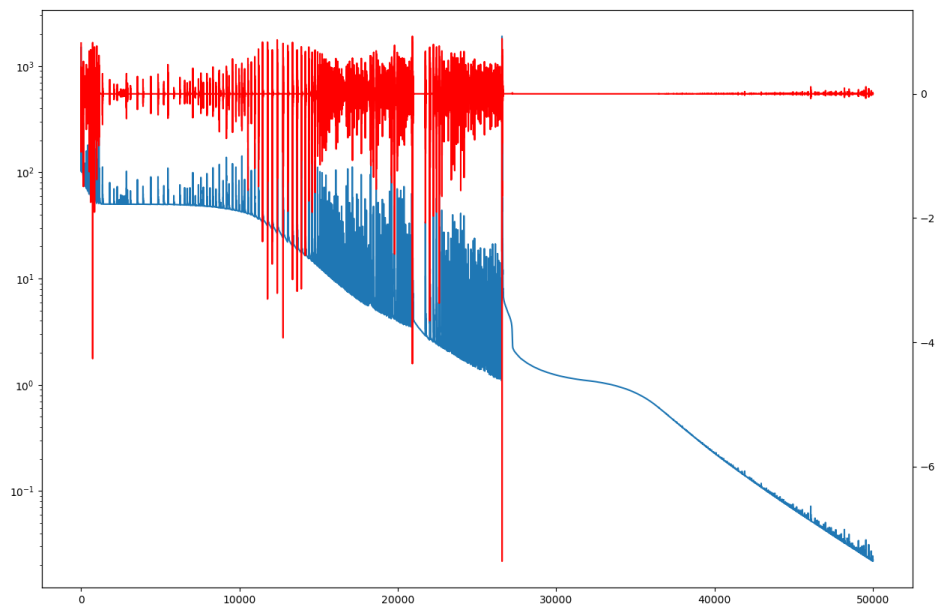
# get normalized derivative of the losses
d_losses_norm = d_losses / losses[:-1]
d_losses_ode_norm = d_losses_ode / losses_ode[:-1]
d_losses_ic_norm = d_losses_ic / losses_ic[:-1]

# twin plot of the losses and in the other axis the derivative of the losses
fig, ax = plt.subplots(figsize=(15, 10))
ax.plot(losses, label='loss')
plt.yscale('log')

ax2 = ax.twinx()
ax2.plot(-d_losses_norm, label='d_loss', color='r')

```

```
[ ]: [<matplotlib.lines.Line2D at 0x7f24f5082420>]
```



```
[ ]: d_losses_ode
```

```
[ ]: array([-6.13320007e+01,  2.10404396e-01, -5.50914526e+00, ...,
          6.33057061e-06,  5.48219396e-06,  1.55865564e-06])
```

```

[ ]: # plot d_losses_ode
plt.figure(figsize=(15, 10))
plt.plot(d_losses_ode, label='d_losses_ode')

```

```
plt.yscale('log')
```

The Kernel crashed while executing code in the current cell or a previous cell.

Please review the code in the cell(s) to identify a possible cause of the failure.

Click [here](\"https://aka.ms/vscodeJupyterKernelCrash\") for more info.

View Jupyter [log](\"command:jupyter.viewOutput\") for further details.

```
[300]: # new model
model2 = FFNN(n_layers, n_neurons)
```

```
# history_PINN2
history_PINN2 = []
```

```
[346]: # define the optimizer2 and scheduler2
optimizer2 = torch.optim.Adam(model2.parameters(), lr=0.001)
scheduler2 = torch.optim.lr_scheduler.ReduceLROnPlateau(optimizer2, 'min',
↪factor=0.7, patience=1000, min_lr=1e-4)
```

```
[347]: # select only time < 2
X_sub2 = X[X<1]
Y_sub2 = Y[X<1]

# to torch
X_sub_t2 = torch.tensor(X_sub2, dtype=torch.float32).view(-1, 1)
Y_sub_t2 = torch.tensor(Y_sub2, dtype=torch.float32)
```

```
[359]: # train model2 for 250000

for epoch in range(8*250000):
    optimizer2.zero_grad()
    X_sub_t2.requires_grad = True
    Y_pred2 = model2(X_sub_t2)

    # get the derivatives
    dx_dt_pred2 = torch.autograd.grad(Y_pred2[:,0], X_sub_t2,
↪grad_outputs=torch.ones_like(Y_pred2[:,0]), create_graph=True)[0]
    dy_dt_pred2 = torch.autograd.grad(Y_pred2[:,1], X_sub_t2,
↪grad_outputs=torch.ones_like(Y_pred2[:,1]), create_graph=True)[0]
    dz_dt_pred2 = torch.autograd.grad(Y_pred2[:,2], X_sub_t2,
↪grad_outputs=torch.ones_like(Y_pred2[:,2]), create_graph=True)[0]
```

```

# get true derivatives, using the lorenz parameter
dx_dt_ode2 = 20 * (Y_pred2[:,1] - Y_pred2[:,0])
dy_dt_ode2 = Y_pred2[:,0] * (28 - Y_pred2[:,2]) - Y_pred2[:,1]
dz_dt_ode2 = Y_pred2[:,0] * Y_pred2[:,1] - 8/3 * Y_pred2[:,2]

# loss ode
loss_ode2 = loss_fn(dx_dt_pred2[:,0], dx_dt_ode2) + loss_fn(dy_dt_pred2[:,0], dy_dt_ode2) + loss_fn(dz_dt_pred2[:,0], dz_dt_ode2)

# add loss ic
loss_ic2 = torch.mean((Y_pred2[0] - Y_sub_t[0])**2)

loss2 = 30*loss_ode2 + loss_ic2

loss2.backward()
optimizer2.step()
scheduler2.step(loss2)

history_PINN2.append([loss2.item(), loss_ode2.detach().numpy(), loss_ic2.detach().numpy(), optimizer2.param_groups[0]["lr"]])

if epoch % 100 == 0:
    print(f'Epoch {epoch}, Loss {loss2.item()}, lr {optimizer2.param_groups[0]["lr"]}')

```

```

Epoch 0, Loss 0.0496583953499794, lr 0.0001
Epoch 100, Loss 0.042317166924476624, lr 0.0001
Epoch 200, Loss 0.041283443570137024, lr 0.0001
Epoch 300, Loss 0.04121961072087288, lr 0.0001
Epoch 400, Loss 0.041163261979818344, lr 0.0001
Epoch 500, Loss 0.04109780862927437, lr 0.0001
Epoch 600, Loss 0.041031546890735626, lr 0.0001
Epoch 700, Loss 0.040961235761642456, lr 0.0001
Epoch 800, Loss 0.04088761284947395, lr 0.0001
Epoch 900, Loss 0.040812455117702484, lr 0.0001
Epoch 1000, Loss 0.0407286174595356, lr 0.0001
Epoch 1100, Loss 0.04068129137158394, lr 0.0001
Epoch 1200, Loss 0.040752947330474854, lr 0.0001
Epoch 1300, Loss 0.04048709571361542, lr 0.0001
Epoch 1400, Loss 0.051154155284166336, lr 0.0001
Epoch 1500, Loss 0.18976359069347382, lr 0.0001
Epoch 1600, Loss 0.04089624807238579, lr 0.0001
Epoch 1700, Loss 0.04016457498073578, lr 0.0001
Epoch 1800, Loss 0.04789980500936508, lr 0.0001
Epoch 1900, Loss 0.07354164123535156, lr 0.0001
Epoch 2000, Loss 0.03986619412899017, lr 0.0001

```

Epoch 2100, Loss 0.1185016930103302, lr 0.0001
Epoch 2200, Loss 0.039683207869529724, lr 0.0001
Epoch 2300, Loss 0.05569189786911011, lr 0.0001
Epoch 2400, Loss 0.07505305111408234, lr 0.0001
Epoch 2500, Loss 0.03936624526977539, lr 0.0001
Epoch 2600, Loss 0.042982734739780426, lr 0.0001
Epoch 2700, Loss 0.039176203310489655, lr 0.0001
Epoch 2800, Loss 0.03928084671497345, lr 0.0001
Epoch 2900, Loss 0.3814603388309479, lr 0.0001
Epoch 3000, Loss 0.03886915370821953, lr 0.0001
Epoch 3100, Loss 0.05310564860701561, lr 0.0001
Epoch 3200, Loss 0.05562429502606392, lr 0.0001
Epoch 3300, Loss 0.05757616087794304, lr 0.0001
Epoch 3400, Loss 0.03958868607878685, lr 0.0001
Epoch 3500, Loss 0.03836866468191147, lr 0.0001
Epoch 3600, Loss 0.03837134689092636, lr 0.0001
Epoch 3700, Loss 0.03842199593782425, lr 0.0001
Epoch 3800, Loss 0.040353916585445404, lr 0.0001
Epoch 3900, Loss 0.040155768394470215, lr 0.0001
Epoch 4000, Loss 0.04533493146300316, lr 0.0001
Epoch 4100, Loss 0.03908366709947586, lr 0.0001
Epoch 4200, Loss 0.03820003196597099, lr 0.0001
Epoch 4300, Loss 0.0388542041182518, lr 0.0001
Epoch 4400, Loss 0.3558958172798157, lr 0.0001
Epoch 4500, Loss 0.03728128969669342, lr 0.0001
Epoch 4600, Loss 0.03829819709062576, lr 0.0001
Epoch 4700, Loss 0.06480944901704788, lr 0.0001
Epoch 4800, Loss 0.036961961537599564, lr 0.0001
Epoch 4900, Loss 0.0748438909649849, lr 0.0001
Epoch 5000, Loss 0.06141655519604683, lr 0.0001
Epoch 5100, Loss 0.036662839353084564, lr 0.0001
Epoch 5200, Loss 0.049158722162246704, lr 0.0001
Epoch 5300, Loss 0.03645094856619835, lr 0.0001
Epoch 5400, Loss 0.037570249289274216, lr 0.0001
Epoch 5500, Loss 0.03638647496700287, lr 0.0001
Epoch 5600, Loss 0.322678804397583, lr 0.0001
Epoch 5700, Loss 0.05766485258936882, lr 0.0001
Epoch 5800, Loss 0.20420986413955688, lr 0.0001
Epoch 5900, Loss 0.2723739743232727, lr 0.0001
Epoch 6000, Loss 0.06957360357046127, lr 0.0001
Epoch 6100, Loss 0.037340547889471054, lr 0.0001
Epoch 6200, Loss 0.035631243139505386, lr 0.0001
Epoch 6300, Loss 0.1816859096288681, lr 0.0001
Epoch 6400, Loss 0.03537215664982796, lr 0.0001
Epoch 6500, Loss 0.03632291406393051, lr 0.0001
Epoch 6600, Loss 0.0411326065659523, lr 0.0001
Epoch 6700, Loss 0.08213003724813461, lr 0.0001
Epoch 6800, Loss 0.06202034279704094, lr 0.0001

Epoch 6900, Loss 0.03558257967233658, lr 0.0001
Epoch 7000, Loss 0.037822138518095016, lr 0.0001
Epoch 7100, Loss 0.03493521735072136, lr 0.0001
Epoch 7200, Loss 0.039013952016830444, lr 0.0001
Epoch 7300, Loss 0.04221421480178833, lr 0.0001
Epoch 7400, Loss 0.03540954738855362, lr 0.0001
Epoch 7500, Loss 0.26563403010368347, lr 0.0001
Epoch 7600, Loss 0.055561576038599014, lr 0.0001
Epoch 7700, Loss 0.04230166971683502, lr 0.0001
Epoch 7800, Loss 0.21963541209697723, lr 0.0001
Epoch 7900, Loss 0.035684309899806976, lr 0.0001
Epoch 8000, Loss 0.0339965745806694, lr 0.0001
Epoch 8100, Loss 0.035150788724422455, lr 0.0001
Epoch 8200, Loss 0.037543635815382004, lr 0.0001
Epoch 8300, Loss 0.04637926071882248, lr 0.0001
Epoch 8400, Loss 0.06294950842857361, lr 0.0001
Epoch 8500, Loss 0.034192148596048355, lr 0.0001
Epoch 8600, Loss 0.051188886165618896, lr 0.0001
Epoch 8700, Loss 0.033313922584056854, lr 0.0001
Epoch 8800, Loss 0.5256761908531189, lr 0.0001
Epoch 8900, Loss 0.03314287215471268, lr 0.0001
Epoch 9000, Loss 0.21431046724319458, lr 0.0001
Epoch 9100, Loss 0.03296370059251785, lr 0.0001
Epoch 9200, Loss 0.03370698541402817, lr 0.0001
Epoch 9300, Loss 0.03609687462449074, lr 0.0001
Epoch 9400, Loss 0.03299758583307266, lr 0.0001
Epoch 9500, Loss 0.03351663798093796, lr 0.0001
Epoch 9600, Loss 0.050292473286390305, lr 0.0001
Epoch 9700, Loss 0.03246426209807396, lr 0.0001
Epoch 9800, Loss 0.05320724844932556, lr 0.0001
Epoch 9900, Loss 0.03230587765574455, lr 0.0001
Epoch 10000, Loss 0.15307673811912537, lr 0.0001
Epoch 10100, Loss 0.03216108679771423, lr 0.0001
Epoch 10200, Loss 0.03206668794155121, lr 0.0001
Epoch 10300, Loss 0.09290169179439545, lr 0.0001
Epoch 10400, Loss 0.031921133399009705, lr 0.0001
Epoch 10500, Loss 0.052489880472421646, lr 0.0001
Epoch 10600, Loss 0.031777940690517426, lr 0.0001
Epoch 10700, Loss 0.03374603018164635, lr 0.0001
Epoch 10800, Loss 0.03160998225212097, lr 0.0001
Epoch 10900, Loss 0.0488443598151207, lr 0.0001
Epoch 11000, Loss 0.056679919362068176, lr 0.0001
Epoch 11100, Loss 0.13825708627700806, lr 0.0001
Epoch 11200, Loss 0.03135811164975166, lr 0.0001
Epoch 11300, Loss 0.03148825094103813, lr 0.0001
Epoch 11400, Loss 0.19920212030410767, lr 0.0001
Epoch 11500, Loss 0.2530370056629181, lr 0.0001
Epoch 11600, Loss 0.031000148504972458, lr 0.0001

Epoch 11700, Loss 0.032756779342889786, lr 0.0001
Epoch 11800, Loss 0.031393490731716156, lr 0.0001
Epoch 11900, Loss 0.0325193852186203, lr 0.0001
Epoch 12000, Loss 0.032000139355659485, lr 0.0001
Epoch 12100, Loss 0.042932670563459396, lr 0.0001
Epoch 12200, Loss 0.034284017980098724, lr 0.0001
Epoch 12300, Loss 0.42526131868362427, lr 0.0001
Epoch 12400, Loss 0.030418535694479942, lr 0.0001
Epoch 12500, Loss 0.03459619730710983, lr 0.0001
Epoch 12600, Loss 0.03030441142618656, lr 0.0001
Epoch 12700, Loss 0.03866972774267197, lr 0.0001
Epoch 12800, Loss 0.24273978173732758, lr 0.0001
Epoch 12900, Loss 0.09870398044586182, lr 0.0001
Epoch 13000, Loss 0.15671008825302124, lr 0.0001
Epoch 13100, Loss 0.03435380756855011, lr 0.0001
Epoch 13200, Loss 0.03207087144255638, lr 0.0001
Epoch 13300, Loss 0.029780196025967598, lr 0.0001
Epoch 13400, Loss 0.04286209121346474, lr 0.0001
Epoch 13500, Loss 0.04057423025369644, lr 0.0001
Epoch 13600, Loss 0.02959405444562435, lr 0.0001
Epoch 13700, Loss 0.031777333468198776, lr 0.0001
Epoch 13800, Loss 0.03146401047706604, lr 0.0001
Epoch 13900, Loss 0.3508232533931732, lr 0.0001
Epoch 14000, Loss 0.029271738603711128, lr 0.0001
Epoch 14100, Loss 0.029705487191677094, lr 0.0001
Epoch 14200, Loss 0.029138538986444473, lr 0.0001
Epoch 14300, Loss 0.030107706785202026, lr 0.0001
Epoch 14400, Loss 0.03268943727016449, lr 0.0001
Epoch 14500, Loss 0.02902533859014511, lr 0.0001
Epoch 14600, Loss 0.1361079066991806, lr 0.0001
Epoch 14700, Loss 0.0288073867559433, lr 0.0001
Epoch 14800, Loss 0.029329264536499977, lr 0.0001
Epoch 14900, Loss 0.030341103672981262, lr 0.0001
Epoch 15000, Loss 0.04558170586824417, lr 0.0001
Epoch 15100, Loss 0.02899661846458912, lr 0.0001
Epoch 15200, Loss 0.02866308018565178, lr 0.0001
Epoch 15300, Loss 0.04386000335216522, lr 0.0001
Epoch 15400, Loss 0.028354033827781677, lr 0.0001
Epoch 15500, Loss 0.029604211449623108, lr 0.0001
Epoch 15600, Loss 0.08581916987895966, lr 0.0001
Epoch 15700, Loss 0.028154496103525162, lr 0.0001
Epoch 15800, Loss 0.031064540147781372, lr 0.0001
Epoch 15900, Loss 0.030275240540504456, lr 0.0001
Epoch 16000, Loss 0.14320409297943115, lr 0.0001
Epoch 16100, Loss 0.12736579775810242, lr 0.0001
Epoch 16200, Loss 0.09817159920930862, lr 0.0001
Epoch 16300, Loss 0.04225706309080124, lr 0.0001
Epoch 16400, Loss 0.02851635403931141, lr 0.0001

Epoch 16500, Loss 0.036169636994600296, lr 0.0001
Epoch 16600, Loss 0.028395645320415497, lr 0.0001
Epoch 16700, Loss 0.02756776660680771, lr 0.0001
Epoch 16800, Loss 0.028043095022439957, lr 0.0001
Epoch 16900, Loss 0.04513949900865555, lr 0.0001
Epoch 17000, Loss 0.07645316421985626, lr 0.0001
Epoch 17100, Loss 0.1468767672777176, lr 0.0001
Epoch 17200, Loss 0.027269333600997925, lr 0.0001
Epoch 17300, Loss 0.030148888006806374, lr 0.0001
Epoch 17400, Loss 0.027470286935567856, lr 0.0001
Epoch 17500, Loss 0.027201173827052116, lr 0.0001
Epoch 17600, Loss 0.029788760468363762, lr 0.0001
Epoch 17700, Loss 0.027252793312072754, lr 0.0001
Epoch 17800, Loss 0.027254870161414146, lr 0.0001
Epoch 17900, Loss 0.02734806388616562, lr 0.0001
Epoch 18000, Loss 0.028286172077059746, lr 0.0001
Epoch 18100, Loss 0.2550911009311676, lr 0.0001
Epoch 18200, Loss 0.026655223220586777, lr 0.0001
Epoch 18300, Loss 0.029778577387332916, lr 0.0001
Epoch 18400, Loss 0.02654225006699562, lr 0.0001
Epoch 18500, Loss 0.02901834435760975, lr 0.0001
Epoch 18600, Loss 0.43983688950538635, lr 0.0001
Epoch 18700, Loss 0.055000804364681244, lr 0.0001
Epoch 18800, Loss 0.030691303312778473, lr 0.0001
Epoch 18900, Loss 0.18078669905662537, lr 0.0001
Epoch 19000, Loss 0.20085079967975616, lr 0.0001
Epoch 19100, Loss 0.02655119262635708, lr 0.0001
Epoch 19200, Loss 0.027215061709284782, lr 0.0001
Epoch 19300, Loss 0.02606656216084957, lr 0.0001
Epoch 19400, Loss 0.027476917952299118, lr 0.0001
Epoch 19500, Loss 0.0382918082177639, lr 0.0001
Epoch 19600, Loss 0.026093050837516785, lr 0.0001
Epoch 19700, Loss 0.04439438879489899, lr 0.0001
Epoch 19800, Loss 0.03467515483498573, lr 0.0001
Epoch 19900, Loss 0.02572082355618477, lr 0.0001
Epoch 20000, Loss 0.025664765387773514, lr 0.0001
Epoch 20100, Loss 0.02560228854417801, lr 0.0001
Epoch 20200, Loss 0.025685541331768036, lr 0.0001
Epoch 20300, Loss 0.06052849814295769, lr 0.0001
Epoch 20400, Loss 0.02545304223895073, lr 0.0001
Epoch 20500, Loss 0.03294364735484123, lr 0.0001
Epoch 20600, Loss 0.025346463546156883, lr 0.0001
Epoch 20700, Loss 0.053320858627557755, lr 0.0001
Epoch 20800, Loss 0.027209877967834473, lr 0.0001
Epoch 20900, Loss 0.025566114112734795, lr 0.0001
Epoch 21000, Loss 0.025434983894228935, lr 0.0001
Epoch 21100, Loss 0.051389116793870926, lr 0.0001
Epoch 21200, Loss 0.025311263278126717, lr 0.0001

Epoch 21300, Loss 0.025137681514024734, lr 0.0001
Epoch 21400, Loss 0.25214776396751404, lr 0.0001
Epoch 21500, Loss 0.024896830320358276, lr 0.0001
Epoch 21600, Loss 0.027422422543168068, lr 0.0001
Epoch 21700, Loss 0.024782024323940277, lr 0.0001
Epoch 21800, Loss 0.16675449907779694, lr 0.0001
Epoch 21900, Loss 0.024677449837327003, lr 0.0001
Epoch 22000, Loss 0.16016483306884766, lr 0.0001
Epoch 22100, Loss 0.024603502824902534, lr 0.0001
Epoch 22200, Loss 0.0287807397544384, lr 0.0001
Epoch 22300, Loss 0.024567045271396637, lr 0.0001
Epoch 22400, Loss 0.02542778290808201, lr 0.0001
Epoch 22500, Loss 0.03776070848107338, lr 0.0001
Epoch 22600, Loss 0.024396546185016632, lr 0.0001
Epoch 22700, Loss 0.05451831966638565, lr 0.0001
Epoch 22800, Loss 0.025146976113319397, lr 0.0001
Epoch 22900, Loss 0.03185224533081055, lr 0.0001
Epoch 23000, Loss 0.02504982240498066, lr 0.0001
Epoch 23100, Loss 0.024408256635069847, lr 0.0001
Epoch 23200, Loss 0.02652159333229065, lr 0.0001
Epoch 23300, Loss 0.02541249990463257, lr 0.0001
Epoch 23400, Loss 0.024067264050245285, lr 0.0001
Epoch 23500, Loss 0.026348775252699852, lr 0.0001
Epoch 23600, Loss 0.024659469723701477, lr 0.0001
Epoch 23700, Loss 0.5178982615470886, lr 0.0001
Epoch 23800, Loss 0.02616243064403534, lr 0.0001
Epoch 23900, Loss 0.15555615723133087, lr 0.0001
Epoch 24000, Loss 0.02388804405927658, lr 0.0001
Epoch 24100, Loss 0.02377019263803959, lr 0.0001
Epoch 24200, Loss 0.03877352923154831, lr 0.0001
Epoch 24300, Loss 0.02353656105697155, lr 0.0001
Epoch 24400, Loss 0.02521471120417118, lr 0.0001
Epoch 24500, Loss 0.03192294389009476, lr 0.0001
Epoch 24600, Loss 0.02340671792626381, lr 0.0001
Epoch 24700, Loss 0.024951409548521042, lr 0.0001
Epoch 24800, Loss 0.024897359311580658, lr 0.0001
Epoch 24900, Loss 0.039550572633743286, lr 0.0001
Epoch 25000, Loss 0.023249469697475433, lr 0.0001
Epoch 25100, Loss 0.0236629918217659, lr 0.0001
Epoch 25200, Loss 0.023227062076330185, lr 0.0001
Epoch 25300, Loss 0.02322923205792904, lr 0.0001
Epoch 25400, Loss 0.023153942078351974, lr 0.0001
Epoch 25500, Loss 0.023897424340248108, lr 0.0001
Epoch 25600, Loss 0.039767730981111526, lr 0.0001
Epoch 25700, Loss 0.10798832029104233, lr 0.0001
Epoch 25800, Loss 0.0556279793381691, lr 0.0001
Epoch 25900, Loss 0.05306049436330795, lr 0.0001
Epoch 26000, Loss 0.06650211662054062, lr 0.0001

Epoch 26100, Loss 0.022843603044748306, lr 0.0001
Epoch 26200, Loss 0.023327404633164406, lr 0.0001
Epoch 26300, Loss 0.13893139362335205, lr 0.0001
Epoch 26400, Loss 0.022669000551104546, lr 0.0001
Epoch 26500, Loss 0.022720592096447945, lr 0.0001
Epoch 26600, Loss 0.022535143420100212, lr 0.0001
Epoch 26700, Loss 0.02277921698987484, lr 0.0001
Epoch 26800, Loss 0.03721355274319649, lr 0.0001
Epoch 26900, Loss 0.10151128470897675, lr 0.0001
Epoch 27000, Loss 0.212443009018898, lr 0.0001
Epoch 27100, Loss 0.022328335791826248, lr 0.0001
Epoch 27200, Loss 0.026046117767691612, lr 0.0001
Epoch 27300, Loss 0.025356099009513855, lr 0.0001
Epoch 27400, Loss 0.022381382063031197, lr 0.0001
Epoch 27500, Loss 0.02252141386270523, lr 0.0001
Epoch 27600, Loss 0.028573114424943924, lr 0.0001
Epoch 27700, Loss 0.02210981398820877, lr 0.0001
Epoch 27800, Loss 0.022182637825608253, lr 0.0001
Epoch 27900, Loss 0.12327626347541809, lr 0.0001
Epoch 28000, Loss 0.04392102733254433, lr 0.0001
Epoch 28100, Loss 0.02294998988509178, lr 0.0001
Epoch 28200, Loss 0.02193356305360794, lr 0.0001
Epoch 28300, Loss 0.024869805201888084, lr 0.0001
Epoch 28400, Loss 0.031054740771651268, lr 0.0001
Epoch 28500, Loss 0.1349174678325653, lr 0.0001
Epoch 28600, Loss 0.1099868193268776, lr 0.0001
Epoch 28700, Loss 0.02174413949251175, lr 0.0001
Epoch 28800, Loss 0.021962998434901237, lr 0.0001
Epoch 28900, Loss 0.022577865049242973, lr 0.0001
Epoch 29000, Loss 0.024003518745303154, lr 0.0001
Epoch 29100, Loss 0.022916946560144424, lr 0.0001
Epoch 29200, Loss 0.021492017433047295, lr 0.0001
Epoch 29300, Loss 0.12986040115356445, lr 0.0001
Epoch 29400, Loss 0.021488681435585022, lr 0.0001
Epoch 29500, Loss 0.021561043336987495, lr 0.0001
Epoch 29600, Loss 0.26652249693870544, lr 0.0001
Epoch 29700, Loss 0.02131384052336216, lr 0.0001
Epoch 29800, Loss 0.9529100656509399, lr 0.0001
Epoch 29900, Loss 0.021226370707154274, lr 0.0001
Epoch 30000, Loss 0.021748602390289307, lr 0.0001
Epoch 30100, Loss 0.02165261283516884, lr 0.0001
Epoch 30200, Loss 0.02341555617749691, lr 0.0001
Epoch 30300, Loss 0.021123290061950684, lr 0.0001
Epoch 30400, Loss 0.026374556124210358, lr 0.0001
Epoch 30500, Loss 0.07708830386400223, lr 0.0001
Epoch 30600, Loss 0.022032052278518677, lr 0.0001
Epoch 30700, Loss 0.03288475424051285, lr 0.0001
Epoch 30800, Loss 0.2534943222999573, lr 0.0001

Epoch 30900, Loss 0.02633681520819664, lr 0.0001
Epoch 31000, Loss 0.03655952587723732, lr 0.0001
Epoch 31100, Loss 0.02635330706834793, lr 0.0001
Epoch 31200, Loss 0.0253117885440588, lr 0.0001
Epoch 31300, Loss 0.03600884601473808, lr 0.0001
Epoch 31400, Loss 0.023035505786538124, lr 0.0001
Epoch 31500, Loss 0.02183423936367035, lr 0.0001
Epoch 31600, Loss 0.24317605793476105, lr 0.0001
Epoch 31700, Loss 0.043092433363199234, lr 0.0001
Epoch 31800, Loss 0.19125431776046753, lr 0.0001
Epoch 31900, Loss 0.020534072071313858, lr 0.0001
Epoch 32000, Loss 0.02046862430870533, lr 0.0001
Epoch 32100, Loss 0.11087577044963837, lr 0.0001
Epoch 32200, Loss 0.020452966913580894, lr 0.0001
Epoch 32300, Loss 0.04037592187523842, lr 0.0001
Epoch 32400, Loss 0.020337708294391632, lr 0.0001
Epoch 32500, Loss 0.020415889099240303, lr 0.0001
Epoch 32600, Loss 0.02117391861975193, lr 0.0001
Epoch 32700, Loss 0.04679477587342262, lr 0.0001
Epoch 32800, Loss 0.020270586013793945, lr 0.0001
Epoch 32900, Loss 0.020472079515457153, lr 0.0001
Epoch 33000, Loss 0.0271296463906765, lr 0.0001
Epoch 33100, Loss 0.02103019505739212, lr 0.0001
Epoch 33200, Loss 0.021025216206908226, lr 0.0001
Epoch 33300, Loss 0.024583565071225166, lr 0.0001
Epoch 33400, Loss 0.020003313198685646, lr 0.0001
Epoch 33500, Loss 0.025352485477924347, lr 0.0001
Epoch 33600, Loss 0.11129678040742874, lr 0.0001
Epoch 33700, Loss 0.02013540081679821, lr 0.0001
Epoch 33800, Loss 0.02062903344631195, lr 0.0001
Epoch 33900, Loss 0.020522665232419968, lr 0.0001
Epoch 34000, Loss 0.019814884290099144, lr 0.0001
Epoch 34100, Loss 0.026930605992674828, lr 0.0001
Epoch 34200, Loss 0.032545674592256546, lr 0.0001
Epoch 34300, Loss 0.02673596329987049, lr 0.0001
Epoch 34400, Loss 0.02030017226934433, lr 0.0001
Epoch 34500, Loss 0.02102728560566902, lr 0.0001
Epoch 34600, Loss 0.020953867584466934, lr 0.0001
Epoch 34700, Loss 0.02103465609252453, lr 0.0001
Epoch 34800, Loss 0.02374267578125, lr 0.0001
Epoch 34900, Loss 0.07465467602014542, lr 0.0001
Epoch 35000, Loss 0.046466629952192307, lr 0.0001
Epoch 35100, Loss 0.029925256967544556, lr 0.0001
Epoch 35200, Loss 0.019991017878055573, lr 0.0001
Epoch 35300, Loss 0.019673021510243416, lr 0.0001
Epoch 35400, Loss 0.022661855444312096, lr 0.0001
Epoch 35500, Loss 0.024790463969111443, lr 0.0001
Epoch 35600, Loss 0.07368143647909164, lr 0.0001

Epoch 35700, Loss 0.05394018068909645, lr 0.0001
Epoch 35800, Loss 0.46464279294013977, lr 0.0001
Epoch 35900, Loss 0.019191114231944084, lr 0.0001
Epoch 36000, Loss 0.02068556286394596, lr 0.0001
Epoch 36100, Loss 0.019287675619125366, lr 0.0001
Epoch 36200, Loss 0.019315006211400032, lr 0.0001
Epoch 36300, Loss 0.057405486702919006, lr 0.0001
Epoch 36400, Loss 0.34608641266822815, lr 0.0001
Epoch 36500, Loss 0.01900743506848812, lr 0.0001
Epoch 36600, Loss 0.6461952328681946, lr 0.0001
Epoch 36700, Loss 0.022906512022018433, lr 0.0001
Epoch 36800, Loss 0.022736279293894768, lr 0.0001
Epoch 36900, Loss 0.01900767721235752, lr 0.0001
Epoch 37000, Loss 0.026508603245019913, lr 0.0001
Epoch 37100, Loss 0.3395632803440094, lr 0.0001
Epoch 37200, Loss 0.02028968743979931, lr 0.0001
Epoch 37300, Loss 0.020940830931067467, lr 0.0001
Epoch 37400, Loss 0.01895752362906933, lr 0.0001
Epoch 37500, Loss 0.02403227612376213, lr 0.0001
Epoch 37600, Loss 0.1416744589805603, lr 0.0001
Epoch 37700, Loss 0.018919477239251137, lr 0.0001
Epoch 37800, Loss 0.05340396985411644, lr 0.0001
Epoch 37900, Loss 0.05836017057299614, lr 0.0001
Epoch 38000, Loss 0.13553254306316376, lr 0.0001
Epoch 38100, Loss 0.02610897272825241, lr 0.0001
Epoch 38200, Loss 0.01874663308262825, lr 0.0001
Epoch 38300, Loss 0.04387999325990677, lr 0.0001
Epoch 38400, Loss 0.04465273395180702, lr 0.0001
Epoch 38500, Loss 0.020653540268540382, lr 0.0001
Epoch 38600, Loss 0.138620987534523, lr 0.0001
Epoch 38700, Loss 0.01838107965886593, lr 0.0001
Epoch 38800, Loss 0.019989505410194397, lr 0.0001
Epoch 38900, Loss 0.0442102886736393, lr 0.0001
Epoch 39000, Loss 0.029501480981707573, lr 0.0001
Epoch 39100, Loss 0.021808132529258728, lr 0.0001
Epoch 39200, Loss 0.40060243010520935, lr 0.0001
Epoch 39300, Loss 0.018188107758760452, lr 0.0001
Epoch 39400, Loss 0.0839715227484703, lr 0.0001
Epoch 39500, Loss 0.03695853427052498, lr 0.0001
Epoch 39600, Loss 0.12415186315774918, lr 0.0001
Epoch 39700, Loss 0.019512563943862915, lr 0.0001
Epoch 39800, Loss 0.018552247434854507, lr 0.0001
Epoch 39900, Loss 0.02371268719434738, lr 0.0001
Epoch 40000, Loss 0.022196630015969276, lr 0.0001
Epoch 40100, Loss 0.03988061472773552, lr 0.0001
Epoch 40200, Loss 0.018017973750829697, lr 0.0001
Epoch 40300, Loss 0.018394429236650467, lr 0.0001
Epoch 40400, Loss 0.026698831468820572, lr 0.0001

Epoch 40500, Loss 0.018465470522642136, lr 0.0001
Epoch 40600, Loss 0.02761848270893097, lr 0.0001
Epoch 40700, Loss 0.05454443022608757, lr 0.0001
Epoch 40800, Loss 0.11301802843809128, lr 0.0001
Epoch 40900, Loss 0.03303132951259613, lr 0.0001
Epoch 41000, Loss 0.017995066940784454, lr 0.0001
Epoch 41100, Loss 0.020800627768039703, lr 0.0001
Epoch 41200, Loss 0.03789157420396805, lr 0.0001
Epoch 41300, Loss 0.018798435106873512, lr 0.0001
Epoch 41400, Loss 0.018280234187841415, lr 0.0001
Epoch 41500, Loss 0.026119474321603775, lr 0.0001
Epoch 41600, Loss 0.018162738531827927, lr 0.0001
Epoch 41700, Loss 0.10839579254388809, lr 0.0001
Epoch 41800, Loss 0.03295384347438812, lr 0.0001
Epoch 41900, Loss 0.018638646230101585, lr 0.0001
Epoch 42000, Loss 0.01769259199500084, lr 0.0001
Epoch 42100, Loss 0.018605556339025497, lr 0.0001
Epoch 42200, Loss 0.029443155974149704, lr 0.0001
Epoch 42300, Loss 0.020235184580087662, lr 0.0001
Epoch 42400, Loss 0.040962498635053635, lr 0.0001
Epoch 42500, Loss 0.1373424232006073, lr 0.0001
Epoch 42600, Loss 0.01733235828578472, lr 0.0001
Epoch 42700, Loss 0.017305728048086166, lr 0.0001
Epoch 42800, Loss 0.01754109002649784, lr 0.0001
Epoch 42900, Loss 0.01813868246972561, lr 0.0001
Epoch 43000, Loss 0.018181679770350456, lr 0.0001
Epoch 43100, Loss 0.07408278435468674, lr 0.0001
Epoch 43200, Loss 0.02269776165485382, lr 0.0001
Epoch 43300, Loss 0.09045637398958206, lr 0.0001
Epoch 43400, Loss 0.018695909529924393, lr 0.0001
Epoch 43500, Loss 0.01797458343207836, lr 0.0001
Epoch 43600, Loss 0.029893146827816963, lr 0.0001
Epoch 43700, Loss 0.5839102864265442, lr 0.0001
Epoch 43800, Loss 0.01716100610792637, lr 0.0001
Epoch 43900, Loss 0.020307209342718124, lr 0.0001
Epoch 44000, Loss 0.044062696397304535, lr 0.0001
Epoch 44100, Loss 0.05162052810192108, lr 0.0001
Epoch 44200, Loss 0.01693614199757576, lr 0.0001
Epoch 44300, Loss 0.016999779269099236, lr 0.0001
Epoch 44400, Loss 0.0169973224401474, lr 0.0001
Epoch 44500, Loss 0.031433068215847015, lr 0.0001
Epoch 44600, Loss 0.01762157864868641, lr 0.0001
Epoch 44700, Loss 0.024753334000706673, lr 0.0001
Epoch 44800, Loss 0.04498038440942764, lr 0.0001
Epoch 44900, Loss 0.016822881996631622, lr 0.0001
Epoch 45000, Loss 0.020259888842701912, lr 0.0001
Epoch 45100, Loss 0.01691213808953762, lr 0.0001
Epoch 45200, Loss 0.017763368785381317, lr 0.0001

Epoch 45300, Loss 0.2810097932815552, lr 0.0001
Epoch 45400, Loss 0.0488978736102581, lr 0.0001
Epoch 45500, Loss 0.016637682914733887, lr 0.0001
Epoch 45600, Loss 0.023136338219046593, lr 0.0001
Epoch 45700, Loss 0.016580643132328987, lr 0.0001
Epoch 45800, Loss 0.017880631610751152, lr 0.0001
Epoch 45900, Loss 0.016597086563706398, lr 0.0001
Epoch 46000, Loss 0.016685564070940018, lr 0.0001
Epoch 46100, Loss 0.016506584361195564, lr 0.0001
Epoch 46200, Loss 0.22242699563503265, lr 0.0001
Epoch 46300, Loss 0.016485923901200294, lr 0.0001
Epoch 46400, Loss 0.017197785899043083, lr 0.0001
Epoch 46500, Loss 0.17214460670948029, lr 0.0001
Epoch 46600, Loss 0.016386937350034714, lr 0.0001
Epoch 46700, Loss 0.17194724082946777, lr 0.0001
Epoch 46800, Loss 0.016454331576824188, lr 0.0001
Epoch 46900, Loss 0.016485661268234253, lr 0.0001
Epoch 47000, Loss 0.41052019596099854, lr 0.0001
Epoch 47100, Loss 0.016495225951075554, lr 0.0001
Epoch 47200, Loss 0.016466494649648666, lr 0.0001
Epoch 47300, Loss 0.0162627212703228, lr 0.0001
Epoch 47400, Loss 0.07962363213300705, lr 0.0001
Epoch 47500, Loss 0.01619105599820614, lr 0.0001
Epoch 47600, Loss 0.1659175306558609, lr 0.0001
Epoch 47700, Loss 0.016789088025689125, lr 0.0001
Epoch 47800, Loss 0.016152184456586838, lr 0.0001
Epoch 47900, Loss 0.024157699197530746, lr 0.0001
Epoch 48000, Loss 0.016154766082763672, lr 0.0001
Epoch 48100, Loss 0.016100464388728142, lr 0.0001
Epoch 48200, Loss 0.02539558708667755, lr 0.0001
Epoch 48300, Loss 0.01628534495830536, lr 0.0001
Epoch 48400, Loss 0.016031861305236816, lr 0.0001
Epoch 48500, Loss 0.07226703315973282, lr 0.0001
Epoch 48600, Loss 0.01595824956893921, lr 0.0001
Epoch 48700, Loss 0.3231733441352844, lr 0.0001
Epoch 48800, Loss 0.01727459393441677, lr 0.0001
Epoch 48900, Loss 0.018067263066768646, lr 0.0001
Epoch 49000, Loss 0.04530320689082146, lr 0.0001
Epoch 49100, Loss 0.015888221561908722, lr 0.0001
Epoch 49200, Loss 0.019842026755213737, lr 0.0001
Epoch 49300, Loss 0.029206473380327225, lr 0.0001
Epoch 49400, Loss 0.018118156120181084, lr 0.0001
Epoch 49500, Loss 0.022567663341760635, lr 0.0001
Epoch 49600, Loss 0.06748258322477341, lr 0.0001
Epoch 49700, Loss 0.019453179091215134, lr 0.0001
Epoch 49800, Loss 0.04783770069479942, lr 0.0001
Epoch 49900, Loss 0.42532092332839966, lr 0.0001
Epoch 50000, Loss 0.015674356371164322, lr 0.0001

Epoch 50100, Loss 0.0166621133685112, lr 0.0001
Epoch 50200, Loss 0.04141180217266083, lr 0.0001
Epoch 50300, Loss 0.017618877813220024, lr 0.0001
Epoch 50400, Loss 0.015594752505421638, lr 0.0001
Epoch 50500, Loss 0.2385224550962448, lr 0.0001
Epoch 50600, Loss 0.015561566688120365, lr 0.0001
Epoch 50700, Loss 0.01595093309879303, lr 0.0001
Epoch 50800, Loss 0.0788835883140564, lr 0.0001
Epoch 50900, Loss 0.01593976840376854, lr 0.0001
Epoch 51000, Loss 0.044606078416109085, lr 0.0001
Epoch 51100, Loss 0.015473886393010616, lr 0.0001
Epoch 51200, Loss 0.02560076117515564, lr 0.0001
Epoch 51300, Loss 0.031113898381590843, lr 0.0001
Epoch 51400, Loss 0.015470457263290882, lr 0.0001
Epoch 51500, Loss 0.015373492613434792, lr 0.0001
Epoch 51600, Loss 0.02056317962706089, lr 0.0001
Epoch 51700, Loss 0.015337327495217323, lr 0.0001
Epoch 51800, Loss 0.018327724188566208, lr 0.0001
Epoch 51900, Loss 0.015295160003006458, lr 0.0001
Epoch 52000, Loss 0.016797371208667755, lr 0.0001
Epoch 52100, Loss 0.015382392331957817, lr 0.0001
Epoch 52200, Loss 0.01699593849480152, lr 0.0001
Epoch 52300, Loss 0.015223740600049496, lr 0.0001
Epoch 52400, Loss 0.015220197848975658, lr 0.0001
Epoch 52500, Loss 0.015297750942409039, lr 0.0001
Epoch 52600, Loss 0.01635734736919403, lr 0.0001
Epoch 52700, Loss 0.015278712846338749, lr 0.0001
Epoch 52800, Loss 0.17516593635082245, lr 0.0001
Epoch 52900, Loss 0.015139864757657051, lr 0.0001
Epoch 53000, Loss 0.015795838087797165, lr 0.0001
Epoch 53100, Loss 0.017036648467183113, lr 0.0001
Epoch 53200, Loss 0.015478082001209259, lr 0.0001
Epoch 53300, Loss 0.018685732036828995, lr 0.0001
Epoch 53400, Loss 0.015107469633221626, lr 0.0001
Epoch 53500, Loss 0.01889622211456299, lr 0.0001
Epoch 53600, Loss 0.016584720462560654, lr 0.0001
Epoch 53700, Loss 0.016779346391558647, lr 0.0001
Epoch 53800, Loss 0.014989383518695831, lr 0.0001
Epoch 53900, Loss 0.03543092682957649, lr 0.0001
Epoch 54000, Loss 0.014934220351278782, lr 0.0001
Epoch 54100, Loss 0.06558292359113693, lr 0.0001
Epoch 54200, Loss 0.24278810620307922, lr 0.0001
Epoch 54300, Loss 0.014915999956429005, lr 0.0001
Epoch 54400, Loss 0.01700497418642044, lr 0.0001
Epoch 54500, Loss 0.020236140117049217, lr 0.0001
Epoch 54600, Loss 0.01861032284796238, lr 0.0001
Epoch 54700, Loss 0.027304090559482574, lr 0.0001
Epoch 54800, Loss 0.015452967956662178, lr 0.0001

Epoch 54900, Loss 0.020467566326260567, lr 0.0001
Epoch 55000, Loss 0.014730903320014477, lr 0.0001
Epoch 55100, Loss 0.014760970138013363, lr 0.0001
Epoch 55200, Loss 0.014814581722021103, lr 0.0001
Epoch 55300, Loss 0.04494781047105789, lr 0.0001
Epoch 55400, Loss 0.019725294783711433, lr 0.0001
Epoch 55500, Loss 0.22504208981990814, lr 0.0001
Epoch 55600, Loss 0.014680122956633568, lr 0.0001
Epoch 55700, Loss 0.02776724100112915, lr 0.0001
Epoch 55800, Loss 0.0146101089194417, lr 0.0001
Epoch 55900, Loss 0.014605553820729256, lr 0.0001
Epoch 56000, Loss 0.014760463498532772, lr 0.0001
Epoch 56100, Loss 0.014945781789720058, lr 0.0001
Epoch 56200, Loss 0.01499682292342186, lr 0.0001
Epoch 56300, Loss 0.04954621568322182, lr 0.0001
Epoch 56400, Loss 0.017924336716532707, lr 0.0001
Epoch 56500, Loss 0.0206910353153944, lr 0.0001
Epoch 56600, Loss 0.014679551124572754, lr 0.0001
Epoch 56700, Loss 0.014614681713283062, lr 0.0001
Epoch 56800, Loss 0.271353542804718, lr 0.0001
Epoch 56900, Loss 0.0385795533657074, lr 0.0001
Epoch 57000, Loss 0.01449762936681509, lr 0.0001
Epoch 57100, Loss 0.014699772000312805, lr 0.0001
Epoch 57200, Loss 0.023087704554200172, lr 0.0001
Epoch 57300, Loss 0.0143395671620965, lr 0.0001
Epoch 57400, Loss 0.03054189682006836, lr 0.0001
Epoch 57500, Loss 0.01431098859757185, lr 0.0001
Epoch 57600, Loss 0.019694307819008827, lr 0.0001
Epoch 57700, Loss 0.014277598820626736, lr 0.0001
Epoch 57800, Loss 0.04566122591495514, lr 0.0001
Epoch 57900, Loss 0.014334744773805141, lr 0.0001
Epoch 58000, Loss 0.014235259965062141, lr 0.0001
Epoch 58100, Loss 0.018926752731204033, lr 0.0001
Epoch 58200, Loss 0.01419914048165083, lr 0.0001
Epoch 58300, Loss 0.01522449217736721, lr 0.0001
Epoch 58400, Loss 0.014172771014273167, lr 0.0001
Epoch 58500, Loss 0.014989876188337803, lr 0.0001
Epoch 58600, Loss 0.014233526773750782, lr 0.0001
Epoch 58700, Loss 0.020188964903354645, lr 0.0001
Epoch 58800, Loss 0.018348686397075653, lr 0.0001
Epoch 58900, Loss 0.0875588059425354, lr 0.0001
Epoch 59000, Loss 0.21157507598400116, lr 0.0001
Epoch 59100, Loss 0.016734156757593155, lr 0.0001
Epoch 59200, Loss 0.015179215930402279, lr 0.0001
Epoch 59300, Loss 0.014651021920144558, lr 0.0001
Epoch 59400, Loss 0.014064674265682697, lr 0.0001
Epoch 59500, Loss 0.03893883898854256, lr 0.0001
Epoch 59600, Loss 0.14720599353313446, lr 0.0001

Epoch 59700, Loss 0.027584536001086235, lr 0.0001
Epoch 59800, Loss 0.014995787292718887, lr 0.0001
Epoch 59900, Loss 0.01407305896282196, lr 0.0001
Epoch 60000, Loss 0.013978732749819756, lr 0.0001
Epoch 60100, Loss 0.014204625971615314, lr 0.0001
Epoch 60200, Loss 0.014318296685814857, lr 0.0001
Epoch 60300, Loss 0.10847298800945282, lr 0.0001
Epoch 60400, Loss 0.016312384977936745, lr 0.0001
Epoch 60500, Loss 0.013872276991605759, lr 0.0001
Epoch 60600, Loss 0.019219687208533287, lr 0.0001
Epoch 60700, Loss 0.014681559056043625, lr 0.0001
Epoch 60800, Loss 0.14371541142463684, lr 0.0001
Epoch 60900, Loss 0.039390552788972855, lr 0.0001
Epoch 61000, Loss 0.025737106800079346, lr 0.0001
Epoch 61100, Loss 0.07862769812345505, lr 0.0001
Epoch 61200, Loss 0.014057641848921776, lr 0.0001
Epoch 61300, Loss 0.018458563834428787, lr 0.0001
Epoch 61400, Loss 0.5790360569953918, lr 0.0001
Epoch 61500, Loss 0.013698162510991096, lr 0.0001
Epoch 61600, Loss 0.019994303584098816, lr 0.0001
Epoch 61700, Loss 0.01366344653069973, lr 0.0001
Epoch 61800, Loss 0.022191110998392105, lr 0.0001
Epoch 61900, Loss 0.013633702881634235, lr 0.0001
Epoch 62000, Loss 0.016001617535948753, lr 0.0001
Epoch 62100, Loss 0.6609444618225098, lr 0.0001
Epoch 62200, Loss 0.013619470410048962, lr 0.0001
Epoch 62300, Loss 0.015153390355408192, lr 0.0001
Epoch 62400, Loss 0.09016555547714233, lr 0.0001
Epoch 62500, Loss 0.01357412151992321, lr 0.0001
Epoch 62600, Loss 0.0370134562253952, lr 0.0001
Epoch 62700, Loss 0.013523224741220474, lr 0.0001
Epoch 62800, Loss 0.01384221762418747, lr 0.0001
Epoch 62900, Loss 0.013871559873223305, lr 0.0001
Epoch 63000, Loss 0.01390128768980503, lr 0.0001
Epoch 63100, Loss 0.049221623688936234, lr 0.0001
Epoch 63200, Loss 0.013487212359905243, lr 0.0001
Epoch 63300, Loss 0.2862095534801483, lr 0.0001
Epoch 63400, Loss 0.013466929085552692, lr 0.0001
Epoch 63500, Loss 0.013751905411481857, lr 0.0001
Epoch 63600, Loss 0.013573022559285164, lr 0.0001
Epoch 63700, Loss 0.5209043025970459, lr 0.0001
Epoch 63800, Loss 0.013383513316512108, lr 0.0001
Epoch 63900, Loss 0.5637574195861816, lr 0.0001
Epoch 64000, Loss 0.013373425230383873, lr 0.0001
Epoch 64100, Loss 0.03962329030036926, lr 0.0001
Epoch 64200, Loss 0.013314028270542622, lr 0.0001
Epoch 64300, Loss 0.12269552797079086, lr 0.0001
Epoch 64400, Loss 0.013299189507961273, lr 0.0001

Epoch 64500, Loss 0.015301134437322617, lr 0.0001
Epoch 64600, Loss 0.013259787112474442, lr 0.0001
Epoch 64700, Loss 0.019426198676228523, lr 0.0001
Epoch 64800, Loss 0.013344699516892433, lr 0.0001
Epoch 64900, Loss 0.1967793107032776, lr 0.0001
Epoch 65000, Loss 0.013264167122542858, lr 0.0001
Epoch 65100, Loss 0.01611953042447567, lr 0.0001
Epoch 65200, Loss 0.050696562975645065, lr 0.0001
Epoch 65300, Loss 0.3593057096004486, lr 0.0001
Epoch 65400, Loss 0.015220659784972668, lr 0.0001
Epoch 65500, Loss 0.01431360188871622, lr 0.0001
Epoch 65600, Loss 0.040661077946424484, lr 0.0001
Epoch 65700, Loss 0.027041321620345116, lr 0.0001
Epoch 65800, Loss 0.01314195804297924, lr 0.0001
Epoch 65900, Loss 0.013377321884036064, lr 0.0001
Epoch 66000, Loss 0.07411566376686096, lr 0.0001
Epoch 66100, Loss 0.013066614046692848, lr 0.0001
Epoch 66200, Loss 0.30712366104125977, lr 0.0001
Epoch 66300, Loss 0.013062779791653156, lr 0.0001
Epoch 66400, Loss 0.021060865372419357, lr 0.0001
Epoch 66500, Loss 0.12748044729232788, lr 0.0001
Epoch 66600, Loss 0.013036156073212624, lr 0.0001
Epoch 66700, Loss 0.013076016679406166, lr 0.0001
Epoch 66800, Loss 0.014622258953750134, lr 0.0001
Epoch 66900, Loss 0.01371748186647892, lr 0.0001
Epoch 67000, Loss 0.09308259934186935, lr 0.0001
Epoch 67100, Loss 0.012940491549670696, lr 0.0001
Epoch 67200, Loss 0.013199576176702976, lr 0.0001
Epoch 67300, Loss 0.013030425645411015, lr 0.0001
Epoch 67400, Loss 0.024495407938957214, lr 0.0001
Epoch 67500, Loss 0.06656409800052643, lr 0.0001
Epoch 67600, Loss 0.012907663360238075, lr 0.0001
Epoch 67700, Loss 0.029197247698903084, lr 0.0001
Epoch 67800, Loss 0.013114526867866516, lr 0.0001
Epoch 67900, Loss 0.03236103430390358, lr 0.0001
Epoch 68000, Loss 0.22764483094215393, lr 0.0001
Epoch 68100, Loss 0.021187758073210716, lr 0.0001
Epoch 68200, Loss 0.023776551708579063, lr 0.0001
Epoch 68300, Loss 0.02205355279147625, lr 0.0001
Epoch 68400, Loss 0.04916130006313324, lr 0.0001
Epoch 68500, Loss 0.01869068294763565, lr 0.0001
Epoch 68600, Loss 0.019099248573184013, lr 0.0001
Epoch 68700, Loss 0.014815847389400005, lr 0.0001
Epoch 68800, Loss 0.016145136207342148, lr 0.0001
Epoch 68900, Loss 0.01858023926615715, lr 0.0001
Epoch 69000, Loss 0.027700059115886688, lr 0.0001
Epoch 69100, Loss 0.05057351663708687, lr 0.0001
Epoch 69200, Loss 0.012734529562294483, lr 0.0001

Epoch 69300, Loss 0.012887903489172459, lr 0.0001
Epoch 69400, Loss 0.013110248371958733, lr 0.0001
Epoch 69500, Loss 0.012701139785349369, lr 0.0001
Epoch 69600, Loss 0.012634791433811188, lr 0.0001
Epoch 69700, Loss 0.012696797959506512, lr 0.0001
Epoch 69800, Loss 0.01768478751182556, lr 0.0001
Epoch 69900, Loss 0.0287708081305027, lr 0.0001
Epoch 70000, Loss 0.030734306201338768, lr 0.0001
Epoch 70100, Loss 0.01976626366376877, lr 0.0001
Epoch 70200, Loss 0.0366266593337059, lr 0.0001
Epoch 70300, Loss 0.07621774822473526, lr 0.0001
Epoch 70400, Loss 0.07513854652643204, lr 0.0001
Epoch 70500, Loss 0.024884935468435287, lr 0.0001
Epoch 70600, Loss 0.017634548246860504, lr 0.0001
Epoch 70700, Loss 0.04112149775028229, lr 0.0001
Epoch 70800, Loss 0.06537182629108429, lr 0.0001
Epoch 70900, Loss 0.4363854229450226, lr 0.0001
Epoch 71000, Loss 0.012518199160695076, lr 0.0001
Epoch 71100, Loss 0.013437097892165184, lr 0.0001
Epoch 71200, Loss 0.40662649273872375, lr 0.0001
Epoch 71300, Loss 0.01245284453034401, lr 0.0001
Epoch 71400, Loss 0.039281800389289856, lr 0.0001
Epoch 71500, Loss 0.014900827780365944, lr 0.0001
Epoch 71600, Loss 0.012894077226519585, lr 0.0001
Epoch 71700, Loss 0.04254603385925293, lr 0.0001
Epoch 71800, Loss 0.012418456375598907, lr 0.0001
Epoch 71900, Loss 0.012451250106096268, lr 0.0001
Epoch 72000, Loss 0.03703363984823227, lr 0.0001
Epoch 72100, Loss 0.05134221538901329, lr 0.0001
Epoch 72200, Loss 0.05127117782831192, lr 0.0001
Epoch 72300, Loss 0.11203233152627945, lr 0.0001
Epoch 72400, Loss 0.04750872775912285, lr 0.0001
Epoch 72500, Loss 0.01259725634008646, lr 0.0001
Epoch 72600, Loss 0.016023902222514153, lr 0.0001
Epoch 72700, Loss 0.012374387122690678, lr 0.0001
Epoch 72800, Loss 0.012333822436630726, lr 0.0001
Epoch 72900, Loss 0.014001412317156792, lr 0.0001
Epoch 73000, Loss 0.019673623144626617, lr 0.0001
Epoch 73100, Loss 0.012878927402198315, lr 0.0001
Epoch 73200, Loss 0.019416246563196182, lr 0.0001
Epoch 73300, Loss 0.11093788594007492, lr 0.0001
Epoch 73400, Loss 0.0164320170879364, lr 0.0001
Epoch 73500, Loss 0.012239869683980942, lr 0.0001
Epoch 73600, Loss 0.018780700862407684, lr 0.0001
Epoch 73700, Loss 0.01417982392013073, lr 0.0001
Epoch 73800, Loss 0.0124019430950284, lr 0.0001
Epoch 73900, Loss 0.013390482403337955, lr 0.0001
Epoch 74000, Loss 0.01681482419371605, lr 0.0001

Epoch 74100, Loss 0.014783789403736591, lr 0.0001
Epoch 74200, Loss 0.018730172887444496, lr 0.0001
Epoch 74300, Loss 0.012308148667216301, lr 0.0001
Epoch 74400, Loss 0.012080887332558632, lr 0.0001
Epoch 74500, Loss 0.05544446408748627, lr 0.0001
Epoch 74600, Loss 0.012094494886696339, lr 0.0001
Epoch 74700, Loss 0.012121125124394894, lr 0.0001
Epoch 74800, Loss 0.06060681492090225, lr 0.0001
Epoch 74900, Loss 0.030850253999233246, lr 0.0001
Epoch 75000, Loss 0.05519856885075569, lr 0.0001
Epoch 75100, Loss 0.031557224690914154, lr 0.0001
Epoch 75200, Loss 0.02027706801891327, lr 0.0001
Epoch 75300, Loss 0.013518665917217731, lr 0.0001
Epoch 75400, Loss 0.012062199413776398, lr 0.0001
Epoch 75500, Loss 0.016612455248832703, lr 0.0001
Epoch 75600, Loss 0.011959840543568134, lr 0.0001
Epoch 75700, Loss 0.011944377794861794, lr 0.0001
Epoch 75800, Loss 0.01870821788907051, lr 0.0001
Epoch 75900, Loss 0.02225092612206936, lr 0.0001
Epoch 76000, Loss 0.011981377378106117, lr 0.0001
Epoch 76100, Loss 0.012148250825703144, lr 0.0001
Epoch 76200, Loss 0.03010253794491291, lr 0.0001
Epoch 76300, Loss 0.17042019963264465, lr 0.0001
Epoch 76400, Loss 0.07385735958814621, lr 0.0001
Epoch 76500, Loss 0.03360829874873161, lr 0.0001
Epoch 76600, Loss 0.057577263563871384, lr 0.0001
Epoch 76700, Loss 0.0118631049990654, lr 0.0001
Epoch 76800, Loss 0.030755722895264626, lr 0.0001
Epoch 76900, Loss 0.011822940781712532, lr 0.0001
Epoch 77000, Loss 0.011871540918946266, lr 0.0001
Epoch 77100, Loss 0.011829117313027382, lr 0.0001
Epoch 77200, Loss 0.012875009328126907, lr 0.0001
Epoch 77300, Loss 0.011829454451799393, lr 0.0001
Epoch 77400, Loss 0.01943385601043701, lr 0.0001
Epoch 77500, Loss 0.012837497517466545, lr 0.0001
Epoch 77600, Loss 0.021976327523589134, lr 0.0001
Epoch 77700, Loss 0.01175018958747387, lr 0.0001
Epoch 77800, Loss 0.013887010514736176, lr 0.0001
Epoch 77900, Loss 0.012195111252367496, lr 0.0001
Epoch 78000, Loss 0.011752854101359844, lr 0.0001
Epoch 78100, Loss 0.012617179192602634, lr 0.0001
Epoch 78200, Loss 0.03347029164433479, lr 0.0001
Epoch 78300, Loss 0.013918759301304817, lr 0.0001
Epoch 78400, Loss 0.012657762505114079, lr 0.0001
Epoch 78500, Loss 0.34387049078941345, lr 0.0001
Epoch 78600, Loss 0.012337648309767246, lr 0.0001
Epoch 78700, Loss 0.01185416430234909, lr 0.0001
Epoch 78800, Loss 0.12023657560348511, lr 0.0001

Epoch 78900, Loss 0.014119530096650124, lr 0.0001
Epoch 79000, Loss 0.05816124379634857, lr 0.0001
Epoch 79100, Loss 0.04728769138455391, lr 0.0001
Epoch 79200, Loss 0.5233470797538757, lr 0.0001
Epoch 79300, Loss 0.012115617282688618, lr 0.0001
Epoch 79400, Loss 0.024443648755550385, lr 0.0001
Epoch 79500, Loss 0.2699909210205078, lr 0.0001
Epoch 79600, Loss 0.011558356694877148, lr 0.0001
Epoch 79700, Loss 0.14566799998283386, lr 0.0001
Epoch 79800, Loss 0.011568974703550339, lr 0.0001
Epoch 79900, Loss 0.012737744487822056, lr 0.0001
Epoch 80000, Loss 0.012717528268694878, lr 0.0001
Epoch 80100, Loss 0.05273914709687233, lr 0.0001
Epoch 80200, Loss 0.014406059868633747, lr 0.0001
Epoch 80300, Loss 0.011572595685720444, lr 0.0001
Epoch 80400, Loss 0.01582632213830948, lr 0.0001
Epoch 80500, Loss 0.0358058325946331, lr 0.0001
Epoch 80600, Loss 0.011591912247240543, lr 0.0001
Epoch 80700, Loss 0.01172560453414917, lr 0.0001
Epoch 80800, Loss 0.012094949372112751, lr 0.0001
Epoch 80900, Loss 0.011465046554803848, lr 0.0001
Epoch 81000, Loss 0.013412760570645332, lr 0.0001
Epoch 81100, Loss 0.011659002862870693, lr 0.0001
Epoch 81200, Loss 0.012221813201904297, lr 0.0001
Epoch 81300, Loss 0.2459869384765625, lr 0.0001
Epoch 81400, Loss 0.011393428780138493, lr 0.0001
Epoch 81500, Loss 0.02340909093618393, lr 0.0001
Epoch 81600, Loss 0.22452692687511444, lr 0.0001
Epoch 81700, Loss 0.1525169163942337, lr 0.0001
Epoch 81800, Loss 0.011478837579488754, lr 0.0001
Epoch 81900, Loss 0.011685363948345184, lr 0.0001
Epoch 82000, Loss 0.07006419450044632, lr 0.0001
Epoch 82100, Loss 0.0223856084048748, lr 0.0001
Epoch 82200, Loss 0.02382582612335682, lr 0.0001
Epoch 82300, Loss 0.03192433342337608, lr 0.0001
Epoch 82400, Loss 0.0378253273665905, lr 0.0001
Epoch 82500, Loss 0.04336412250995636, lr 0.0001
Epoch 82600, Loss 0.011485437862575054, lr 0.0001
Epoch 82700, Loss 0.011443380266427994, lr 0.0001
Epoch 82800, Loss 0.013059873133897781, lr 0.0001
Epoch 82900, Loss 0.034366633743047714, lr 0.0001
Epoch 83000, Loss 0.01128948200494051, lr 0.0001
Epoch 83100, Loss 0.023233894258737564, lr 0.0001
Epoch 83200, Loss 0.07021863013505936, lr 0.0001
Epoch 83300, Loss 0.011235958896577358, lr 0.0001
Epoch 83400, Loss 0.01143091730773449, lr 0.0001
Epoch 83500, Loss 0.011251755058765411, lr 0.0001
Epoch 83600, Loss 0.013770891353487968, lr 0.0001

Epoch 83700, Loss 0.011603564023971558, lr 0.0001
Epoch 83800, Loss 0.21478453278541565, lr 0.0001
Epoch 83900, Loss 0.047305695712566376, lr 0.0001
Epoch 84000, Loss 0.025769617408514023, lr 0.0001
Epoch 84100, Loss 0.03583533689379692, lr 0.0001
Epoch 84200, Loss 0.013970240950584412, lr 0.0001
Epoch 84300, Loss 0.01145178359001875, lr 0.0001
Epoch 84400, Loss 0.012505784630775452, lr 0.0001
Epoch 84500, Loss 0.38199886679649353, lr 0.0001
Epoch 84600, Loss 0.011129644699394703, lr 0.0001
Epoch 84700, Loss 0.01772698573768139, lr 0.0001
Epoch 84800, Loss 0.011096793226897717, lr 0.0001
Epoch 84900, Loss 0.08495846390724182, lr 0.0001
Epoch 85000, Loss 0.011081896722316742, lr 0.0001
Epoch 85100, Loss 0.06860669702291489, lr 0.0001
Epoch 85200, Loss 0.011156871914863586, lr 0.0001
Epoch 85300, Loss 0.011647296138107777, lr 0.0001
Epoch 85400, Loss 0.011209742166101933, lr 0.0001
Epoch 85500, Loss 0.047317374497652054, lr 0.0001
Epoch 85600, Loss 0.12528395652770996, lr 0.0001
Epoch 85700, Loss 0.011024193838238716, lr 0.0001
Epoch 85800, Loss 0.012314501218497753, lr 0.0001
Epoch 85900, Loss 0.011005398817360401, lr 0.0001
Epoch 86000, Loss 0.07591211795806885, lr 0.0001
Epoch 86100, Loss 0.011046122759580612, lr 0.0001
Epoch 86200, Loss 0.010984605178236961, lr 0.0001
Epoch 86300, Loss 0.011313573457300663, lr 0.0001
Epoch 86400, Loss 0.01724029891192913, lr 0.0001
Epoch 86500, Loss 0.011938301846385002, lr 0.0001
Epoch 86600, Loss 0.06833014637231827, lr 0.0001
Epoch 86700, Loss 0.013084647245705128, lr 0.0001
Epoch 86800, Loss 0.025090523064136505, lr 0.0001
Epoch 86900, Loss 0.012499235570430756, lr 0.0001
Epoch 87000, Loss 0.013344994746148586, lr 0.0001
Epoch 87100, Loss 0.019057562574744225, lr 0.0001
Epoch 87200, Loss 0.2920686900615692, lr 0.0001
Epoch 87300, Loss 0.011239410378038883, lr 0.0001
Epoch 87400, Loss 0.010927323251962662, lr 0.0001
Epoch 87500, Loss 0.04945831373333931, lr 0.0001
Epoch 87600, Loss 0.01087901834398508, lr 0.0001
Epoch 87700, Loss 0.011494248174130917, lr 0.0001
Epoch 87800, Loss 0.037148330360651016, lr 0.0001
Epoch 87900, Loss 0.01232720073312521, lr 0.0001
Epoch 88000, Loss 0.012064551934599876, lr 0.0001
Epoch 88100, Loss 0.01286400482058525, lr 0.0001
Epoch 88200, Loss 0.019688107073307037, lr 0.0001
Epoch 88300, Loss 0.01527226623147726, lr 0.0001
Epoch 88400, Loss 0.011871978640556335, lr 0.0001

Epoch 88500, Loss 0.027511103078722954, lr 0.0001
Epoch 88600, Loss 0.01162287313491106, lr 0.0001
Epoch 88700, Loss 0.013080830685794353, lr 0.0001
Epoch 88800, Loss 0.6300263404846191, lr 0.0001
Epoch 88900, Loss 0.010798263363540173, lr 0.0001
Epoch 89000, Loss 0.011930536478757858, lr 0.0001
Epoch 89100, Loss 0.010861068964004517, lr 0.0001
Epoch 89200, Loss 0.010746545158326626, lr 0.0001
Epoch 89300, Loss 0.013219824992120266, lr 0.0001
Epoch 89400, Loss 0.020251747220754623, lr 0.0001
Epoch 89500, Loss 0.19494988024234772, lr 0.0001
Epoch 89600, Loss 0.01138157956302166, lr 0.0001
Epoch 89700, Loss 0.018953343853354454, lr 0.0001
Epoch 89800, Loss 0.08087098598480225, lr 0.0001
Epoch 89900, Loss 0.011285008862614632, lr 0.0001
Epoch 90000, Loss 0.010869591496884823, lr 0.0001
Epoch 90100, Loss 0.014805661514401436, lr 0.0001
Epoch 90200, Loss 0.19793400168418884, lr 0.0001
Epoch 90300, Loss 0.02823844738304615, lr 0.0001
Epoch 90400, Loss 0.010946987196803093, lr 0.0001
Epoch 90500, Loss 0.010983636602759361, lr 0.0001
Epoch 90600, Loss 0.07976628839969635, lr 0.0001
Epoch 90700, Loss 0.01065762434154749, lr 0.0001
Epoch 90800, Loss 0.010726847685873508, lr 0.0001
Epoch 90900, Loss 0.010904980823397636, lr 0.0001
Epoch 91000, Loss 0.010609455406665802, lr 0.0001
Epoch 91100, Loss 0.027780132368206978, lr 0.0001
Epoch 91200, Loss 0.010628629475831985, lr 0.0001
Epoch 91300, Loss 0.17328143119812012, lr 0.0001
Epoch 91400, Loss 0.010605087503790855, lr 0.0001
Epoch 91500, Loss 0.012247527949512005, lr 0.0001
Epoch 91600, Loss 0.01125932764261961, lr 0.0001
Epoch 91700, Loss 0.010594765655696392, lr 0.0001
Epoch 91800, Loss 0.011264843866229057, lr 0.0001
Epoch 91900, Loss 0.015284387394785881, lr 0.0001
Epoch 92000, Loss 0.03842545673251152, lr 0.0001
Epoch 92100, Loss 0.010561885312199593, lr 0.0001
Epoch 92200, Loss 0.015031406655907631, lr 0.0001
Epoch 92300, Loss 0.17802317440509796, lr 0.0001
Epoch 92400, Loss 0.016089852899312973, lr 0.0001
Epoch 92500, Loss 0.012281942181289196, lr 0.0001
Epoch 92600, Loss 0.06215938180685043, lr 0.0001
Epoch 92700, Loss 0.010524876415729523, lr 0.0001
Epoch 92800, Loss 0.011320170946419239, lr 0.0001
Epoch 92900, Loss 0.012328112497925758, lr 0.0001
Epoch 93000, Loss 0.010671989060938358, lr 0.0001
Epoch 93100, Loss 0.010456403717398643, lr 0.0001
Epoch 93200, Loss 0.011333434842526913, lr 0.0001

Epoch 93300, Loss 0.010441325604915619, lr 0.0001
Epoch 93400, Loss 0.02972646802663803, lr 0.0001
Epoch 93500, Loss 0.01043148897588253, lr 0.0001
Epoch 93600, Loss 0.010423577390611172, lr 0.0001
Epoch 93700, Loss 0.04050685092806816, lr 0.0001
Epoch 93800, Loss 0.010439515113830566, lr 0.0001
Epoch 93900, Loss 0.010403018444776535, lr 0.0001
Epoch 94000, Loss 0.017846236005425453, lr 0.0001
Epoch 94100, Loss 0.011992907151579857, lr 0.0001
Epoch 94200, Loss 0.01255651842802763, lr 0.0001
Epoch 94300, Loss 0.011061135679483414, lr 0.0001
Epoch 94400, Loss 0.010567408986389637, lr 0.0001
Epoch 94500, Loss 0.014522568322718143, lr 0.0001
Epoch 94600, Loss 0.011011717841029167, lr 0.0001
Epoch 94700, Loss 0.01551215909421444, lr 0.0001
Epoch 94800, Loss 0.01035286020487547, lr 0.0001
Epoch 94900, Loss 0.01209055446088314, lr 0.0001
Epoch 95000, Loss 0.013407559134066105, lr 0.0001
Epoch 95100, Loss 0.010332505218684673, lr 0.0001
Epoch 95200, Loss 0.011738249100744724, lr 0.0001
Epoch 95300, Loss 0.1669631153345108, lr 0.0001
Epoch 95400, Loss 0.010412398725748062, lr 0.0001
Epoch 95500, Loss 0.012961572036147118, lr 0.0001
Epoch 95600, Loss 0.01302281953394413, lr 0.0001
Epoch 95700, Loss 0.020576998591423035, lr 0.0001
Epoch 95800, Loss 0.01154574379324913, lr 0.0001
Epoch 95900, Loss 0.01033172756433487, lr 0.0001
Epoch 96000, Loss 0.011378370225429535, lr 0.0001
Epoch 96100, Loss 0.04072278365492821, lr 0.0001
Epoch 96200, Loss 0.03993241861462593, lr 0.0001
Epoch 96300, Loss 0.3729844391345978, lr 0.0001
Epoch 96400, Loss 0.010322277434170246, lr 0.0001
Epoch 96500, Loss 0.01041427906602621, lr 0.0001
Epoch 96600, Loss 0.01853148080408573, lr 0.0001
Epoch 96700, Loss 0.012052994221448898, lr 0.0001
Epoch 96800, Loss 0.020533643662929535, lr 0.0001
Epoch 96900, Loss 0.011212291195988655, lr 0.0001
Epoch 97000, Loss 0.01030515506863594, lr 0.0001
Epoch 97100, Loss 0.022065935656428337, lr 0.0001
Epoch 97200, Loss 0.012019571848213673, lr 0.0001
Epoch 97300, Loss 0.015759039670228958, lr 0.0001
Epoch 97400, Loss 0.010383876971900463, lr 0.0001
Epoch 97500, Loss 0.010615677572786808, lr 0.0001
Epoch 97600, Loss 0.01149244699627161, lr 0.0001
Epoch 97700, Loss 0.01169611793011427, lr 0.0001
Epoch 97800, Loss 0.036396630108356476, lr 0.0001
Epoch 97900, Loss 0.010744321160018444, lr 0.0001
Epoch 98000, Loss 0.039131660014390945, lr 0.0001

Epoch 98100, Loss 0.010291396640241146, lr 0.0001
Epoch 98200, Loss 0.01027771644294262, lr 0.0001
Epoch 98300, Loss 0.0306143369525671, lr 0.0001
Epoch 98400, Loss 0.01010500080883503, lr 0.0001
Epoch 98500, Loss 0.44473138451576233, lr 0.0001
Epoch 98600, Loss 0.010091815143823624, lr 0.0001
Epoch 98700, Loss 0.010084341280162334, lr 0.0001
Epoch 98800, Loss 0.010094784200191498, lr 0.0001
Epoch 98900, Loss 0.042055100202560425, lr 0.0001
Epoch 99000, Loss 0.012784147635102272, lr 0.0001
Epoch 99100, Loss 0.010061647742986679, lr 0.0001
Epoch 99200, Loss 0.010718181729316711, lr 0.0001
Epoch 99300, Loss 0.010050754994153976, lr 0.0001
Epoch 99400, Loss 0.01022808626294136, lr 0.0001
Epoch 99500, Loss 0.010055769234895706, lr 0.0001
Epoch 99600, Loss 0.4475182592868805, lr 0.0001
Epoch 99700, Loss 0.01005104836076498, lr 0.0001
Epoch 99800, Loss 0.06498744338750839, lr 0.0001
Epoch 99900, Loss 0.010016302578151226, lr 0.0001
Epoch 100000, Loss 0.03360181301832199, lr 0.0001
Epoch 100100, Loss 0.010070926509797573, lr 0.0001
Epoch 100200, Loss 0.012713710777461529, lr 0.0001
Epoch 100300, Loss 0.009992853738367558, lr 0.0001
Epoch 100400, Loss 0.010005861520767212, lr 0.0001
Epoch 100500, Loss 0.010008945129811764, lr 0.0001
Epoch 100600, Loss 0.010044867172837257, lr 0.0001
Epoch 100700, Loss 0.011764369904994965, lr 0.0001
Epoch 100800, Loss 0.010955315083265305, lr 0.0001
Epoch 100900, Loss 0.01004633679986, lr 0.0001
Epoch 101000, Loss 0.343549519777298, lr 0.0001
Epoch 101100, Loss 0.009963692165911198, lr 0.0001
Epoch 101200, Loss 0.06288966536521912, lr 0.0001
Epoch 101300, Loss 0.011213123798370361, lr 0.0001
Epoch 101400, Loss 0.013571633026003838, lr 0.0001
Epoch 101500, Loss 0.009985774755477905, lr 0.0001
Epoch 101600, Loss 0.03406689316034317, lr 0.0001
Epoch 101700, Loss 0.03056301921606064, lr 0.0001
Epoch 101800, Loss 0.009899727068841457, lr 0.0001
Epoch 101900, Loss 0.020704150199890137, lr 0.0001
Epoch 102000, Loss 0.02941235341131687, lr 0.0001
Epoch 102100, Loss 0.01679237186908722, lr 0.0001
Epoch 102200, Loss 0.009985586628317833, lr 0.0001
Epoch 102300, Loss 0.010072590783238411, lr 0.0001
Epoch 102400, Loss 0.01120142824947834, lr 0.0001
Epoch 102500, Loss 0.13939759135246277, lr 0.0001
Epoch 102600, Loss 0.09528621286153793, lr 0.0001
Epoch 102700, Loss 0.22870980203151703, lr 0.0001
Epoch 102800, Loss 0.03654902055859566, lr 0.0001

Epoch 102900, Loss 0.009990043006837368, lr 0.0001
Epoch 103000, Loss 0.0099855437874794, lr 0.0001
Epoch 103100, Loss 0.01636219210922718, lr 0.0001
Epoch 103200, Loss 0.11286269873380661, lr 0.0001
Epoch 103300, Loss 0.013343487866222858, lr 0.0001
Epoch 103400, Loss 0.010128121823072433, lr 0.0001
Epoch 103500, Loss 0.013394443318247795, lr 0.0001
Epoch 103600, Loss 0.021854378283023834, lr 0.0001
Epoch 103700, Loss 0.009980805218219757, lr 0.0001
Epoch 103800, Loss 0.009783889167010784, lr 0.0001
Epoch 103900, Loss 0.058274827897548676, lr 0.0001
Epoch 104000, Loss 0.01381013449281454, lr 0.0001
Epoch 104100, Loss 0.012438362464308739, lr 0.0001
Epoch 104200, Loss 0.037925805896520615, lr 0.0001
Epoch 104300, Loss 0.012524386867880821, lr 0.0001
Epoch 104400, Loss 0.014267957769334316, lr 0.0001
Epoch 104500, Loss 0.009883252903819084, lr 0.0001
Epoch 104600, Loss 0.011177070438861847, lr 0.0001
Epoch 104700, Loss 0.02348596602678299, lr 0.0001
Epoch 104800, Loss 0.1940118670463562, lr 0.0001
Epoch 104900, Loss 0.028820933774113655, lr 0.0001
Epoch 105000, Loss 0.10055803507566452, lr 0.0001
Epoch 105100, Loss 0.2571021020412445, lr 0.0001
Epoch 105200, Loss 0.013012544251978397, lr 0.0001
Epoch 105300, Loss 0.05889977887272835, lr 0.0001
Epoch 105400, Loss 0.009730332531034946, lr 0.0001
Epoch 105500, Loss 0.010077732615172863, lr 0.0001
Epoch 105600, Loss 0.013639002107083797, lr 0.0001
Epoch 105700, Loss 0.020439205691218376, lr 0.0001
Epoch 105800, Loss 0.0387185662984848, lr 0.0001
Epoch 105900, Loss 0.009722841903567314, lr 0.0001
Epoch 106000, Loss 0.08327746391296387, lr 0.0001
Epoch 106100, Loss 0.009652200154960155, lr 0.0001
Epoch 106200, Loss 0.580093264579773, lr 0.0001
Epoch 106300, Loss 0.009649564512073994, lr 0.0001
Epoch 106400, Loss 0.011799467727541924, lr 0.0001
Epoch 106500, Loss 0.05374275892972946, lr 0.0001
Epoch 106600, Loss 0.012514198198914528, lr 0.0001
Epoch 106700, Loss 0.009750261902809143, lr 0.0001
Epoch 106800, Loss 0.01146774087101221, lr 0.0001
Epoch 106900, Loss 0.08986853063106537, lr 0.0001
Epoch 107000, Loss 0.009630147367715836, lr 0.0001
Epoch 107100, Loss 0.026289205998182297, lr 0.0001
Epoch 107200, Loss 0.014517117291688919, lr 0.0001
Epoch 107300, Loss 0.009591284207999706, lr 0.0001
Epoch 107400, Loss 0.010219058953225613, lr 0.0001
Epoch 107500, Loss 0.009568172506988049, lr 0.0001
Epoch 107600, Loss 0.34771957993507385, lr 0.0001

Epoch 107700, Loss 0.009619178250432014, lr 0.0001
Epoch 107800, Loss 0.009554704651236534, lr 0.0001
Epoch 107900, Loss 0.3963409960269928, lr 0.0001
Epoch 108000, Loss 0.00955845694988966, lr 0.0001
Epoch 108100, Loss 0.09980858862400055, lr 0.0001
Epoch 108200, Loss 0.00955340825021267, lr 0.0001
Epoch 108300, Loss 0.009683573618531227, lr 0.0001
Epoch 108400, Loss 0.00972573459148407, lr 0.0001
Epoch 108500, Loss 0.018826158717274666, lr 0.0001
Epoch 108600, Loss 0.009514544159173965, lr 0.0001
Epoch 108700, Loss 0.1082097589969635, lr 0.0001
Epoch 108800, Loss 0.009515424259006977, lr 0.0001
Epoch 108900, Loss 0.009498898871243, lr 0.0001
Epoch 109000, Loss 0.012687427923083305, lr 0.0001
Epoch 109100, Loss 0.02081364393234253, lr 0.0001
Epoch 109200, Loss 0.009520725347101688, lr 0.0001
Epoch 109300, Loss 0.03869291767477989, lr 0.0001
Epoch 109400, Loss 0.01284312829375267, lr 0.0001
Epoch 109500, Loss 0.009544141590595245, lr 0.0001
Epoch 109600, Loss 0.018531791865825653, lr 0.0001
Epoch 109700, Loss 0.025230444967746735, lr 0.0001
Epoch 109800, Loss 0.009596931748092175, lr 0.0001
Epoch 109900, Loss 0.010640986263751984, lr 0.0001
Epoch 110000, Loss 0.06903091073036194, lr 0.0001
Epoch 110100, Loss 0.009461348876357079, lr 0.0001
Epoch 110200, Loss 0.1633293479681015, lr 0.0001
Epoch 110300, Loss 0.009450951591134071, lr 0.0001
Epoch 110400, Loss 0.009415910579264164, lr 0.0001
Epoch 110500, Loss 0.04128479212522507, lr 0.0001
Epoch 110600, Loss 0.009511882439255714, lr 0.0001
Epoch 110700, Loss 0.009405276738107204, lr 0.0001
Epoch 110800, Loss 0.00939775351434946, lr 0.0001
Epoch 110900, Loss 0.020061921328306198, lr 0.0001
Epoch 111000, Loss 0.009415214881300926, lr 0.0001
Epoch 111100, Loss 0.47841331362724304, lr 0.0001
Epoch 111200, Loss 0.009413424879312515, lr 0.0001
Epoch 111300, Loss 0.00994087103754282, lr 0.0001
Epoch 111400, Loss 0.23301711678504944, lr 0.0001
Epoch 111500, Loss 0.009381807409226894, lr 0.0001
Epoch 111600, Loss 0.07409904897212982, lr 0.0001
Epoch 111700, Loss 0.009430325590074062, lr 0.0001
Epoch 111800, Loss 0.009348982013761997, lr 0.0001
Epoch 111900, Loss 0.38836103677749634, lr 0.0001
Epoch 112000, Loss 0.009484521113336086, lr 0.0001
Epoch 112100, Loss 0.009957613423466682, lr 0.0001
Epoch 112200, Loss 0.07948460429906845, lr 0.0001
Epoch 112300, Loss 0.1047290712594986, lr 0.0001
Epoch 112400, Loss 0.2972879111766815, lr 0.0001

Epoch 112500, Loss 0.0095450971275568, lr 0.0001
Epoch 112600, Loss 0.009317564778029919, lr 0.0001
Epoch 112700, Loss 0.026684805750846863, lr 0.0001
Epoch 112800, Loss 0.00929704774171114, lr 0.0001
Epoch 112900, Loss 0.5872402191162109, lr 0.0001
Epoch 113000, Loss 0.009317540563642979, lr 0.0001
Epoch 113100, Loss 0.009289128705859184, lr 0.0001
Epoch 113200, Loss 0.009293105453252792, lr 0.0001
Epoch 113300, Loss 0.016678795218467712, lr 0.0001
Epoch 113400, Loss 0.033669158816337585, lr 0.0001
Epoch 113500, Loss 0.009335006587207317, lr 0.0001
Epoch 113600, Loss 0.009278875775635242, lr 0.0001
Epoch 113700, Loss 0.009323498234152794, lr 0.0001
Epoch 113800, Loss 0.014016175642609596, lr 0.0001
Epoch 113900, Loss 0.012109145522117615, lr 0.0001
Epoch 114000, Loss 0.009582375176250935, lr 0.0001
Epoch 114100, Loss 0.009960842318832874, lr 0.0001
Epoch 114200, Loss 0.015347655862569809, lr 0.0001
Epoch 114300, Loss 0.01790902577340603, lr 0.0001
Epoch 114400, Loss 0.009676902554929256, lr 0.0001
Epoch 114500, Loss 0.039365872740745544, lr 0.0001
Epoch 114600, Loss 0.009300663135945797, lr 0.0001
Epoch 114700, Loss 0.009403372183442116, lr 0.0001
Epoch 114800, Loss 0.03821142762899399, lr 0.0001
Epoch 114900, Loss 0.010727438144385815, lr 0.0001
Epoch 115000, Loss 0.009205924347043037, lr 0.0001
Epoch 115100, Loss 0.4510108530521393, lr 0.0001
Epoch 115200, Loss 0.009183652698993683, lr 0.0001
Epoch 115300, Loss 0.06726077198982239, lr 0.0001
Epoch 115400, Loss 0.013993090018630028, lr 0.0001
Epoch 115500, Loss 0.009176951833069324, lr 0.0001
Epoch 115600, Loss 0.106380894780159, lr 0.0001
Epoch 115700, Loss 0.009173845872282982, lr 0.0001
Epoch 115800, Loss 0.009156719781458378, lr 0.0001
Epoch 115900, Loss 0.010682376101613045, lr 0.0001
Epoch 116000, Loss 0.009152231737971306, lr 0.0001
Epoch 116100, Loss 0.00932239554822445, lr 0.0001
Epoch 116200, Loss 0.00922357477247715, lr 0.0001
Epoch 116300, Loss 0.010926562361419201, lr 0.0001
Epoch 116400, Loss 0.009801937267184258, lr 0.0001
Epoch 116500, Loss 0.00967974029481411, lr 0.0001
Epoch 116600, Loss 0.015121166594326496, lr 0.0001
Epoch 116700, Loss 0.023236162960529327, lr 0.0001
Epoch 116800, Loss 0.009600739926099777, lr 0.0001
Epoch 116900, Loss 0.02053089439868927, lr 0.0001
Epoch 117000, Loss 0.00912279263138771, lr 0.0001
Epoch 117100, Loss 0.01036425493657589, lr 0.0001
Epoch 117200, Loss 0.023353151977062225, lr 0.0001

Epoch 117300, Loss 0.0276787206530571, lr 0.0001
Epoch 117400, Loss 0.1258382350206375, lr 0.0001
Epoch 117500, Loss 0.019768137484788895, lr 0.0001
Epoch 117600, Loss 0.009167245589196682, lr 0.0001
Epoch 117700, Loss 0.012729299254715443, lr 0.0001
Epoch 117800, Loss 0.009869915433228016, lr 0.0001
Epoch 117900, Loss 0.009263459593057632, lr 0.0001
Epoch 118000, Loss 0.011240243911743164, lr 0.0001
Epoch 118100, Loss 0.0767044872045517, lr 0.0001
Epoch 118200, Loss 0.011871660128235817, lr 0.0001
Epoch 118300, Loss 0.00927823968231678, lr 0.0001
Epoch 118400, Loss 0.01766018755733967, lr 0.0001
Epoch 118500, Loss 0.009058600291609764, lr 0.0001
Epoch 118600, Loss 0.009305022656917572, lr 0.0001
Epoch 118700, Loss 0.06745659559965134, lr 0.0001
Epoch 118800, Loss 0.01566299982368946, lr 0.0001
Epoch 118900, Loss 0.14464785158634186, lr 0.0001
Epoch 119000, Loss 0.009016239084303379, lr 0.0001
Epoch 119100, Loss 0.01591803878545761, lr 0.0001
Epoch 119200, Loss 0.010950514115393162, lr 0.0001
Epoch 119300, Loss 0.028647851198911667, lr 0.0001
Epoch 119400, Loss 0.009003019891679287, lr 0.0001
Epoch 119500, Loss 0.01043875515460968, lr 0.0001
Epoch 119600, Loss 0.009328886866569519, lr 0.0001
Epoch 119700, Loss 0.009153300896286964, lr 0.0001
Epoch 119800, Loss 0.008976565673947334, lr 0.0001
Epoch 119900, Loss 0.010998154990375042, lr 0.0001
Epoch 120000, Loss 0.008969120681285858, lr 0.0001
Epoch 120100, Loss 0.06860745698213577, lr 0.0001
Epoch 120200, Loss 0.11949478834867477, lr 0.0001
Epoch 120300, Loss 0.040834713727235794, lr 0.0001
Epoch 120400, Loss 0.00922861322760582, lr 0.0001
Epoch 120500, Loss 0.009789063595235348, lr 0.0001
Epoch 120600, Loss 0.009373879060149193, lr 0.0001
Epoch 120700, Loss 0.03346480429172516, lr 0.0001
Epoch 120800, Loss 0.008928615599870682, lr 0.0001
Epoch 120900, Loss 0.009443959221243858, lr 0.0001
Epoch 121000, Loss 0.009355624206364155, lr 0.0001
Epoch 121100, Loss 0.878147304058075, lr 0.0001
Epoch 121200, Loss 0.008921468630433083, lr 0.0001
Epoch 121300, Loss 0.010685769841074944, lr 0.0001
Epoch 121400, Loss 0.009516458958387375, lr 0.0001
Epoch 121500, Loss 0.011518094688653946, lr 0.0001
Epoch 121600, Loss 0.009147349745035172, lr 0.0001
Epoch 121700, Loss 0.009318985044956207, lr 0.0001
Epoch 121800, Loss 0.010876554064452648, lr 0.0001
Epoch 121900, Loss 0.012353255413472652, lr 0.0001
Epoch 122000, Loss 0.10285712033510208, lr 0.0001

Epoch 122100, Loss 0.6047082543373108, lr 0.0001
Epoch 122200, Loss 0.009220038540661335, lr 0.0001
Epoch 122300, Loss 0.03133131563663483, lr 0.0001
Epoch 122400, Loss 0.008920621126890182, lr 0.0001
Epoch 122500, Loss 0.05221204087138176, lr 0.0001
Epoch 122600, Loss 0.015223508700728416, lr 0.0001
Epoch 122700, Loss 0.01670427992939949, lr 0.0001
Epoch 122800, Loss 0.008947329595685005, lr 0.0001
Epoch 122900, Loss 0.027460211887955666, lr 0.0001
Epoch 123000, Loss 0.058839745819568634, lr 0.0001
Epoch 123100, Loss 0.12734216451644897, lr 0.0001
Epoch 123200, Loss 0.00890042632818222, lr 0.0001
Epoch 123300, Loss 0.011393907479941845, lr 0.0001
Epoch 123400, Loss 0.009182916954159737, lr 0.0001
Epoch 123500, Loss 0.008932343684136868, lr 0.0001
Epoch 123600, Loss 0.00883613433688879, lr 0.0001
Epoch 123700, Loss 0.00899028405547142, lr 0.0001
Epoch 123800, Loss 0.008806867524981499, lr 0.0001
Epoch 123900, Loss 0.008800536394119263, lr 0.0001
Epoch 124000, Loss 0.012010268867015839, lr 0.0001
Epoch 124100, Loss 0.00879842508584261, lr 0.0001
Epoch 124200, Loss 0.008806493133306503, lr 0.0001
Epoch 124300, Loss 0.008795750327408314, lr 0.0001
Epoch 124400, Loss 0.009438387118279934, lr 0.0001
Epoch 124500, Loss 0.01836809515953064, lr 0.0001
Epoch 124600, Loss 0.029783492907881737, lr 0.0001
Epoch 124700, Loss 0.0245223231613636, lr 0.0001
Epoch 124800, Loss 0.009868334047496319, lr 0.0001
Epoch 124900, Loss 0.009179123677313328, lr 0.0001
Epoch 125000, Loss 0.00877874530851841, lr 0.0001
Epoch 125100, Loss 0.08631569892168045, lr 0.0001
Epoch 125200, Loss 0.1144971251487732, lr 0.0001
Epoch 125300, Loss 0.008763017132878304, lr 0.0001
Epoch 125400, Loss 0.008764066733419895, lr 0.0001
Epoch 125500, Loss 0.015330863185226917, lr 0.0001
Epoch 125600, Loss 0.014868051744997501, lr 0.0001
Epoch 125700, Loss 0.008821552619338036, lr 0.0001
Epoch 125800, Loss 0.17417234182357788, lr 0.0001
Epoch 125900, Loss 0.008759609423577785, lr 0.0001
Epoch 126000, Loss 0.008811977691948414, lr 0.0001
Epoch 126100, Loss 0.07838230580091476, lr 0.0001
Epoch 126200, Loss 0.04609076678752899, lr 0.0001
Epoch 126300, Loss 0.043604012578725815, lr 0.0001
Epoch 126400, Loss 0.00885126180946827, lr 0.0001
Epoch 126500, Loss 0.03334252908825874, lr 0.0001
Epoch 126600, Loss 0.008695265278220177, lr 0.0001
Epoch 126700, Loss 0.01824944280087948, lr 0.0001
Epoch 126800, Loss 0.008691040799021721, lr 0.0001

Epoch 126900, Loss 0.01653856597840786, lr 0.0001
Epoch 127000, Loss 0.008677421137690544, lr 0.0001
Epoch 127100, Loss 0.1369657814502716, lr 0.0001
Epoch 127200, Loss 0.008674928918480873, lr 0.0001
Epoch 127300, Loss 0.008675127290189266, lr 0.0001
Epoch 127400, Loss 0.013026786036789417, lr 0.0001
Epoch 127500, Loss 0.00905294343829155, lr 0.0001
Epoch 127600, Loss 0.009177489206194878, lr 0.0001
Epoch 127700, Loss 0.026921795681118965, lr 0.0001
Epoch 127800, Loss 0.03416238725185394, lr 0.0001
Epoch 127900, Loss 0.008654171600937843, lr 0.0001
Epoch 128000, Loss 0.008842317387461662, lr 0.0001
Epoch 128100, Loss 0.008670883253216743, lr 0.0001
Epoch 128200, Loss 0.05508652701973915, lr 0.0001
Epoch 128300, Loss 0.008629036135971546, lr 0.0001
Epoch 128400, Loss 0.1428927481174469, lr 0.0001
Epoch 128500, Loss 0.00869557075202465, lr 0.0001
Epoch 128600, Loss 0.014686768874526024, lr 0.0001
Epoch 128700, Loss 0.008615930564701557, lr 0.0001
Epoch 128800, Loss 0.009945404715836048, lr 0.0001
Epoch 128900, Loss 0.022929029539227486, lr 0.0001
Epoch 129000, Loss 0.027948396280407906, lr 0.0001
Epoch 129100, Loss 0.019396042451262474, lr 0.0001
Epoch 129200, Loss 0.010722413659095764, lr 0.0001
Epoch 129300, Loss 0.008782022632658482, lr 0.0001
Epoch 129400, Loss 0.009327199310064316, lr 0.0001
Epoch 129500, Loss 0.00983466301113367, lr 0.0001
Epoch 129600, Loss 0.008627712726593018, lr 0.0001
Epoch 129700, Loss 0.009355453774333, lr 0.0001
Epoch 129800, Loss 0.012096745893359184, lr 0.0001
Epoch 129900, Loss 0.008902894333004951, lr 0.0001
Epoch 130000, Loss 0.00931166484951973, lr 0.0001
Epoch 130100, Loss 0.11677788197994232, lr 0.0001
Epoch 130200, Loss 0.00856450479477644, lr 0.0001
Epoch 130300, Loss 0.03753175958991051, lr 0.0001
Epoch 130400, Loss 0.012577422894537449, lr 0.0001
Epoch 130500, Loss 0.008954666554927826, lr 0.0001
Epoch 130600, Loss 0.014617180451750755, lr 0.0001
Epoch 130700, Loss 0.008757760748267174, lr 0.0001
Epoch 130800, Loss 0.02162008546292782, lr 0.0001
Epoch 130900, Loss 0.00853714719414711, lr 0.0001
Epoch 131000, Loss 0.027994783595204353, lr 0.0001
Epoch 131100, Loss 0.008524264208972454, lr 0.0001
Epoch 131200, Loss 0.013682026416063309, lr 0.0001
Epoch 131300, Loss 0.008512704633176327, lr 0.0001
Epoch 131400, Loss 0.010863500647246838, lr 0.0001
Epoch 131500, Loss 0.08661921322345734, lr 0.0001
Epoch 131600, Loss 0.008504461497068405, lr 0.0001

Epoch 131700, Loss 0.4899166226387024, lr 0.0001
Epoch 131800, Loss 0.008504430763423443, lr 0.0001
Epoch 131900, Loss 0.013546811416745186, lr 0.0001
Epoch 132000, Loss 0.00848974846303463, lr 0.0001
Epoch 132100, Loss 0.03565173223614693, lr 0.0001
Epoch 132200, Loss 0.00848059356212616, lr 0.0001
Epoch 132300, Loss 0.00847547221928835, lr 0.0001
Epoch 132400, Loss 0.009518508799374104, lr 0.0001
Epoch 132500, Loss 0.008467113599181175, lr 0.0001
Epoch 132600, Loss 0.046960897743701935, lr 0.0001
Epoch 132700, Loss 0.008466165512800217, lr 0.0001
Epoch 132800, Loss 0.008461596444249153, lr 0.0001
Epoch 132900, Loss 0.008508277125656605, lr 0.0001
Epoch 133000, Loss 0.04444145783782005, lr 0.0001
Epoch 133100, Loss 0.012689282186329365, lr 0.0001
Epoch 133200, Loss 0.008563283830881119, lr 0.0001
Epoch 133300, Loss 0.015652963891625404, lr 0.0001
Epoch 133400, Loss 0.1554533988237381, lr 0.0001
Epoch 133500, Loss 0.02639051340520382, lr 0.0001
Epoch 133600, Loss 0.010036074556410313, lr 0.0001
Epoch 133700, Loss 0.008565354160964489, lr 0.0001
Epoch 133800, Loss 0.020622460171580315, lr 0.0001
Epoch 133900, Loss 0.009637990966439247, lr 0.0001
Epoch 134000, Loss 0.00863878894597292, lr 0.0001
Epoch 134100, Loss 0.0086452541872859, lr 0.0001
Epoch 134200, Loss 0.00870888028293848, lr 0.0001
Epoch 134300, Loss 0.06253862380981445, lr 0.0001
Epoch 134400, Loss 0.00840306282043457, lr 0.0001
Epoch 134500, Loss 0.011146370321512222, lr 0.0001
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Epoch 134700, Loss 0.008846359327435493, lr 0.0001
Epoch 134800, Loss 0.011307969689369202, lr 0.0001
Epoch 134900, Loss 0.00839846208691597, lr 0.0001
Epoch 135000, Loss 0.014183193445205688, lr 0.0001
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Epoch 135200, Loss 0.008627630770206451, lr 0.0001
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Epoch 135500, Loss 0.008385258726775646, lr 0.0001
Epoch 135600, Loss 0.0647028386592865, lr 0.0001
Epoch 135700, Loss 0.08227846771478653, lr 0.0001
Epoch 135800, Loss 0.07703055441379547, lr 0.0001
Epoch 135900, Loss 0.01677630841732025, lr 0.0001
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Epoch 136200, Loss 0.008355287835001945, lr 0.0001
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Epoch 136800, Loss 0.00831655040383339, lr 0.0001
Epoch 136900, Loss 0.01802738383412361, lr 0.0001
Epoch 137000, Loss 0.01648470014333725, lr 0.0001
Epoch 137100, Loss 0.00830420758575201, lr 0.0001
Epoch 137200, Loss 0.018883761018514633, lr 0.0001
Epoch 137300, Loss 0.008301879279315472, lr 0.0001
Epoch 137400, Loss 0.18105529248714447, lr 0.0001
Epoch 137500, Loss 0.008306309580802917, lr 0.0001
Epoch 137600, Loss 0.008294870145618916, lr 0.0001
Epoch 137700, Loss 0.008291645906865597, lr 0.0001
Epoch 137800, Loss 0.014745861291885376, lr 0.0001
Epoch 137900, Loss 0.043429527431726456, lr 0.0001
Epoch 138000, Loss 0.06677062064409256, lr 0.0001
Epoch 138100, Loss 0.0839914008975029, lr 0.0001
Epoch 138200, Loss 0.0872383862733841, lr 0.0001
Epoch 138300, Loss 0.056019127368927, lr 0.0001
Epoch 138400, Loss 0.3003482222557068, lr 0.0001
Epoch 138500, Loss 0.008289443328976631, lr 0.0001
Epoch 138600, Loss 0.008437788113951683, lr 0.0001
Epoch 138700, Loss 0.00853924360126257, lr 0.0001
Epoch 138800, Loss 0.015555116347968578, lr 0.0001
Epoch 138900, Loss 0.008399765007197857, lr 0.0001
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Epoch 139300, Loss 0.06783290207386017, lr 0.0001
Epoch 139400, Loss 0.04221449792385101, lr 0.0001
Epoch 139500, Loss 0.008461876772344112, lr 0.0001
Epoch 139600, Loss 0.008336742408573627, lr 0.0001
Epoch 139700, Loss 0.011252540163695812, lr 0.0001
Epoch 139800, Loss 0.008262594230473042, lr 0.0001
Epoch 139900, Loss 0.01738419011235237, lr 0.0001
Epoch 140000, Loss 0.011519962921738625, lr 0.0001
Epoch 140100, Loss 0.008239391259849072, lr 0.0001
Epoch 140200, Loss 0.019909778609871864, lr 0.0001
Epoch 140300, Loss 0.008227277547121048, lr 0.0001
Epoch 140400, Loss 0.039064671844244, lr 0.0001
Epoch 140500, Loss 0.015019472688436508, lr 0.0001
Epoch 140600, Loss 0.008244890719652176, lr 0.0001
Epoch 140700, Loss 0.021358899772167206, lr 0.0001
Epoch 140800, Loss 0.014404297806322575, lr 0.0001
Epoch 140900, Loss 0.049547962844371796, lr 0.0001
Epoch 141000, Loss 0.008183464407920837, lr 0.0001
Epoch 141100, Loss 0.011013085022568703, lr 0.0001
Epoch 141200, Loss 0.008234365843236446, lr 0.0001

Epoch 141300, Loss 0.008167887106537819, lr 0.0001
Epoch 141400, Loss 0.011083569377660751, lr 0.0001
Epoch 141500, Loss 0.008160186000168324, lr 0.0001
Epoch 141600, Loss 0.008428000845015049, lr 0.0001
Epoch 141700, Loss 0.26001790165901184, lr 0.0001
Epoch 141800, Loss 0.034155573695898056, lr 0.0001
Epoch 141900, Loss 0.008243175223469734, lr 0.0001
Epoch 142000, Loss 0.009510726667940617, lr 0.0001
Epoch 142100, Loss 0.009324442595243454, lr 0.0001
Epoch 142200, Loss 0.008669978938996792, lr 0.0001
Epoch 142300, Loss 0.11728517711162567, lr 0.0001
Epoch 142400, Loss 0.014587893150746822, lr 0.0001
Epoch 142500, Loss 0.013656485825777054, lr 0.0001
Epoch 142600, Loss 0.042061448097229004, lr 0.0001
Epoch 142700, Loss 0.008134358562529087, lr 0.0001
Epoch 142800, Loss 0.008210853673517704, lr 0.0001
Epoch 142900, Loss 0.018333502113819122, lr 0.0001
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Epoch 143100, Loss 0.010086823254823685, lr 0.0001
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Epoch 143300, Loss 0.06100671738386154, lr 0.0001
Epoch 143400, Loss 0.009290989488363266, lr 0.0001
Epoch 143500, Loss 0.00868819560855627, lr 0.0001
Epoch 143600, Loss 0.008117151446640491, lr 0.0001
Epoch 143700, Loss 0.16524703800678253, lr 0.0001
Epoch 143800, Loss 0.00811946764588356, lr 0.0001
Epoch 143900, Loss 0.008088440634310246, lr 0.0001
Epoch 144000, Loss 0.13311149179935455, lr 0.0001
Epoch 144100, Loss 0.008079815655946732, lr 0.0001
Epoch 144200, Loss 0.008080498315393925, lr 0.0001
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Epoch 144500, Loss 0.010579895228147507, lr 0.0001
Epoch 144600, Loss 0.008066193200647831, lr 0.0001
Epoch 144700, Loss 0.008455920033156872, lr 0.0001
Epoch 144800, Loss 0.008060483261942863, lr 0.0001
Epoch 144900, Loss 0.016390934586524963, lr 0.0001
Epoch 145000, Loss 0.008541679941117764, lr 0.0001
Epoch 145100, Loss 0.019290244206786156, lr 0.0001
Epoch 145200, Loss 0.008122771978378296, lr 0.0001
Epoch 145300, Loss 0.008075129240751266, lr 0.0001
Epoch 145400, Loss 0.01991899497807026, lr 0.0001
Epoch 145500, Loss 0.00808035023510456, lr 0.0001
Epoch 145600, Loss 0.008034715428948402, lr 0.0001
Epoch 145700, Loss 0.017593970522284508, lr 0.0001
Epoch 145800, Loss 0.10958847403526306, lr 0.0001
Epoch 145900, Loss 0.008077884092926979, lr 0.0001
Epoch 146000, Loss 0.06922241300344467, lr 0.0001

Epoch 146100, Loss 0.01876402273774147, lr 0.0001
Epoch 146200, Loss 0.008196365088224411, lr 0.0001
Epoch 146300, Loss 0.05395795777440071, lr 0.0001
Epoch 146400, Loss 0.008021823130548, lr 0.0001
Epoch 146500, Loss 0.045616913586854935, lr 0.0001
Epoch 146600, Loss 0.0761420801281929, lr 0.0001
Epoch 146700, Loss 0.00813248846679926, lr 0.0001
Epoch 146800, Loss 0.008482544682919979, lr 0.0001
Epoch 146900, Loss 0.018977444618940353, lr 0.0001
Epoch 147000, Loss 0.007996639236807823, lr 0.0001
Epoch 147100, Loss 0.03342149779200554, lr 0.0001
Epoch 147200, Loss 0.020642686635255814, lr 0.0001
Epoch 147300, Loss 0.045648250728845596, lr 0.0001
Epoch 147400, Loss 0.022455621510744095, lr 0.0001
Epoch 147500, Loss 0.28522875905036926, lr 0.0001
Epoch 147600, Loss 0.00799008272588253, lr 0.0001
Epoch 147700, Loss 0.019501250237226486, lr 0.0001
Epoch 147800, Loss 0.007969016209244728, lr 0.0001
Epoch 147900, Loss 1.0370471477508545, lr 0.0001
Epoch 148000, Loss 0.007987583987414837, lr 0.0001
Epoch 148100, Loss 0.007959104143083096, lr 0.0001
Epoch 148200, Loss 0.007975288666784763, lr 0.0001
Epoch 148300, Loss 0.008282956667244434, lr 0.0001
Epoch 148400, Loss 0.007951716892421246, lr 0.0001
Epoch 148500, Loss 0.007949411869049072, lr 0.0001
Epoch 148600, Loss 0.007958418689668179, lr 0.0001
Epoch 148700, Loss 0.007943185046315193, lr 0.0001
Epoch 148800, Loss 0.09221670776605606, lr 0.0001
Epoch 148900, Loss 0.007943122647702694, lr 0.0001
Epoch 149000, Loss 0.1923827826976776, lr 0.0001
Epoch 149100, Loss 0.021489204838871956, lr 0.0001
Epoch 149200, Loss 0.009214481338858604, lr 0.0001
Epoch 149300, Loss 0.008035104721784592, lr 0.0001
Epoch 149400, Loss 0.0457676537334919, lr 0.0001
Epoch 149500, Loss 0.015778088942170143, lr 0.0001
Epoch 149600, Loss 0.03532678633928299, lr 0.0001
Epoch 149700, Loss 0.06535948067903519, lr 0.0001
Epoch 149800, Loss 0.035375092178583145, lr 0.0001
Epoch 149900, Loss 0.4428049921989441, lr 0.0001
Epoch 150000, Loss 0.007947984151542187, lr 0.0001
Epoch 150100, Loss 0.008189779706299305, lr 0.0001
Epoch 150200, Loss 0.2623383104801178, lr 0.0001
Epoch 150300, Loss 0.007897098548710346, lr 0.0001
Epoch 150400, Loss 0.034481748938560486, lr 0.0001
Epoch 150500, Loss 0.008321521803736687, lr 0.0001
Epoch 150600, Loss 0.013330756686627865, lr 0.0001
Epoch 150700, Loss 0.19844652712345123, lr 0.0001
Epoch 150800, Loss 0.00792040303349495, lr 0.0001

Epoch 150900, Loss 0.007878437638282776, lr 0.0001
Epoch 151000, Loss 0.007923542521893978, lr 0.0001
Epoch 151100, Loss 0.00787302851676941, lr 0.0001
Epoch 151200, Loss 0.007870356552302837, lr 0.0001
Epoch 151300, Loss 0.009772281162440777, lr 0.0001
Epoch 151400, Loss 0.00839605089277029, lr 0.0001
Epoch 151500, Loss 0.21140962839126587, lr 0.0001
Epoch 151600, Loss 0.007857891730964184, lr 0.0001
Epoch 151700, Loss 0.11341236531734467, lr 0.0001
Epoch 151800, Loss 0.007852117531001568, lr 0.0001
Epoch 151900, Loss 0.46562230587005615, lr 0.0001
Epoch 152000, Loss 0.007903147488832474, lr 0.0001
Epoch 152100, Loss 0.007844985462725163, lr 0.0001
Epoch 152200, Loss 0.007842210121452808, lr 0.0001
Epoch 152300, Loss 0.057181090116500854, lr 0.0001
Epoch 152400, Loss 0.007842387072741985, lr 0.0001
Epoch 152500, Loss 0.8048341274261475, lr 0.0001
Epoch 152600, Loss 0.007860230281949043, lr 0.0001
Epoch 152700, Loss 0.007830747403204441, lr 0.0001
Epoch 152800, Loss 0.136396586894989, lr 0.0001
Epoch 152900, Loss 0.007829397916793823, lr 0.0001
Epoch 153000, Loss 0.007820174098014832, lr 0.0001
Epoch 153100, Loss 0.09578947722911835, lr 0.0001
Epoch 153200, Loss 0.3815813660621643, lr 0.0001
Epoch 153300, Loss 0.007970309816300869, lr 0.0001
Epoch 153400, Loss 0.008014737628400326, lr 0.0001
Epoch 153500, Loss 0.008654422126710415, lr 0.0001
Epoch 153600, Loss 0.5680578351020813, lr 0.0001
Epoch 153700, Loss 0.007880164310336113, lr 0.0001
Epoch 153800, Loss 0.2884671986103058, lr 0.0001
Epoch 153900, Loss 0.00780333299189806, lr 0.0001
Epoch 154000, Loss 0.034045327454805374, lr 0.0001
Epoch 154100, Loss 0.007793321739882231, lr 0.0001
Epoch 154200, Loss 0.0082112280651927, lr 0.0001
Epoch 154300, Loss 0.007791148964315653, lr 0.0001
Epoch 154400, Loss 0.008806719444692135, lr 0.0001
Epoch 154500, Loss 0.007778985891491175, lr 0.0001
Epoch 154600, Loss 0.01656208001077175, lr 0.0001
Epoch 154700, Loss 0.007781491614878178, lr 0.0001
Epoch 154800, Loss 0.007840268313884735, lr 0.0001
Epoch 154900, Loss 0.007770839612931013, lr 0.0001
Epoch 155000, Loss 0.009662888012826443, lr 0.0001
Epoch 155100, Loss 0.00776617880910635, lr 0.0001
Epoch 155200, Loss 0.9809855222702026, lr 0.0001
Epoch 155300, Loss 0.007778378203511238, lr 0.0001
Epoch 155400, Loss 0.011535106226801872, lr 0.0001
Epoch 155500, Loss 0.008626800961792469, lr 0.0001
Epoch 155600, Loss 0.007809753064066172, lr 0.0001

Epoch 155700, Loss 0.06314337998628616, lr 0.0001
Epoch 155800, Loss 0.3745921552181244, lr 0.0001
Epoch 155900, Loss 0.007758485618978739, lr 0.0001
Epoch 156000, Loss 0.022685375064611435, lr 0.0001
Epoch 156100, Loss 0.007741008885204792, lr 0.0001
Epoch 156200, Loss 0.007968633435666561, lr 0.0001
Epoch 156300, Loss 0.007732834201306105, lr 0.0001
Epoch 156400, Loss 0.022511808201670647, lr 0.0001
Epoch 156500, Loss 0.007725854404270649, lr 0.0001
Epoch 156600, Loss 0.007723431568592787, lr 0.0001
Epoch 156700, Loss 0.1212558001279831, lr 0.0001
Epoch 156800, Loss 0.08738166093826294, lr 0.0001
Epoch 156900, Loss 0.025489632040262222, lr 0.0001
Epoch 157000, Loss 0.008229558356106281, lr 0.0001
Epoch 157100, Loss 0.007840296253561974, lr 0.0001
Epoch 157200, Loss 0.0141867371276021, lr 0.0001
Epoch 157300, Loss 0.007704862859100103, lr 0.0001
Epoch 157400, Loss 0.18429191410541534, lr 0.0001
Epoch 157500, Loss 0.007714110892266035, lr 0.0001
Epoch 157600, Loss 0.00967892725020647, lr 0.0001
Epoch 157700, Loss 0.019599393010139465, lr 0.0001
Epoch 157800, Loss 0.0077387746423482895, lr 0.0001
Epoch 157900, Loss 0.024303236976265907, lr 0.0001
Epoch 158000, Loss 0.007723303511738777, lr 0.0001
Epoch 158100, Loss 0.008951920084655285, lr 0.0001
Epoch 158200, Loss 0.022968102246522903, lr 0.0001
Epoch 158300, Loss 0.010615961626172066, lr 0.0001
Epoch 158400, Loss 0.028512269258499146, lr 0.0001
Epoch 158500, Loss 0.007782199420034885, lr 0.0001
Epoch 158600, Loss 0.040404122322797775, lr 0.0001
Epoch 158700, Loss 0.00766891660168767, lr 0.0001
Epoch 158800, Loss 0.01281095203012228, lr 0.0001
Epoch 158900, Loss 0.0080726882442832, lr 0.0001
Epoch 159000, Loss 0.011432263068854809, lr 0.0001
Epoch 159100, Loss 0.0462971031665802, lr 0.0001
Epoch 159200, Loss 0.0076692732982337475, lr 0.0001
Epoch 159300, Loss 1.7349762916564941, lr 0.0001
Epoch 159400, Loss 0.007653126027435064, lr 0.0001
Epoch 159500, Loss 0.007647133897989988, lr 0.0001
Epoch 159600, Loss 0.007652783766388893, lr 0.0001
Epoch 159700, Loss 0.011245428584516048, lr 0.0001
Epoch 159800, Loss 0.5071973204612732, lr 0.0001
Epoch 159900, Loss 0.007679297123104334, lr 0.0001
Epoch 160000, Loss 0.01974250189960003, lr 0.0001
Epoch 160100, Loss 0.007671038154512644, lr 0.0001
Epoch 160200, Loss 0.007785831578075886, lr 0.0001
Epoch 160300, Loss 0.008745734579861164, lr 0.0001
Epoch 160400, Loss 0.07378523796796799, lr 0.0001

Epoch 160500, Loss 0.007718692068010569, lr 0.0001
Epoch 160600, Loss 0.00822194293141365, lr 0.0001
Epoch 160700, Loss 0.2363320291042328, lr 0.0001
Epoch 160800, Loss 0.007821428589522839, lr 0.0001
Epoch 160900, Loss 0.008000936359167099, lr 0.0001
Epoch 161000, Loss 0.019521348178386688, lr 0.0001
Epoch 161100, Loss 0.007601178716868162, lr 0.0001
Epoch 161200, Loss 0.07823935896158218, lr 0.0001
Epoch 161300, Loss 0.007604706101119518, lr 0.0001
Epoch 161400, Loss 0.007597759831696749, lr 0.0001
Epoch 161500, Loss 0.007598100695759058, lr 0.0001
Epoch 161600, Loss 0.008865502662956715, lr 0.0001
Epoch 161700, Loss 0.007592229172587395, lr 0.0001
Epoch 161800, Loss 0.4075031280517578, lr 0.0001
Epoch 161900, Loss 0.007596836891025305, lr 0.0001
Epoch 162000, Loss 0.007582149002701044, lr 0.0001
Epoch 162100, Loss 0.011949896812438965, lr 0.0001
Epoch 162200, Loss 0.007579055614769459, lr 0.0001
Epoch 162300, Loss 0.007582288235425949, lr 0.0001
Epoch 162400, Loss 0.0075786905363202095, lr 0.0001
Epoch 162500, Loss 0.0087397750467062, lr 0.0001
Epoch 162600, Loss 0.007926364429295063, lr 0.0001
Epoch 162700, Loss 0.01798991672694683, lr 0.0001
Epoch 162800, Loss 0.1805051863193512, lr 0.0001
Epoch 162900, Loss 0.007581464480608702, lr 0.0001
Epoch 163000, Loss 0.010564319789409637, lr 0.0001
Epoch 163100, Loss 0.007574460003525019, lr 0.0001
Epoch 163200, Loss 0.008012593723833561, lr 0.0001
Epoch 163300, Loss 0.22611276805400848, lr 0.0001
Epoch 163400, Loss 0.007562166545540094, lr 0.0001
Epoch 163500, Loss 0.009303886443376541, lr 0.0001
Epoch 163600, Loss 0.009355302900075912, lr 0.0001
Epoch 163700, Loss 0.009250640869140625, lr 0.0001
Epoch 163800, Loss 0.012270488776266575, lr 0.0001
Epoch 163900, Loss 0.008547409437596798, lr 0.0001
Epoch 164000, Loss 0.00946993287652731, lr 0.0001
Epoch 164100, Loss 0.007901743054389954, lr 0.0001
Epoch 164200, Loss 0.11170115321874619, lr 0.0001
Epoch 164300, Loss 0.04128095880150795, lr 0.0001
Epoch 164400, Loss 0.008898369036614895, lr 0.0001
Epoch 164500, Loss 0.007571464870125055, lr 0.0001
Epoch 164600, Loss 0.007515525445342064, lr 0.0001
Epoch 164700, Loss 0.011611994355916977, lr 0.0001
Epoch 164800, Loss 0.007513709366321564, lr 0.0001
Epoch 164900, Loss 0.007615997456014156, lr 0.0001
Epoch 165000, Loss 0.00752632599323988, lr 0.0001
Epoch 165100, Loss 0.012367150746285915, lr 0.0001
Epoch 165200, Loss 0.007674910128116608, lr 0.0001

Epoch 165300, Loss 0.007556544616818428, lr 0.0001
Epoch 165400, Loss 0.06450144946575165, lr 0.0001
Epoch 165500, Loss 0.0075003961101174355, lr 0.0001
Epoch 165600, Loss 0.10315060615539551, lr 0.0001
Epoch 165700, Loss 0.007497821003198624, lr 0.0001
Epoch 165800, Loss 0.014602464623749256, lr 0.0001
Epoch 165900, Loss 0.007534414064139128, lr 0.0001
Epoch 166000, Loss 0.008593452163040638, lr 0.0001
Epoch 166100, Loss 0.016243962571024895, lr 0.0001
Epoch 166200, Loss 0.03234323486685753, lr 0.0001
Epoch 166300, Loss 0.12254742532968521, lr 0.0001
Epoch 166400, Loss 0.007493047043681145, lr 0.0001
Epoch 166500, Loss 0.007745607756078243, lr 0.0001
Epoch 166600, Loss 0.01815817691385746, lr 0.0001
Epoch 166700, Loss 0.00773440208286047, lr 0.0001
Epoch 166800, Loss 0.007780576590448618, lr 0.0001
Epoch 166900, Loss 0.05342860147356987, lr 0.0001
Epoch 167000, Loss 0.056479863822460175, lr 0.0001
Epoch 167100, Loss 0.022070836275815964, lr 0.0001
Epoch 167200, Loss 0.043388497084379196, lr 0.0001
Epoch 167300, Loss 0.02205963246524334, lr 0.0001
Epoch 167400, Loss 0.030717255547642708, lr 0.0001
Epoch 167500, Loss 0.1074649915099144, lr 0.0001
Epoch 167600, Loss 0.007871130481362343, lr 0.0001
Epoch 167700, Loss 0.00788959488272667, lr 0.0001
Epoch 167800, Loss 0.02960198186337948, lr 0.0001
Epoch 167900, Loss 0.31139782071113586, lr 0.0001
Epoch 168000, Loss 0.0074417139403522015, lr 0.0001
Epoch 168100, Loss 0.009315584786236286, lr 0.0001
Epoch 168200, Loss 0.024569585919380188, lr 0.0001
Epoch 168300, Loss 0.007434441242367029, lr 0.0001
Epoch 168400, Loss 0.008354050107300282, lr 0.0001
Epoch 168500, Loss 0.05448869988322258, lr 0.0001
Epoch 168600, Loss 0.007421683054417372, lr 0.0001
Epoch 168700, Loss 1.0200618505477905, lr 0.0001
Epoch 168800, Loss 0.007422348018735647, lr 0.0001
Epoch 168900, Loss 0.007414544932544231, lr 0.0001
Epoch 169000, Loss 0.007649687118828297, lr 0.0001
Epoch 169100, Loss 0.013096005655825138, lr 0.0001
Epoch 169200, Loss 0.007406765595078468, lr 0.0001
Epoch 169300, Loss 0.053888075053691864, lr 0.0001
Epoch 169400, Loss 0.007404398638755083, lr 0.0001
Epoch 169500, Loss 0.0183918084949255, lr 0.0001
Epoch 169600, Loss 0.20057934522628784, lr 0.0001
Epoch 169700, Loss 0.02745928056538105, lr 0.0001
Epoch 169800, Loss 0.0074523151852190495, lr 0.0001
Epoch 169900, Loss 0.0639401450753212, lr 0.0001
Epoch 170000, Loss 0.007391287013888359, lr 0.0001

Epoch 170100, Loss 0.007386224810034037, lr 0.0001
Epoch 170200, Loss 0.012729117646813393, lr 0.0001
Epoch 170300, Loss 0.007394254673272371, lr 0.0001
Epoch 170400, Loss 0.008450111374258995, lr 0.0001
Epoch 170500, Loss 0.007372076157480478, lr 0.0001
Epoch 170600, Loss 0.0073699066415429115, lr 0.0001
Epoch 170700, Loss 0.00813035573810339, lr 0.0001
Epoch 170800, Loss 0.007372805383056402, lr 0.0001
Epoch 170900, Loss 0.007371193263679743, lr 0.0001
Epoch 171000, Loss 0.007366066798567772, lr 0.0001
Epoch 171100, Loss 0.05062301456928253, lr 0.0001
Epoch 171200, Loss 0.4539431035518646, lr 0.0001
Epoch 171300, Loss 0.0073760575614869595, lr 0.0001
Epoch 171400, Loss 0.013571934774518013, lr 0.0001
Epoch 171500, Loss 0.00735442852601409, lr 0.0001
Epoch 171600, Loss 1.1578137874603271, lr 0.0001
Epoch 171700, Loss 0.007361880503594875, lr 0.0001
Epoch 171800, Loss 0.007615046110004187, lr 0.0001
Epoch 171900, Loss 0.011844687163829803, lr 0.0001
Epoch 172000, Loss 0.012201729230582714, lr 0.0001
Epoch 172100, Loss 0.008297421969473362, lr 0.0001
Epoch 172200, Loss 0.007524303160607815, lr 0.0001
Epoch 172300, Loss 0.0993579849600792, lr 0.0001
Epoch 172400, Loss 0.008796374313533306, lr 0.0001
Epoch 172500, Loss 0.17218492925167084, lr 0.0001
Epoch 172600, Loss 0.019233424216508865, lr 0.0001
Epoch 172700, Loss 0.17418275773525238, lr 0.0001
Epoch 172800, Loss 0.01575719378888607, lr 0.0001
Epoch 172900, Loss 0.007368978578597307, lr 0.0001
Epoch 173000, Loss 0.008551865816116333, lr 0.0001
Epoch 173100, Loss 0.007317196577787399, lr 0.0001
Epoch 173200, Loss 0.014478174038231373, lr 0.0001
Epoch 173300, Loss 0.007311426103115082, lr 0.0001
Epoch 173400, Loss 0.007308889180421829, lr 0.0001
Epoch 173500, Loss 0.009234132245182991, lr 0.0001
Epoch 173600, Loss 0.007840723730623722, lr 0.0001
Epoch 173700, Loss 0.03474072739481926, lr 0.0001
Epoch 173800, Loss 0.033103782683610916, lr 0.0001
Epoch 173900, Loss 0.0073418389074504375, lr 0.0001
Epoch 174000, Loss 0.056588806211948395, lr 0.0001
Epoch 174100, Loss 0.20633506774902344, lr 0.0001
Epoch 174200, Loss 0.008222626522183418, lr 0.0001
Epoch 174300, Loss 0.008994772098958492, lr 0.0001
Epoch 174400, Loss 0.014304354786872864, lr 0.0001
Epoch 174500, Loss 0.020073456689715385, lr 0.0001
Epoch 174600, Loss 0.007307885214686394, lr 0.0001
Epoch 174700, Loss 0.008841460570693016, lr 0.0001
Epoch 174800, Loss 0.016716405749320984, lr 0.0001

Epoch 174900, Loss 0.007593384012579918, lr 0.0001
Epoch 175000, Loss 0.007318955846130848, lr 0.0001
Epoch 175100, Loss 0.02550133876502514, lr 0.0001
Epoch 175200, Loss 0.007265698164701462, lr 0.0001
Epoch 175300, Loss 0.008189139887690544, lr 0.0001
Epoch 175400, Loss 0.007262238301336765, lr 0.0001
Epoch 175500, Loss 0.007261641323566437, lr 0.0001
Epoch 175600, Loss 0.008467615582048893, lr 0.0001
Epoch 175700, Loss 0.007256686687469482, lr 0.0001
Epoch 175800, Loss 0.012711606919765472, lr 0.0001
Epoch 175900, Loss 0.007254419848322868, lr 0.0001
Epoch 176000, Loss 0.0072505660355091095, lr 0.0001
Epoch 176100, Loss 0.007693358231335878, lr 0.0001
Epoch 176200, Loss 0.007245709653943777, lr 0.0001
Epoch 176300, Loss 0.007247136440128088, lr 0.0001
Epoch 176400, Loss 0.007262751925736666, lr 0.0001
Epoch 176500, Loss 0.12305780500173569, lr 0.0001
Epoch 176600, Loss 0.007239055819809437, lr 0.0001
Epoch 176700, Loss 0.007236288860440254, lr 0.0001
Epoch 176800, Loss 0.010526481084525585, lr 0.0001
Epoch 176900, Loss 0.007234436925500631, lr 0.0001
Epoch 177000, Loss 0.01859128847718239, lr 0.0001
Epoch 177100, Loss 0.014838077127933502, lr 0.0001
Epoch 177200, Loss 0.00840453989803791, lr 0.0001
Epoch 177300, Loss 0.007631470449268818, lr 0.0001
Epoch 177400, Loss 0.010825347155332565, lr 0.0001
Epoch 177500, Loss 0.03385039046406746, lr 0.0001
Epoch 177600, Loss 0.014406739734113216, lr 0.0001
Epoch 177700, Loss 0.022729570046067238, lr 0.0001
Epoch 177800, Loss 0.007383889518678188, lr 0.0001
Epoch 177900, Loss 0.05244164541363716, lr 0.0001
Epoch 178000, Loss 0.04688585177063942, lr 0.0001
Epoch 178100, Loss 0.10183393955230713, lr 0.0001
Epoch 178200, Loss 0.007413748651742935, lr 0.0001
Epoch 178300, Loss 0.007781812455505133, lr 0.0001
Epoch 178400, Loss 0.028390567749738693, lr 0.0001
Epoch 178500, Loss 0.15173651278018951, lr 0.0001
Epoch 178600, Loss 0.007201376371085644, lr 0.0001
Epoch 178700, Loss 0.014559194445610046, lr 0.0001
Epoch 178800, Loss 0.007187743671238422, lr 0.0001
Epoch 178900, Loss 0.008264676667749882, lr 0.0001
Epoch 179000, Loss 0.040902115404605865, lr 0.0001
Epoch 179100, Loss 0.007184638176113367, lr 0.0001
Epoch 179200, Loss 0.6785542368888855, lr 0.0001
Epoch 179300, Loss 0.00718542467802763, lr 0.0001
Epoch 179400, Loss 0.007176789455115795, lr 0.0001
Epoch 179500, Loss 0.007316000293940306, lr 0.0001
Epoch 179600, Loss 0.007197836879640818, lr 0.0001

Epoch 179700, Loss 0.012167154811322689, lr 0.0001
Epoch 179800, Loss 0.007166403811424971, lr 0.0001
Epoch 179900, Loss 0.2835068106651306, lr 0.0001
Epoch 180000, Loss 0.007183846551924944, lr 0.0001
Epoch 180100, Loss 0.007178145460784435, lr 0.0001
Epoch 180200, Loss 0.01937108114361763, lr 0.0001
Epoch 180300, Loss 0.007162328809499741, lr 0.0001
Epoch 180400, Loss 0.00717054633423686, lr 0.0001
Epoch 180500, Loss 0.0074385241605341434, lr 0.0001
Epoch 180600, Loss 0.007153308019042015, lr 0.0001
Epoch 180700, Loss 0.031053422018885612, lr 0.0001
Epoch 180800, Loss 0.0386081300675869, lr 0.0001
Epoch 180900, Loss 0.007145947776734829, lr 0.0001
Epoch 181000, Loss 1.4806443452835083, lr 0.0001
Epoch 181100, Loss 0.007166932802647352, lr 0.0001
Epoch 181200, Loss 0.007137835957109928, lr 0.0001
Epoch 181300, Loss 0.008954573422670364, lr 0.0001
Epoch 181400, Loss 0.012682514265179634, lr 0.0001
Epoch 181500, Loss 0.016965758055448532, lr 0.0001
Epoch 181600, Loss 0.0072183324955403805, lr 0.0001
Epoch 181700, Loss 0.007989153265953064, lr 0.0001
Epoch 181800, Loss 0.007229529786854982, lr 0.0001
Epoch 181900, Loss 0.007321556098759174, lr 0.0001
Epoch 182000, Loss 0.013631032779812813, lr 0.0001
Epoch 182100, Loss 0.046156227588653564, lr 0.0001
Epoch 182200, Loss 0.2956351935863495, lr 0.0001
Epoch 182300, Loss 0.007202903274446726, lr 0.0001
Epoch 182400, Loss 0.24247129261493683, lr 0.0001
Epoch 182500, Loss 0.0071169538423419, lr 0.0001
Epoch 182600, Loss 0.020049888640642166, lr 0.0001
Epoch 182700, Loss 0.007105574011802673, lr 0.0001
Epoch 182800, Loss 0.06278310716152191, lr 0.0001
Epoch 182900, Loss 0.00710562476888299, lr 0.0001
Epoch 183000, Loss 0.007103753741830587, lr 0.0001
Epoch 183100, Loss 0.01699337363243103, lr 0.0001
Epoch 183200, Loss 0.0074515510350465775, lr 0.0001
Epoch 183300, Loss 0.008897853083908558, lr 0.0001
Epoch 183400, Loss 0.009168269112706184, lr 0.0001
Epoch 183500, Loss 0.02583838813006878, lr 0.0001
Epoch 183600, Loss 0.007405489683151245, lr 0.0001
Epoch 183700, Loss 0.007407550700008869, lr 0.0001
Epoch 183800, Loss 0.3353644013404846, lr 0.0001
Epoch 183900, Loss 0.007095395587384701, lr 0.0001
Epoch 184000, Loss 0.43848615884780884, lr 0.0001
Epoch 184100, Loss 0.007087353151291609, lr 0.0001
Epoch 184200, Loss 0.007081227842718363, lr 0.0001
Epoch 184300, Loss 0.0070785703137516975, lr 0.0001
Epoch 184400, Loss 0.007092026527971029, lr 0.0001

Epoch 184500, Loss 0.0072385650128126144, lr 0.0001
Epoch 184600, Loss 0.007071654312312603, lr 0.0001
Epoch 184700, Loss 0.007072310894727707, lr 0.0001
Epoch 184800, Loss 0.009101982228457928, lr 0.0001
Epoch 184900, Loss 0.007065413519740105, lr 0.0001
Epoch 185000, Loss 0.01060434803366661, lr 0.0001
Epoch 185100, Loss 0.0071912361308932304, lr 0.0001
Epoch 185200, Loss 0.013316009193658829, lr 0.0001
Epoch 185300, Loss 0.03861932083964348, lr 0.0001
Epoch 185400, Loss 0.007065046112984419, lr 0.0001
Epoch 185500, Loss 0.007340475916862488, lr 0.0001
Epoch 185600, Loss 0.007139519788324833, lr 0.0001
Epoch 185700, Loss 0.011442105285823345, lr 0.0001
Epoch 185800, Loss 0.0071301632560789585, lr 0.0001
Epoch 185900, Loss 0.007536165416240692, lr 0.0001
Epoch 186000, Loss 0.021801501512527466, lr 0.0001
Epoch 186100, Loss 0.007038535550236702, lr 0.0001
Epoch 186200, Loss 0.20751652121543884, lr 0.0001
Epoch 186300, Loss 0.007045544683933258, lr 0.0001
Epoch 186400, Loss 0.007315996568650007, lr 0.0001
Epoch 186500, Loss 0.114443838596344, lr 0.0001
Epoch 186600, Loss 0.011661048978567123, lr 0.0001
Epoch 186700, Loss 0.2086380422115326, lr 0.0001
Epoch 186800, Loss 0.007027734536677599, lr 0.0001
Epoch 186900, Loss 0.014162837527692318, lr 0.0001
Epoch 187000, Loss 0.007025847211480141, lr 0.0001
Epoch 187100, Loss 0.007557014934718609, lr 0.0001
Epoch 187200, Loss 0.0070170192047953606, lr 0.0001
Epoch 187300, Loss 0.01726367697119713, lr 0.0001
Epoch 187400, Loss 0.007011971436440945, lr 0.0001
Epoch 187500, Loss 1.3151946067810059, lr 0.0001
Epoch 187600, Loss 0.007029504515230656, lr 0.0001
Epoch 187700, Loss 0.007008945103734732, lr 0.0001
Epoch 187800, Loss 0.00700717605650425, lr 0.0001
Epoch 187900, Loss 0.0070303357206285, lr 0.0001
Epoch 188000, Loss 0.6903113722801208, lr 0.0001
Epoch 188100, Loss 0.0070107607170939445, lr 0.0001
Epoch 188200, Loss 0.006997604854404926, lr 0.0001
Epoch 188300, Loss 0.006994110532104969, lr 0.0001
Epoch 188400, Loss 0.008196399547159672, lr 0.0001
Epoch 188500, Loss 0.006993010174483061, lr 0.0001
Epoch 188600, Loss 0.007001015357673168, lr 0.0001
Epoch 188700, Loss 0.0071347979828715324, lr 0.0001
Epoch 188800, Loss 0.006991006899625063, lr 0.0001
Epoch 188900, Loss 0.006985229440033436, lr 0.0001
Epoch 189000, Loss 0.00698188366368413, lr 0.0001
Epoch 189100, Loss 0.009649780578911304, lr 0.0001
Epoch 189200, Loss 0.006980929523706436, lr 0.0001

Epoch 189300, Loss 0.015646597370505333, lr 0.0001
Epoch 189400, Loss 0.030272161588072777, lr 0.0001
Epoch 189500, Loss 0.006978396326303482, lr 0.0001
Epoch 189600, Loss 0.056181877851486206, lr 0.0001
Epoch 189700, Loss 0.007000853773206472, lr 0.0001
Epoch 189800, Loss 0.006969427224248648, lr 0.0001
Epoch 189900, Loss 0.024526387453079224, lr 0.0001
Epoch 190000, Loss 0.0076502724550664425, lr 0.0001
Epoch 190100, Loss 0.039964839816093445, lr 0.0001
Epoch 190200, Loss 0.006998359691351652, lr 0.0001
Epoch 190300, Loss 0.009107138961553574, lr 0.0001
Epoch 190400, Loss 0.009454060345888138, lr 0.0001
Epoch 190500, Loss 0.00900342594832182, lr 0.0001
Epoch 190600, Loss 0.008411932736635208, lr 0.0001
Epoch 190700, Loss 0.0069940946996212006, lr 0.0001
Epoch 190800, Loss 0.08839425444602966, lr 0.0001
Epoch 190900, Loss 0.006951877381652594, lr 0.0001
Epoch 191000, Loss 0.0076280091889202595, lr 0.0001
Epoch 191100, Loss 0.0072011942975223064, lr 0.0001
Epoch 191200, Loss 0.006953539326786995, lr 0.0001
Epoch 191300, Loss 0.007905233651399612, lr 0.0001
Epoch 191400, Loss 0.09036659449338913, lr 0.0001
Epoch 191500, Loss 0.2907808721065521, lr 0.0001
Epoch 191600, Loss 0.007033016532659531, lr 0.0001
Epoch 191700, Loss 0.007095540873706341, lr 0.0001
Epoch 191800, Loss 0.037678610533475876, lr 0.0001
Epoch 191900, Loss 0.006930543575435877, lr 0.0001
Epoch 192000, Loss 0.030826255679130554, lr 0.0001
Epoch 192100, Loss 0.006926307920366526, lr 0.0001
Epoch 192200, Loss 0.007817226462066174, lr 0.0001
Epoch 192300, Loss 0.1972065269947052, lr 0.0001
Epoch 192400, Loss 0.006930304225534201, lr 0.0001
Epoch 192500, Loss 0.013834305107593536, lr 0.0001
Epoch 192600, Loss 0.00823754258453846, lr 0.0001
Epoch 192700, Loss 0.015437484718859196, lr 0.0001
Epoch 192800, Loss 0.016265081241726875, lr 0.0001
Epoch 192900, Loss 0.023819753900170326, lr 0.0001
Epoch 193000, Loss 0.034871023148298264, lr 0.0001
Epoch 193100, Loss 0.054748453199863434, lr 0.0001
Epoch 193200, Loss 0.02838892489671707, lr 0.0001
Epoch 193300, Loss 0.00692184129729867, lr 0.0001
Epoch 193400, Loss 0.009366377256810665, lr 0.0001
Epoch 193500, Loss 0.006932332646101713, lr 0.0001
Epoch 193600, Loss 0.0069339945912361145, lr 0.0001
Epoch 193700, Loss 0.007851523347198963, lr 0.0001
Epoch 193800, Loss 0.010833949781954288, lr 0.0001
Epoch 193900, Loss 0.025963079184293747, lr 0.0001
Epoch 194000, Loss 0.009418301284313202, lr 0.0001

Epoch 194100, Loss 0.009346306324005127, lr 0.0001
Epoch 194200, Loss 0.007062220014631748, lr 0.0001
Epoch 194300, Loss 0.008377818390727043, lr 0.0001
Epoch 194400, Loss 0.015002401545643806, lr 0.0001
Epoch 194500, Loss 0.07174831628799438, lr 0.0001
Epoch 194600, Loss 0.0068752337247133255, lr 0.0001
Epoch 194700, Loss 0.03419606015086174, lr 0.0001
Epoch 194800, Loss 0.006888603791594505, lr 0.0001
Epoch 194900, Loss 0.6058185696601868, lr 0.0001
Epoch 195000, Loss 0.006873606704175472, lr 0.0001
Epoch 195100, Loss 0.006867502350360155, lr 0.0001
Epoch 195200, Loss 0.0068625519052147865, lr 0.0001
Epoch 195300, Loss 0.007272948510944843, lr 0.0001
Epoch 195400, Loss 0.006860098801553249, lr 0.0001
Epoch 195500, Loss 0.006861357018351555, lr 0.0001
Epoch 195600, Loss 0.006853464059531689, lr 0.0001
Epoch 195700, Loss 0.007863168604671955, lr 0.0001
Epoch 195800, Loss 0.0068564326502382755, lr 0.0001
Epoch 195900, Loss 0.006853743456304073, lr 0.0001
Epoch 196000, Loss 0.006852068472653627, lr 0.0001
Epoch 196100, Loss 0.006848542019724846, lr 0.0001
Epoch 196200, Loss 0.0073775663040578365, lr 0.0001
Epoch 196300, Loss 0.007009103894233704, lr 0.0001
Epoch 196400, Loss 0.08696746826171875, lr 0.0001
Epoch 196500, Loss 0.006842417176812887, lr 0.0001
Epoch 196600, Loss 0.00683912867680192, lr 0.0001
Epoch 196700, Loss 0.009343662299215794, lr 0.0001
Epoch 196800, Loss 0.006838667672127485, lr 0.0001
Epoch 196900, Loss 0.006835080683231354, lr 0.0001
Epoch 197000, Loss 0.006832066457718611, lr 0.0001
Epoch 197100, Loss 0.00683303689584136, lr 0.0001
Epoch 197200, Loss 0.08717331290245056, lr 0.0001
Epoch 197300, Loss 0.006897777784615755, lr 0.0001
Epoch 197400, Loss 0.006827093660831451, lr 0.0001
Epoch 197500, Loss 0.019687047228217125, lr 0.0001
Epoch 197600, Loss 0.020220689475536346, lr 0.0001
Epoch 197700, Loss 0.006823057774454355, lr 0.0001
Epoch 197800, Loss 0.00786324217915535, lr 0.0001
Epoch 197900, Loss 0.00681859627366066, lr 0.0001
Epoch 198000, Loss 0.006813839543610811, lr 0.0001
Epoch 198100, Loss 6.703085422515869, lr 0.0001
Epoch 198200, Loss 0.006964941509068012, lr 0.0001
Epoch 198300, Loss 0.006814518477767706, lr 0.0001
Epoch 198400, Loss 0.006812477018684149, lr 0.0001
Epoch 198500, Loss 0.006808154750615358, lr 0.0001
Epoch 198600, Loss 0.007698662579059601, lr 0.0001
Epoch 198700, Loss 0.010944707319140434, lr 0.0001
Epoch 198800, Loss 0.00697261793538928, lr 0.0001

Epoch 198900, Loss 0.0068045854568481445, lr 0.0001
Epoch 199000, Loss 0.007187287788838148, lr 0.0001
Epoch 199100, Loss 0.010339912958443165, lr 0.0001
Epoch 199200, Loss 0.006801774725317955, lr 0.0001
Epoch 199300, Loss 0.6777172088623047, lr 0.0001
Epoch 199400, Loss 0.006803387310355902, lr 0.0001
Epoch 199500, Loss 0.006790341343730688, lr 0.0001
Epoch 199600, Loss 0.006791196763515472, lr 0.0001
Epoch 199700, Loss 0.014372345991432667, lr 0.0001
Epoch 199800, Loss 0.00678983936086297, lr 0.0001
Epoch 199900, Loss 0.006789516657590866, lr 0.0001
Epoch 200000, Loss 0.0067868707701563835, lr 0.0001
Epoch 200100, Loss 0.00678479066118598, lr 0.0001
Epoch 200200, Loss 0.00716104032471776, lr 0.0001
Epoch 200300, Loss 0.006785763893276453, lr 0.0001
Epoch 200400, Loss 0.006831662729382515, lr 0.0001
Epoch 200500, Loss 0.006776513997465372, lr 0.0001
Epoch 200600, Loss 0.48918601870536804, lr 0.0001
Epoch 200700, Loss 0.00678427005186677, lr 0.0001
Epoch 200800, Loss 0.00677334051579237, lr 0.0001
Epoch 200900, Loss 0.006770831998437643, lr 0.0001
Epoch 201000, Loss 0.007176457904279232, lr 0.0001
Epoch 201100, Loss 0.007202891632914543, lr 0.0001
Epoch 201200, Loss 0.30726441740989685, lr 0.0001
Epoch 201300, Loss 0.00677274726331234, lr 0.0001
Epoch 201400, Loss 0.06799981743097305, lr 0.0001
Epoch 201500, Loss 0.008034992031753063, lr 0.0001
Epoch 201600, Loss 0.012014745734632015, lr 0.0001
Epoch 201700, Loss 0.0111335264518857, lr 0.0001
Epoch 201800, Loss 0.009109154343605042, lr 0.0001
Epoch 201900, Loss 0.007025270257145166, lr 0.0001
Epoch 202000, Loss 0.007331524044275284, lr 0.0001
Epoch 202100, Loss 0.008269892074167728, lr 0.0001
Epoch 202200, Loss 0.007152159698307514, lr 0.0001
Epoch 202300, Loss 0.019394366070628166, lr 0.0001
Epoch 202400, Loss 0.02521594800055027, lr 0.0001
Epoch 202500, Loss 0.11304907500743866, lr 0.0001
Epoch 202600, Loss 0.006789984181523323, lr 0.0001
Epoch 202700, Loss 0.10896548628807068, lr 0.0001
Epoch 202800, Loss 0.12698830664157867, lr 0.0001
Epoch 202900, Loss 0.02695551887154579, lr 0.0001
Epoch 203000, Loss 0.09609629958868027, lr 0.0001
Epoch 203100, Loss 0.007307120598852634, lr 0.0001
Epoch 203200, Loss 0.0713922455906868, lr 0.0001
Epoch 203300, Loss 0.00673000467941165, lr 0.0001
Epoch 203400, Loss 0.0402241013944149, lr 0.0001
Epoch 203500, Loss 0.2352685034275055, lr 0.0001
Epoch 203600, Loss 0.006729006301611662, lr 0.0001

Epoch 203700, Loss 0.008141998201608658, lr 0.0001
Epoch 203800, Loss 0.01417312677949667, lr 0.0001
Epoch 203900, Loss 0.009578200057148933, lr 0.0001
Epoch 204000, Loss 0.008198496885597706, lr 0.0001
Epoch 204100, Loss 0.02426374889910221, lr 0.0001
Epoch 204200, Loss 0.0634298250079155, lr 0.0001
Epoch 204300, Loss 0.006704223342239857, lr 0.0001
Epoch 204400, Loss 0.006732916925102472, lr 0.0001
Epoch 204500, Loss 0.016211627051234245, lr 0.0001
Epoch 204600, Loss 0.007763085421174765, lr 0.0001
Epoch 204700, Loss 0.00670098839327693, lr 0.0001
Epoch 204800, Loss 0.10199417918920517, lr 0.0001
Epoch 204900, Loss 0.006693963892757893, lr 0.0001
Epoch 205000, Loss 0.006695042364299297, lr 0.0001
Epoch 205100, Loss 0.008837010711431503, lr 0.0001
Epoch 205200, Loss 0.00669371522963047, lr 0.0001
Epoch 205300, Loss 0.00669349730014801, lr 0.0001
Epoch 205400, Loss 0.0066907634027302265, lr 0.0001
Epoch 205500, Loss 0.006684716325253248, lr 0.0001
Epoch 205600, Loss 0.006686342414468527, lr 0.0001
Epoch 205700, Loss 0.0465928390622139, lr 0.0001
Epoch 205800, Loss 0.006685467902570963, lr 0.0001
Epoch 205900, Loss 0.006682287435978651, lr 0.0001
Epoch 206000, Loss 0.0066775064915418625, lr 0.0001
Epoch 206100, Loss 0.8831749558448792, lr 0.0001
Epoch 206200, Loss 0.00669120391830802, lr 0.0001
Epoch 206300, Loss 0.006678292527794838, lr 0.0001
Epoch 206400, Loss 0.006673022639006376, lr 0.0001
Epoch 206500, Loss 0.006668483838438988, lr 0.0001
Epoch 206600, Loss 0.0986739918589592, lr 0.0001
Epoch 206700, Loss 0.006699548568576574, lr 0.0001
Epoch 206800, Loss 0.006666763219982386, lr 0.0001
Epoch 206900, Loss 0.0066658989526331425, lr 0.0001
Epoch 207000, Loss 0.00766968447715044, lr 0.0001
Epoch 207100, Loss 0.006663298700004816, lr 0.0001
Epoch 207200, Loss 0.006660859566181898, lr 0.0001
Epoch 207300, Loss 0.006804694887250662, lr 0.0001
Epoch 207400, Loss 0.007049812003970146, lr 0.0001
Epoch 207500, Loss 0.006653242744505405, lr 0.0001
Epoch 207600, Loss 0.011394821107387543, lr 0.0001
Epoch 207700, Loss 0.006652322132140398, lr 0.0001
Epoch 207800, Loss 0.006654613185673952, lr 0.0001
Epoch 207900, Loss 0.026173634454607964, lr 0.0001
Epoch 208000, Loss 0.00665921438485384, lr 0.0001
Epoch 208100, Loss 0.04988570511341095, lr 0.0001
Epoch 208200, Loss 0.006648724433034658, lr 0.0001
Epoch 208300, Loss 0.03940718248486519, lr 0.0001
Epoch 208400, Loss 0.006638990715146065, lr 0.0001

Epoch 208500, Loss 0.1798793077468872, lr 0.0001
Epoch 208600, Loss 0.09948770701885223, lr 0.0001
Epoch 208700, Loss 0.006875841412693262, lr 0.0001
Epoch 208800, Loss 0.006693010684102774, lr 0.0001
Epoch 208900, Loss 0.6351430416107178, lr 0.0001
Epoch 209000, Loss 0.006648894399404526, lr 0.0001
Epoch 209100, Loss 0.4378621280193329, lr 0.0001
Epoch 209200, Loss 0.00662550562992692, lr 0.0001
Epoch 209300, Loss 0.006625173147767782, lr 0.0001
Epoch 209400, Loss 0.008517298847436905, lr 0.0001
Epoch 209500, Loss 0.006791853811591864, lr 0.0001
Epoch 209600, Loss 0.012137925252318382, lr 0.0001
Epoch 209700, Loss 0.00662392470985651, lr 0.0001
Epoch 209800, Loss 0.006955565419048071, lr 0.0001
Epoch 209900, Loss 0.006615341175347567, lr 0.0001
Epoch 210000, Loss 0.061039555817842484, lr 0.0001
Epoch 210100, Loss 0.006614896468818188, lr 0.0001
Epoch 210200, Loss 0.006608727853745222, lr 0.0001
Epoch 210300, Loss 0.007356560323387384, lr 0.0001
Epoch 210400, Loss 0.15968716144561768, lr 0.0001
Epoch 210500, Loss 0.010353606194257736, lr 0.0001
Epoch 210600, Loss 0.02105587162077427, lr 0.0001
Epoch 210700, Loss 0.007522952277213335, lr 0.0001
Epoch 210800, Loss 0.021666022017598152, lr 0.0001
Epoch 210900, Loss 0.0066938637755811214, lr 0.0001
Epoch 211000, Loss 0.012085643596947193, lr 0.0001
Epoch 211100, Loss 0.2180352807044983, lr 0.0001
Epoch 211200, Loss 0.01245302613824606, lr 0.0001
Epoch 211300, Loss 0.006783153861761093, lr 0.0001
Epoch 211400, Loss 0.009611787274479866, lr 0.0001
Epoch 211500, Loss 0.11505221575498581, lr 0.0001
Epoch 211600, Loss 0.01732625998556614, lr 0.0001
Epoch 211700, Loss 0.4771275222301483, lr 0.0001
Epoch 211800, Loss 0.006607722956687212, lr 0.0001
Epoch 211900, Loss 0.011645554564893246, lr 0.0001
Epoch 212000, Loss 0.04844062402844429, lr 0.0001
Epoch 212100, Loss 0.006618573796004057, lr 0.0001
Epoch 212200, Loss 0.00869524385780096, lr 0.0001
Epoch 212300, Loss 0.0065983133390545845, lr 0.0001
Epoch 212400, Loss 0.006866649258881807, lr 0.0001
Epoch 212500, Loss 0.0065687960013747215, lr 0.0001
Epoch 212600, Loss 0.00849408470094204, lr 0.0001
Epoch 212700, Loss 0.006566224154084921, lr 0.0001
Epoch 212800, Loss 0.00656261807307601, lr 0.0001
Epoch 212900, Loss 0.05836702883243561, lr 0.0001
Epoch 213000, Loss 0.006565372459590435, lr 0.0001
Epoch 213100, Loss 0.00656380457803607, lr 0.0001
Epoch 213200, Loss 0.006561349146068096, lr 0.0001

Epoch 213300, Loss 0.0065587833523750305, lr 0.0001
Epoch 213400, Loss 0.0068221502006053925, lr 0.0001
Epoch 213500, Loss 0.006557791028171778, lr 0.0001
Epoch 213600, Loss 0.0066542839631438255, lr 0.0001
Epoch 213700, Loss 0.007072224747389555, lr 0.0001
Epoch 213800, Loss 0.006549306213855743, lr 0.0001
Epoch 213900, Loss 0.2615109086036682, lr 0.0001
Epoch 214000, Loss 0.006553861312568188, lr 0.0001
Epoch 214100, Loss 0.006546590477228165, lr 0.0001
Epoch 214200, Loss 0.008424485102295876, lr 0.0001
Epoch 214300, Loss 0.006911789532750845, lr 0.0001
Epoch 214400, Loss 0.006544251926243305, lr 0.0001
Epoch 214500, Loss 0.007377895526587963, lr 0.0001
Epoch 214600, Loss 0.006538473069667816, lr 0.0001
Epoch 214700, Loss 0.006540775764733553, lr 0.0001
Epoch 214800, Loss 0.00704833772033453, lr 0.0001
Epoch 214900, Loss 0.006531433202326298, lr 0.0001
Epoch 215000, Loss 0.006532568484544754, lr 0.0001
Epoch 215100, Loss 0.6452237367630005, lr 0.0001
Epoch 215200, Loss 0.00654240557923913, lr 0.0001
Epoch 215300, Loss 0.006528958212584257, lr 0.0001
Epoch 215400, Loss 0.006527434568852186, lr 0.0001
Epoch 215500, Loss 0.006528167985379696, lr 0.0001
Epoch 215600, Loss 0.006594573147594929, lr 0.0001
Epoch 215700, Loss 0.007000903133302927, lr 0.0001
Epoch 215800, Loss 0.007517854683101177, lr 0.0001
Epoch 215900, Loss 0.006524316035211086, lr 0.0001
Epoch 216000, Loss 0.006519741378724575, lr 0.0001
Epoch 216100, Loss 0.007073105312883854, lr 0.0001
Epoch 216200, Loss 0.006513785105198622, lr 0.0001
Epoch 216300, Loss 0.006512837018817663, lr 0.0001
Epoch 216400, Loss 0.014170723967254162, lr 0.0001
Epoch 216500, Loss 0.006510660983622074, lr 0.0001
Epoch 216600, Loss 0.0065599409863352776, lr 0.0001
Epoch 216700, Loss 0.0065060146152973175, lr 0.0001
Epoch 216800, Loss 0.015065232291817665, lr 0.0001
Epoch 216900, Loss 0.006521179806441069, lr 0.0001
Epoch 217000, Loss 0.0666738897562027, lr 0.0001
Epoch 217100, Loss 0.03489409014582634, lr 0.0001
Epoch 217200, Loss 0.006528570782393217, lr 0.0001
Epoch 217300, Loss 0.00669636158272624, lr 0.0001
Epoch 217400, Loss 0.006884128786623478, lr 0.0001
Epoch 217500, Loss 0.006666795816272497, lr 0.0001
Epoch 217600, Loss 0.006491529289633036, lr 0.0001
Epoch 217700, Loss 0.006496218964457512, lr 0.0001
Epoch 217800, Loss 0.0947955846786499, lr 0.0001
Epoch 217900, Loss 0.012267936021089554, lr 0.0001
Epoch 218000, Loss 0.006521835923194885, lr 0.0001

Epoch 218100, Loss 0.016026126220822334, lr 0.0001
Epoch 218200, Loss 0.00648227334022522, lr 0.0001
Epoch 218300, Loss 0.06914398074150085, lr 0.0001
Epoch 218400, Loss 0.00648541608825326, lr 0.0001
Epoch 218500, Loss 0.006477755028754473, lr 0.0001
Epoch 218600, Loss 0.18243053555488586, lr 0.0001
Epoch 218700, Loss 0.00648216949775815, lr 0.0001
Epoch 218800, Loss 0.006474421359598637, lr 0.0001
Epoch 218900, Loss 0.6307496428489685, lr 0.0001
Epoch 219000, Loss 0.0065933517180383205, lr 0.0001
Epoch 219100, Loss 0.006472074426710606, lr 0.0001
Epoch 219200, Loss 0.00647168792784214, lr 0.0001
Epoch 219300, Loss 0.006468263920396566, lr 0.0001
Epoch 219400, Loss 0.00762174604460597, lr 0.0001
Epoch 219500, Loss 0.006470788735896349, lr 0.0001
Epoch 219600, Loss 0.006662556901574135, lr 0.0001
Epoch 219700, Loss 0.009630407206714153, lr 0.0001
Epoch 219800, Loss 0.006689244881272316, lr 0.0001
Epoch 219900, Loss 0.0066212816163897514, lr 0.0001
Epoch 220000, Loss 0.12732136249542236, lr 0.0001
Epoch 220100, Loss 0.022572342306375504, lr 0.0001
Epoch 220200, Loss 0.006525504402816296, lr 0.0001
Epoch 220300, Loss 0.014887209981679916, lr 0.0001
Epoch 220400, Loss 0.006450083572417498, lr 0.0001
Epoch 220500, Loss 0.029167836531996727, lr 0.0001
Epoch 220600, Loss 0.006446273531764746, lr 0.0001
Epoch 220700, Loss 0.007224858272820711, lr 0.0001
Epoch 220800, Loss 0.006617420818656683, lr 0.0001
Epoch 220900, Loss 0.006499640177935362, lr 0.0001
Epoch 221000, Loss 0.03963300958275795, lr 0.0001
Epoch 221100, Loss 0.011359124444425106, lr 0.0001
Epoch 221200, Loss 0.03478240594267845, lr 0.0001
Epoch 221300, Loss 0.0064404550939798355, lr 0.0001
Epoch 221400, Loss 0.009761770255863667, lr 0.0001
Epoch 221500, Loss 0.028675392270088196, lr 0.0001
Epoch 221600, Loss 0.007220963016152382, lr 0.0001
Epoch 221700, Loss 0.019750408828258514, lr 0.0001
Epoch 221800, Loss 0.02785605564713478, lr 0.0001
Epoch 221900, Loss 0.01998761110007763, lr 0.0001
Epoch 222000, Loss 0.006478688679635525, lr 0.0001
Epoch 222100, Loss 0.006434498354792595, lr 0.0001
Epoch 222200, Loss 0.008713499642908573, lr 0.0001
Epoch 222300, Loss 0.006558642722666264, lr 0.0001
Epoch 222400, Loss 0.006825558375567198, lr 0.0001
Epoch 222500, Loss 0.37800514698028564, lr 0.0001
Epoch 222600, Loss 0.006438526790589094, lr 0.0001
Epoch 222700, Loss 0.006414156407117844, lr 0.0001
Epoch 222800, Loss 0.008711505681276321, lr 0.0001

Epoch 222900, Loss 0.006407393608242273, lr 0.0001
Epoch 223000, Loss 0.006408657878637314, lr 0.0001
Epoch 223100, Loss 0.007201638072729111, lr 0.0001
Epoch 223200, Loss 0.0064049470238387585, lr 0.0001
Epoch 223300, Loss 0.006404276471585035, lr 0.0001
Epoch 223400, Loss 0.13765430450439453, lr 0.0001
Epoch 223500, Loss 0.006655061151832342, lr 0.0001
Epoch 223600, Loss 0.036901894956827164, lr 0.0001
Epoch 223700, Loss 0.006417126394808292, lr 0.0001
Epoch 223800, Loss 0.00721967127174139, lr 0.0001
Epoch 223900, Loss 0.006407266948372126, lr 0.0001
Epoch 224000, Loss 0.007809421978890896, lr 0.0001
Epoch 224100, Loss 0.006395626813173294, lr 0.0001
Epoch 224200, Loss 0.006426419131457806, lr 0.0001
Epoch 224300, Loss 0.006389874964952469, lr 0.0001
Epoch 224400, Loss 0.0063877832144498825, lr 0.0001
Epoch 224500, Loss 0.007015312556177378, lr 0.0001
Epoch 224600, Loss 0.006383415777236223, lr 0.0001
Epoch 224700, Loss 1.8935644626617432, lr 0.0001
Epoch 224800, Loss 0.0064148991368710995, lr 0.0001
Epoch 224900, Loss 0.0063775526359677315, lr 0.0001
Epoch 225000, Loss 0.006377726327627897, lr 0.0001
Epoch 225100, Loss 0.015680624172091484, lr 0.0001
Epoch 225200, Loss 0.5063356757164001, lr 0.0001
Epoch 225300, Loss 0.006419943645596504, lr 0.0001
Epoch 225400, Loss 0.02004157193005085, lr 0.0001
Epoch 225500, Loss 0.0063774483278393745, lr 0.0001
Epoch 225600, Loss 0.009974000975489616, lr 0.0001
Epoch 225700, Loss 0.006415211129933596, lr 0.0001
Epoch 225800, Loss 0.00873443391174078, lr 0.0001
Epoch 225900, Loss 0.006570956204086542, lr 0.0001
Epoch 226000, Loss 0.00809988658875227, lr 0.0001
Epoch 226100, Loss 0.02320846915245056, lr 0.0001
Epoch 226200, Loss 0.009022193029522896, lr 0.0001
Epoch 226300, Loss 0.006363462656736374, lr 0.0001
Epoch 226400, Loss 0.009330031462013721, lr 0.0001
Epoch 226500, Loss 0.006505792494863272, lr 0.0001
Epoch 226600, Loss 0.012703483924269676, lr 0.0001
Epoch 226700, Loss 0.021299613639712334, lr 0.0001
Epoch 226800, Loss 0.009932402521371841, lr 0.0001
Epoch 226900, Loss 0.006478807423263788, lr 0.0001
Epoch 227000, Loss 0.19733409583568573, lr 0.0001
Epoch 227100, Loss 0.0063486965373158455, lr 0.0001
Epoch 227200, Loss 0.010595502331852913, lr 0.0001
Epoch 227300, Loss 0.05963367223739624, lr 0.0001
Epoch 227400, Loss 0.0063908579759299755, lr 0.0001
Epoch 227500, Loss 0.027338773012161255, lr 0.0001
Epoch 227600, Loss 0.006371998693794012, lr 0.0001

Epoch 227700, Loss 0.00633623544126749, lr 0.0001
Epoch 227800, Loss 0.018403546884655952, lr 0.0001
Epoch 227900, Loss 0.023683568462729454, lr 0.0001
Epoch 228000, Loss 0.022506264969706535, lr 0.0001
Epoch 228100, Loss 0.08016405999660492, lr 0.0001
Epoch 228200, Loss 0.14144058525562286, lr 0.0001
Epoch 228300, Loss 0.0064589460380375385, lr 0.0001
Epoch 228400, Loss 0.006424775812774897, lr 0.0001
Epoch 228500, Loss 0.07763569056987762, lr 0.0001
Epoch 228600, Loss 0.006328810006380081, lr 0.0001
Epoch 228700, Loss 0.007907537743449211, lr 0.0001
Epoch 228800, Loss 0.006664817687124014, lr 0.0001
Epoch 228900, Loss 0.03256279230117798, lr 0.0001
Epoch 229000, Loss 0.006319851148873568, lr 0.0001
Epoch 229100, Loss 0.9001839756965637, lr 0.0001
Epoch 229200, Loss 0.006330267526209354, lr 0.0001
Epoch 229300, Loss 0.0063116298988461494, lr 0.0001
Epoch 229400, Loss 0.10687574744224548, lr 0.0001
Epoch 229500, Loss 0.006312118843197823, lr 0.0001
Epoch 229600, Loss 0.006307028234004974, lr 0.0001
Epoch 229700, Loss 0.006303498055785894, lr 0.0001
Epoch 229800, Loss 0.006302310153841972, lr 0.0001
Epoch 229900, Loss 0.32619160413742065, lr 0.0001
Epoch 230000, Loss 0.006321065593510866, lr 0.0001
Epoch 230100, Loss 0.007524924352765083, lr 0.0001
Epoch 230200, Loss 0.006663492880761623, lr 0.0001
Epoch 230300, Loss 0.1450956165790558, lr 0.0001
Epoch 230400, Loss 0.006297458428889513, lr 0.0001
Epoch 230500, Loss 0.015044501051306725, lr 0.0001
Epoch 230600, Loss 0.011656460352241993, lr 0.0001
Epoch 230700, Loss 0.13299599289894104, lr 0.0001
Epoch 230800, Loss 0.006289973389357328, lr 0.0001
Epoch 230900, Loss 0.04880993068218231, lr 0.0001
Epoch 231000, Loss 0.010003691539168358, lr 0.0001
Epoch 231100, Loss 0.00639114435762167, lr 0.0001
Epoch 231200, Loss 0.012439968064427376, lr 0.0001
Epoch 231300, Loss 0.006290320307016373, lr 0.0001
Epoch 231400, Loss 0.00710735097527504, lr 0.0001
Epoch 231500, Loss 0.006431736517697573, lr 0.0001
Epoch 231600, Loss 0.013807624578475952, lr 0.0001
Epoch 231700, Loss 0.00654676603153348, lr 0.0001
Epoch 231800, Loss 0.1790090650320053, lr 0.0001
Epoch 231900, Loss 0.006286803632974625, lr 0.0001
Epoch 232000, Loss 0.03529079258441925, lr 0.0001
Epoch 232100, Loss 0.00633917236700654, lr 0.0001
Epoch 232200, Loss 0.00627393601462245, lr 0.0001
Epoch 232300, Loss 0.0062650940380990505, lr 0.0001
Epoch 232400, Loss 0.023797543719410896, lr 0.0001

Epoch 232500, Loss 0.006266212090849876, lr 0.0001
Epoch 232600, Loss 0.006260206922888756, lr 0.0001
Epoch 232700, Loss 0.006261356174945831, lr 0.0001
Epoch 232800, Loss 0.008237400092184544, lr 0.0001
Epoch 232900, Loss 0.006260028574615717, lr 0.0001
Epoch 233000, Loss 0.00625646160915494, lr 0.0001
Epoch 233100, Loss 0.006256460212171078, lr 0.0001
Epoch 233200, Loss 0.006363917142152786, lr 0.0001
Epoch 233300, Loss 0.006253060884773731, lr 0.0001
Epoch 233400, Loss 0.00624998239800334, lr 0.0001
Epoch 233500, Loss 0.006286031100898981, lr 0.0001
Epoch 233600, Loss 0.006248609162867069, lr 0.0001
Epoch 233700, Loss 0.008066440932452679, lr 0.0001
Epoch 233800, Loss 0.0062476941384375095, lr 0.0001
Epoch 233900, Loss 0.00624479353427887, lr 0.0001
Epoch 234000, Loss 0.008139186538755894, lr 0.0001
Epoch 234100, Loss 0.008136516436934471, lr 0.0001
Epoch 234200, Loss 0.014388016425073147, lr 0.0001
Epoch 234300, Loss 0.006252733524888754, lr 0.0001
Epoch 234400, Loss 0.006452476140111685, lr 0.0001
Epoch 234500, Loss 0.006235694047063589, lr 0.0001
Epoch 234600, Loss 0.014966976828873158, lr 0.0001
Epoch 234700, Loss 0.006235644221305847, lr 0.0001
Epoch 234800, Loss 0.006231881212443113, lr 0.0001
Epoch 234900, Loss 0.6411694288253784, lr 0.0001
Epoch 235000, Loss 0.0062496233731508255, lr 0.0001
Epoch 235100, Loss 0.4938805401325226, lr 0.0001
Epoch 235200, Loss 0.006239036098122597, lr 0.0001
Epoch 235300, Loss 0.0062247575260698795, lr 0.0001
Epoch 235400, Loss 0.006931343115866184, lr 0.0001
Epoch 235500, Loss 0.006221565417945385, lr 0.0001
Epoch 235600, Loss 0.0062312176451087, lr 0.0001
Epoch 235700, Loss 0.006507024168968201, lr 0.0001
Epoch 235800, Loss 0.006218815688043833, lr 0.0001
Epoch 235900, Loss 0.006217435467988253, lr 0.0001
Epoch 236000, Loss 0.006216689944267273, lr 0.0001
Epoch 236100, Loss 0.006218702532351017, lr 0.0001
Epoch 236200, Loss 0.006274963729083538, lr 0.0001
Epoch 236300, Loss 0.0062133246101439, lr 0.0001
Epoch 236400, Loss 0.006213593762367964, lr 0.0001
Epoch 236500, Loss 0.040677882730960846, lr 0.0001
Epoch 236600, Loss 0.04344664141535759, lr 0.0001
Epoch 236700, Loss 0.006376130506396294, lr 0.0001
Epoch 236800, Loss 0.0062306122854352, lr 0.0001
Epoch 236900, Loss 0.03330833464860916, lr 0.0001
Epoch 237000, Loss 0.006216002162545919, lr 0.0001
Epoch 237100, Loss 0.006770341191440821, lr 0.0001
Epoch 237200, Loss 0.008062719367444515, lr 0.0001

Epoch 237300, Loss 0.022663738578557968, lr 0.0001
Epoch 237400, Loss 0.12616094946861267, lr 0.0001
Epoch 237500, Loss 0.006203857250511646, lr 0.0001
Epoch 237600, Loss 0.006633157376199961, lr 0.0001
Epoch 237700, Loss 0.43917784094810486, lr 0.0001
Epoch 237800, Loss 0.006213917396962643, lr 0.0001
Epoch 237900, Loss 0.029402799904346466, lr 0.0001
Epoch 238000, Loss 0.006240935064852238, lr 0.0001
Epoch 238100, Loss 0.006739496719092131, lr 0.0001
Epoch 238200, Loss 0.00649765320122242, lr 0.0001
Epoch 238300, Loss 0.014721328392624855, lr 0.0001
Epoch 238400, Loss 0.014581823721528053, lr 0.0001
Epoch 238500, Loss 0.006260369438678026, lr 0.0001
Epoch 238600, Loss 0.1943276822566986, lr 0.0001
Epoch 238700, Loss 0.006191447842866182, lr 0.0001
Epoch 238800, Loss 0.011905713006854057, lr 0.0001
Epoch 238900, Loss 0.007923565804958344, lr 0.0001
Epoch 239000, Loss 0.006232273764908314, lr 0.0001
Epoch 239100, Loss 0.10532426834106445, lr 0.0001
Epoch 239200, Loss 0.006174393929541111, lr 0.0001
Epoch 239300, Loss 0.006167604587972164, lr 0.0001
Epoch 239400, Loss 0.006908268667757511, lr 0.0001
Epoch 239500, Loss 0.006165244150906801, lr 0.0001
Epoch 239600, Loss 1.117112398147583, lr 0.0001
Epoch 239700, Loss 0.006194921676069498, lr 0.0001
Epoch 239800, Loss 0.006162642501294613, lr 0.0001
Epoch 239900, Loss 0.006162281613796949, lr 0.0001
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Epoch 240100, Loss 0.0061843134462833405, lr 0.0001
Epoch 240200, Loss 0.05158482864499092, lr 0.0001
Epoch 240300, Loss 0.006158133968710899, lr 0.0001
Epoch 240400, Loss 0.0061540668830275536, lr 0.0001
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Epoch 240600, Loss 0.00616008136421442, lr 0.0001
Epoch 240700, Loss 0.006154322065412998, lr 0.0001
Epoch 240800, Loss 0.006151081062853336, lr 0.0001
Epoch 240900, Loss 0.0061493003740906715, lr 0.0001
Epoch 241000, Loss 0.006150607485324144, lr 0.0001
Epoch 241100, Loss 0.006220897193998098, lr 0.0001
Epoch 241200, Loss 0.006470096297562122, lr 0.0001
Epoch 241300, Loss 0.006180148106068373, lr 0.0001
Epoch 241400, Loss 0.0061385752633214, lr 0.0001
Epoch 241500, Loss 0.021172935143113136, lr 0.0001
Epoch 241600, Loss 0.00614544004201889, lr 0.0001
Epoch 241700, Loss 0.006140099838376045, lr 0.0001
Epoch 241800, Loss 0.01259664073586464, lr 0.0001
Epoch 241900, Loss 0.006165098398923874, lr 0.0001
Epoch 242000, Loss 0.006529028061777353, lr 0.0001

Epoch 242100, Loss 0.21819277107715607, lr 0.0001
Epoch 242200, Loss 0.006134464405477047, lr 0.0001
Epoch 242300, Loss 0.006128006149083376, lr 0.0001
Epoch 242400, Loss 0.006535268388688564, lr 0.0001
Epoch 242500, Loss 0.006129744462668896, lr 0.0001
Epoch 242600, Loss 0.006128678563982248, lr 0.0001
Epoch 242700, Loss 0.006127416621893644, lr 0.0001
Epoch 242800, Loss 0.010645035654306412, lr 0.0001
Epoch 242900, Loss 0.015992719680070877, lr 0.0001
Epoch 243000, Loss 0.015995940193533897, lr 0.0001
Epoch 243100, Loss 0.0061437515541911125, lr 0.0001
Epoch 243200, Loss 0.00896289199590683, lr 0.0001
Epoch 243300, Loss 0.006467063445597887, lr 0.0001
Epoch 243400, Loss 0.016212098300457, lr 0.0001
Epoch 243500, Loss 0.026657892391085625, lr 0.0001
Epoch 243600, Loss 0.008872181177139282, lr 0.0001
Epoch 243700, Loss 0.009730326011776924, lr 0.0001
Epoch 243800, Loss 0.006177600007504225, lr 0.0001
Epoch 243900, Loss 0.03635682910680771, lr 0.0001
Epoch 244000, Loss 0.05022095516324043, lr 0.0001
Epoch 244100, Loss 0.019596990197896957, lr 0.0001
Epoch 244200, Loss 0.3587559163570404, lr 0.0001
Epoch 244300, Loss 0.0061165220104157925, lr 0.0001
Epoch 244400, Loss 0.03137316554784775, lr 0.0001
Epoch 244500, Loss 0.006351912394165993, lr 0.0001
Epoch 244600, Loss 0.006209039594978094, lr 0.0001
Epoch 244700, Loss 0.006348171271383762, lr 0.0001
Epoch 244800, Loss 0.006770160980522633, lr 0.0001
Epoch 244900, Loss 0.014382605440914631, lr 0.0001
Epoch 245000, Loss 0.03225742653012276, lr 0.0001
Epoch 245100, Loss 0.006365025881677866, lr 0.0001
Epoch 245200, Loss 0.00628154119476676, lr 0.0001
Epoch 245300, Loss 0.008383390493690968, lr 0.0001
Epoch 245400, Loss 0.10635242611169815, lr 0.0001
Epoch 245500, Loss 0.0060925595462322235, lr 0.0001
Epoch 245600, Loss 0.15131694078445435, lr 0.0001
Epoch 245700, Loss 0.006125321611762047, lr 0.0001
Epoch 245800, Loss 0.006185849662870169, lr 0.0001
Epoch 245900, Loss 0.02643820084631443, lr 0.0001
Epoch 246000, Loss 0.00660300999879837, lr 0.0001
Epoch 246100, Loss 0.006076051387935877, lr 0.0001
Epoch 246200, Loss 0.006562326569110155, lr 0.0001
Epoch 246300, Loss 0.006070137023925781, lr 0.0001
Epoch 246400, Loss 0.1727716624736786, lr 0.0001
Epoch 246500, Loss 0.006077820900827646, lr 0.0001
Epoch 246600, Loss 0.006208752281963825, lr 0.0001
Epoch 246700, Loss 0.006276894826442003, lr 0.0001
Epoch 246800, Loss 0.0060698846355080605, lr 0.0001

Epoch 246900, Loss 0.006066139321774244, lr 0.0001
Epoch 247000, Loss 0.006065946538001299, lr 0.0001
Epoch 247100, Loss 0.006473882589489222, lr 0.0001
Epoch 247200, Loss 0.027633117511868477, lr 0.0001
Epoch 247300, Loss 0.03794492036104202, lr 0.0001
Epoch 247400, Loss 0.006072798278182745, lr 0.0001
Epoch 247500, Loss 0.007867932319641113, lr 0.0001
Epoch 247600, Loss 0.06284214556217194, lr 0.0001
Epoch 247700, Loss 0.009187248535454273, lr 0.0001
Epoch 247800, Loss 0.007194168865680695, lr 0.0001
Epoch 247900, Loss 0.006236962508410215, lr 0.0001
Epoch 248000, Loss 0.00669989874586463, lr 0.0001
Epoch 248100, Loss 0.01354580745100975, lr 0.0001
Epoch 248200, Loss 0.006054215133190155, lr 0.0001
Epoch 248300, Loss 0.006818160880357027, lr 0.0001
Epoch 248400, Loss 0.00823590625077486, lr 0.0001
Epoch 248500, Loss 0.05437634885311127, lr 0.0001
Epoch 248600, Loss 0.00624646944925189, lr 0.0001
Epoch 248700, Loss 0.0061201234348118305, lr 0.0001
Epoch 248800, Loss 0.08481620997190475, lr 0.0001
Epoch 248900, Loss 0.22622409462928772, lr 0.0001
Epoch 249000, Loss 0.013296319171786308, lr 0.0001
Epoch 249100, Loss 0.0061860885471105576, lr 0.0001
Epoch 249200, Loss 0.10391451418399811, lr 0.0001
Epoch 249300, Loss 0.006137036718428135, lr 0.0001
Epoch 249400, Loss 0.00653141550719738, lr 0.0001
Epoch 249500, Loss 0.03601953759789467, lr 0.0001
Epoch 249600, Loss 0.05604756996035576, lr 0.0001
Epoch 249700, Loss 0.0370141975581646, lr 0.0001
Epoch 249800, Loss 0.006196297705173492, lr 0.0001
Epoch 249900, Loss 0.0459040030837059, lr 0.0001
Epoch 250000, Loss 0.013515862636268139, lr 0.0001
Epoch 250100, Loss 0.008185640908777714, lr 0.0001
Epoch 250200, Loss 0.006244583521038294, lr 0.0001
Epoch 250300, Loss 0.0060252295807003975, lr 0.0001
Epoch 250400, Loss 0.006846417672932148, lr 0.0001
Epoch 250500, Loss 0.006014490500092506, lr 0.0001
Epoch 250600, Loss 0.006037774495780468, lr 0.0001
Epoch 250700, Loss 0.0061520240269601345, lr 0.0001
Epoch 250800, Loss 0.006011577323079109, lr 0.0001
Epoch 250900, Loss 0.006010689307004213, lr 0.0001
Epoch 251000, Loss 0.0060095409862697124, lr 0.0001
Epoch 251100, Loss 0.1379370391368866, lr 0.0001
Epoch 251200, Loss 0.00601214962080121, lr 0.0001
Epoch 251300, Loss 0.006006141658872366, lr 0.0001
Epoch 251400, Loss 0.00600745202973485, lr 0.0001
Epoch 251500, Loss 0.006003913469612598, lr 0.0001
Epoch 251600, Loss 0.05691215768456459, lr 0.0001

Epoch 251700, Loss 0.006015494465827942, lr 0.0001
Epoch 251800, Loss 0.005999283865094185, lr 0.0001
Epoch 251900, Loss 0.005997748579829931, lr 0.0001
Epoch 252000, Loss 0.006040431559085846, lr 0.0001
Epoch 252100, Loss 0.0062180450186133385, lr 0.0001
Epoch 252200, Loss 0.006826117634773254, lr 0.0001
Epoch 252300, Loss 0.08707506209611893, lr 0.0001
Epoch 252400, Loss 0.005994986277073622, lr 0.0001
Epoch 252500, Loss 0.007192779798060656, lr 0.0001
Epoch 252600, Loss 0.005991013720631599, lr 0.0001
Epoch 252700, Loss 0.006289547774940729, lr 0.0001
Epoch 252800, Loss 0.005989122204482555, lr 0.0001
Epoch 252900, Loss 0.005994996055960655, lr 0.0001
Epoch 253000, Loss 0.00615397235378623, lr 0.0001
Epoch 253100, Loss 0.005984437186270952, lr 0.0001
Epoch 253200, Loss 0.005987330339848995, lr 0.0001
Epoch 253300, Loss 0.009849349968135357, lr 0.0001
Epoch 253400, Loss 0.005981342867016792, lr 0.0001
Epoch 253500, Loss 0.005978935863822699, lr 0.0001
Epoch 253600, Loss 0.005976795684546232, lr 0.0001
Epoch 253700, Loss 0.010449345223605633, lr 0.0001
Epoch 253800, Loss 0.00597718870267272, lr 0.0001
Epoch 253900, Loss 0.009002802893519402, lr 0.0001
Epoch 254000, Loss 0.005974746774882078, lr 0.0001
Epoch 254100, Loss 0.2887011170387268, lr 0.0001
Epoch 254200, Loss 0.0059837703593075275, lr 0.0001
Epoch 254300, Loss 0.01643974706530571, lr 0.0001
Epoch 254400, Loss 0.005977437365800142, lr 0.0001
Epoch 254500, Loss 0.005996017716825008, lr 0.0001
Epoch 254600, Loss 0.11577396839857101, lr 0.0001
Epoch 254700, Loss 0.005966492462903261, lr 0.0001
Epoch 254800, Loss 0.005964699666947126, lr 0.0001
Epoch 254900, Loss 0.00898965634405613, lr 0.0001
Epoch 255000, Loss 0.00596244353801012, lr 0.0001
Epoch 255100, Loss 0.022583812475204468, lr 0.0001
Epoch 255200, Loss 0.006044652778655291, lr 0.0001
Epoch 255300, Loss 0.005956760607659817, lr 0.0001
Epoch 255400, Loss 0.005957688204944134, lr 0.0001
Epoch 255500, Loss 0.17015187442302704, lr 0.0001
Epoch 255600, Loss 0.24443352222442627, lr 0.0001
Epoch 255700, Loss 0.005974766332656145, lr 0.0001
Epoch 255800, Loss 1.2330904006958008, lr 0.0001
Epoch 255900, Loss 0.005965342279523611, lr 0.0001
Epoch 256000, Loss 0.005949222017079592, lr 0.0001
Epoch 256100, Loss 0.00595192052423954, lr 0.0001
Epoch 256200, Loss 0.009184037335216999, lr 0.0001
Epoch 256300, Loss 0.007147057913243771, lr 0.0001
Epoch 256400, Loss 0.005976049695163965, lr 0.0001

Epoch 256500, Loss 0.008008832111954689, lr 0.0001
Epoch 256600, Loss 0.47987350821495056, lr 0.0001
Epoch 256700, Loss 0.00594279495999217, lr 0.0001
Epoch 256800, Loss 0.005937405861914158, lr 0.0001
Epoch 256900, Loss 0.01074937917292118, lr 0.0001
Epoch 257000, Loss 0.005940166302025318, lr 0.0001
Epoch 257100, Loss 0.005936145316809416, lr 0.0001
Epoch 257200, Loss 0.005933782551437616, lr 0.0001
Epoch 257300, Loss 0.005936294794082642, lr 0.0001
Epoch 257400, Loss 0.008161776699125767, lr 0.0001
Epoch 257500, Loss 0.009207742288708687, lr 0.0001
Epoch 257600, Loss 0.02627774327993393, lr 0.0001
Epoch 257700, Loss 0.006645112298429012, lr 0.0001
Epoch 257800, Loss 0.04217926412820816, lr 0.0001
Epoch 257900, Loss 0.13513237237930298, lr 0.0001
Epoch 258000, Loss 0.006518207956105471, lr 0.0001
Epoch 258100, Loss 0.006044707261025906, lr 0.0001
Epoch 258200, Loss 0.011516409926116467, lr 0.0001
Epoch 258300, Loss 0.04587950557470322, lr 0.0001
Epoch 258400, Loss 0.19265221059322357, lr 0.0001
Epoch 258500, Loss 0.008445695042610168, lr 0.0001
Epoch 258600, Loss 0.42633119225502014, lr 0.0001
Epoch 258700, Loss 0.005965983960777521, lr 0.0001
Epoch 258800, Loss 0.006435665301978588, lr 0.0001
Epoch 258900, Loss 0.15820683538913727, lr 0.0001
Epoch 259000, Loss 0.005933115258812904, lr 0.0001
Epoch 259100, Loss 0.005944520700722933, lr 0.0001
Epoch 259200, Loss 0.006126471795141697, lr 0.0001
Epoch 259300, Loss 0.23987624049186707, lr 0.0001
Epoch 259400, Loss 0.03759977966547012, lr 0.0001
Epoch 259500, Loss 0.006096769589930773, lr 0.0001
Epoch 259600, Loss 0.006220879498869181, lr 0.0001
Epoch 259700, Loss 0.6104409694671631, lr 0.0001
Epoch 259800, Loss 0.005912407301366329, lr 0.0001
Epoch 259900, Loss 0.005900837015360594, lr 0.0001
Epoch 260000, Loss 0.005998335778713226, lr 0.0001
Epoch 260100, Loss 0.005898674950003624, lr 0.0001
Epoch 260200, Loss 0.0058938683941960335, lr 0.0001
Epoch 260300, Loss 0.027785319834947586, lr 0.0001
Epoch 260400, Loss 0.005897360388189554, lr 0.0001
Epoch 260500, Loss 0.005894090514630079, lr 0.0001
Epoch 260600, Loss 0.005890334490686655, lr 0.0001
Epoch 260700, Loss 0.005890226457268, lr 0.0001
Epoch 260800, Loss 0.006681875325739384, lr 0.0001
Epoch 260900, Loss 0.005921219475567341, lr 0.0001
Epoch 261000, Loss 0.005992664489895105, lr 0.0001
Epoch 261100, Loss 0.0180687103420496, lr 0.0001
Epoch 261200, Loss 0.0058818394318223, lr 0.0001

Epoch 261300, Loss 0.007875592447817326, lr 0.0001
Epoch 261400, Loss 0.00601092679426074, lr 0.0001
Epoch 261500, Loss 0.005881500896066427, lr 0.0001
Epoch 261600, Loss 0.005878348369151354, lr 0.0001
Epoch 261700, Loss 0.4675236940383911, lr 0.0001
Epoch 261800, Loss 0.005881021730601788, lr 0.0001
Epoch 261900, Loss 0.005878656171262264, lr 0.0001
Epoch 262000, Loss 0.005874199327081442, lr 0.0001
Epoch 262100, Loss 0.03091859444975853, lr 0.0001
Epoch 262200, Loss 0.005874640308320522, lr 0.0001
Epoch 262300, Loss 0.005871609319001436, lr 0.0001
Epoch 262400, Loss 0.005868084728717804, lr 0.0001
Epoch 262500, Loss 0.018972499296069145, lr 0.0001
Epoch 262600, Loss 0.005867938976734877, lr 0.0001
Epoch 262700, Loss 0.005865063983947039, lr 0.0001
Epoch 262800, Loss 0.0058653992600739, lr 0.0001
Epoch 262900, Loss 0.006206200923770666, lr 0.0001
Epoch 263000, Loss 0.006117949262261391, lr 0.0001
Epoch 263100, Loss 0.006579307839274406, lr 0.0001
Epoch 263200, Loss 0.005934380926191807, lr 0.0001
Epoch 263300, Loss 0.00800041202455759, lr 0.0001
Epoch 263400, Loss 0.012009893544018269, lr 0.0001
Epoch 263500, Loss 0.006411437410861254, lr 0.0001
Epoch 263600, Loss 0.006240250542759895, lr 0.0001
Epoch 263700, Loss 0.011103138327598572, lr 0.0001
Epoch 263800, Loss 0.2139471024274826, lr 0.0001
Epoch 263900, Loss 0.14837048947811127, lr 0.0001
Epoch 264000, Loss 0.005894276779145002, lr 0.0001
Epoch 264100, Loss 0.007249371148645878, lr 0.0001
Epoch 264200, Loss 0.1895272582769394, lr 0.0001
Epoch 264300, Loss 0.0071898652240633965, lr 0.0001
Epoch 264400, Loss 0.006007595453411341, lr 0.0001
Epoch 264500, Loss 0.0406637117266655, lr 0.0001
Epoch 264600, Loss 0.0058438400737941265, lr 0.0001
Epoch 264700, Loss 0.14514389634132385, lr 0.0001
Epoch 264800, Loss 0.5851638913154602, lr 0.0001
Epoch 264900, Loss 0.0058632600121200085, lr 0.0001
Epoch 265000, Loss 0.005838435143232346, lr 0.0001
Epoch 265100, Loss 0.006792991887778044, lr 0.0001
Epoch 265200, Loss 0.005832954775542021, lr 0.0001
Epoch 265300, Loss 0.009484944865107536, lr 0.0001
Epoch 265400, Loss 0.01479148119688034, lr 0.0001
Epoch 265500, Loss 0.006055295001715422, lr 0.0001
Epoch 265600, Loss 0.0058700647205114365, lr 0.0001
Epoch 265700, Loss 0.11690429598093033, lr 0.0001
Epoch 265800, Loss 0.005832965485751629, lr 0.0001
Epoch 265900, Loss 0.009882520884275436, lr 0.0001
Epoch 266000, Loss 0.005898743402212858, lr 0.0001

Epoch 266100, Loss 0.005824995692819357, lr 0.0001
Epoch 266200, Loss 0.08671140670776367, lr 0.0001
Epoch 266300, Loss 0.005853690207004547, lr 0.0001
Epoch 266400, Loss 0.005823134910315275, lr 0.0001
Epoch 266500, Loss 0.005821459461003542, lr 0.0001
Epoch 266600, Loss 0.00581905385479331, lr 0.0001
Epoch 266700, Loss 0.005818407982587814, lr 0.0001
Epoch 266800, Loss 0.023241207003593445, lr 0.0001
Epoch 266900, Loss 0.005818344186991453, lr 0.0001
Epoch 267000, Loss 0.005822781473398209, lr 0.0001
Epoch 267100, Loss 0.1620795726776123, lr 0.0001
Epoch 267200, Loss 0.005856103263795376, lr 0.0001
Epoch 267300, Loss 0.03811686858534813, lr 0.0001
Epoch 267400, Loss 0.005816519260406494, lr 0.0001
Epoch 267500, Loss 0.14892633259296417, lr 0.0001
Epoch 267600, Loss 0.1278078407049179, lr 0.0001
Epoch 267700, Loss 0.0065763043239712715, lr 0.0001
Epoch 267800, Loss 0.00599118834361434, lr 0.0001
Epoch 267900, Loss 0.033849626779556274, lr 0.0001
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Epoch 268100, Loss 0.03921081870794296, lr 0.0001
Epoch 268200, Loss 0.005804566200822592, lr 0.0001
Epoch 268300, Loss 0.008806305937469006, lr 0.0001
Epoch 268400, Loss 0.007414031773805618, lr 0.0001
Epoch 268500, Loss 0.006833618972450495, lr 0.0001
Epoch 268600, Loss 0.20552942156791687, lr 0.0001
Epoch 268700, Loss 0.3463420867919922, lr 0.0001
Epoch 268800, Loss 0.00582377053797245, lr 0.0001
Epoch 268900, Loss 0.005890635773539543, lr 0.0001
Epoch 269000, Loss 0.011075067333877087, lr 0.0001
Epoch 269100, Loss 0.006410723086446524, lr 0.0001
Epoch 269200, Loss 0.00661686435341835, lr 0.0001
Epoch 269300, Loss 0.005977691616863012, lr 0.0001
Epoch 269400, Loss 0.00696968100965023, lr 0.0001
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Epoch 269600, Loss 0.1311730146408081, lr 0.0001
Epoch 269700, Loss 0.006091502960771322, lr 0.0001
Epoch 269800, Loss 0.00597202405333519, lr 0.0001
Epoch 269900, Loss 0.011058386415243149, lr 0.0001
Epoch 270000, Loss 0.005778234452009201, lr 0.0001
Epoch 270100, Loss 0.007268414832651615, lr 0.0001
Epoch 270200, Loss 0.0057851397432386875, lr 0.0001
Epoch 270300, Loss 0.005968031473457813, lr 0.0001
Epoch 270400, Loss 0.01902892254292965, lr 0.0001
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Epoch 270600, Loss 0.005766880698502064, lr 0.0001
Epoch 270700, Loss 0.03493863716721535, lr 0.0001
Epoch 270800, Loss 0.005770485382527113, lr 0.0001

Epoch 270900, Loss 0.011545074172317982, lr 0.0001
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Epoch 271100, Loss 0.0058369822800159454, lr 0.0001
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Epoch 271300, Loss 0.006466935854405165, lr 0.0001
Epoch 271400, Loss 0.005759198218584061, lr 0.0001
Epoch 271500, Loss 0.005759257357567549, lr 0.0001
Epoch 271600, Loss 0.0057588606141507626, lr 0.0001
Epoch 271700, Loss 0.0063241831958293915, lr 0.0001
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Epoch 272000, Loss 0.006552985869348049, lr 0.0001
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Epoch 272200, Loss 0.0067387898452579975, lr 0.0001
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Epoch 273400, Loss 0.005737295374274254, lr 0.0001
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Epoch 273700, Loss 0.17149460315704346, lr 0.0001
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Epoch 275500, Loss 0.005713580641895533, lr 0.0001
Epoch 275600, Loss 0.005714754108339548, lr 0.0001

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Epoch 276200, Loss 0.005752090364694595, lr 0.0001
Epoch 276300, Loss 0.005704856943339109, lr 0.0001
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Epoch 276700, Loss 0.005702052265405655, lr 0.0001
Epoch 276800, Loss 0.00570267578586936, lr 0.0001
Epoch 276900, Loss 0.03453461825847626, lr 0.0001
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Epoch 277100, Loss 0.005698633845895529, lr 0.0001
Epoch 277200, Loss 0.005695714149624109, lr 0.0001
Epoch 277300, Loss 1.2115007638931274, lr 0.0001
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Epoch 277500, Loss 0.005697065033018589, lr 0.0001
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Epoch 277700, Loss 0.005691623780876398, lr 0.0001
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Epoch 277900, Loss 0.005693164188414812, lr 0.0001
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Epoch 278300, Loss 0.005687150172889233, lr 0.0001
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Epoch 279200, Loss 0.15199847519397736, lr 0.0001
Epoch 279300, Loss 0.005727582145482302, lr 0.0001
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Epoch 279700, Loss 0.039510708302259445, lr 0.0001
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Epoch 280400, Loss 0.005708193406462669, lr 0.0001

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Epoch 280800, Loss 0.021270668134093285, lr 0.0001
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Epoch 281300, Loss 0.4102955460548401, lr 0.0001
Epoch 281400, Loss 0.005663907155394554, lr 0.0001
Epoch 281500, Loss 0.006147027015686035, lr 0.0001
Epoch 281600, Loss 0.005649078171700239, lr 0.0001
Epoch 281700, Loss 0.01818303018808365, lr 0.0001
Epoch 281800, Loss 0.0056461007334291935, lr 0.0001
Epoch 281900, Loss 0.005645638331770897, lr 0.0001
Epoch 282000, Loss 0.005642874166369438, lr 0.0001
Epoch 282100, Loss 0.17491385340690613, lr 0.0001
Epoch 282200, Loss 0.005649551283568144, lr 0.0001
Epoch 282300, Loss 0.00563834048807621, lr 0.0001
Epoch 282400, Loss 0.0056378766894340515, lr 0.0001
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Epoch 282700, Loss 0.005640730261802673, lr 0.0001
Epoch 282800, Loss 0.005637815687805414, lr 0.0001
Epoch 282900, Loss 0.005633770953863859, lr 0.0001
Epoch 283000, Loss 0.006813195534050465, lr 0.0001
Epoch 283100, Loss 0.00564073771238327, lr 0.0001
Epoch 283200, Loss 0.01886981539428234, lr 0.0001
Epoch 283300, Loss 0.006572428159415722, lr 0.0001
Epoch 283400, Loss 0.005735532380640507, lr 0.0001
Epoch 283500, Loss 0.008868389762938023, lr 0.0001
Epoch 283600, Loss 0.0057159229181706905, lr 0.0001
Epoch 283700, Loss 0.005851422902196646, lr 0.0001
Epoch 283800, Loss 0.006289951968938112, lr 0.0001
Epoch 283900, Loss 0.005719851702451706, lr 0.0001
Epoch 284000, Loss 0.005625690333545208, lr 0.0001
Epoch 284100, Loss 0.04550311341881752, lr 0.0001
Epoch 284200, Loss 0.007544746156781912, lr 0.0001
Epoch 284300, Loss 0.005677576642483473, lr 0.0001
Epoch 284400, Loss 0.007661042269319296, lr 0.0001
Epoch 284500, Loss 0.006682015489786863, lr 0.0001
Epoch 284600, Loss 0.006210291758179665, lr 0.0001
Epoch 284700, Loss 0.007991545833647251, lr 0.0001
Epoch 284800, Loss 0.13798455893993378, lr 0.0001
Epoch 284900, Loss 0.006235702894628048, lr 0.0001
Epoch 285000, Loss 0.0057230740785598755, lr 0.0001
Epoch 285100, Loss 0.03199664130806923, lr 0.0001
Epoch 285200, Loss 0.005618370603770018, lr 0.0001

Epoch 285300, Loss 0.005709598772227764, lr 0.0001
Epoch 285400, Loss 0.007025692146271467, lr 0.0001
Epoch 285500, Loss 0.017814958468079567, lr 0.0001
Epoch 285600, Loss 0.0072982897982001305, lr 0.0001
Epoch 285700, Loss 0.005651688203215599, lr 0.0001
Epoch 285800, Loss 0.45634889602661133, lr 0.0001
Epoch 285900, Loss 0.005930707324296236, lr 0.0001
Epoch 286000, Loss 0.014802503399550915, lr 0.0001
Epoch 286100, Loss 0.005641045980155468, lr 0.0001
Epoch 286200, Loss 0.00559565145522356, lr 0.0001
Epoch 286300, Loss 0.005757257342338562, lr 0.0001
Epoch 286400, Loss 0.005802145227789879, lr 0.0001
Epoch 286500, Loss 0.005594609305262566, lr 0.0001
Epoch 286600, Loss 0.005590836051851511, lr 0.0001
Epoch 286700, Loss 0.008261668495833874, lr 0.0001
Epoch 286800, Loss 0.0055928644724190235, lr 0.0001
Epoch 286900, Loss 0.005590452812612057, lr 0.0001
Epoch 287000, Loss 0.005590199958533049, lr 0.0001
Epoch 287100, Loss 0.005587018560618162, lr 0.0001
Epoch 287200, Loss 0.010593163780868053, lr 0.0001
Epoch 287300, Loss 0.005606650374829769, lr 0.0001
Epoch 287400, Loss 0.014310209080576897, lr 0.0001
Epoch 287500, Loss 0.005587323568761349, lr 0.0001
Epoch 287600, Loss 0.00862950086593628, lr 0.0001
Epoch 287700, Loss 0.005582116078585386, lr 0.0001
Epoch 287800, Loss 0.005578290205448866, lr 0.0001
Epoch 287900, Loss 0.007500030100345612, lr 0.0001
Epoch 288000, Loss 0.0055803596042096615, lr 0.0001
Epoch 288100, Loss 0.005580023396760225, lr 0.0001
Epoch 288200, Loss 0.005579433869570494, lr 0.0001
Epoch 288300, Loss 0.20731957256793976, lr 0.0001
Epoch 288400, Loss 0.005620668176561594, lr 0.0001
Epoch 288500, Loss 0.005786127410829067, lr 0.0001
Epoch 288600, Loss 0.0055713835172355175, lr 0.0001
Epoch 288700, Loss 0.008441015146672726, lr 0.0001
Epoch 288800, Loss 0.005570693407207727, lr 0.0001
Epoch 288900, Loss 0.005574782378971577, lr 0.0001
Epoch 289000, Loss 0.006315971724689007, lr 0.0001
Epoch 289100, Loss 0.005895339883863926, lr 0.0001
Epoch 289200, Loss 0.005662648472934961, lr 0.0001
Epoch 289300, Loss 0.0056386543437838554, lr 0.0001
Epoch 289400, Loss 0.010019377805292606, lr 0.0001
Epoch 289500, Loss 0.005794272292405367, lr 0.0001
Epoch 289600, Loss 0.015897206962108612, lr 0.0001
Epoch 289700, Loss 0.0066494750790297985, lr 0.0001
Epoch 289800, Loss 0.11630656570196152, lr 0.0001
Epoch 289900, Loss 0.011260523460805416, lr 0.0001
Epoch 290000, Loss 0.022984955459833145, lr 0.0001

Epoch 290100, Loss 0.00834597647190094, lr 0.0001
Epoch 290200, Loss 0.005561437923461199, lr 0.0001
Epoch 290300, Loss 0.018024787306785583, lr 0.0001
Epoch 290400, Loss 0.029116393998265266, lr 0.0001
Epoch 290500, Loss 0.005554524715989828, lr 0.0001
Epoch 290600, Loss 0.023410961031913757, lr 0.0001
Epoch 290700, Loss 0.4867866039276123, lr 0.0001
Epoch 290800, Loss 0.005559252575039864, lr 0.0001
Epoch 290900, Loss 0.041180748492479324, lr 0.0001
Epoch 291000, Loss 0.005546399392187595, lr 0.0001
Epoch 291100, Loss 0.023724103346467018, lr 0.0001
Epoch 291200, Loss 0.005541649181395769, lr 0.0001
Epoch 291300, Loss 0.00554951187223196, lr 0.0001
Epoch 291400, Loss 0.006367569323629141, lr 0.0001
Epoch 291500, Loss 0.005542707163840532, lr 0.0001
Epoch 291600, Loss 0.00554249994456768, lr 0.0001
Epoch 291700, Loss 0.005541929975152016, lr 0.0001
Epoch 291800, Loss 0.005536907352507114, lr 0.0001
Epoch 291900, Loss 0.023465396836400032, lr 0.0001
Epoch 292000, Loss 0.0056390101090073586, lr 0.0001
Epoch 292100, Loss 0.005536413751542568, lr 0.0001
Epoch 292200, Loss 0.005534125491976738, lr 0.0001
Epoch 292300, Loss 0.005536247976124287, lr 0.0001
Epoch 292400, Loss 0.2729929983615875, lr 0.0001
Epoch 292500, Loss 0.005540094338357449, lr 0.0001
Epoch 292600, Loss 0.005532338283956051, lr 0.0001
Epoch 292700, Loss 0.005531392991542816, lr 0.0001
Epoch 292800, Loss 0.005528707522898912, lr 0.0001
Epoch 292900, Loss 0.005534755066037178, lr 0.0001
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Epoch 293100, Loss 0.006077613215893507, lr 0.0001
Epoch 293200, Loss 0.005712618585675955, lr 0.0001
Epoch 293300, Loss 0.31162455677986145, lr 0.0001
Epoch 293400, Loss 0.005534116644412279, lr 0.0001
Epoch 293500, Loss 0.16517609357833862, lr 0.0001
Epoch 293600, Loss 0.005529626272618771, lr 0.0001
Epoch 293700, Loss 0.05276934802532196, lr 0.0001
Epoch 293800, Loss 0.005518429446965456, lr 0.0001
Epoch 293900, Loss 0.0055182091891765594, lr 0.0001
Epoch 294000, Loss 0.022579312324523926, lr 0.0001
Epoch 294100, Loss 0.005516212899237871, lr 0.0001
Epoch 294200, Loss 0.005513601470738649, lr 0.0001
Epoch 294300, Loss 0.00551573233678937, lr 0.0001
Epoch 294400, Loss 0.005538569297641516, lr 0.0001
Epoch 294500, Loss 0.005796251352876425, lr 0.0001
Epoch 294600, Loss 0.00551220029592514, lr 0.0001
Epoch 294700, Loss 0.016797909513115883, lr 0.0001
Epoch 294800, Loss 0.005510709248483181, lr 0.0001

Epoch 294900, Loss 0.0055111125111579895, lr 0.0001
Epoch 295000, Loss 0.005506191868335009, lr 0.0001
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Epoch 295200, Loss 0.03476507589221001, lr 0.0001
Epoch 295300, Loss 0.010719044134020805, lr 0.0001
Epoch 295400, Loss 0.01701129600405693, lr 0.0001
Epoch 295500, Loss 0.005503581836819649, lr 0.0001
Epoch 295600, Loss 0.006249382626265287, lr 0.0001
Epoch 295700, Loss 0.0384514220058918, lr 0.0001
Epoch 295800, Loss 0.006458144169300795, lr 0.0001
Epoch 295900, Loss 0.00601500179618597, lr 0.0001
Epoch 296000, Loss 0.006536908447742462, lr 0.0001
Epoch 296100, Loss 0.01654568314552307, lr 0.0001
Epoch 296200, Loss 0.006242006551474333, lr 0.0001
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Epoch 296400, Loss 0.005541118327528238, lr 0.0001
Epoch 296500, Loss 0.007699853740632534, lr 0.0001
Epoch 296600, Loss 0.005602627526968718, lr 0.0001
Epoch 296700, Loss 0.005486450623720884, lr 0.0001
Epoch 296800, Loss 0.012684728018939495, lr 0.0001
Epoch 296900, Loss 0.005486882291734219, lr 0.0001
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Epoch 297100, Loss 0.005495008546859026, lr 0.0001
Epoch 297200, Loss 0.005881418939679861, lr 0.0001
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Epoch 297400, Loss 0.005480914376676083, lr 0.0001
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Epoch 297800, Loss 0.00547951040789485, lr 0.0001
Epoch 297900, Loss 0.005480065476149321, lr 0.0001
Epoch 298000, Loss 0.005478045903146267, lr 0.0001
Epoch 298100, Loss 0.17940537631511688, lr 0.0001
Epoch 298200, Loss 0.005487509537488222, lr 0.0001
Epoch 298300, Loss 0.0054793390445411205, lr 0.0001
Epoch 298400, Loss 0.005674318876117468, lr 0.0001
Epoch 298500, Loss 0.008666181936860085, lr 0.0001
Epoch 298600, Loss 0.006234866101294756, lr 0.0001
Epoch 298700, Loss 0.0056214602664113045, lr 0.0001
Epoch 298800, Loss 0.03810439631342888, lr 0.0001
Epoch 298900, Loss 0.006329209543764591, lr 0.0001
Epoch 299000, Loss 0.006141673307865858, lr 0.0001
Epoch 299100, Loss 0.005638560280203819, lr 0.0001
Epoch 299200, Loss 0.31719547510147095, lr 0.0001
Epoch 299300, Loss 0.11859185248613358, lr 0.0001
Epoch 299400, Loss 0.009607394225895405, lr 0.0001
Epoch 299500, Loss 0.1579238623380661, lr 0.0001
Epoch 299600, Loss 0.11262478679418564, lr 0.0001

Epoch 299700, Loss 0.029600581154227257, lr 0.0001
Epoch 299800, Loss 0.005721453111618757, lr 0.0001
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Epoch 300100, Loss 0.00550081068649888, lr 0.0001
Epoch 300200, Loss 0.24014262855052948, lr 0.0001
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Epoch 300400, Loss 0.03204746171832085, lr 0.0001
Epoch 300500, Loss 0.005873552057892084, lr 0.0001
Epoch 300600, Loss 0.6876076459884644, lr 0.0001
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Epoch 301800, Loss 0.0054405489936470985, lr 0.0001
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Epoch 303700, Loss 0.10383747518062592, lr 0.0001
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Epoch 310500, Loss 0.49100208282470703, lr 0.0001
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Epoch 310900, Loss 0.005478245671838522, lr 0.0001
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Epoch 311300, Loss 0.008845183067023754, lr 0.0001
Epoch 311400, Loss 0.025819698348641396, lr 0.0001
Epoch 311500, Loss 0.007175173610448837, lr 0.0001
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Epoch 311700, Loss 0.04022965207695961, lr 0.0001
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Epoch 311900, Loss 0.005352555308490992, lr 0.0001
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Epoch 312300, Loss 0.005334082990884781, lr 0.0001
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Epoch 314600, Loss 0.005311399232596159, lr 0.0001
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Epoch 315700, Loss 0.0053039491176605225, lr 0.0001
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Epoch 316700, Loss 0.04135022684931755, lr 0.0001
Epoch 316800, Loss 0.12593655288219452, lr 0.0001
Epoch 316900, Loss 0.02677375264465809, lr 0.0001
Epoch 317000, Loss 0.010988617315888405, lr 0.0001
Epoch 317100, Loss 0.021888025104999542, lr 0.0001
Epoch 317200, Loss 0.08670351654291153, lr 0.0001
Epoch 317300, Loss 0.4062426686286926, lr 0.0001
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Epoch 317600, Loss 0.0057620457373559475, lr 0.0001
Epoch 317700, Loss 0.009899471886456013, lr 0.0001
Epoch 317800, Loss 0.06654758751392365, lr 0.0001
Epoch 317900, Loss 0.010019849985837936, lr 0.0001
Epoch 318000, Loss 0.0052788653410971165, lr 0.0001
Epoch 318100, Loss 0.03094189614057541, lr 0.0001
Epoch 318200, Loss 0.008983705192804337, lr 0.0001
Epoch 318300, Loss 0.0052949306555092335, lr 0.0001
Epoch 318400, Loss 0.0053478688932955265, lr 0.0001
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Epoch 318700, Loss 0.0053643654100596905, lr 0.0001
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Epoch 318900, Loss 0.005273962859064341, lr 0.0001
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Epoch 319100, Loss 0.005549951922148466, lr 0.0001
Epoch 319200, Loss 0.005267000757157803, lr 0.0001
Epoch 319300, Loss 0.0052668992429971695, lr 0.0001
Epoch 319400, Loss 0.1228073462843895, lr 0.0001
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Epoch 319700, Loss 0.00526642007753253, lr 0.0001
Epoch 319800, Loss 0.005265138577669859, lr 0.0001
Epoch 319900, Loss 0.005262613762170076, lr 0.0001
Epoch 320000, Loss 0.00526266498491168, lr 0.0001
Epoch 320100, Loss 0.014861246570944786, lr 0.0001
Epoch 320200, Loss 0.066694475710392, lr 0.0001
Epoch 320300, Loss 0.027002885937690735, lr 0.0001
Epoch 320400, Loss 0.06581410020589828, lr 0.0001
Epoch 320500, Loss 0.005357459653168917, lr 0.0001
Epoch 320600, Loss 0.005444413051009178, lr 0.0001
Epoch 320700, Loss 0.00951262004673481, lr 0.0001
Epoch 320800, Loss 0.04225108027458191, lr 0.0001
Epoch 320900, Loss 0.005328311584889889, lr 0.0001
Epoch 321000, Loss 0.059164419770240784, lr 0.0001
Epoch 321100, Loss 0.016898896545171738, lr 0.0001
Epoch 321200, Loss 0.14597228169441223, lr 0.0001
Epoch 321300, Loss 0.005257250741124153, lr 0.0001
Epoch 321400, Loss 0.012002923525869846, lr 0.0001
Epoch 321500, Loss 0.005246834363788366, lr 0.0001
Epoch 321600, Loss 0.015151443891227245, lr 0.0001
Epoch 321700, Loss 0.006319404114037752, lr 0.0001
Epoch 321800, Loss 0.005311816930770874, lr 0.0001
Epoch 321900, Loss 0.005241818260401487, lr 0.0001
Epoch 322000, Loss 0.005738523323088884, lr 0.0001
Epoch 322100, Loss 0.005241778213530779, lr 0.0001
Epoch 322200, Loss 0.0052419425919651985, lr 0.0001
Epoch 322300, Loss 0.014725925400853157, lr 0.0001
Epoch 322400, Loss 0.005491859279572964, lr 0.0001
Epoch 322500, Loss 0.01925167627632618, lr 0.0001
Epoch 322600, Loss 0.05433319881558418, lr 0.0001
Epoch 322700, Loss 0.09260930866003036, lr 0.0001
Epoch 322800, Loss 0.005551061127334833, lr 0.0001
Epoch 322900, Loss 0.005510285031050444, lr 0.0001
Epoch 323000, Loss 0.008691227063536644, lr 0.0001
Epoch 323100, Loss 0.03969067335128784, lr 0.0001
Epoch 323200, Loss 0.00533161498606205, lr 0.0001
Epoch 323300, Loss 0.01175684854388237, lr 0.0001
Epoch 323400, Loss 0.005229195114225149, lr 0.0001
Epoch 323500, Loss 0.09045557677745819, lr 0.0001
Epoch 323600, Loss 0.005229124799370766, lr 0.0001

Epoch 323700, Loss 0.005227494053542614, lr 0.0001
Epoch 323800, Loss 0.005228203255683184, lr 0.0001
Epoch 323900, Loss 0.03424208238720894, lr 0.0001
Epoch 324000, Loss 0.0052282558754086494, lr 0.0001
Epoch 324100, Loss 0.0052242279052734375, lr 0.0001
Epoch 324200, Loss 0.005227928049862385, lr 0.0001
Epoch 324300, Loss 0.00522352010011673, lr 0.0001
Epoch 324400, Loss 0.02671806700527668, lr 0.0001
Epoch 324500, Loss 0.005220633465796709, lr 0.0001
Epoch 324600, Loss 0.0052223363891243935, lr 0.0001
Epoch 324700, Loss 0.005221045576035976, lr 0.0001
Epoch 324800, Loss 0.005218549631536007, lr 0.0001
Epoch 324900, Loss 0.007432037498801947, lr 0.0001
Epoch 325000, Loss 0.005228342022746801, lr 0.0001
Epoch 325100, Loss 0.005223966669291258, lr 0.0001
Epoch 325200, Loss 0.005219691898673773, lr 0.0001
Epoch 325300, Loss 0.00521630747243762, lr 0.0001
Epoch 325400, Loss 0.0052139637991786, lr 0.0001
Epoch 325500, Loss 0.005214132834225893, lr 0.0001
Epoch 325600, Loss 0.005421401001513004, lr 0.0001
Epoch 325700, Loss 0.00555965444073081, lr 0.0001
Epoch 325800, Loss 0.34200602769851685, lr 0.0001
Epoch 325900, Loss 0.006666803732514381, lr 0.0001
Epoch 326000, Loss 0.005624884273856878, lr 0.0001
Epoch 326100, Loss 0.025510409846901894, lr 0.0001
Epoch 326200, Loss 0.3129447102546692, lr 0.0001
Epoch 326300, Loss 0.007820495404303074, lr 0.0001
Epoch 326400, Loss 0.013199973851442337, lr 0.0001
Epoch 326500, Loss 0.025783566758036613, lr 0.0001
Epoch 326600, Loss 0.04740425944328308, lr 0.0001
Epoch 326700, Loss 0.01996932365000248, lr 0.0001
Epoch 326800, Loss 0.06521880626678467, lr 0.0001
Epoch 326900, Loss 0.005585523322224617, lr 0.0001
Epoch 327000, Loss 0.005355547182261944, lr 0.0001
Epoch 327100, Loss 0.005340739618986845, lr 0.0001
Epoch 327200, Loss 0.06581002473831177, lr 0.0001
Epoch 327300, Loss 0.005249863024801016, lr 0.0001
Epoch 327400, Loss 0.00572541868314147, lr 0.0001
Epoch 327500, Loss 0.005453919991850853, lr 0.0001
Epoch 327600, Loss 0.0074949548579752445, lr 0.0001
Epoch 327700, Loss 0.005192264914512634, lr 0.0001
Epoch 327800, Loss 0.009770696982741356, lr 0.0001
Epoch 327900, Loss 0.005190209951251745, lr 0.0001
Epoch 328000, Loss 0.005188485607504845, lr 0.0001
Epoch 328100, Loss 0.19136430323123932, lr 0.0001
Epoch 328200, Loss 0.00519185746088624, lr 0.0001
Epoch 328300, Loss 0.005192204378545284, lr 0.0001
Epoch 328400, Loss 0.005188808310776949, lr 0.0001

Epoch 328500, Loss 0.005187290720641613, lr 0.0001
Epoch 328600, Loss 0.009549644775688648, lr 0.0001
Epoch 328700, Loss 0.01122658234089613, lr 0.0001
Epoch 328800, Loss 0.007681460119783878, lr 0.0001
Epoch 328900, Loss 0.03354604169726372, lr 0.0001
Epoch 329000, Loss 0.010698646306991577, lr 0.0001
Epoch 329100, Loss 0.008014530874788761, lr 0.0001
Epoch 329200, Loss 0.0073638129979372025, lr 0.0001
Epoch 329300, Loss 0.006144534330815077, lr 0.0001
Epoch 329400, Loss 0.00570727838203311, lr 0.0001
Epoch 329500, Loss 0.005675366148352623, lr 0.0001
Epoch 329600, Loss 0.009846246801316738, lr 0.0001
Epoch 329700, Loss 0.007727300748229027, lr 0.0001
Epoch 329800, Loss 0.025793924927711487, lr 0.0001
Epoch 329900, Loss 0.00518270255997777, lr 0.0001
Epoch 330000, Loss 0.005749465897679329, lr 0.0001
Epoch 330100, Loss 0.09860756993293762, lr 0.0001
Epoch 330200, Loss 0.005170697811990976, lr 0.0001
Epoch 330300, Loss 0.0051974942907691, lr 0.0001
Epoch 330400, Loss 0.0054580275900661945, lr 0.0001
Epoch 330500, Loss 0.005170213989913464, lr 0.0001
Epoch 330600, Loss 0.00516679510474205, lr 0.0001
Epoch 330700, Loss 0.08160527795553207, lr 0.0001
Epoch 330800, Loss 0.01709439419209957, lr 0.0001
Epoch 330900, Loss 0.008586746640503407, lr 0.0001
Epoch 331000, Loss 0.06725619733333588, lr 0.0001
Epoch 331100, Loss 0.005198056809604168, lr 0.0001
Epoch 331200, Loss 0.2569469213485718, lr 0.0001
Epoch 331300, Loss 0.2887953817844391, lr 0.0001
Epoch 331400, Loss 0.056021798402071, lr 0.0001
Epoch 331500, Loss 0.024334048852324486, lr 0.0001
Epoch 331600, Loss 0.005257305223494768, lr 0.0001
Epoch 331700, Loss 0.13293060660362244, lr 0.0001
Epoch 331800, Loss 0.005178175400942564, lr 0.0001
Epoch 331900, Loss 0.005153786391019821, lr 0.0001
Epoch 332000, Loss 0.005515741184353828, lr 0.0001
Epoch 332100, Loss 0.00515227485448122, lr 0.0001
Epoch 332200, Loss 0.005149880889803171, lr 0.0001
Epoch 332300, Loss 0.028181597590446472, lr 0.0001
Epoch 332400, Loss 0.005152860656380653, lr 0.0001
Epoch 332500, Loss 0.0051491474732756615, lr 0.0001
Epoch 332600, Loss 0.0051489598117768764, lr 0.0001
Epoch 332700, Loss 0.00514798192307353, lr 0.0001
Epoch 332800, Loss 0.09979395568370819, lr 0.0001
Epoch 332900, Loss 0.07894163578748703, lr 0.0001
Epoch 333000, Loss 0.005199873354285955, lr 0.0001
Epoch 333100, Loss 0.02066613920032978, lr 0.0001
Epoch 333200, Loss 0.005140512250363827, lr 0.0001

Epoch 333300, Loss 0.13048849999904633, lr 0.0001
Epoch 333400, Loss 0.005145499482750893, lr 0.0001
Epoch 333500, Loss 0.007117453962564468, lr 0.0001
Epoch 333600, Loss 0.005140733905136585, lr 0.0001
Epoch 333700, Loss 0.006544959265738726, lr 0.0001
Epoch 333800, Loss 0.005137599539011717, lr 0.0001
Epoch 333900, Loss 0.005133429542183876, lr 0.0001
Epoch 334000, Loss 0.012510175816714764, lr 0.0001
Epoch 334100, Loss 0.005139245186001062, lr 0.0001
Epoch 334200, Loss 0.005137485917657614, lr 0.0001
Epoch 334300, Loss 0.0051350961439311504, lr 0.0001
Epoch 334400, Loss 0.00513489218428731, lr 0.0001
Epoch 334500, Loss 0.005138271953910589, lr 0.0001
Epoch 334600, Loss 0.005345389246940613, lr 0.0001
Epoch 334700, Loss 0.005130591336637735, lr 0.0001
Epoch 334800, Loss 0.005127132870256901, lr 0.0001
Epoch 334900, Loss 0.013655791990458965, lr 0.0001
Epoch 335000, Loss 0.005131745245307684, lr 0.0001
Epoch 335100, Loss 0.005125772673636675, lr 0.0001
Epoch 335200, Loss 0.10024984180927277, lr 0.0001
Epoch 335300, Loss 0.00512679060921073, lr 0.0001
Epoch 335400, Loss 0.005235855467617512, lr 0.0001
Epoch 335500, Loss 0.00513071846216917, lr 0.0001
Epoch 335600, Loss 0.005122247617691755, lr 0.0001
Epoch 335700, Loss 0.005124037619680166, lr 0.0001
Epoch 335800, Loss 0.15517759323120117, lr 0.0001
Epoch 335900, Loss 0.005128582939505577, lr 0.0001
Epoch 336000, Loss 0.005122205708175898, lr 0.0001
Epoch 336100, Loss 0.005118228029459715, lr 0.0001
Epoch 336200, Loss 0.005119788460433483, lr 0.0001
Epoch 336300, Loss 0.006068598013371229, lr 0.0001
Epoch 336400, Loss 0.005116300657391548, lr 0.0001
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Epoch 336800, Loss 0.005111942533403635, lr 0.0001
Epoch 336900, Loss 0.005109936464577913, lr 0.0001
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Epoch 337100, Loss 0.005231189541518688, lr 0.0001
Epoch 337200, Loss 0.005166623275727034, lr 0.0001
Epoch 337300, Loss 0.007670552935451269, lr 0.0001
Epoch 337400, Loss 0.005333821289241314, lr 0.0001
Epoch 337500, Loss 0.005332305561751127, lr 0.0001
Epoch 337600, Loss 0.005108694080263376, lr 0.0001
Epoch 337700, Loss 0.005104392766952515, lr 0.0001
Epoch 337800, Loss 0.012219066731631756, lr 0.0001
Epoch 337900, Loss 0.005108944606035948, lr 0.0001
Epoch 338000, Loss 0.005106016062200069, lr 0.0001

Epoch 338100, Loss 0.005106052849441767, lr 0.0001
Epoch 338200, Loss 0.005102604161947966, lr 0.0001
Epoch 338300, Loss 0.005117126740515232, lr 0.0001
Epoch 338400, Loss 0.005153525620698929, lr 0.0001
Epoch 338500, Loss 0.005100938491523266, lr 0.0001
Epoch 338600, Loss 0.008670223876833916, lr 0.0001
Epoch 338700, Loss 0.005098934751003981, lr 0.0001
Epoch 338800, Loss 0.005098761059343815, lr 0.0001
Epoch 338900, Loss 0.005095179192721844, lr 0.0001
Epoch 339000, Loss 0.005495447665452957, lr 0.0001
Epoch 339100, Loss 0.005252885166555643, lr 0.0001
Epoch 339200, Loss 0.0050935298204422, lr 0.0001
Epoch 339300, Loss 0.005094599444419146, lr 0.0001
Epoch 339400, Loss 0.005094266030937433, lr 0.0001
Epoch 339500, Loss 0.005092288367450237, lr 0.0001
Epoch 339600, Loss 0.005121403839439154, lr 0.0001
Epoch 339700, Loss 0.0062589263543486595, lr 0.0001
Epoch 339800, Loss 0.05012388899922371, lr 0.0001
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Epoch 340400, Loss 0.005428807344287634, lr 0.0001
Epoch 340500, Loss 0.006582116708159447, lr 0.0001
Epoch 340600, Loss 0.005084176082164049, lr 0.0001
Epoch 340700, Loss 0.018375715240836143, lr 0.0001
Epoch 340800, Loss 0.005080812610685825, lr 0.0001
Epoch 340900, Loss 0.005077586974948645, lr 0.0001
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Epoch 341100, Loss 0.005129742901772261, lr 0.0001
Epoch 341200, Loss 0.005079647991806269, lr 0.0001
Epoch 341300, Loss 0.0050793238915503025, lr 0.0001
Epoch 341400, Loss 0.005076872184872627, lr 0.0001
Epoch 341500, Loss 0.005076767411082983, lr 0.0001
Epoch 341600, Loss 0.008358948864042759, lr 0.0001
Epoch 341700, Loss 0.012677487917244434, lr 0.0001
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Epoch 341900, Loss 0.008147839456796646, lr 0.0001
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Epoch 342200, Loss 0.03183439001441002, lr 0.0001
Epoch 342300, Loss 0.005135085433721542, lr 0.0001
Epoch 342400, Loss 0.05579516291618347, lr 0.0001
Epoch 342500, Loss 0.011240433901548386, lr 0.0001
Epoch 342600, Loss 0.005072447005659342, lr 0.0001
Epoch 342700, Loss 0.007916819304227829, lr 0.0001
Epoch 342800, Loss 0.6286395788192749, lr 0.0001

Epoch 342900, Loss 0.00507635623216629, lr 0.0001
Epoch 343000, Loss 0.015755290165543556, lr 0.0001
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Epoch 343200, Loss 0.1462201178073883, lr 0.0001
Epoch 343300, Loss 0.009097397327423096, lr 0.0001
Epoch 343400, Loss 0.08896778523921967, lr 0.0001
Epoch 343500, Loss 0.03997710719704628, lr 0.0001
Epoch 343600, Loss 0.005165965761989355, lr 0.0001
Epoch 343700, Loss 0.006658472586423159, lr 0.0001
Epoch 343800, Loss 0.017700722441077232, lr 0.0001
Epoch 343900, Loss 0.005057849455624819, lr 0.0001
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Epoch 344500, Loss 0.005050758831202984, lr 0.0001
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Epoch 344700, Loss 0.005046148784458637, lr 0.0001
Epoch 344800, Loss 0.0050460826605558395, lr 0.0001
Epoch 344900, Loss 0.0050440081395208836, lr 0.0001
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Epoch 345400, Loss 0.0050431895069777966, lr 0.0001
Epoch 345500, Loss 0.005042926874011755, lr 0.0001
Epoch 345600, Loss 0.005042721517384052, lr 0.0001
Epoch 345700, Loss 0.005043023731559515, lr 0.0001
Epoch 345800, Loss 0.0050384593196213245, lr 0.0001
Epoch 345900, Loss 0.005040107760578394, lr 0.0001
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Epoch 346200, Loss 0.005038043484091759, lr 0.0001
Epoch 346300, Loss 0.049373455345630646, lr 0.0001
Epoch 346400, Loss 0.005038037430495024, lr 0.0001
Epoch 346500, Loss 0.005034100264310837, lr 0.0001
Epoch 346600, Loss 0.005034958012402058, lr 0.0001
Epoch 346700, Loss 0.00503360154107213, lr 0.0001
Epoch 346800, Loss 0.0082345400005579, lr 0.0001
Epoch 346900, Loss 0.013696723617613316, lr 0.0001
Epoch 347000, Loss 0.0050321766175329685, lr 0.0001
Epoch 347100, Loss 0.07269839197397232, lr 0.0001
Epoch 347200, Loss 0.005031975917518139, lr 0.0001
Epoch 347300, Loss 0.005028109531849623, lr 0.0001
Epoch 347400, Loss 0.0246666818857193, lr 0.0001
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Epoch 347600, Loss 0.0057030594907701015, lr 0.0001

Epoch 347700, Loss 0.005101223010569811, lr 0.0001
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Epoch 347900, Loss 0.0051399655640125275, lr 0.0001
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Epoch 348100, Loss 0.1571860909461975, lr 0.0001
Epoch 348200, Loss 0.005028693005442619, lr 0.0001
Epoch 348300, Loss 0.0052373879589140415, lr 0.0001
Epoch 348400, Loss 0.005048752296715975, lr 0.0001
Epoch 348500, Loss 0.0050208489410579205, lr 0.0001
Epoch 348600, Loss 0.00545354001224041, lr 0.0001
Epoch 348700, Loss 0.005016886629164219, lr 0.0001
Epoch 348800, Loss 0.005014787893742323, lr 0.0001
Epoch 348900, Loss 0.00566366221755743, lr 0.0001
Epoch 349000, Loss 0.005163105204701424, lr 0.0001
Epoch 349100, Loss 0.0050122677348554134, lr 0.0001
Epoch 349200, Loss 0.005011299159377813, lr 0.0001
Epoch 349300, Loss 0.01397769246250391, lr 0.0001
Epoch 349400, Loss 0.005015426781028509, lr 0.0001
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Epoch 349700, Loss 0.005011384375393391, lr 0.0001
Epoch 349800, Loss 0.005159984342753887, lr 0.0001
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Epoch 350400, Loss 0.005591302644461393, lr 0.0001
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Epoch 350600, Loss 0.008170736953616142, lr 0.0001
Epoch 350700, Loss 0.01019158586859703, lr 0.0001
Epoch 350800, Loss 0.006307697389274836, lr 0.0001
Epoch 350900, Loss 0.005065590143203735, lr 0.0001
Epoch 351000, Loss 0.025222674012184143, lr 0.0001
Epoch 351100, Loss 0.01072336733341217, lr 0.0001
Epoch 351200, Loss 0.005115137435495853, lr 0.0001
Epoch 351300, Loss 0.15148942172527313, lr 0.0001
Epoch 351400, Loss 0.26736980676651, lr 0.0001
Epoch 351500, Loss 0.013242539949715137, lr 0.0001
Epoch 351600, Loss 0.005101372022181749, lr 0.0001
Epoch 351700, Loss 0.00989678967744112, lr 0.0001
Epoch 351800, Loss 0.051556024700403214, lr 0.0001
Epoch 351900, Loss 0.03113975189626217, lr 0.0001
Epoch 352000, Loss 0.005128628108650446, lr 0.0001
Epoch 352100, Loss 0.005067646503448486, lr 0.0001
Epoch 352200, Loss 0.406412273645401, lr 0.0001
Epoch 352300, Loss 0.004991993308067322, lr 0.0001
Epoch 352400, Loss 0.006230808794498444, lr 0.0001

Epoch 352500, Loss 0.0052802651189267635, lr 0.0001
Epoch 352600, Loss 0.006886315532028675, lr 0.0001
Epoch 352700, Loss 0.004993677604943514, lr 0.0001
Epoch 352800, Loss 0.009359043091535568, lr 0.0001
Epoch 352900, Loss 0.005360589362680912, lr 0.0001
Epoch 353000, Loss 0.005390665493905544, lr 0.0001
Epoch 353100, Loss 0.012496679089963436, lr 0.0001
Epoch 353200, Loss 0.004997985437512398, lr 0.0001
Epoch 353300, Loss 0.015649668872356415, lr 0.0001
Epoch 353400, Loss 0.005418397951871157, lr 0.0001
Epoch 353500, Loss 0.06885199248790741, lr 0.0001
Epoch 353600, Loss 0.0523739829659462, lr 0.0001
Epoch 353700, Loss 0.044289711862802505, lr 0.0001
Epoch 353800, Loss 0.005022637080401182, lr 0.0001
Epoch 353900, Loss 0.00599282793700695, lr 0.0001
Epoch 354000, Loss 0.005301235243678093, lr 0.0001
Epoch 354100, Loss 0.031480591744184494, lr 0.0001
Epoch 354200, Loss 0.01263347826898098, lr 0.0001
Epoch 354300, Loss 0.00497051328420639, lr 0.0001
Epoch 354400, Loss 0.01290894951671362, lr 0.0001
Epoch 354500, Loss 0.6180662512779236, lr 0.0001
Epoch 354600, Loss 0.0049714636988937855, lr 0.0001
Epoch 354700, Loss 0.0050744847394526005, lr 0.0001
Epoch 354800, Loss 0.01746635138988495, lr 0.0001
Epoch 354900, Loss 0.00520814536139369, lr 0.0001
Epoch 355000, Loss 0.005458470433950424, lr 0.0001
Epoch 355100, Loss 0.48961398005485535, lr 0.0001
Epoch 355200, Loss 0.004978132899850607, lr 0.0001
Epoch 355300, Loss 0.008827898651361465, lr 0.0001
Epoch 355400, Loss 0.005086766090244055, lr 0.0001
Epoch 355500, Loss 0.005279363598674536, lr 0.0001
Epoch 355600, Loss 0.004957281518727541, lr 0.0001
Epoch 355700, Loss 0.012295720167458057, lr 0.0001
Epoch 355800, Loss 0.004955728072673082, lr 0.0001
Epoch 355900, Loss 0.23093701899051666, lr 0.0001
Epoch 356000, Loss 0.27117452025413513, lr 0.0001
Epoch 356100, Loss 0.004960894584655762, lr 0.0001
Epoch 356200, Loss 0.005029188934713602, lr 0.0001
Epoch 356300, Loss 0.004983058664947748, lr 0.0001
Epoch 356400, Loss 0.004948353860527277, lr 0.0001
Epoch 356500, Loss 0.006119185592979193, lr 0.0001
Epoch 356600, Loss 0.02815571054816246, lr 0.0001
Epoch 356700, Loss 0.004984790924936533, lr 0.0001
Epoch 356800, Loss 0.005667693912982941, lr 0.0001
Epoch 356900, Loss 0.004945084918290377, lr 0.0001
Epoch 357000, Loss 0.8673712015151978, lr 0.0001
Epoch 357100, Loss 0.004960471764206886, lr 0.0001
Epoch 357200, Loss 0.004942466039210558, lr 0.0001

Epoch 357300, Loss 0.004943425767123699, lr 0.0001
Epoch 357400, Loss 0.10863471776247025, lr 0.0001
Epoch 357500, Loss 0.004945757333189249, lr 0.0001
Epoch 357600, Loss 0.004939718171954155, lr 0.0001
Epoch 357700, Loss 0.0049417344853281975, lr 0.0001
Epoch 357800, Loss 0.004940034355968237, lr 0.0001
Epoch 357900, Loss 0.008762192912399769, lr 0.0001
Epoch 358000, Loss 0.00610776711255312, lr 0.0001
Epoch 358100, Loss 0.02286379039287567, lr 0.0001
Epoch 358200, Loss 0.008707881905138493, lr 0.0001
Epoch 358300, Loss 0.21717774868011475, lr 0.0001
Epoch 358400, Loss 0.013177820481359959, lr 0.0001
Epoch 358500, Loss 0.01783393695950508, lr 0.0001
Epoch 358600, Loss 0.04325702786445618, lr 0.0001
Epoch 358700, Loss 0.007451515179127455, lr 0.0001
Epoch 358800, Loss 0.005416621454060078, lr 0.0001
Epoch 358900, Loss 0.005169129930436611, lr 0.0001
Epoch 359000, Loss 0.02221345156431198, lr 0.0001
Epoch 359100, Loss 0.09295295923948288, lr 0.0001
Epoch 359200, Loss 0.0049943942576646805, lr 0.0001
Epoch 359300, Loss 0.005073505453765392, lr 0.0001
Epoch 359400, Loss 0.01490581501275301, lr 0.0001
Epoch 359500, Loss 0.004978273995220661, lr 0.0001
Epoch 359600, Loss 0.0054183113388717175, lr 0.0001
Epoch 359700, Loss 0.0050566052086651325, lr 0.0001
Epoch 359800, Loss 0.004993607755750418, lr 0.0001
Epoch 359900, Loss 0.3705085515975952, lr 0.0001
Epoch 360000, Loss 0.004955795593559742, lr 0.0001
Epoch 360100, Loss 0.04719417542219162, lr 0.0001
Epoch 360200, Loss 0.004921718966215849, lr 0.0001
Epoch 360300, Loss 0.004922650288790464, lr 0.0001
Epoch 360400, Loss 0.04565555974841118, lr 0.0001
Epoch 360500, Loss 0.004917960613965988, lr 0.0001
Epoch 360600, Loss 0.004916944541037083, lr 0.0001
Epoch 360700, Loss 0.005042328033596277, lr 0.0001
Epoch 360800, Loss 0.004912191070616245, lr 0.0001
Epoch 360900, Loss 0.03251541778445244, lr 0.0001
Epoch 361000, Loss 0.08754216134548187, lr 0.0001
Epoch 361100, Loss 0.24281418323516846, lr 0.0001
Epoch 361200, Loss 0.06313609331846237, lr 0.0001
Epoch 361300, Loss 0.004930971190333366, lr 0.0001
Epoch 361400, Loss 0.0052009993232786655, lr 0.0001
Epoch 361500, Loss 0.004905786365270615, lr 0.0001
Epoch 361600, Loss 0.005486929323524237, lr 0.0001
Epoch 361700, Loss 0.004906844813376665, lr 0.0001
Epoch 361800, Loss 0.004902482498437166, lr 0.0001
Epoch 361900, Loss 0.1825440376996994, lr 0.0001
Epoch 362000, Loss 0.0049113985151052475, lr 0.0001

Epoch 362100, Loss 0.0049011181108653545, lr 0.0001
Epoch 362200, Loss 0.004991120658814907, lr 0.0001
Epoch 362300, Loss 0.004943938925862312, lr 0.0001
Epoch 362400, Loss 0.01993503049015999, lr 0.0001
Epoch 362500, Loss 0.026707904413342476, lr 0.0001
Epoch 362600, Loss 0.38553181290626526, lr 0.0001
Epoch 362700, Loss 0.00489927688613534, lr 0.0001
Epoch 362800, Loss 0.005457547027617693, lr 0.0001
Epoch 362900, Loss 0.0050921980291605, lr 0.0001
Epoch 363000, Loss 0.005011721048504114, lr 0.0001
Epoch 363100, Loss 0.00489271804690361, lr 0.0001
Epoch 363200, Loss 0.16828510165214539, lr 0.0001
Epoch 363300, Loss 0.06655634194612503, lr 0.0001
Epoch 363400, Loss 0.004906337708234787, lr 0.0001
Epoch 363500, Loss 0.005335635505616665, lr 0.0001
Epoch 363600, Loss 0.017463786527514458, lr 0.0001
Epoch 363700, Loss 0.0048967511393129826, lr 0.0001
Epoch 363800, Loss 0.007669634651392698, lr 0.0001
Epoch 363900, Loss 0.08184193074703217, lr 0.0001
Epoch 364000, Loss 0.010203649289906025, lr 0.0001
Epoch 364100, Loss 0.005341633688658476, lr 0.0001
Epoch 364200, Loss 0.004884795285761356, lr 0.0001
Epoch 364300, Loss 0.008973784744739532, lr 0.0001
Epoch 364400, Loss 0.006203841883689165, lr 0.0001
Epoch 364500, Loss 0.028562530875205994, lr 0.0001
Epoch 364600, Loss 0.004886561539024115, lr 0.0001
Epoch 364700, Loss 0.006227331236004829, lr 0.0001
Epoch 364800, Loss 0.005585252773016691, lr 0.0001
Epoch 364900, Loss 0.005604810547083616, lr 0.0001
Epoch 365000, Loss 0.004918334074318409, lr 0.0001
Epoch 365100, Loss 0.21226796507835388, lr 0.0001
Epoch 365200, Loss 0.004887830466032028, lr 0.0001
Epoch 365300, Loss 0.05379322171211243, lr 0.0001
Epoch 365400, Loss 0.004877129103988409, lr 0.0001
Epoch 365500, Loss 0.0048760841600596905, lr 0.0001
Epoch 365600, Loss 0.3019101321697235, lr 0.0001
Epoch 365700, Loss 0.004888686817139387, lr 0.0001
Epoch 365800, Loss 0.004873374011367559, lr 0.0001
Epoch 365900, Loss 0.004868979565799236, lr 0.0001
Epoch 366000, Loss 0.03401510789990425, lr 0.0001
Epoch 366100, Loss 0.004871949553489685, lr 0.0001
Epoch 366200, Loss 0.004870148841291666, lr 0.0001
Epoch 366300, Loss 0.0048674605786800385, lr 0.0001
Epoch 366400, Loss 0.005128819961100817, lr 0.0001
Epoch 366500, Loss 0.02659371681511402, lr 0.0001
Epoch 366600, Loss 0.0051416694186627865, lr 0.0001
Epoch 366700, Loss 0.005136088002473116, lr 0.0001
Epoch 366800, Loss 0.008327187970280647, lr 0.0001

Epoch 366900, Loss 0.005282685160636902, lr 0.0001
Epoch 367000, Loss 0.00997598934918642, lr 0.0001
Epoch 367100, Loss 0.006873073056340218, lr 0.0001
Epoch 367200, Loss 0.02161545492708683, lr 0.0001
Epoch 367300, Loss 0.013849655166268349, lr 0.0001
Epoch 367400, Loss 0.0865299180150032, lr 0.0001
Epoch 367500, Loss 0.02741769514977932, lr 0.0001
Epoch 367600, Loss 0.03191438689827919, lr 0.0001
Epoch 367700, Loss 0.005061388481408358, lr 0.0001
Epoch 367800, Loss 0.005455312319099903, lr 0.0001
Epoch 367900, Loss 0.017137272283434868, lr 0.0001
Epoch 368000, Loss 0.008860655128955841, lr 0.0001
Epoch 368100, Loss 0.004889997188001871, lr 0.0001
Epoch 368200, Loss 0.005079712253063917, lr 0.0001
Epoch 368300, Loss 0.022433944046497345, lr 0.0001
Epoch 368400, Loss 0.04847664386034012, lr 0.0001
Epoch 368500, Loss 0.004861369729042053, lr 0.0001
Epoch 368600, Loss 0.0053780339658260345, lr 0.0001
Epoch 368700, Loss 0.005139617249369621, lr 0.0001
Epoch 368800, Loss 0.005290589295327663, lr 0.0001
Epoch 368900, Loss 0.004844529554247856, lr 0.0001
Epoch 369000, Loss 0.004851846024394035, lr 0.0001
Epoch 369100, Loss 0.0059551359154284, lr 0.0001
Epoch 369200, Loss 0.004845400340855122, lr 0.0001
Epoch 369300, Loss 0.004842475987970829, lr 0.0001
Epoch 369400, Loss 0.004845153074711561, lr 0.0001
Epoch 369500, Loss 0.00484128762036562, lr 0.0001
Epoch 369600, Loss 0.01084316149353981, lr 0.0001
Epoch 369700, Loss 0.004843818489462137, lr 0.0001
Epoch 369800, Loss 0.023145675659179688, lr 0.0001
Epoch 369900, Loss 0.0048429169692099094, lr 0.0001
Epoch 370000, Loss 0.016217952594161034, lr 0.0001
Epoch 370100, Loss 0.004839032422751188, lr 0.0001
Epoch 370200, Loss 0.004837623797357082, lr 0.0001
Epoch 370300, Loss 0.01108202151954174, lr 0.0001
Epoch 370400, Loss 0.004836243577301502, lr 0.0001
Epoch 370500, Loss 0.00483575277030468, lr 0.0001
Epoch 370600, Loss 0.007439931854605675, lr 0.0001
Epoch 370700, Loss 0.004834430757910013, lr 0.0001
Epoch 370800, Loss 0.004832322243601084, lr 0.0001
Epoch 370900, Loss 0.004835084080696106, lr 0.0001
Epoch 371000, Loss 0.008157606236636639, lr 0.0001
Epoch 371100, Loss 0.004855455365031958, lr 0.0001
Epoch 371200, Loss 0.005366528872400522, lr 0.0001
Epoch 371300, Loss 0.004993995185941458, lr 0.0001
Epoch 371400, Loss 0.015134653076529503, lr 0.0001
Epoch 371500, Loss 0.22686299681663513, lr 0.0001
Epoch 371600, Loss 0.2852478325366974, lr 0.0001

Epoch 371700, Loss 0.015330012887716293, lr 0.0001
Epoch 371800, Loss 0.05044422298669815, lr 0.0001
Epoch 371900, Loss 0.0332854725420475, lr 0.0001
Epoch 372000, Loss 0.005413405131548643, lr 0.0001
Epoch 372100, Loss 0.005387218669056892, lr 0.0001
Epoch 372200, Loss 0.16034138202667236, lr 0.0001
Epoch 372300, Loss 0.05413585156202316, lr 0.0001
Epoch 372400, Loss 0.0838117003440857, lr 0.0001
Epoch 372500, Loss 0.36639904975891113, lr 0.0001
Epoch 372600, Loss 0.005402524955570698, lr 0.0001
Epoch 372700, Loss 0.004940196871757507, lr 0.0001
Epoch 372800, Loss 0.03638363257050514, lr 0.0001
Epoch 372900, Loss 0.0048181465826928616, lr 0.0001
Epoch 373000, Loss 0.004816039931029081, lr 0.0001
Epoch 373100, Loss 0.014982807449996471, lr 0.0001
Epoch 373200, Loss 0.0048171719536185265, lr 0.0001
Epoch 373300, Loss 0.004816063679754734, lr 0.0001
Epoch 373400, Loss 0.004812726750969887, lr 0.0001
Epoch 373500, Loss 0.004810500890016556, lr 0.0001
Epoch 373600, Loss 0.004810827784240246, lr 0.0001
Epoch 373700, Loss 0.005176014732569456, lr 0.0001
Epoch 373800, Loss 0.004814641550183296, lr 0.0001
Epoch 373900, Loss 0.004811575636267662, lr 0.0001
Epoch 374000, Loss 0.004811789840459824, lr 0.0001
Epoch 374100, Loss 0.004810924641788006, lr 0.0001
Epoch 374200, Loss 0.004808726254850626, lr 0.0001
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Epoch 374400, Loss 0.004806016571819782, lr 0.0001
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Epoch 374700, Loss 0.004814119543880224, lr 0.0001
Epoch 374800, Loss 0.004810784477740526, lr 0.0001
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Epoch 375200, Loss 0.0048034884966909885, lr 0.0001
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Epoch 375700, Loss 0.004798252135515213, lr 0.0001
Epoch 375800, Loss 0.05005531385540962, lr 0.0001
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Epoch 376000, Loss 0.004798442590981722, lr 0.0001
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Epoch 376800, Loss 0.00492974603548646, lr 0.0001
Epoch 376900, Loss 0.009519139304757118, lr 0.0001
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Epoch 377200, Loss 0.00552594568580389, lr 0.0001
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Epoch 377500, Loss 0.006980345584452152, lr 0.0001
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Epoch 377900, Loss 0.0048004016280174255, lr 0.0001
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Epoch 378600, Loss 0.0048325397074222565, lr 0.0001
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Epoch 379200, Loss 0.004971643444150686, lr 0.0001
Epoch 379300, Loss 0.07440714538097382, lr 0.0001
Epoch 379400, Loss 0.03278107941150665, lr 0.0001
Epoch 379500, Loss 0.0047725895419716835, lr 0.0001
Epoch 379600, Loss 0.00785799790173769, lr 0.0001
Epoch 379700, Loss 0.00951902661472559, lr 0.0001
Epoch 379800, Loss 0.006371443159878254, lr 0.0001
Epoch 379900, Loss 0.016484087333083153, lr 0.0001
Epoch 380000, Loss 0.009858079254627228, lr 0.0001
Epoch 380100, Loss 0.006903813686221838, lr 0.0001
Epoch 380200, Loss 0.10084381699562073, lr 0.0001
Epoch 380300, Loss 0.004770656581968069, lr 0.0001
Epoch 380400, Loss 0.006269625388085842, lr 0.0001
Epoch 380500, Loss 0.0048674955032765865, lr 0.0001
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Epoch 380700, Loss 0.004759697243571281, lr 0.0001
Epoch 380800, Loss 0.01738295517861843, lr 0.0001
Epoch 380900, Loss 0.004758918657898903, lr 0.0001
Epoch 381000, Loss 0.0047587258741259575, lr 0.0001
Epoch 381100, Loss 0.004757607821375132, lr 0.0001
Epoch 381200, Loss 0.0520070381462574, lr 0.0001

Epoch 381300, Loss 0.004757947754114866, lr 0.0001
Epoch 381400, Loss 0.004860001150518656, lr 0.0001
Epoch 381500, Loss 0.0047546736896038055, lr 0.0001
Epoch 381600, Loss 0.02576092630624771, lr 0.0001
Epoch 381700, Loss 0.004751618951559067, lr 0.0001
Epoch 381800, Loss 0.004752437584102154, lr 0.0001
Epoch 381900, Loss 0.004751414991915226, lr 0.0001
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Epoch 382200, Loss 0.004749961197376251, lr 0.0001
Epoch 382300, Loss 0.03479217365384102, lr 0.0001
Epoch 382400, Loss 0.005598210263997316, lr 0.0001
Epoch 382500, Loss 0.010799560695886612, lr 0.0001
Epoch 382600, Loss 0.04121411591768265, lr 0.0001
Epoch 382700, Loss 0.00476437620818615, lr 0.0001
Epoch 382800, Loss 0.008981856517493725, lr 0.0001
Epoch 382900, Loss 0.029727263376116753, lr 0.0001
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Epoch 383200, Loss 0.015203157439827919, lr 0.0001
Epoch 383300, Loss 0.00474014924839139, lr 0.0001
Epoch 383400, Loss 0.005035927519202232, lr 0.0001
Epoch 383500, Loss 0.004787705838680267, lr 0.0001
Epoch 383600, Loss 0.004738766700029373, lr 0.0001
Epoch 383700, Loss 0.004738257732242346, lr 0.0001
Epoch 383800, Loss 0.007655397988855839, lr 0.0001
Epoch 383900, Loss 0.004781852941960096, lr 0.0001
Epoch 384000, Loss 0.004816202446818352, lr 0.0001
Epoch 384100, Loss 0.07202969491481781, lr 0.0001
Epoch 384200, Loss 0.004774340428411961, lr 0.0001
Epoch 384300, Loss 0.0047329626977443695, lr 0.0001
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Epoch 384500, Loss 0.0070634386502206326, lr 0.0001
Epoch 384600, Loss 0.004735325928777456, lr 0.0001
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Epoch 384900, Loss 0.004729463718831539, lr 0.0001
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Epoch 385100, Loss 0.004728095140308142, lr 0.0001
Epoch 385200, Loss 0.022884991019964218, lr 0.0001
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Epoch 385400, Loss 0.004725280217826366, lr 0.0001
Epoch 385500, Loss 0.004725859500467777, lr 0.0001
Epoch 385600, Loss 0.17397795617580414, lr 0.0001
Epoch 385700, Loss 0.004739372059702873, lr 0.0001
Epoch 385800, Loss 0.004723972640931606, lr 0.0001
Epoch 385900, Loss 0.0047243996523320675, lr 0.0001
Epoch 386000, Loss 0.004722660407423973, lr 0.0001

Epoch 386100, Loss 0.08713849633932114, lr 0.0001
Epoch 386200, Loss 0.004725816659629345, lr 0.0001
Epoch 386300, Loss 0.004719979129731655, lr 0.0001
Epoch 386400, Loss 0.006390122696757317, lr 0.0001
Epoch 386500, Loss 0.004721885547041893, lr 0.0001
Epoch 386600, Loss 0.0047205002047121525, lr 0.0001
Epoch 386700, Loss 0.004722690675407648, lr 0.0001
Epoch 386800, Loss 0.004718164447695017, lr 0.0001
Epoch 386900, Loss 0.004718293901532888, lr 0.0001
Epoch 387000, Loss 0.005480597261339426, lr 0.0001
Epoch 387100, Loss 0.004721854813396931, lr 0.0001
Epoch 387200, Loss 0.00471802381798625, lr 0.0001
Epoch 387300, Loss 0.004716850817203522, lr 0.0001
Epoch 387400, Loss 0.005831775721162558, lr 0.0001
Epoch 387500, Loss 0.004716844297945499, lr 0.0001
Epoch 387600, Loss 0.0047128223814070225, lr 0.0001
Epoch 387700, Loss 0.0047130887396633625, lr 0.0001
Epoch 387800, Loss 0.006391393020749092, lr 0.0001
Epoch 387900, Loss 0.03109237737953663, lr 0.0001
Epoch 388000, Loss 0.004715985152870417, lr 0.0001
Epoch 388100, Loss 0.005265854764729738, lr 0.0001
Epoch 388200, Loss 0.006280997302383184, lr 0.0001
Epoch 388300, Loss 0.006037175189703703, lr 0.0001
Epoch 388400, Loss 0.03073364868760109, lr 0.0001
Epoch 388500, Loss 0.0047151618637144566, lr 0.0001
Epoch 388600, Loss 0.005914438981562853, lr 0.0001
Epoch 388700, Loss 0.007198694162070751, lr 0.0001
Epoch 388800, Loss 0.005050609353929758, lr 0.0001
Epoch 388900, Loss 0.13872577250003815, lr 0.0001
Epoch 389000, Loss 0.004720795433968306, lr 0.0001
Epoch 389100, Loss 0.008141661062836647, lr 0.0001
Epoch 389200, Loss 0.0047822631895542145, lr 0.0001
Epoch 389300, Loss 0.004866213072091341, lr 0.0001
Epoch 389400, Loss 0.0047243512235581875, lr 0.0001
Epoch 389500, Loss 0.014514490030705929, lr 0.0001
Epoch 389600, Loss 0.024183783680200577, lr 0.0001
Epoch 389700, Loss 0.009524565190076828, lr 0.0001
Epoch 389800, Loss 0.009250079281628132, lr 0.0001
Epoch 389900, Loss 0.015719275921583176, lr 0.0001
Epoch 390000, Loss 0.005439220927655697, lr 0.0001
Epoch 390100, Loss 0.004780739080160856, lr 0.0001
Epoch 390200, Loss 0.004692372865974903, lr 0.0001
Epoch 390300, Loss 0.7320447564125061, lr 0.0001
Epoch 390400, Loss 0.004708738066256046, lr 0.0001
Epoch 390500, Loss 0.004693314898759127, lr 0.0001
Epoch 390600, Loss 0.004690803121775389, lr 0.0001
Epoch 390700, Loss 0.004689695313572884, lr 0.0001
Epoch 390800, Loss 0.03829425200819969, lr 0.0001

Epoch 390900, Loss 0.004689611494541168, lr 0.0001
Epoch 391000, Loss 0.004688594490289688, lr 0.0001
Epoch 391100, Loss 0.0075041186064481735, lr 0.0001
Epoch 391200, Loss 0.004689559806138277, lr 0.0001
Epoch 391300, Loss 0.004686060361564159, lr 0.0001
Epoch 391400, Loss 0.004685327410697937, lr 0.0001
Epoch 391500, Loss 0.004683549981564283, lr 0.0001
Epoch 391600, Loss 0.0046858759596943855, lr 0.0001
Epoch 391700, Loss 0.004684218671172857, lr 0.0001
Epoch 391800, Loss 0.021081609651446342, lr 0.0001
Epoch 391900, Loss 0.004687087144702673, lr 0.0001
Epoch 392000, Loss 0.004679795354604721, lr 0.0001
Epoch 392100, Loss 0.004681955557316542, lr 0.0001
Epoch 392200, Loss 0.0046828025951981544, lr 0.0001
Epoch 392300, Loss 0.0046806843020021915, lr 0.0001
Epoch 392400, Loss 0.004681081045418978, lr 0.0001
Epoch 392500, Loss 0.005968459881842136, lr 0.0001
Epoch 392600, Loss 0.004683771636337042, lr 0.0001
Epoch 392700, Loss 0.004681737162172794, lr 0.0001
Epoch 392800, Loss 0.004678996745496988, lr 0.0001
Epoch 392900, Loss 0.004680323880165815, lr 0.0001
Epoch 393000, Loss 0.004677239805459976, lr 0.0001
Epoch 393100, Loss 0.0046817706897854805, lr 0.0001
Epoch 393200, Loss 0.0048930286429822445, lr 0.0001
Epoch 393300, Loss 0.004673481918871403, lr 0.0001
Epoch 393400, Loss 0.06544875353574753, lr 0.0001
Epoch 393500, Loss 0.004680470563471317, lr 0.0001
Epoch 393600, Loss 0.004675328731536865, lr 0.0001
Epoch 393700, Loss 0.0046737296506762505, lr 0.0001
Epoch 393800, Loss 0.004672613460570574, lr 0.0001
Epoch 393900, Loss 0.004676025826483965, lr 0.0001
Epoch 394000, Loss 0.005227609537541866, lr 0.0001
Epoch 394100, Loss 0.0046714190393686295, lr 0.0001
Epoch 394200, Loss 0.004672359675168991, lr 0.0001
Epoch 394300, Loss 0.004670287482440472, lr 0.0001
Epoch 394400, Loss 0.006329021416604519, lr 0.0001
Epoch 394500, Loss 0.004670989699661732, lr 0.0001
Epoch 394600, Loss 0.004667662084102631, lr 0.0001
Epoch 394700, Loss 0.004667538683861494, lr 0.0001
Epoch 394800, Loss 0.02279154770076275, lr 0.0001
Epoch 394900, Loss 0.004664032720029354, lr 0.0001
Epoch 395000, Loss 0.15822778642177582, lr 0.0001
Epoch 395100, Loss 0.0046661351807415485, lr 0.0001
Epoch 395200, Loss 0.004662274848669767, lr 0.0001
Epoch 395300, Loss 0.004663112107664347, lr 0.0001
Epoch 395400, Loss 0.00471300445497036, lr 0.0001
Epoch 395500, Loss 0.004660891834646463, lr 0.0001
Epoch 395600, Loss 0.0093417689204216, lr 0.0001

Epoch 395700, Loss 0.005663956981152296, lr 0.0001
Epoch 395800, Loss 0.006146060768514872, lr 0.0001
Epoch 395900, Loss 0.2667843699455261, lr 0.0001
Epoch 396000, Loss 0.004673210438340902, lr 0.0001
Epoch 396100, Loss 0.0051776389591395855, lr 0.0001
Epoch 396200, Loss 0.0055232965387403965, lr 0.0001
Epoch 396300, Loss 0.004655197262763977, lr 0.0001
Epoch 396400, Loss 0.010555741377174854, lr 0.0001
Epoch 396500, Loss 0.0046534230932593346, lr 0.0001
Epoch 396600, Loss 0.014476037584245205, lr 0.0001
Epoch 396700, Loss 0.00497866328805685, lr 0.0001
Epoch 396800, Loss 0.03020453080534935, lr 0.0001
Epoch 396900, Loss 0.004652854986488819, lr 0.0001
Epoch 397000, Loss 0.006987671367824078, lr 0.0001
Epoch 397100, Loss 0.004656514152884483, lr 0.0001
Epoch 397200, Loss 0.0075902617536485195, lr 0.0001
Epoch 397300, Loss 0.004677614197134972, lr 0.0001
Epoch 397400, Loss 0.02837466448545456, lr 0.0001
Epoch 397500, Loss 0.008176752366125584, lr 0.0001
Epoch 397600, Loss 0.009148960933089256, lr 0.0001
Epoch 397700, Loss 0.052036598324775696, lr 0.0001
Epoch 397800, Loss 0.06096380949020386, lr 0.0001
Epoch 397900, Loss 0.004670922178775072, lr 0.0001
Epoch 398000, Loss 0.005566056352108717, lr 0.0001
Epoch 398100, Loss 0.05303633213043213, lr 0.0001
Epoch 398200, Loss 0.005494814831763506, lr 0.0001
Epoch 398300, Loss 0.005837043281644583, lr 0.0001
Epoch 398400, Loss 0.15259771049022675, lr 0.0001
Epoch 398500, Loss 0.313858300447464, lr 0.0001
Epoch 398600, Loss 0.07021186500787735, lr 0.0001
Epoch 398700, Loss 0.0162140391767025, lr 0.0001
Epoch 398800, Loss 0.014421011321246624, lr 0.0001
Epoch 398900, Loss 0.08243538439273834, lr 0.0001
Epoch 399000, Loss 0.04003370180726051, lr 0.0001
Epoch 399100, Loss 0.00764838233590126, lr 0.0001
Epoch 399200, Loss 0.00918644480407238, lr 0.0001
Epoch 399300, Loss 0.07963057607412338, lr 0.0001
Epoch 399400, Loss 0.06606917083263397, lr 0.0001
Epoch 399500, Loss 0.004682328552007675, lr 0.0001
Epoch 399600, Loss 0.008060085587203503, lr 0.0001
Epoch 399700, Loss 0.004631113260984421, lr 0.0001
Epoch 399800, Loss 0.006466459948569536, lr 0.0001
Epoch 399900, Loss 0.004628737922757864, lr 0.0001
Epoch 400000, Loss 0.00462633091956377, lr 0.0001
Epoch 400100, Loss 0.024759000167250633, lr 0.0001
Epoch 400200, Loss 0.004702812526375055, lr 0.0001
Epoch 400300, Loss 0.004626153968274593, lr 0.0001
Epoch 400400, Loss 0.004627125803381205, lr 0.0001

Epoch 400500, Loss 0.004624764900654554, lr 0.0001
Epoch 400600, Loss 0.006700086873024702, lr 0.0001
Epoch 400700, Loss 0.005306165665388107, lr 0.0001
Epoch 400800, Loss 0.03270011022686958, lr 0.0001
Epoch 400900, Loss 0.004625124391168356, lr 0.0001
Epoch 401000, Loss 0.006707728840410709, lr 0.0001
Epoch 401100, Loss 0.00461951969191432, lr 0.0001
Epoch 401200, Loss 0.004630898125469685, lr 0.0001
Epoch 401300, Loss 0.004930119030177593, lr 0.0001
Epoch 401400, Loss 0.004617525730282068, lr 0.0001
Epoch 401500, Loss 0.0046159070916473866, lr 0.0001
Epoch 401600, Loss 0.009673085063695908, lr 0.0001
Epoch 401700, Loss 0.004617178812623024, lr 0.0001
Epoch 401800, Loss 0.004613432101905346, lr 0.0001
Epoch 401900, Loss 0.004613687749952078, lr 0.0001
Epoch 402000, Loss 0.004897312261164188, lr 0.0001
Epoch 402100, Loss 0.004743778612464666, lr 0.0001
Epoch 402200, Loss 0.004613248631358147, lr 0.0001
Epoch 402300, Loss 0.004610396455973387, lr 0.0001
Epoch 402400, Loss 0.004611952695995569, lr 0.0001
Epoch 402500, Loss 0.01838458701968193, lr 0.0001
Epoch 402600, Loss 0.0046150218695402145, lr 0.0001
Epoch 402700, Loss 0.004613692872226238, lr 0.0001
Epoch 402800, Loss 0.004613227676600218, lr 0.0001
Epoch 402900, Loss 0.004611308686435223, lr 0.0001
Epoch 403000, Loss 0.004609586670994759, lr 0.0001
Epoch 403100, Loss 0.004614814184606075, lr 0.0001
Epoch 403200, Loss 0.014677182771265507, lr 0.0001
Epoch 403300, Loss 0.004604472313076258, lr 0.0001
Epoch 403400, Loss 0.40918001532554626, lr 0.0001
Epoch 403500, Loss 0.004615413956344128, lr 0.0001
Epoch 403600, Loss 0.004603100009262562, lr 0.0001
Epoch 403700, Loss 0.004606418777257204, lr 0.0001
Epoch 403800, Loss 0.004652734845876694, lr 0.0001
Epoch 403900, Loss 0.00485346419736743, lr 0.0001
Epoch 404000, Loss 0.004602561704814434, lr 0.0001
Epoch 404100, Loss 0.00473761884495616, lr 0.0001
Epoch 404200, Loss 0.004987348336726427, lr 0.0001
Epoch 404300, Loss 0.004601018037647009, lr 0.0001
Epoch 404400, Loss 0.0045976159162819386, lr 0.0001
Epoch 404500, Loss 0.01572161167860031, lr 0.0001
Epoch 404600, Loss 0.0046014003455638885, lr 0.0001
Epoch 404700, Loss 0.004599781706929207, lr 0.0001
Epoch 404800, Loss 0.004598342813551426, lr 0.0001
Epoch 404900, Loss 0.004598408006131649, lr 0.0001
Epoch 405000, Loss 0.031433120369911194, lr 0.0001
Epoch 405100, Loss 0.12118394672870636, lr 0.0001
Epoch 405200, Loss 0.004634623881429434, lr 0.0001

Epoch 405300, Loss 0.005760722793638706, lr 0.0001
Epoch 405400, Loss 0.17208237946033478, lr 0.0001
Epoch 405500, Loss 0.0045992787927389145, lr 0.0001
Epoch 405600, Loss 0.004591288976371288, lr 0.0001
Epoch 405700, Loss 0.00667016813531518, lr 0.0001
Epoch 405800, Loss 0.0045927660539746284, lr 0.0001
Epoch 405900, Loss 0.004591885022819042, lr 0.0001
Epoch 406000, Loss 0.2335275113582611, lr 0.0001
Epoch 406100, Loss 0.004608181305229664, lr 0.0001
Epoch 406200, Loss 0.004712922032922506, lr 0.0001
Epoch 406300, Loss 0.004585173912346363, lr 0.0001
Epoch 406400, Loss 0.2805584967136383, lr 0.0001
Epoch 406500, Loss 0.004611817188560963, lr 0.0001
Epoch 406600, Loss 0.004587684758007526, lr 0.0001
Epoch 406700, Loss 0.004586630500853062, lr 0.0001
Epoch 406800, Loss 0.0045832437463104725, lr 0.0001
Epoch 406900, Loss 4.338136196136475, lr 0.0001
Epoch 407000, Loss 0.004655179101973772, lr 0.0001
Epoch 407100, Loss 0.004585432820022106, lr 0.0001
Epoch 407200, Loss 0.004584092181175947, lr 0.0001
Epoch 407300, Loss 0.0045832362957298756, lr 0.0001
Epoch 407400, Loss 0.004583540838211775, lr 0.0001
Epoch 407500, Loss 0.005305681377649307, lr 0.0001
Epoch 407600, Loss 0.005101799499243498, lr 0.0001
Epoch 407700, Loss 0.0048320903442800045, lr 0.0001
Epoch 407800, Loss 0.11267676949501038, lr 0.0001
Epoch 407900, Loss 0.004582172259688377, lr 0.0001
Epoch 408000, Loss 0.005228324327617884, lr 0.0001
Epoch 408100, Loss 0.008589781820774078, lr 0.0001
Epoch 408200, Loss 0.004580026492476463, lr 0.0001
Epoch 408300, Loss 0.02610180526971817, lr 0.0001
Epoch 408400, Loss 0.004575010854750872, lr 0.0001
Epoch 408500, Loss 0.004596355836838484, lr 0.0001
Epoch 408600, Loss 0.004575274884700775, lr 0.0001
Epoch 408700, Loss 0.01062992587685585, lr 0.0001
Epoch 408800, Loss 0.02881784364581108, lr 0.0001
Epoch 408900, Loss 0.07726912200450897, lr 0.0001
Epoch 409000, Loss 0.043089888989925385, lr 0.0001
Epoch 409100, Loss 0.008217423222959042, lr 0.0001
Epoch 409200, Loss 0.004620260559022427, lr 0.0001
Epoch 409300, Loss 0.00486124400049448, lr 0.0001
Epoch 409400, Loss 0.004566588439047337, lr 0.0001
Epoch 409500, Loss 0.012672564946115017, lr 0.0001
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Epoch 409700, Loss 0.004566338378936052, lr 0.0001
Epoch 409800, Loss 0.004566022660583258, lr 0.0001
Epoch 409900, Loss 0.004563870839774609, lr 0.0001
Epoch 410000, Loss 0.057514652609825134, lr 0.0001

Epoch 410100, Loss 0.004569862969219685, lr 0.0001
Epoch 410200, Loss 0.004564369097352028, lr 0.0001
Epoch 410300, Loss 0.00456297118216753, lr 0.0001
Epoch 410400, Loss 0.0045639947056770325, lr 0.0001
Epoch 410500, Loss 0.004561977460980415, lr 0.0001
Epoch 410600, Loss 0.004558017011731863, lr 0.0001
Epoch 410700, Loss 0.11954056471586227, lr 0.0001
Epoch 410800, Loss 0.004569392651319504, lr 0.0001
Epoch 410900, Loss 0.004560002591460943, lr 0.0001
Epoch 411000, Loss 0.004559010732918978, lr 0.0001
Epoch 411100, Loss 0.0045592933893203735, lr 0.0001
Epoch 411200, Loss 0.004556570667773485, lr 0.0001
Epoch 411300, Loss 0.004558044020086527, lr 0.0001
Epoch 411400, Loss 0.005229344125837088, lr 0.0001
Epoch 411500, Loss 0.004557902924716473, lr 0.0001
Epoch 411600, Loss 0.0045577301643788815, lr 0.0001
Epoch 411700, Loss 0.004827552940696478, lr 0.0001
Epoch 411800, Loss 0.004556851927191019, lr 0.0001
Epoch 411900, Loss 0.004555598367005587, lr 0.0001
Epoch 412000, Loss 0.0045550367794930935, lr 0.0001
Epoch 412100, Loss 0.004552493803203106, lr 0.0001
Epoch 412200, Loss 0.004555163439363241, lr 0.0001
Epoch 412300, Loss 0.004731417633593082, lr 0.0001
Epoch 412400, Loss 0.004550030920654535, lr 0.0001
Epoch 412500, Loss 0.004551245830953121, lr 0.0001
Epoch 412600, Loss 0.004549926612526178, lr 0.0001
Epoch 412700, Loss 0.004552529193460941, lr 0.0001
Epoch 412800, Loss 0.004546918906271458, lr 0.0001
Epoch 412900, Loss 0.004547790624201298, lr 0.0001
Epoch 413000, Loss 0.007324884179979563, lr 0.0001
Epoch 413100, Loss 0.004550304729491472, lr 0.0001
Epoch 413200, Loss 0.00454779714345932, lr 0.0001
Epoch 413300, Loss 0.004547806456685066, lr 0.0001
Epoch 413400, Loss 0.004545792005956173, lr 0.0001
Epoch 413500, Loss 0.004545362666249275, lr 0.0001
Epoch 413600, Loss 0.004546511452645063, lr 0.0001
Epoch 413700, Loss 0.004649289883673191, lr 0.0001
Epoch 413800, Loss 0.004542964044958353, lr 0.0001
Epoch 413900, Loss 0.004542903508991003, lr 0.0001
Epoch 414000, Loss 0.20420266687870026, lr 0.0001
Epoch 414100, Loss 0.004554186947643757, lr 0.0001
Epoch 414200, Loss 0.004544972442090511, lr 0.0001
Epoch 414300, Loss 0.004543269518762827, lr 0.0001
Epoch 414400, Loss 0.0045389896258711815, lr 0.0001
Epoch 414500, Loss 0.0045380969531834126, lr 0.0001
Epoch 414600, Loss 0.08577556908130646, lr 0.0001
Epoch 414700, Loss 0.00455614784732461, lr 0.0001
Epoch 414800, Loss 0.004681772086769342, lr 0.0001

Epoch 414900, Loss 0.004834305960685015, lr 0.0001
Epoch 415000, Loss 0.01796763390302658, lr 0.0001
Epoch 415100, Loss 0.6162704825401306, lr 0.0001
Epoch 415200, Loss 0.004543256480246782, lr 0.0001
Epoch 415300, Loss 0.16550888121128082, lr 0.0001
Epoch 415400, Loss 0.004535198677331209, lr 0.0001
Epoch 415500, Loss 0.0045329551212489605, lr 0.0001
Epoch 415600, Loss 0.1754968911409378, lr 0.0001
Epoch 415700, Loss 0.006521923467516899, lr 0.0001
Epoch 415800, Loss 0.02536609396338463, lr 0.0001
Epoch 415900, Loss 0.004530803300440311, lr 0.0001
Epoch 416000, Loss 0.004528791643679142, lr 0.0001
Epoch 416100, Loss 0.005515077151358128, lr 0.0001
Epoch 416200, Loss 0.004528784658759832, lr 0.0001
Epoch 416300, Loss 0.004529038909822702, lr 0.0001
Epoch 416400, Loss 0.004541564732789993, lr 0.0001
Epoch 416500, Loss 0.004763737320899963, lr 0.0001
Epoch 416600, Loss 0.017733585089445114, lr 0.0001
Epoch 416700, Loss 0.13707344233989716, lr 0.0001
Epoch 416800, Loss 0.02013656310737133, lr 0.0001
Epoch 416900, Loss 0.42168644070625305, lr 0.0001
Epoch 417000, Loss 0.004590735770761967, lr 0.0001
Epoch 417100, Loss 0.009394796565175056, lr 0.0001
Epoch 417200, Loss 0.00604042736813426, lr 0.0001
Epoch 417300, Loss 0.005334592889994383, lr 0.0001
Epoch 417400, Loss 0.00663837930187583, lr 0.0001
Epoch 417500, Loss 0.03656475245952606, lr 0.0001
Epoch 417600, Loss 0.004524338524788618, lr 0.0001
Epoch 417700, Loss 0.0863925963640213, lr 0.0001
Epoch 417800, Loss 0.004521265160292387, lr 0.0001
Epoch 417900, Loss 0.004515916109085083, lr 0.0001
Epoch 418000, Loss 0.004516487941145897, lr 0.0001
Epoch 418100, Loss 0.07784564048051834, lr 0.0001
Epoch 418200, Loss 0.00451704254373908, lr 0.0001
Epoch 418300, Loss 0.004513752646744251, lr 0.0001
Epoch 418400, Loss 0.004514219705015421, lr 0.0001
Epoch 418500, Loss 0.00451297964900732, lr 0.0001
Epoch 418600, Loss 0.004511803388595581, lr 0.0001
Epoch 418700, Loss 0.004512305837124586, lr 0.0001
Epoch 418800, Loss 0.12183156609535217, lr 0.0001
Epoch 418900, Loss 0.004515075124800205, lr 0.0001
Epoch 419000, Loss 0.00451451912522316, lr 0.0001
Epoch 419100, Loss 0.004512233193963766, lr 0.0001
Epoch 419200, Loss 0.004510962869971991, lr 0.0001
Epoch 419300, Loss 0.004511741921305656, lr 0.0001
Epoch 419400, Loss 0.004508209880441427, lr 0.0001
Epoch 419500, Loss 0.016322923824191093, lr 0.0001
Epoch 419600, Loss 0.004507852252572775, lr 0.0001

Epoch 419700, Loss 0.00450656283646822, lr 0.0001
Epoch 419800, Loss 1.9972003698349, lr 0.0001
Epoch 419900, Loss 0.004518990404903889, lr 0.0001
Epoch 420000, Loss 0.004509178455919027, lr 0.0001
Epoch 420100, Loss 0.004509482067078352, lr 0.0001
Epoch 420200, Loss 0.00450696237385273, lr 0.0001
Epoch 420300, Loss 0.004507086705416441, lr 0.0001
Epoch 420400, Loss 0.004504561424255371, lr 0.0001
Epoch 420500, Loss 0.004503464791923761, lr 0.0001
Epoch 420600, Loss 0.006324938032776117, lr 0.0001
Epoch 420700, Loss 0.004502866882830858, lr 0.0001
Epoch 420800, Loss 0.0048391809687018394, lr 0.0001
Epoch 420900, Loss 0.0045781428925693035, lr 0.0001
Epoch 421000, Loss 0.004499343689531088, lr 0.0001
Epoch 421100, Loss 0.004500240553170443, lr 0.0001
Epoch 421200, Loss 0.0045008109882473946, lr 0.0001
Epoch 421300, Loss 0.010129273869097233, lr 0.0001
Epoch 421400, Loss 0.004501830320805311, lr 0.0001
Epoch 421500, Loss 0.005073164124041796, lr 0.0001
Epoch 421600, Loss 0.004493973683565855, lr 0.0001
Epoch 421700, Loss 0.004497262183576822, lr 0.0001
Epoch 421800, Loss 0.004664506297558546, lr 0.0001
Epoch 421900, Loss 0.0044974214397370815, lr 0.0001
Epoch 422000, Loss 0.004619647283107042, lr 0.0001
Epoch 422100, Loss 0.004552051424980164, lr 0.0001
Epoch 422200, Loss 0.030196556821465492, lr 0.0001
Epoch 422300, Loss 0.0062875146977603436, lr 0.0001
Epoch 422400, Loss 0.009348667226731777, lr 0.0001
Epoch 422500, Loss 0.0045541818253695965, lr 0.0001
Epoch 422600, Loss 0.00997297652065754, lr 0.0001
Epoch 422700, Loss 0.008074263110756874, lr 0.0001
Epoch 422800, Loss 0.004994899965822697, lr 0.0001
Epoch 422900, Loss 0.02104813978075981, lr 0.0001
Epoch 423000, Loss 0.08003631234169006, lr 0.0001
Epoch 423100, Loss 0.004502546042203903, lr 0.0001
Epoch 423200, Loss 0.005176679231226444, lr 0.0001
Epoch 423300, Loss 0.010946509428322315, lr 0.0001
Epoch 423400, Loss 0.005226233974099159, lr 0.0001
Epoch 423500, Loss 0.006997421383857727, lr 0.0001
Epoch 423600, Loss 0.03881277143955231, lr 0.0001
Epoch 423700, Loss 0.020025068894028664, lr 0.0001
Epoch 423800, Loss 0.004483409691601992, lr 0.0001
Epoch 423900, Loss 0.07750853896141052, lr 0.0001
Epoch 424000, Loss 0.00448246207088232, lr 0.0001
Epoch 424100, Loss 0.0044767954386770725, lr 0.0001
Epoch 424200, Loss 1.3902515172958374, lr 0.0001
Epoch 424300, Loss 0.004486287944018841, lr 0.0001
Epoch 424400, Loss 0.004480574745684862, lr 0.0001

Epoch 424500, Loss 0.004477960057556629, lr 0.0001
Epoch 424600, Loss 0.004477048758417368, lr 0.0001
Epoch 424700, Loss 0.0044750855304300785, lr 0.0001
Epoch 424800, Loss 0.6114256381988525, lr 0.0001
Epoch 424900, Loss 0.0044998894445598125, lr 0.0001
Epoch 425000, Loss 0.00447277445346117, lr 0.0001
Epoch 425100, Loss 0.004471554886549711, lr 0.0001
Epoch 425200, Loss 0.008013317361474037, lr 0.0001
Epoch 425300, Loss 0.004473786801099777, lr 0.0001
Epoch 425400, Loss 0.004475799854844809, lr 0.0001
Epoch 425500, Loss 0.004472025670111179, lr 0.0001
Epoch 425600, Loss 0.004470575135201216, lr 0.0001
Epoch 425700, Loss 0.34633931517601013, lr 0.0001
Epoch 425800, Loss 0.004477307200431824, lr 0.0001
Epoch 425900, Loss 0.004506409168243408, lr 0.0001
Epoch 426000, Loss 0.004469286184757948, lr 0.0001
Epoch 426100, Loss 0.3582487404346466, lr 0.0001
Epoch 426200, Loss 0.0044699604623019695, lr 0.0001
Epoch 426300, Loss 0.004464226309210062, lr 0.0001
Epoch 426400, Loss 0.006070011295378208, lr 0.0001
Epoch 426500, Loss 0.005506638903170824, lr 0.0001
Epoch 426600, Loss 0.004473735112696886, lr 0.0001
Epoch 426700, Loss 0.004619970452040434, lr 0.0001
Epoch 426800, Loss 0.004464147612452507, lr 0.0001
Epoch 426900, Loss 0.004741869401186705, lr 0.0001
Epoch 427000, Loss 0.013219873420894146, lr 0.0001
Epoch 427100, Loss 0.005284849088639021, lr 0.0001
Epoch 427200, Loss 0.00590183399617672, lr 0.0001
Epoch 427300, Loss 0.020542828366160393, lr 0.0001
Epoch 427400, Loss 0.2676636278629303, lr 0.0001
Epoch 427500, Loss 0.004461005330085754, lr 0.0001
Epoch 427600, Loss 0.008817015215754509, lr 0.0001
Epoch 427700, Loss 0.024474436417222023, lr 0.0001
Epoch 427800, Loss 0.3786831498146057, lr 0.0001
Epoch 427900, Loss 0.0044684275053441525, lr 0.0001
Epoch 428000, Loss 0.0044876872561872005, lr 0.0001
Epoch 428100, Loss 0.01529623381793499, lr 0.0001
Epoch 428200, Loss 0.004460894037038088, lr 0.0001
Epoch 428300, Loss 0.0067871748469769955, lr 0.0001
Epoch 428400, Loss 0.048350997269153595, lr 0.0001
Epoch 428500, Loss 0.004468443803489208, lr 0.0001
Epoch 428600, Loss 0.46846258640289307, lr 0.0001
Epoch 428700, Loss 0.00447312043979764, lr 0.0001
Epoch 428800, Loss 0.004451948683708906, lr 0.0001
Epoch 428900, Loss 0.004449501633644104, lr 0.0001
Epoch 429000, Loss 0.00444932421669364, lr 0.0001
Epoch 429100, Loss 0.005201196763664484, lr 0.0001
Epoch 429200, Loss 0.00444926880300045, lr 0.0001

Epoch 429300, Loss 0.004449474159628153, lr 0.0001
Epoch 429400, Loss 0.004447030834853649, lr 0.0001
Epoch 429500, Loss 0.004448364023119211, lr 0.0001
Epoch 429600, Loss 0.004445706028491259, lr 0.0001
Epoch 429700, Loss 0.318749338388443, lr 0.0001
Epoch 429800, Loss 0.004450459033250809, lr 0.0001
Epoch 429900, Loss 0.004442413803189993, lr 0.0001
Epoch 430000, Loss 0.0044416929595172405, lr 0.0001
Epoch 430100, Loss 0.16469958424568176, lr 0.0001
Epoch 430200, Loss 0.004443663638085127, lr 0.0001
Epoch 430300, Loss 0.07429239898920059, lr 0.0001
Epoch 430400, Loss 0.004447328858077526, lr 0.0001
Epoch 430500, Loss 0.004440017975866795, lr 0.0001
Epoch 430600, Loss 0.011788221076130867, lr 0.0001
Epoch 430700, Loss 0.004439518321305513, lr 0.0001
Epoch 430800, Loss 0.0044375029392540455, lr 0.0001
Epoch 430900, Loss 0.005227777641266584, lr 0.0001
Epoch 431000, Loss 0.0046285358257591724, lr 0.0001
Epoch 431100, Loss 0.0417744442820549, lr 0.0001
Epoch 431200, Loss 0.004435584880411625, lr 0.0001
Epoch 431300, Loss 0.035662319511175156, lr 0.0001
Epoch 431400, Loss 0.005935752298682928, lr 0.0001
Epoch 431500, Loss 0.004433198366314173, lr 0.0001
Epoch 431600, Loss 0.08096561580896378, lr 0.0001
Epoch 431700, Loss 0.004431723617017269, lr 0.0001
Epoch 431800, Loss 0.00864193681627512, lr 0.0001
Epoch 431900, Loss 0.006114892661571503, lr 0.0001
Epoch 432000, Loss 0.019402289763092995, lr 0.0001
Epoch 432100, Loss 0.004476763308048248, lr 0.0001
Epoch 432200, Loss 0.012066236697137356, lr 0.0001
Epoch 432300, Loss 0.004740477539598942, lr 0.0001
Epoch 432400, Loss 0.03951610252261162, lr 0.0001
Epoch 432500, Loss 0.032483600080013275, lr 0.0001
Epoch 432600, Loss 0.004474299494177103, lr 0.0001
Epoch 432700, Loss 0.009793826378881931, lr 0.0001
Epoch 432800, Loss 0.030380452051758766, lr 0.0001
Epoch 432900, Loss 0.004473384469747543, lr 0.0001
Epoch 433000, Loss 0.45325973629951477, lr 0.0001
Epoch 433100, Loss 0.004435557406395674, lr 0.0001
Epoch 433200, Loss 0.004420736338943243, lr 0.0001
Epoch 433300, Loss 0.006836323998868465, lr 0.0001
Epoch 433400, Loss 0.0044190245680511, lr 0.0001
Epoch 433500, Loss 0.004419261123985052, lr 0.0001
Epoch 433600, Loss 0.004415786825120449, lr 0.0001
Epoch 433700, Loss 0.019053546711802483, lr 0.0001
Epoch 433800, Loss 0.004427051171660423, lr 0.0001
Epoch 433900, Loss 0.0044247740879654884, lr 0.0001
Epoch 434000, Loss 0.004421321675181389, lr 0.0001

Epoch 434100, Loss 0.004420793615281582, lr 0.0001
Epoch 434200, Loss 0.004420011304318905, lr 0.0001
Epoch 434300, Loss 0.0044193509966135025, lr 0.0001
Epoch 434400, Loss 0.004596765618771315, lr 0.0001
Epoch 434500, Loss 0.004416148643940687, lr 0.0001
Epoch 434600, Loss 0.007874769158661366, lr 0.0001
Epoch 434700, Loss 0.012476041913032532, lr 0.0001
Epoch 434800, Loss 0.004547329619526863, lr 0.0001
Epoch 434900, Loss 0.004533663857728243, lr 0.0001
Epoch 435000, Loss 0.21598778665065765, lr 0.0001
Epoch 435100, Loss 0.004416493233293295, lr 0.0001
Epoch 435200, Loss 0.005677641369402409, lr 0.0001
Epoch 435300, Loss 0.006060039158910513, lr 0.0001
Epoch 435400, Loss 0.016271760687232018, lr 0.0001
Epoch 435500, Loss 0.004528543446213007, lr 0.0001
Epoch 435600, Loss 0.008345074951648712, lr 0.0001
Epoch 435700, Loss 0.16439417004585266, lr 0.0001
Epoch 435800, Loss 0.0044650062918663025, lr 0.0001
Epoch 435900, Loss 0.005099163390696049, lr 0.0001
Epoch 436000, Loss 0.00560296606272459, lr 0.0001
Epoch 436100, Loss 0.004642392508685589, lr 0.0001
Epoch 436200, Loss 0.09433896094560623, lr 0.0001
Epoch 436300, Loss 0.004414619877934456, lr 0.0001
Epoch 436400, Loss 0.005669742822647095, lr 0.0001
Epoch 436500, Loss 0.004611077252775431, lr 0.0001
Epoch 436600, Loss 0.004410407971590757, lr 0.0001
Epoch 436700, Loss 0.03059695102274418, lr 0.0001
Epoch 436800, Loss 0.00440180441364646, lr 0.0001
Epoch 436900, Loss 0.0055050719529390335, lr 0.0001
Epoch 437000, Loss 0.0044054510071873665, lr 0.0001
Epoch 437100, Loss 0.004658128134906292, lr 0.0001
Epoch 437200, Loss 0.0043956502340734005, lr 0.0001
Epoch 437300, Loss 0.23332510888576508, lr 0.0001
Epoch 437400, Loss 0.0044017573818564415, lr 0.0001
Epoch 437500, Loss 0.017805423587560654, lr 0.0001
Epoch 437600, Loss 0.0055109234526753426, lr 0.0001
Epoch 437700, Loss 0.004650351125746965, lr 0.0001
Epoch 437800, Loss 0.012458190321922302, lr 0.0001
Epoch 437900, Loss 0.061844464391469955, lr 0.0001
Epoch 438000, Loss 0.005010039079934359, lr 0.0001
Epoch 438100, Loss 0.004430682864040136, lr 0.0001
Epoch 438200, Loss 0.007492163684219122, lr 0.0001
Epoch 438300, Loss 0.004632909782230854, lr 0.0001
Epoch 438400, Loss 0.004452344961464405, lr 0.0001
Epoch 438500, Loss 0.023174965754151344, lr 0.0001
Epoch 438600, Loss 0.004388174507766962, lr 0.0001
Epoch 438700, Loss 0.020229656249284744, lr 0.0001
Epoch 438800, Loss 0.004388736095279455, lr 0.0001

Epoch 438900, Loss 0.004505545366555452, lr 0.0001
Epoch 439000, Loss 0.0046547167003154755, lr 0.0001
Epoch 439100, Loss 0.008457528427243233, lr 0.0001
Epoch 439200, Loss 0.004386764485388994, lr 0.0001
Epoch 439300, Loss 0.09944751858711243, lr 0.0001
Epoch 439400, Loss 0.0043875607661902905, lr 0.0001
Epoch 439500, Loss 0.004382984712719917, lr 0.0001
Epoch 439600, Loss 0.004381401930004358, lr 0.0001
Epoch 439700, Loss 0.0043795146048069, lr 0.0001
Epoch 439800, Loss 0.00441456213593483, lr 0.0001
Epoch 439900, Loss 0.004833813291043043, lr 0.0001
Epoch 440000, Loss 0.004382015205919743, lr 0.0001
Epoch 440100, Loss 0.0043796272948384285, lr 0.0001
Epoch 440200, Loss 0.004378913901746273, lr 0.0001
Epoch 440300, Loss 0.004377772565931082, lr 0.0001
Epoch 440400, Loss 0.018894333392381668, lr 0.0001
Epoch 440500, Loss 0.004382879473268986, lr 0.0001
Epoch 440600, Loss 0.004381705541163683, lr 0.0001
Epoch 440700, Loss 0.004376720637083054, lr 0.0001
Epoch 440800, Loss 0.004376392811536789, lr 0.0001
Epoch 440900, Loss 0.0043741934932768345, lr 0.0001
Epoch 441000, Loss 0.0043729813769459724, lr 0.0001
Epoch 441100, Loss 0.005764941684901714, lr 0.0001
Epoch 441200, Loss 0.004375229589641094, lr 0.0001
Epoch 441300, Loss 0.00437395041808486, lr 0.0001
Epoch 441400, Loss 0.0043726107105612755, lr 0.0001
Epoch 441500, Loss 0.004371831193566322, lr 0.0001
Epoch 441600, Loss 0.004374190233647823, lr 0.0001
Epoch 441700, Loss 0.004769759718328714, lr 0.0001
Epoch 441800, Loss 0.004371028393507004, lr 0.0001
Epoch 441900, Loss 0.004369017202407122, lr 0.0001
Epoch 442000, Loss 0.004400409292429686, lr 0.0001
Epoch 442100, Loss 0.004561617039144039, lr 0.0001
Epoch 442200, Loss 0.004369223956018686, lr 0.0001
Epoch 442300, Loss 0.004369162954390049, lr 0.0001
Epoch 442400, Loss 0.0264685470610857, lr 0.0001
Epoch 442500, Loss 0.004370677750557661, lr 0.0001
Epoch 442600, Loss 0.0043674954213202, lr 0.0001
Epoch 442700, Loss 0.004366092383861542, lr 0.0001
Epoch 442800, Loss 0.004454743582755327, lr 0.0001
Epoch 442900, Loss 0.004913864191621542, lr 0.0001
Epoch 443000, Loss 0.004563561640679836, lr 0.0001
Epoch 443100, Loss 0.004830267746001482, lr 0.0001
Epoch 443200, Loss 0.15735240280628204, lr 0.0001
Epoch 443300, Loss 0.004366578999906778, lr 0.0001
Epoch 443400, Loss 0.01513939630240202, lr 0.0001
Epoch 443500, Loss 0.004362793173640966, lr 0.0001
Epoch 443600, Loss 0.020027482882142067, lr 0.0001

Epoch 443700, Loss 0.004437748342752457, lr 0.0001
Epoch 443800, Loss 0.004358997568488121, lr 0.0001
Epoch 443900, Loss 0.010646804235875607, lr 0.0001
Epoch 444000, Loss 0.004375513177365065, lr 0.0001
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Epoch 444200, Loss 0.004397498909384012, lr 0.0001
Epoch 444300, Loss 0.004357564728707075, lr 0.0001
Epoch 444400, Loss 0.01836635172367096, lr 0.0001
Epoch 444500, Loss 0.004353300668299198, lr 0.0001
Epoch 444600, Loss 0.004354614298790693, lr 0.0001
Epoch 444700, Loss 0.004354769363999367, lr 0.0001
Epoch 444800, Loss 0.0043522934429347515, lr 0.0001
Epoch 444900, Loss 0.021030502393841743, lr 0.0001
Epoch 445000, Loss 0.004353093449026346, lr 0.0001
Epoch 445100, Loss 0.004353852942585945, lr 0.0001
Epoch 445200, Loss 0.004373936913907528, lr 0.0001
Epoch 445300, Loss 0.004387388471513987, lr 0.0001
Epoch 445400, Loss 0.029095523059368134, lr 0.0001
Epoch 445500, Loss 0.06315312534570694, lr 0.0001
Epoch 445600, Loss 0.2888186573982239, lr 0.0001
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Epoch 445800, Loss 0.0045727514661848545, lr 0.0001
Epoch 445900, Loss 0.006389269605278969, lr 0.0001
Epoch 446000, Loss 0.041368842124938965, lr 0.0001
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Epoch 446500, Loss 0.01048813946545124, lr 0.0001
Epoch 446600, Loss 0.005985942203551531, lr 0.0001
Epoch 446700, Loss 0.015022946521639824, lr 0.0001
Epoch 446800, Loss 0.03936906158924103, lr 0.0001
Epoch 446900, Loss 0.04815031215548515, lr 0.0001
Epoch 447000, Loss 0.025538330897688866, lr 0.0001
Epoch 447100, Loss 0.04887814819812775, lr 0.0001
Epoch 447200, Loss 0.004490696359425783, lr 0.0001
Epoch 447300, Loss 0.004496823996305466, lr 0.0001
Epoch 447400, Loss 0.005214411299675703, lr 0.0001
Epoch 447500, Loss 0.004399190656840801, lr 0.0001
Epoch 447600, Loss 0.05850694328546524, lr 0.0001
Epoch 447700, Loss 0.0043387990444898605, lr 0.0001
Epoch 447800, Loss 0.1421293020248413, lr 0.0001
Epoch 447900, Loss 0.004418845288455486, lr 0.0001
Epoch 448000, Loss 0.004330803640186787, lr 0.0001
Epoch 448100, Loss 0.0043368153274059296, lr 0.0001
Epoch 448200, Loss 0.00934139359742403, lr 0.0001
Epoch 448300, Loss 0.10770181566476822, lr 0.0001
Epoch 448400, Loss 0.004371081944555044, lr 0.0001

Epoch 448500, Loss 0.0043288348242640495, lr 0.0001
Epoch 448600, Loss 0.008854210376739502, lr 0.0001
Epoch 448700, Loss 0.0043305628933012486, lr 0.0001
Epoch 448800, Loss 0.004327784758061171, lr 0.0001
Epoch 448900, Loss 0.004364433232694864, lr 0.0001
Epoch 449000, Loss 0.005713592749089003, lr 0.0001
Epoch 449100, Loss 0.005240344442427158, lr 0.0001
Epoch 449200, Loss 0.004468085244297981, lr 0.0001
Epoch 449300, Loss 0.007832121104001999, lr 0.0001
Epoch 449400, Loss 0.004363693296909332, lr 0.0001
Epoch 449500, Loss 0.005580088123679161, lr 0.0001
Epoch 449600, Loss 0.0046957992017269135, lr 0.0001
Epoch 449700, Loss 0.009271345101296902, lr 0.0001
Epoch 449800, Loss 0.0337957888841629, lr 0.0001
Epoch 449900, Loss 0.2154160887002945, lr 0.0001
Epoch 450000, Loss 0.00571901211515069, lr 0.0001
Epoch 450100, Loss 0.004403903614729643, lr 0.0001
Epoch 450200, Loss 0.023047778755426407, lr 0.0001
Epoch 450300, Loss 0.13703307509422302, lr 0.0001
Epoch 450400, Loss 0.004333700053393841, lr 0.0001
Epoch 450500, Loss 0.004458444658666849, lr 0.0001
Epoch 450600, Loss 0.004510434344410896, lr 0.0001
Epoch 450700, Loss 0.004521799739450216, lr 0.0001
Epoch 450800, Loss 0.02164381928741932, lr 0.0001
Epoch 450900, Loss 0.004313974175602198, lr 0.0001
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Epoch 451300, Loss 0.004326308611780405, lr 0.0001
Epoch 451400, Loss 0.007669974118471146, lr 0.0001
Epoch 451500, Loss 0.005785100162029266, lr 0.0001
Epoch 451600, Loss 0.15683184564113617, lr 0.0001
Epoch 451700, Loss 0.0043113986030220985, lr 0.0001
Epoch 451800, Loss 0.03769342973828316, lr 0.0001
Epoch 451900, Loss 0.00430953549221158, lr 0.0001
Epoch 452000, Loss 0.1379123032093048, lr 0.0001
Epoch 452100, Loss 0.004315628204494715, lr 0.0001
Epoch 452200, Loss 0.00608984986320138, lr 0.0001
Epoch 452300, Loss 0.09296927601099014, lr 0.0001
Epoch 452400, Loss 0.004319729283452034, lr 0.0001
Epoch 452500, Loss 0.049574948847293854, lr 0.0001
Epoch 452600, Loss 0.004306341055780649, lr 0.0001
Epoch 452700, Loss 0.004301741253584623, lr 0.0001
Epoch 452800, Loss 0.004868191666901112, lr 0.0001
Epoch 452900, Loss 0.007601324934512377, lr 0.0001
Epoch 453000, Loss 0.004300162196159363, lr 0.0001
Epoch 453100, Loss 0.01496515329927206, lr 0.0001
Epoch 453200, Loss 0.004299430642277002, lr 0.0001

Epoch 453300, Loss 0.00429642153903842, lr 0.0001
Epoch 453400, Loss 0.006121205631643534, lr 0.0001
Epoch 453500, Loss 0.004298896994441748, lr 0.0001
Epoch 453600, Loss 0.00429672934114933, lr 0.0001
Epoch 453700, Loss 0.044182900339365005, lr 0.0001
Epoch 453800, Loss 0.004299788735806942, lr 0.0001
Epoch 453900, Loss 0.0042979782447218895, lr 0.0001
Epoch 454000, Loss 0.004295579623430967, lr 0.0001
Epoch 454100, Loss 0.004293269943445921, lr 0.0001
Epoch 454200, Loss 0.011249692179262638, lr 0.0001
Epoch 454300, Loss 0.007399959955364466, lr 0.0001
Epoch 454400, Loss 0.009218982420861721, lr 0.0001
Epoch 454500, Loss 0.005507937166839838, lr 0.0001
Epoch 454600, Loss 0.004969299770891666, lr 0.0001
Epoch 454700, Loss 0.06903014332056046, lr 0.0001
Epoch 454800, Loss 0.1229138895869255, lr 0.0001
Epoch 454900, Loss 0.0053613376803696156, lr 0.0001
Epoch 455000, Loss 0.004332842770963907, lr 0.0001
Epoch 455100, Loss 0.004819095134735107, lr 0.0001
Epoch 455200, Loss 0.006796514615416527, lr 0.0001
Epoch 455300, Loss 0.004383197985589504, lr 0.0001
Epoch 455400, Loss 0.04331298545002937, lr 0.0001
Epoch 455500, Loss 0.004290333017706871, lr 0.0001
Epoch 455600, Loss 0.00747604900971055, lr 0.0001
Epoch 455700, Loss 0.004285580478608608, lr 0.0001
Epoch 455800, Loss 0.005213920958340168, lr 0.0001
Epoch 455900, Loss 0.006614804267883301, lr 0.0001
Epoch 456000, Loss 0.005011900328099728, lr 0.0001
Epoch 456100, Loss 0.004758854862302542, lr 0.0001
Epoch 456200, Loss 0.07696263492107391, lr 0.0001
Epoch 456300, Loss 0.004293045029044151, lr 0.0001
Epoch 456400, Loss 0.0043001011945307255, lr 0.0001
Epoch 456500, Loss 0.004280071705579758, lr 0.0001
Epoch 456600, Loss 0.011908655986189842, lr 0.0001
Epoch 456700, Loss 0.004276839550584555, lr 0.0001
Epoch 456800, Loss 0.0042762067168951035, lr 0.0001
Epoch 456900, Loss 0.029378876090049744, lr 0.0001
Epoch 457000, Loss 0.004279414191842079, lr 0.0001
Epoch 457100, Loss 0.0042763701640069485, lr 0.0001
Epoch 457200, Loss 0.004276730585843325, lr 0.0001
Epoch 457300, Loss 0.004663712810724974, lr 0.0001
Epoch 457400, Loss 0.004275080282241106, lr 0.0001
Epoch 457500, Loss 0.007919155061244965, lr 0.0001
Epoch 457600, Loss 0.009070168249309063, lr 0.0001
Epoch 457700, Loss 0.5366765856742859, lr 0.0001
Epoch 457800, Loss 0.004444112069904804, lr 0.0001
Epoch 457900, Loss 0.0464940145611763, lr 0.0001
Epoch 458000, Loss 0.004269374068826437, lr 0.0001

Epoch 458100, Loss 0.01619371771812439, lr 0.0001
Epoch 458200, Loss 0.004273153375834227, lr 0.0001
Epoch 458300, Loss 0.0042695836164057255, lr 0.0001
Epoch 458400, Loss 0.004270016681402922, lr 0.0001
Epoch 458500, Loss 0.21364910900592804, lr 0.0001
Epoch 458600, Loss 0.0042783948592841625, lr 0.0001
Epoch 458700, Loss 0.004268274176865816, lr 0.0001
Epoch 458800, Loss 0.004267072305083275, lr 0.0001
Epoch 458900, Loss 0.004264249466359615, lr 0.0001
Epoch 459000, Loss 0.016634203493595123, lr 0.0001
Epoch 459100, Loss 0.0043298425152897835, lr 0.0001
Epoch 459200, Loss 0.004262891598045826, lr 0.0001
Epoch 459300, Loss 0.00426229415461421, lr 0.0001
Epoch 459400, Loss 0.01600736379623413, lr 0.0001
Epoch 459500, Loss 0.004266050178557634, lr 0.0001
Epoch 459600, Loss 0.004264589864760637, lr 0.0001
Epoch 459700, Loss 0.004261678550392389, lr 0.0001
Epoch 459800, Loss 0.004263193346560001, lr 0.0001
Epoch 459900, Loss 0.004437632858753204, lr 0.0001
Epoch 460000, Loss 0.03671594336628914, lr 0.0001
Epoch 460100, Loss 0.00426445109769702, lr 0.0001
Epoch 460200, Loss 0.03995839133858681, lr 0.0001
Epoch 460300, Loss 0.004260128363966942, lr 0.0001
Epoch 460400, Loss 0.004258552100509405, lr 0.0001
Epoch 460500, Loss 0.0043635498732328415, lr 0.0001
Epoch 460600, Loss 0.004611745476722717, lr 0.0001
Epoch 460700, Loss 0.0042602140456438065, lr 0.0001
Epoch 460800, Loss 0.004258414730429649, lr 0.0001
Epoch 460900, Loss 0.004258460830897093, lr 0.0001
Epoch 461000, Loss 0.0042545488104224205, lr 0.0001
Epoch 461100, Loss 0.004255175124853849, lr 0.0001
Epoch 461200, Loss 0.004752837121486664, lr 0.0001
Epoch 461300, Loss 0.24557000398635864, lr 0.0001
Epoch 461400, Loss 0.0042631132528185844, lr 0.0001
Epoch 461500, Loss 0.006682297680526972, lr 0.0001
Epoch 461600, Loss 0.0042514437809586525, lr 0.0001
Epoch 461700, Loss 0.004252872429788113, lr 0.0001
Epoch 461800, Loss 0.005660038907080889, lr 0.0001
Epoch 461900, Loss 0.004251718521118164, lr 0.0001
Epoch 462000, Loss 0.004251664038747549, lr 0.0001
Epoch 462100, Loss 0.006748630199581385, lr 0.0001
Epoch 462200, Loss 0.006347800604999065, lr 0.0001
Epoch 462300, Loss 0.1711919903755188, lr 0.0001
Epoch 462400, Loss 0.00426506157964468, lr 0.0001
Epoch 462500, Loss 0.04127657040953636, lr 0.0001
Epoch 462600, Loss 0.004248966462910175, lr 0.0001
Epoch 462700, Loss 0.013290110975503922, lr 0.0001
Epoch 462800, Loss 0.011100209318101406, lr 0.0001

Epoch 462900, Loss 0.004290327429771423, lr 0.0001
Epoch 463000, Loss 0.004284413065761328, lr 0.0001
Epoch 463100, Loss 0.037055689841508865, lr 0.0001
Epoch 463200, Loss 0.018291393294930458, lr 0.0001
Epoch 463300, Loss 0.004249424673616886, lr 0.0001
Epoch 463400, Loss 0.097951240837574, lr 0.0001
Epoch 463500, Loss 0.004502975847572088, lr 0.0001
Epoch 463600, Loss 0.004465464036911726, lr 0.0001
Epoch 463700, Loss 0.004240069538354874, lr 0.0001
Epoch 463800, Loss 0.009411412291228771, lr 0.0001
Epoch 463900, Loss 0.004237818997353315, lr 0.0001
Epoch 464000, Loss 0.0042376029305160046, lr 0.0001
Epoch 464100, Loss 0.15228000283241272, lr 0.0001
Epoch 464200, Loss 0.053643859922885895, lr 0.0001
Epoch 464300, Loss 0.004475160036236048, lr 0.0001
Epoch 464400, Loss 0.004441926721483469, lr 0.0001
Epoch 464500, Loss 0.008606563322246075, lr 0.0001
Epoch 464600, Loss 0.0043440754525363445, lr 0.0001
Epoch 464700, Loss 0.004235117696225643, lr 0.0001
Epoch 464800, Loss 0.026527859270572662, lr 0.0001
Epoch 464900, Loss 0.0042333356104791164, lr 0.0001
Epoch 465000, Loss 0.004233096726238728, lr 0.0001
Epoch 465100, Loss 0.004231172613799572, lr 0.0001
Epoch 465200, Loss 0.004231987986713648, lr 0.0001
Epoch 465300, Loss 0.004436492454260588, lr 0.0001
Epoch 465400, Loss 0.004279822111129761, lr 0.0001
Epoch 465500, Loss 0.06500973552465439, lr 0.0001
Epoch 465600, Loss 0.004229382146149874, lr 0.0001
Epoch 465700, Loss 0.004227725323289633, lr 0.0001
Epoch 465800, Loss 0.004228037316352129, lr 0.0001
Epoch 465900, Loss 0.006073338445276022, lr 0.0001
Epoch 466000, Loss 0.004227046389132738, lr 0.0001
Epoch 466100, Loss 0.004226088523864746, lr 0.0001
Epoch 466200, Loss 0.0042277234606444836, lr 0.0001
Epoch 466300, Loss 0.0042961169965565205, lr 0.0001
Epoch 466400, Loss 0.0200927946716547, lr 0.0001
Epoch 466500, Loss 0.004226441960781813, lr 0.0001
Epoch 466600, Loss 0.005123570095747709, lr 0.0001
Epoch 466700, Loss 0.0043577589094638824, lr 0.0001
Epoch 466800, Loss 0.004223306197673082, lr 0.0001
Epoch 466900, Loss 0.004220949485898018, lr 0.0001
Epoch 467000, Loss 0.004768603015691042, lr 0.0001
Epoch 467100, Loss 0.004382553044706583, lr 0.0001
Epoch 467200, Loss 0.004221540875732899, lr 0.0001
Epoch 467300, Loss 0.00422026077285409, lr 0.0001
Epoch 467400, Loss 0.06658803671598434, lr 0.0001
Epoch 467500, Loss 0.004218548536300659, lr 0.0001
Epoch 467600, Loss 0.004217550624161959, lr 0.0001

Epoch 467700, Loss 0.02798715978860855, lr 0.0001
Epoch 467800, Loss 0.004223604686558247, lr 0.0001
Epoch 467900, Loss 0.0042172702960669994, lr 0.0001
Epoch 468000, Loss 0.0052417004480957985, lr 0.0001
Epoch 468100, Loss 0.004218224436044693, lr 0.0001
Epoch 468200, Loss 0.004214809741824865, lr 0.0001
Epoch 468300, Loss 0.004215547349303961, lr 0.0001
Epoch 468400, Loss 0.011053984984755516, lr 0.0001
Epoch 468500, Loss 0.004237102810293436, lr 0.0001
Epoch 468600, Loss 0.005084181670099497, lr 0.0001
Epoch 468700, Loss 0.004211846739053726, lr 0.0001
Epoch 468800, Loss 0.013944616541266441, lr 0.0001
Epoch 468900, Loss 0.004212760832160711, lr 0.0001
Epoch 469000, Loss 0.004210731480270624, lr 0.0001
Epoch 469100, Loss 0.004214066080749035, lr 0.0001
Epoch 469200, Loss 0.004885117989033461, lr 0.0001
Epoch 469300, Loss 0.004212554544210434, lr 0.0001
Epoch 469400, Loss 0.004211065825074911, lr 0.0001
Epoch 469500, Loss 0.004209024831652641, lr 0.0001
Epoch 469600, Loss 0.004646584391593933, lr 0.0001
Epoch 469700, Loss 0.006063429173082113, lr 0.0001
Epoch 469800, Loss 0.004900854080915451, lr 0.0001
Epoch 469900, Loss 0.00420807721093297, lr 0.0001
Epoch 470000, Loss 0.2030240297317505, lr 0.0001
Epoch 470100, Loss 0.00421582255512476, lr 0.0001
Epoch 470200, Loss 0.004206724930554628, lr 0.0001
Epoch 470300, Loss 0.004205545410513878, lr 0.0001
Epoch 470400, Loss 0.06572884321212769, lr 0.0001
Epoch 470500, Loss 0.0042061591520905495, lr 0.0001
Epoch 470600, Loss 0.004205038305372, lr 0.0001
Epoch 470700, Loss 0.004202919080853462, lr 0.0001
Epoch 470800, Loss 0.004200945142656565, lr 0.0001
Epoch 470900, Loss 0.004206136334687471, lr 0.0001
Epoch 471000, Loss 0.005023527424782515, lr 0.0001
Epoch 471100, Loss 0.0042035081423819065, lr 0.0001
Epoch 471200, Loss 0.004201078321784735, lr 0.0001
Epoch 471300, Loss 0.004201926290988922, lr 0.0001
Epoch 471400, Loss 0.004201936069875956, lr 0.0001
Epoch 471500, Loss 0.004200034774839878, lr 0.0001
Epoch 471600, Loss 0.06582597643136978, lr 0.0001
Epoch 471700, Loss 0.0049166204407811165, lr 0.0001
Epoch 471800, Loss 0.00535332877188921, lr 0.0001
Epoch 471900, Loss 0.0043459380976855755, lr 0.0001
Epoch 472000, Loss 0.004536861088126898, lr 0.0001
Epoch 472100, Loss 0.005081005860120058, lr 0.0001
Epoch 472200, Loss 0.004237058572471142, lr 0.0001
Epoch 472300, Loss 0.00419745733961463, lr 0.0001
Epoch 472400, Loss 0.009133308194577694, lr 0.0001

Epoch 472500, Loss 0.0045706890523433685, lr 0.0001
Epoch 472600, Loss 0.004733864217996597, lr 0.0001
Epoch 472700, Loss 0.0602937787771225, lr 0.0001
Epoch 472800, Loss 0.004199653398245573, lr 0.0001
Epoch 472900, Loss 0.005330435000360012, lr 0.0001
Epoch 473000, Loss 0.006209625396877527, lr 0.0001
Epoch 473100, Loss 0.09219678491353989, lr 0.0001
Epoch 473200, Loss 0.004264387767761946, lr 0.0001
Epoch 473300, Loss 0.006081864237785339, lr 0.0001
Epoch 473400, Loss 0.02828625775873661, lr 0.0001
Epoch 473500, Loss 0.0042351167649030685, lr 0.0001
Epoch 473600, Loss 0.00443394435569644, lr 0.0001
Epoch 473700, Loss 0.004190425854176283, lr 0.0001
Epoch 473800, Loss 0.005325902719050646, lr 0.0001
Epoch 473900, Loss 0.004183201584964991, lr 0.0001
Epoch 474000, Loss 0.2738553583621979, lr 0.0001
Epoch 474100, Loss 0.004206806421279907, lr 0.0001
Epoch 474200, Loss 0.0041840896010398865, lr 0.0001
Epoch 474300, Loss 0.004181704018265009, lr 0.0001
Epoch 474400, Loss 0.004184137564152479, lr 0.0001
Epoch 474500, Loss 0.005964950658380985, lr 0.0001
Epoch 474600, Loss 0.004180365242063999, lr 0.0001
Epoch 474700, Loss 0.004183878190815449, lr 0.0001
Epoch 474800, Loss 0.004181848838925362, lr 0.0001
Epoch 474900, Loss 0.004181608557701111, lr 0.0001
Epoch 475000, Loss 0.004178810399025679, lr 0.0001
Epoch 475100, Loss 0.007714313920587301, lr 0.0001
Epoch 475200, Loss 0.009671025909483433, lr 0.0001
Epoch 475300, Loss 0.023130398243665695, lr 0.0001
Epoch 475400, Loss 0.004203751217573881, lr 0.0001
Epoch 475500, Loss 0.004494981374591589, lr 0.0001
Epoch 475600, Loss 0.0332292802631855, lr 0.0001
Epoch 475700, Loss 0.02370053343474865, lr 0.0001
Epoch 475800, Loss 0.11323563009500504, lr 0.0001
Epoch 475900, Loss 0.009052911773324013, lr 0.0001
Epoch 476000, Loss 0.004259523935616016, lr 0.0001
Epoch 476100, Loss 0.004676523618400097, lr 0.0001
Epoch 476200, Loss 0.008401310071349144, lr 0.0001
Epoch 476300, Loss 0.14694660902023315, lr 0.0001
Epoch 476400, Loss 0.0041978550143539906, lr 0.0001
Epoch 476500, Loss 0.004194275941699743, lr 0.0001
Epoch 476600, Loss 0.016143687069416046, lr 0.0001
Epoch 476700, Loss 0.004234456457197666, lr 0.0001
Epoch 476800, Loss 0.004408432170748711, lr 0.0001
Epoch 476900, Loss 0.09056331217288971, lr 0.0001
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Epoch 477100, Loss 0.004499313421547413, lr 0.0001
Epoch 477200, Loss 0.004166130442172289, lr 0.0001

Epoch 477300, Loss 0.010034981183707714, lr 0.0001
Epoch 477400, Loss 0.004229564219713211, lr 0.0001
Epoch 477500, Loss 0.0041661979630589485, lr 0.0001
Epoch 477600, Loss 0.00416603172197938, lr 0.0001
Epoch 477700, Loss 0.006987494882196188, lr 0.0001
Epoch 477800, Loss 0.004233037121593952, lr 0.0001
Epoch 477900, Loss 0.04011515900492668, lr 0.0001
Epoch 478000, Loss 0.004162417259067297, lr 0.0001
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Epoch 478200, Loss 0.004170066211372614, lr 0.0001
Epoch 478300, Loss 0.004161503165960312, lr 0.0001
Epoch 478400, Loss 0.45474863052368164, lr 0.0001
Epoch 478500, Loss 0.004192089196294546, lr 0.0001
Epoch 478600, Loss 0.0041633290238678455, lr 0.0001
Epoch 478700, Loss 0.004160931799560785, lr 0.0001
Epoch 478800, Loss 0.004160717595368624, lr 0.0001
Epoch 478900, Loss 0.004158250987529755, lr 0.0001
Epoch 479000, Loss 0.004335729405283928, lr 0.0001
Epoch 479100, Loss 0.004172101616859436, lr 0.0001
Epoch 479200, Loss 0.013797073625028133, lr 0.0001
Epoch 479300, Loss 0.0041591408662498, lr 0.0001
Epoch 479400, Loss 0.004156340379267931, lr 0.0001
Epoch 479500, Loss 0.07080604135990143, lr 0.0001
Epoch 479600, Loss 0.004159227479249239, lr 0.0001
Epoch 479700, Loss 0.004158200230449438, lr 0.0001
Epoch 479800, Loss 0.004155959002673626, lr 0.0001
Epoch 479900, Loss 0.004156666342169046, lr 0.0001
Epoch 480000, Loss 0.00415435153990984, lr 0.0001
Epoch 480100, Loss 0.004153949674218893, lr 0.0001
Epoch 480200, Loss 0.004392306320369244, lr 0.0001
Epoch 480300, Loss 0.004152460023760796, lr 0.0001
Epoch 480400, Loss 0.004152128007262945, lr 0.0001
Epoch 480500, Loss 0.004149831365793943, lr 0.0001
Epoch 480600, Loss 0.5437831878662109, lr 0.0001
Epoch 480700, Loss 0.0041667805053293705, lr 0.0001
Epoch 480800, Loss 0.004151267930865288, lr 0.0001
Epoch 480900, Loss 0.004148935899138451, lr 0.0001
Epoch 481000, Loss 0.004148469306528568, lr 0.0001
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Epoch 481200, Loss 0.004155420698225498, lr 0.0001
Epoch 481300, Loss 0.004149787127971649, lr 0.0001
Epoch 481400, Loss 0.004149884916841984, lr 0.0001
Epoch 481500, Loss 0.004148601088672876, lr 0.0001
Epoch 481600, Loss 0.004149327520281076, lr 0.0001
Epoch 481700, Loss 0.00414956035092473, lr 0.0001
Epoch 481800, Loss 0.004192788619548082, lr 0.0001
Epoch 481900, Loss 0.004520862363278866, lr 0.0001
Epoch 482000, Loss 0.0463930144906044, lr 0.0001

Epoch 482100, Loss 0.004149355459958315, lr 0.0001
Epoch 482200, Loss 0.00468864431604743, lr 0.0001
Epoch 482300, Loss 0.004179216921329498, lr 0.0001
Epoch 482400, Loss 0.004291069693863392, lr 0.0001
Epoch 482500, Loss 0.004139589611440897, lr 0.0001
Epoch 482600, Loss 0.03694210574030876, lr 0.0001
Epoch 482700, Loss 0.004146583378314972, lr 0.0001
Epoch 482800, Loss 0.004141936078667641, lr 0.0001
Epoch 482900, Loss 0.004141247831285, lr 0.0001
Epoch 483000, Loss 0.004139430820941925, lr 0.0001
Epoch 483100, Loss 0.007390292827039957, lr 0.0001
Epoch 483200, Loss 0.05407216399908066, lr 0.0001
Epoch 483300, Loss 0.0041380468755960464, lr 0.0001
Epoch 483400, Loss 0.005322675686329603, lr 0.0001
Epoch 483500, Loss 0.004200617782771587, lr 0.0001
Epoch 483600, Loss 0.004137224983423948, lr 0.0001
Epoch 483700, Loss 0.15172159671783447, lr 0.0001
Epoch 483800, Loss 0.004288123454898596, lr 0.0001
Epoch 483900, Loss 0.004134839400649071, lr 0.0001
Epoch 484000, Loss 0.004133679438382387, lr 0.0001
Epoch 484100, Loss 0.0041374098509550095, lr 0.0001
Epoch 484200, Loss 0.004193430300801992, lr 0.0001
Epoch 484300, Loss 0.0041847387328743935, lr 0.0001
Epoch 484400, Loss 0.00864879135042429, lr 0.0001
Epoch 484500, Loss 0.011063015088438988, lr 0.0001
Epoch 484600, Loss 0.004139170981943607, lr 0.0001
Epoch 484700, Loss 0.2934240698814392, lr 0.0001
Epoch 484800, Loss 0.004162604920566082, lr 0.0001
Epoch 484900, Loss 0.004157357849180698, lr 0.0001
Epoch 485000, Loss 0.010306360200047493, lr 0.0001
Epoch 485100, Loss 0.004421529360115528, lr 0.0001
Epoch 485200, Loss 0.004127184860408306, lr 0.0001
Epoch 485300, Loss 0.08692745864391327, lr 0.0001
Epoch 485400, Loss 0.0041928947903215885, lr 0.0001
Epoch 485500, Loss 0.004129063803702593, lr 0.0001
Epoch 485600, Loss 0.053019262850284576, lr 0.0001
Epoch 485700, Loss 0.004130140412598848, lr 0.0001
Epoch 485800, Loss 0.004127088468521833, lr 0.0001
Epoch 485900, Loss 0.004123751539736986, lr 0.0001
Epoch 486000, Loss 0.004157762974500656, lr 0.0001
Epoch 486100, Loss 0.02955341339111328, lr 0.0001
Epoch 486200, Loss 0.004144070670008659, lr 0.0001
Epoch 486300, Loss 0.004120592027902603, lr 0.0001
Epoch 486400, Loss 0.004892528522759676, lr 0.0001
Epoch 486500, Loss 0.004150125198066235, lr 0.0001
Epoch 486600, Loss 0.004119249060750008, lr 0.0001
Epoch 486700, Loss 0.004119348246604204, lr 0.0001
Epoch 486800, Loss 0.004118969663977623, lr 0.0001

Epoch 486900, Loss 0.004118448588997126, lr 0.0001
Epoch 487000, Loss 0.0127183236181736, lr 0.0001
Epoch 487100, Loss 0.00415910966694355, lr 0.0001
Epoch 487200, Loss 0.004117406439036131, lr 0.0001
Epoch 487300, Loss 0.00411478104069829, lr 0.0001
Epoch 487400, Loss 0.022130465134978294, lr 0.0001
Epoch 487500, Loss 0.004115846008062363, lr 0.0001
Epoch 487600, Loss 0.004117083735764027, lr 0.0001
Epoch 487700, Loss 0.004117223434150219, lr 0.0001
Epoch 487800, Loss 0.130802720785141, lr 0.0001
Epoch 487900, Loss 0.004120583180338144, lr 0.0001
Epoch 488000, Loss 0.004766375292092562, lr 0.0001
Epoch 488100, Loss 0.005611101631075144, lr 0.0001
Epoch 488200, Loss 0.004118995275348425, lr 0.0001
Epoch 488300, Loss 0.00500436220318079, lr 0.0001
Epoch 488400, Loss 0.004111632239073515, lr 0.0001
Epoch 488500, Loss 0.07331249117851257, lr 0.0001
Epoch 488600, Loss 0.0041435654275119305, lr 0.0001
Epoch 488700, Loss 0.00411079078912735, lr 0.0001
Epoch 488800, Loss 0.004109864588826895, lr 0.0001
Epoch 488900, Loss 0.014980415813624859, lr 0.0001
Epoch 489000, Loss 0.0041124545969069, lr 0.0001
Epoch 489100, Loss 0.004491325002163649, lr 0.0001
Epoch 489200, Loss 0.004106496460735798, lr 0.0001
Epoch 489300, Loss 0.7195971012115479, lr 0.0001
Epoch 489400, Loss 0.004111253656446934, lr 0.0001
Epoch 489500, Loss 0.004104390740394592, lr 0.0001
Epoch 489600, Loss 0.006281641777604818, lr 0.0001
Epoch 489700, Loss 0.028110837563872337, lr 0.0001
Epoch 489800, Loss 0.0041052671149373055, lr 0.0001
Epoch 489900, Loss 0.004103114828467369, lr 0.0001
Epoch 490000, Loss 0.021913036704063416, lr 0.0001
Epoch 490100, Loss 0.004107888787984848, lr 0.0001
Epoch 490200, Loss 0.004100454039871693, lr 0.0001
Epoch 490300, Loss 0.004103153478354216, lr 0.0001
Epoch 490400, Loss 0.005219352897256613, lr 0.0001
Epoch 490500, Loss 0.008616305887699127, lr 0.0001
Epoch 490600, Loss 0.006642563734203577, lr 0.0001
Epoch 490700, Loss 0.0070001352578401566, lr 0.0001
Epoch 490800, Loss 0.010933567769825459, lr 0.0001
Epoch 490900, Loss 0.008398259058594704, lr 0.0001
Epoch 491000, Loss 0.005029395222663879, lr 0.0001
Epoch 491100, Loss 0.004097758326679468, lr 0.0001
Epoch 491200, Loss 0.0064540281891822815, lr 0.0001
Epoch 491300, Loss 0.48865246772766113, lr 0.0001
Epoch 491400, Loss 0.004097535740584135, lr 0.0001
Epoch 491500, Loss 0.057844098657369614, lr 0.0001
Epoch 491600, Loss 0.004095785785466433, lr 0.0001

Epoch 491700, Loss 0.004093394614756107, lr 0.0001
Epoch 491800, Loss 0.03581881523132324, lr 0.0001
Epoch 491900, Loss 0.0040939426980912685, lr 0.0001
Epoch 492000, Loss 0.004094271454960108, lr 0.0001
Epoch 492100, Loss 0.004092268645763397, lr 0.0001
Epoch 492200, Loss 0.004093428608030081, lr 0.0001
Epoch 492300, Loss 0.004090357571840286, lr 0.0001
Epoch 492400, Loss 0.004089736379683018, lr 0.0001
Epoch 492500, Loss 0.007917346432805061, lr 0.0001
Epoch 492600, Loss 0.004091078415513039, lr 0.0001
Epoch 492700, Loss 0.0040892246179282665, lr 0.0001
Epoch 492800, Loss 0.004088974092155695, lr 0.0001
Epoch 492900, Loss 0.0040897587314248085, lr 0.0001
Epoch 493000, Loss 0.00408852007240057, lr 0.0001
Epoch 493100, Loss 0.004088726360350847, lr 0.0001
Epoch 493200, Loss 0.017451215535402298, lr 0.0001
Epoch 493300, Loss 0.004092874936759472, lr 0.0001
Epoch 493400, Loss 0.004090132191777229, lr 0.0001
Epoch 493500, Loss 0.004087795503437519, lr 0.0001
Epoch 493600, Loss 0.004085146822035313, lr 0.0001
Epoch 493700, Loss 0.004087948706001043, lr 0.0001
Epoch 493800, Loss 0.004085906315594912, lr 0.0001
Epoch 493900, Loss 0.004084466956555843, lr 0.0001
Epoch 494000, Loss 0.004127671010792255, lr 0.0001
Epoch 494100, Loss 0.004157169256359339, lr 0.0001
Epoch 494200, Loss 0.004105949774384499, lr 0.0001
Epoch 494300, Loss 0.004181080963462591, lr 0.0001
Epoch 494400, Loss 0.004084866493940353, lr 0.0001
Epoch 494500, Loss 0.11391234397888184, lr 0.0001
Epoch 494600, Loss 0.004174244124442339, lr 0.0001
Epoch 494700, Loss 0.0040835668332874775, lr 0.0001
Epoch 494800, Loss 0.004081488586962223, lr 0.0001
Epoch 494900, Loss 0.004083043895661831, lr 0.0001
Epoch 495000, Loss 0.004078414756804705, lr 0.0001
Epoch 495100, Loss 0.030182110145688057, lr 0.0001
Epoch 495200, Loss 0.004083805717527866, lr 0.0001
Epoch 495300, Loss 0.004079493228346109, lr 0.0001
Epoch 495400, Loss 0.004082431551069021, lr 0.0001
Epoch 495500, Loss 0.00408126600086689, lr 0.0001
Epoch 495600, Loss 0.013359681703150272, lr 0.0001
Epoch 495700, Loss 0.004076159559190273, lr 0.0001
Epoch 495800, Loss 0.12326881289482117, lr 0.0001
Epoch 495900, Loss 0.011439625173807144, lr 0.0001
Epoch 496000, Loss 0.0048582847230136395, lr 0.0001
Epoch 496100, Loss 0.15202820301055908, lr 0.0001
Epoch 496200, Loss 0.05941600725054741, lr 0.0001
Epoch 496300, Loss 0.004253760911524296, lr 0.0001
Epoch 496400, Loss 0.004177310038357973, lr 0.0001

Epoch 496500, Loss 0.23031823337078094, lr 0.0001
Epoch 496600, Loss 0.004080456215888262, lr 0.0001
Epoch 496700, Loss 0.007341329474002123, lr 0.0001
Epoch 496800, Loss 0.004075266420841217, lr 0.0001
Epoch 496900, Loss 0.004259893670678139, lr 0.0001
Epoch 497000, Loss 0.004267704673111439, lr 0.0001
Epoch 497100, Loss 0.004067205358296633, lr 0.0001
Epoch 497200, Loss 0.004072494804859161, lr 0.0001
Epoch 497300, Loss 0.022663889452815056, lr 0.0001
Epoch 497400, Loss 0.004071962554007769, lr 0.0001
Epoch 497500, Loss 0.00406937999650836, lr 0.0001
Epoch 497600, Loss 0.0077688549645245075, lr 0.0001
Epoch 497700, Loss 0.004068043082952499, lr 0.0001
Epoch 497800, Loss 0.004067677538841963, lr 0.0001
Epoch 497900, Loss 0.0040664090774953365, lr 0.0001
Epoch 498000, Loss 0.0040664575062692165, lr 0.0001
Epoch 498100, Loss 0.008466789498925209, lr 0.0001
Epoch 498200, Loss 0.004063668195158243, lr 0.0001
Epoch 498300, Loss 0.00441436842083931, lr 0.0001
Epoch 498400, Loss 0.11415449529886246, lr 0.0001
Epoch 498500, Loss 0.004104159772396088, lr 0.0001
Epoch 498600, Loss 0.007848730310797691, lr 0.0001
Epoch 498700, Loss 0.00406273128464818, lr 0.0001
Epoch 498800, Loss 0.004430884961038828, lr 0.0001
Epoch 498900, Loss 0.05351589247584343, lr 0.0001
Epoch 499000, Loss 0.004071544390171766, lr 0.0001
Epoch 499100, Loss 0.00936718750745058, lr 0.0001
Epoch 499200, Loss 0.0040626972913742065, lr 0.0001
Epoch 499300, Loss 0.0044502317905426025, lr 0.0001
Epoch 499400, Loss 0.014967995695769787, lr 0.0001
Epoch 499500, Loss 0.004056453704833984, lr 0.0001
Epoch 499600, Loss 0.06349849700927734, lr 0.0001
Epoch 499700, Loss 0.0043317596428096294, lr 0.0001
Epoch 499800, Loss 0.0042501031421124935, lr 0.0001
Epoch 499900, Loss 0.07334842532873154, lr 0.0001
Epoch 500000, Loss 0.004061475396156311, lr 0.0001
Epoch 500100, Loss 0.01570107229053974, lr 0.0001
Epoch 500200, Loss 0.013717442750930786, lr 0.0001
Epoch 500300, Loss 0.025296391919255257, lr 0.0001
Epoch 500400, Loss 0.05269354581832886, lr 0.0001
Epoch 500500, Loss 0.00777722243219614, lr 0.0001
Epoch 500600, Loss 0.004055854398757219, lr 0.0001
Epoch 500700, Loss 0.00445308955386281, lr 0.0001
Epoch 500800, Loss 0.004059638362377882, lr 0.0001
Epoch 500900, Loss 0.0043239411897957325, lr 0.0001
Epoch 501000, Loss 0.004050185438245535, lr 0.0001
Epoch 501100, Loss 0.004047752823680639, lr 0.0001
Epoch 501200, Loss 0.006718269549310207, lr 0.0001

Epoch 501300, Loss 0.004048090893775225, lr 0.0001
Epoch 501400, Loss 0.004050558898597956, lr 0.0001
Epoch 501500, Loss 0.0040508839301764965, lr 0.0001
Epoch 501600, Loss 0.004047495778650045, lr 0.0001
Epoch 501700, Loss 0.014683823101222515, lr 0.0001
Epoch 501800, Loss 0.004750105086714029, lr 0.0001
Epoch 501900, Loss 0.004472615662962198, lr 0.0001
Epoch 502000, Loss 0.0050806207582354546, lr 0.0001
Epoch 502100, Loss 0.0070909420028328896, lr 0.0001
Epoch 502200, Loss 0.05989820882678032, lr 0.0001
Epoch 502300, Loss 0.16592323780059814, lr 0.0001
Epoch 502400, Loss 0.004065630491822958, lr 0.0001
Epoch 502500, Loss 0.008328734897077084, lr 0.0001
Epoch 502600, Loss 0.004040786996483803, lr 0.0001
Epoch 502700, Loss 0.007594131864607334, lr 0.0001
Epoch 502800, Loss 0.004038890358060598, lr 0.0001
Epoch 502900, Loss 0.05623834952712059, lr 0.0001
Epoch 503000, Loss 0.004086157772690058, lr 0.0001
Epoch 503100, Loss 0.0040373168885707855, lr 0.0001
Epoch 503200, Loss 0.0040407367050647736, lr 0.0001
Epoch 503300, Loss 0.004367238841950893, lr 0.0001
Epoch 503400, Loss 0.004039867781102657, lr 0.0001
Epoch 503500, Loss 0.004036405589431524, lr 0.0001
Epoch 503600, Loss 0.005224218126386404, lr 0.0001
Epoch 503700, Loss 0.004037908278405666, lr 0.0001
Epoch 503800, Loss 0.00403819652274251, lr 0.0001
Epoch 503900, Loss 0.004035547841340303, lr 0.0001
Epoch 504000, Loss 0.004037682898342609, lr 0.0001
Epoch 504100, Loss 0.004064845386892557, lr 0.0001
Epoch 504200, Loss 0.011204497888684273, lr 0.0001
Epoch 504300, Loss 0.15546149015426636, lr 0.0001
Epoch 504400, Loss 0.00582317728549242, lr 0.0001
Epoch 504500, Loss 0.0041304235346615314, lr 0.0001
Epoch 504600, Loss 0.03364729881286621, lr 0.0001
Epoch 504700, Loss 0.08148638904094696, lr 0.0001
Epoch 504800, Loss 0.03432605415582657, lr 0.0001
Epoch 504900, Loss 0.004105430096387863, lr 0.0001
Epoch 505000, Loss 0.005174634512513876, lr 0.0001
Epoch 505100, Loss 0.013593414798378944, lr 0.0001
Epoch 505200, Loss 0.02249962091445923, lr 0.0001
Epoch 505300, Loss 0.01682964153587818, lr 0.0001
Epoch 505400, Loss 0.004968218505382538, lr 0.0001
Epoch 505500, Loss 0.12203481793403625, lr 0.0001
Epoch 505600, Loss 0.004042565356940031, lr 0.0001
Epoch 505700, Loss 0.004593131132423878, lr 0.0001
Epoch 505800, Loss 0.00402434915304184, lr 0.0001
Epoch 505900, Loss 0.010760345496237278, lr 0.0001
Epoch 506000, Loss 0.004023433662950993, lr 0.0001

Epoch 506100, Loss 0.004021848551928997, lr 0.0001
Epoch 506200, Loss 0.28746917843818665, lr 0.0001
Epoch 506300, Loss 0.004050152376294136, lr 0.0001
Epoch 506400, Loss 0.004023656714707613, lr 0.0001
Epoch 506500, Loss 0.00402418989688158, lr 0.0001
Epoch 506600, Loss 0.004023360088467598, lr 0.0001
Epoch 506700, Loss 0.004021021071821451, lr 0.0001
Epoch 506800, Loss 0.004215606022626162, lr 0.0001
Epoch 506900, Loss 0.010540371760725975, lr 0.0001
Epoch 507000, Loss 0.004019951447844505, lr 0.0001
Epoch 507100, Loss 0.007837355136871338, lr 0.0001
Epoch 507200, Loss 0.006260761991143227, lr 0.0001
Epoch 507300, Loss 0.007801392115652561, lr 0.0001
Epoch 507400, Loss 0.06065164506435394, lr 0.0001
Epoch 507500, Loss 0.10533303022384644, lr 0.0001
Epoch 507600, Loss 0.012361452914774418, lr 0.0001
Epoch 507700, Loss 0.004086656495928764, lr 0.0001
Epoch 507800, Loss 0.12037019431591034, lr 0.0001
Epoch 507900, Loss 0.004029293078929186, lr 0.0001
Epoch 508000, Loss 0.009151688776910305, lr 0.0001
Epoch 508100, Loss 0.022449109703302383, lr 0.0001
Epoch 508200, Loss 0.020670367404818535, lr 0.0001
Epoch 508300, Loss 0.00401980010792613, lr 0.0001
Epoch 508400, Loss 0.1742015779018402, lr 0.0001
Epoch 508500, Loss 0.0040128594264388084, lr 0.0001
Epoch 508600, Loss 0.004010543692857027, lr 0.0001
Epoch 508700, Loss 0.004568575415760279, lr 0.0001
Epoch 508800, Loss 0.004008505027741194, lr 0.0001
Epoch 508900, Loss 0.004009461496025324, lr 0.0001
Epoch 509000, Loss 0.005721038207411766, lr 0.0001
Epoch 509100, Loss 0.004057069309055805, lr 0.0001
Epoch 509200, Loss 0.00520613556727767, lr 0.0001
Epoch 509300, Loss 0.032364439219236374, lr 0.0001
Epoch 509400, Loss 0.01220429502427578, lr 0.0001
Epoch 509500, Loss 0.004380956292152405, lr 0.0001
Epoch 509600, Loss 0.009953784756362438, lr 0.0001
Epoch 509700, Loss 0.004018805921077728, lr 0.0001
Epoch 509800, Loss 0.09631839394569397, lr 0.0001
Epoch 509900, Loss 0.00402971263974905, lr 0.0001
Epoch 510000, Loss 0.004095461685210466, lr 0.0001
Epoch 510100, Loss 0.008022039197385311, lr 0.0001
Epoch 510200, Loss 0.004103232175111771, lr 0.0001
Epoch 510300, Loss 0.0759890079498291, lr 0.0001
Epoch 510400, Loss 0.00408618850633502, lr 0.0001
Epoch 510500, Loss 0.016055431216955185, lr 0.0001
Epoch 510600, Loss 0.00562376668676734, lr 0.0001
Epoch 510700, Loss 0.004177337046712637, lr 0.0001
Epoch 510800, Loss 0.004856766667217016, lr 0.0001

Epoch 510900, Loss 0.014691304415464401, lr 0.0001
Epoch 511000, Loss 0.008644930087029934, lr 0.0001
Epoch 511100, Loss 0.004054941702634096, lr 0.0001
Epoch 511200, Loss 0.06952516734600067, lr 0.0001
Epoch 511300, Loss 0.004035483580082655, lr 0.0001
Epoch 511400, Loss 0.004530369304120541, lr 0.0001
Epoch 511500, Loss 0.004084470681846142, lr 0.0001
Epoch 511600, Loss 0.15598109364509583, lr 0.0001
Epoch 511700, Loss 0.00399618037045002, lr 0.0001
Epoch 511800, Loss 0.004735074006021023, lr 0.0001
Epoch 511900, Loss 0.11591783165931702, lr 0.0001
Epoch 512000, Loss 0.004049235954880714, lr 0.0001
Epoch 512100, Loss 0.0042322296649217606, lr 0.0001
Epoch 512200, Loss 0.003988754004240036, lr 0.0001
Epoch 512300, Loss 0.003991274628788233, lr 0.0001
Epoch 512400, Loss 0.004473651293665171, lr 0.0001
Epoch 512500, Loss 0.003987685311585665, lr 0.0001
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Epoch 512700, Loss 0.003983928356319666, lr 0.0001
Epoch 512800, Loss 0.008387160487473011, lr 0.0001
Epoch 512900, Loss 0.003987480886280537, lr 0.0001
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Epoch 513100, Loss 0.07881665229797363, lr 0.0001
Epoch 513200, Loss 0.00404380913823843, lr 0.0001
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Epoch 513600, Loss 0.003987151198089123, lr 0.0001
Epoch 513700, Loss 0.00398446898907423, lr 0.0001
Epoch 513800, Loss 0.003982937429100275, lr 0.0001
Epoch 513900, Loss 0.003981021232903004, lr 0.0001
Epoch 514000, Loss 0.003981150686740875, lr 0.0001
Epoch 514100, Loss 0.004407599568367004, lr 0.0001
Epoch 514200, Loss 0.003981512971222401, lr 0.0001
Epoch 514300, Loss 0.003982600290328264, lr 0.0001
Epoch 514400, Loss 0.003979697357863188, lr 0.0001
Epoch 514500, Loss 0.00416989903897047, lr 0.0001
Epoch 514600, Loss 0.0043909670785069466, lr 0.0001
Epoch 514700, Loss 0.003981884103268385, lr 0.0001
Epoch 514800, Loss 0.003980967681854963, lr 0.0001
Epoch 514900, Loss 0.0039781611412763596, lr 0.0001
Epoch 515000, Loss 0.003978165332227945, lr 0.0001
Epoch 515100, Loss 0.003978735767304897, lr 0.0001
Epoch 515200, Loss 0.003980214241892099, lr 0.0001
Epoch 515300, Loss 0.0040484946221113205, lr 0.0001
Epoch 515400, Loss 0.003981371410191059, lr 0.0001
Epoch 515500, Loss 0.004025745205581188, lr 0.0001
Epoch 515600, Loss 0.003977619577199221, lr 0.0001

Epoch 515700, Loss 0.18255332112312317, lr 0.0001
Epoch 515800, Loss 0.004034323617815971, lr 0.0001
Epoch 515900, Loss 0.003974784631282091, lr 0.0001
Epoch 516000, Loss 0.003971838857978582, lr 0.0001
Epoch 516100, Loss 0.00423810537904501, lr 0.0001
Epoch 516200, Loss 0.0727880671620369, lr 0.0001
Epoch 516300, Loss 0.003984611015766859, lr 0.0001
Epoch 516400, Loss 0.003970957826822996, lr 0.0001
Epoch 516500, Loss 0.01003386452794075, lr 0.0001
Epoch 516600, Loss 0.003970625344663858, lr 0.0001
Epoch 516700, Loss 0.003971852362155914, lr 0.0001
Epoch 516800, Loss 0.015590243972837925, lr 0.0001
Epoch 516900, Loss 0.006288300268352032, lr 0.0001
Epoch 517000, Loss 0.005910789594054222, lr 0.0001
Epoch 517100, Loss 0.008103728294372559, lr 0.0001
Epoch 517200, Loss 0.01198901329189539, lr 0.0001
Epoch 517300, Loss 0.007410661317408085, lr 0.0001
Epoch 517400, Loss 0.009080929681658745, lr 0.0001
Epoch 517500, Loss 0.0039640748873353004, lr 0.0001
Epoch 517600, Loss 0.009353295899927616, lr 0.0001
Epoch 517700, Loss 0.003966390620917082, lr 0.0001
Epoch 517800, Loss 0.003963919822126627, lr 0.0001
Epoch 517900, Loss 0.003962296061217785, lr 0.0001
Epoch 518000, Loss 0.007730312645435333, lr 0.0001
Epoch 518100, Loss 0.003963656257838011, lr 0.0001
Epoch 518200, Loss 0.003961221780627966, lr 0.0001
Epoch 518300, Loss 0.007735193707048893, lr 0.0001
Epoch 518400, Loss 0.003962630871683359, lr 0.0001
Epoch 518500, Loss 0.003960851579904556, lr 0.0001
Epoch 518600, Loss 0.003962086513638496, lr 0.0001
Epoch 518700, Loss 0.03651106357574463, lr 0.0001
Epoch 518800, Loss 0.0039640795439481735, lr 0.0001
Epoch 518900, Loss 0.003958048298954964, lr 0.0001
Epoch 519000, Loss 0.003961498849093914, lr 0.0001
Epoch 519100, Loss 0.02871801145374775, lr 0.0001
Epoch 519200, Loss 0.012773042544722557, lr 0.0001
Epoch 519300, Loss 0.005800266284495592, lr 0.0001
Epoch 519400, Loss 0.004176892805844545, lr 0.0001
Epoch 519500, Loss 0.006021711975336075, lr 0.0001
Epoch 519600, Loss 0.09668507426977158, lr 0.0001
Epoch 519700, Loss 0.00794962141662836, lr 0.0001
Epoch 519800, Loss 0.019692622125148773, lr 0.0001
Epoch 519900, Loss 0.003953377716243267, lr 0.0001
Epoch 520000, Loss 0.006926664616912603, lr 0.0001
Epoch 520100, Loss 0.4191349148750305, lr 0.0001
Epoch 520200, Loss 0.003954567015171051, lr 0.0001
Epoch 520300, Loss 0.03605308383703232, lr 0.0001
Epoch 520400, Loss 0.04237489029765129, lr 0.0001

Epoch 520500, Loss 0.054274316877126694, lr 0.0001
Epoch 520600, Loss 0.02645295485854149, lr 0.0001
Epoch 520700, Loss 0.26527687907218933, lr 0.0001
Epoch 520800, Loss 0.022773239761590958, lr 0.0001
Epoch 520900, Loss 0.004562978632748127, lr 0.0001
Epoch 521000, Loss 0.004030550830066204, lr 0.0001
Epoch 521100, Loss 0.004323470871895552, lr 0.0001
Epoch 521200, Loss 0.003947048913687468, lr 0.0001
Epoch 521300, Loss 0.022713663056492805, lr 0.0001
Epoch 521400, Loss 0.026759816333651543, lr 0.0001
Epoch 521500, Loss 0.003999647218734026, lr 0.0001
Epoch 521600, Loss 0.003942858427762985, lr 0.0001
Epoch 521700, Loss 0.04925740137696266, lr 0.0001
Epoch 521800, Loss 0.004103050567209721, lr 0.0001
Epoch 521900, Loss 0.0039460561238229275, lr 0.0001
Epoch 522000, Loss 0.0039428407326340675, lr 0.0001
Epoch 522100, Loss 0.003941782284528017, lr 0.0001
Epoch 522200, Loss 0.003984387032687664, lr 0.0001
Epoch 522300, Loss 0.004284347873181105, lr 0.0001
Epoch 522400, Loss 0.12476730346679688, lr 0.0001
Epoch 522500, Loss 0.08688832819461823, lr 0.0001
Epoch 522600, Loss 0.003946937620639801, lr 0.0001
Epoch 522700, Loss 0.30025771260261536, lr 0.0001
Epoch 522800, Loss 0.003972501493990421, lr 0.0001
Epoch 522900, Loss 0.004524440970271826, lr 0.0001
Epoch 523000, Loss 0.003960877191275358, lr 0.0001
Epoch 523100, Loss 0.003954395651817322, lr 0.0001
Epoch 523200, Loss 0.17029154300689697, lr 0.0001
Epoch 523300, Loss 0.011799775063991547, lr 0.0001
Epoch 523400, Loss 0.02204916812479496, lr 0.0001
Epoch 523500, Loss 0.003952990286052227, lr 0.0001
Epoch 523600, Loss 0.09447304159402847, lr 0.0001
Epoch 523700, Loss 0.017487162724137306, lr 0.0001
Epoch 523800, Loss 0.017935169860720634, lr 0.0001
Epoch 523900, Loss 0.00504322862252593, lr 0.0001
Epoch 524000, Loss 0.00544673902913928, lr 0.0001
Epoch 524100, Loss 0.01805073209106922, lr 0.0001
Epoch 524200, Loss 0.010848007164895535, lr 0.0001
Epoch 524300, Loss 0.04209543764591217, lr 0.0001
Epoch 524400, Loss 0.004009677097201347, lr 0.0001
Epoch 524500, Loss 0.00421308446675539, lr 0.0001
Epoch 524600, Loss 0.008054861798882484, lr 0.0001
Epoch 524700, Loss 0.08880386501550674, lr 0.0001
Epoch 524800, Loss 0.006784150376915932, lr 0.0001
Epoch 524900, Loss 0.1288055181503296, lr 0.0001
Epoch 525000, Loss 0.0039638616144657135, lr 0.0001
Epoch 525100, Loss 0.004458621609956026, lr 0.0001
Epoch 525200, Loss 0.005288998130708933, lr 0.0001

Epoch 525300, Loss 0.1763821542263031, lr 0.0001
Epoch 525400, Loss 0.003941867034882307, lr 0.0001
Epoch 525500, Loss 0.007475909776985645, lr 0.0001
Epoch 525600, Loss 0.02380111627280712, lr 0.0001
Epoch 525700, Loss 0.018328160047531128, lr 0.0001
Epoch 525800, Loss 0.003924996126443148, lr 0.0001
Epoch 525900, Loss 0.003919518087059259, lr 0.0001
Epoch 526000, Loss 0.004279041662812233, lr 0.0001
Epoch 526100, Loss 0.003920274320989847, lr 0.0001
Epoch 526200, Loss 0.003919373266398907, lr 0.0001
Epoch 526300, Loss 0.07337947934865952, lr 0.0001
Epoch 526400, Loss 0.0039281342178583145, lr 0.0001
Epoch 526500, Loss 0.003919798415154219, lr 0.0001
Epoch 526600, Loss 0.01917453482747078, lr 0.0001
Epoch 526700, Loss 0.0380173921585083, lr 0.0001
Epoch 526800, Loss 0.003921851050108671, lr 0.0001
Epoch 526900, Loss 0.06964819878339767, lr 0.0001
Epoch 527000, Loss 0.003953903913497925, lr 0.0001
Epoch 527100, Loss 0.003916623070836067, lr 0.0001
Epoch 527200, Loss 0.5534917116165161, lr 0.0001
Epoch 527300, Loss 0.003922565840184689, lr 0.0001
Epoch 527400, Loss 0.003916350193321705, lr 0.0001
Epoch 527500, Loss 0.003915349021553993, lr 0.0001
Epoch 527600, Loss 0.013377850875258446, lr 0.0001
Epoch 527700, Loss 0.003913694527000189, lr 0.0001
Epoch 527800, Loss 0.003915079403668642, lr 0.0001
Epoch 527900, Loss 0.003916031681001186, lr 0.0001
Epoch 528000, Loss 0.003914955072104931, lr 0.0001
Epoch 528100, Loss 0.003914333414286375, lr 0.0001
Epoch 528200, Loss 0.004078354686498642, lr 0.0001
Epoch 528300, Loss 0.009790954180061817, lr 0.0001
Epoch 528400, Loss 0.003930605482310057, lr 0.0001
Epoch 528500, Loss 0.005761630367487669, lr 0.0001
Epoch 528600, Loss 0.0048342435620725155, lr 0.0001
Epoch 528700, Loss 0.016668202355504036, lr 0.0001
Epoch 528800, Loss 0.003986792638897896, lr 0.0001
Epoch 528900, Loss 0.04190320521593094, lr 0.0001
Epoch 529000, Loss 0.003912543877959251, lr 0.0001
Epoch 529100, Loss 0.02237968146800995, lr 0.0001
Epoch 529200, Loss 0.28929924964904785, lr 0.0001
Epoch 529300, Loss 0.003931467421352863, lr 0.0001
Epoch 529400, Loss 0.029156718403100967, lr 0.0001
Epoch 529500, Loss 0.003906655125319958, lr 0.0001
Epoch 529600, Loss 0.009875641204416752, lr 0.0001
Epoch 529700, Loss 0.0039029684849083424, lr 0.0001
Epoch 529800, Loss 0.006848577875643969, lr 0.0001
Epoch 529900, Loss 0.004522535018622875, lr 0.0001
Epoch 530000, Loss 0.012834691442549229, lr 0.0001

Epoch 530100, Loss 0.1350335031747818, lr 0.0001
Epoch 530200, Loss 0.10129375010728836, lr 0.0001
Epoch 530300, Loss 0.06328432261943817, lr 0.0001
Epoch 530400, Loss 0.009497072547674179, lr 0.0001
Epoch 530500, Loss 0.007412646897137165, lr 0.0001
Epoch 530600, Loss 0.03218347579240799, lr 0.0001
Epoch 530700, Loss 0.006586088798940182, lr 0.0001
Epoch 530800, Loss 0.003929775208234787, lr 0.0001
Epoch 530900, Loss 0.0052595846354961395, lr 0.0001
Epoch 531000, Loss 0.11286594718694687, lr 0.0001
Epoch 531100, Loss 0.0039026003796607256, lr 0.0001
Epoch 531200, Loss 0.4329180419445038, lr 0.0001
Epoch 531300, Loss 0.003915946930646896, lr 0.0001
Epoch 531400, Loss 0.0038952496834099293, lr 0.0001
Epoch 531500, Loss 0.007725624367594719, lr 0.0001
Epoch 531600, Loss 0.0038930384907871485, lr 0.0001
Epoch 531700, Loss 0.003891987493261695, lr 0.0001
Epoch 531800, Loss 0.00596845056861639, lr 0.0001
Epoch 531900, Loss 0.00846545584499836, lr 0.0001
Epoch 532000, Loss 0.009568125940859318, lr 0.0001
Epoch 532100, Loss 0.006680977996438742, lr 0.0001
Epoch 532200, Loss 0.010353371500968933, lr 0.0001
Epoch 532300, Loss 0.0039011514745652676, lr 0.0001
Epoch 532400, Loss 0.004019544925540686, lr 0.0001
Epoch 532500, Loss 0.005780964624136686, lr 0.0001
Epoch 532600, Loss 0.00436191214248538, lr 0.0001
Epoch 532700, Loss 0.00616680271923542, lr 0.0001
Epoch 532800, Loss 0.0869051069021225, lr 0.0001
Epoch 532900, Loss 0.01987515389919281, lr 0.0001
Epoch 533000, Loss 0.004571565426886082, lr 0.0001
Epoch 533100, Loss 0.004011667333543301, lr 0.0001
Epoch 533200, Loss 0.15132978558540344, lr 0.0001
Epoch 533300, Loss 0.00391610711812973, lr 0.0001
Epoch 533400, Loss 0.004445909056812525, lr 0.0001
Epoch 533500, Loss 0.025910304859280586, lr 0.0001
Epoch 533600, Loss 0.003884777892380953, lr 0.0001
Epoch 533700, Loss 0.0733986347913742, lr 0.0001
Epoch 533800, Loss 0.003885335521772504, lr 0.0001
Epoch 533900, Loss 0.003879494732245803, lr 0.0001
Epoch 534000, Loss 0.005506008397787809, lr 0.0001
Epoch 534100, Loss 0.0038809441030025482, lr 0.0001
Epoch 534200, Loss 0.003882413264364004, lr 0.0001
Epoch 534300, Loss 0.003932441119104624, lr 0.0001
Epoch 534400, Loss 0.01108830887824297, lr 0.0001
Epoch 534500, Loss 0.003886135760694742, lr 0.0001
Epoch 534600, Loss 0.003878621617332101, lr 0.0001
Epoch 534700, Loss 0.003925354685634375, lr 0.0001
Epoch 534800, Loss 0.00387939834035933, lr 0.0001

Epoch 534900, Loss 0.0043434398248791695, lr 0.0001
Epoch 535000, Loss 0.003914263099431992, lr 0.0001
Epoch 535100, Loss 0.03665068745613098, lr 0.0001
Epoch 535200, Loss 0.003875062335282564, lr 0.0001
Epoch 535300, Loss 1.2603055238723755, lr 0.0001
Epoch 535400, Loss 0.003884296864271164, lr 0.0001
Epoch 535500, Loss 0.0038761920295655727, lr 0.0001
Epoch 535600, Loss 0.0038735014386475086, lr 0.0001
Epoch 535700, Loss 0.0038744595367461443, lr 0.0001
Epoch 535800, Loss 0.006315106991678476, lr 0.0001
Epoch 535900, Loss 0.003874462563544512, lr 0.0001
Epoch 536000, Loss 0.0038741049356758595, lr 0.0001
Epoch 536100, Loss 0.00387323135510087, lr 0.0001
Epoch 536200, Loss 0.003868743544444442, lr 0.0001
Epoch 536300, Loss 0.0038724832702428102, lr 0.0001
Epoch 536400, Loss 0.009880713187158108, lr 0.0001
Epoch 536500, Loss 0.0038725973572582006, lr 0.0001
Epoch 536600, Loss 0.008936652913689613, lr 0.0001
Epoch 536700, Loss 0.003870963817462325, lr 0.0001
Epoch 536800, Loss 0.0038690785877406597, lr 0.0001
Epoch 536900, Loss 0.003871226916089654, lr 0.0001
Epoch 537000, Loss 0.004125666338950396, lr 0.0001
Epoch 537100, Loss 0.004264124669134617, lr 0.0001
Epoch 537200, Loss 0.0038654867094010115, lr 0.0001
Epoch 537300, Loss 0.3999612331390381, lr 0.0001
Epoch 537400, Loss 0.003870835294947028, lr 0.0001
Epoch 537500, Loss 0.0038659218698740005, lr 0.0001
Epoch 537600, Loss 0.003864940721541643, lr 0.0001
Epoch 537700, Loss 0.0038657330442219973, lr 0.0001
Epoch 537800, Loss 0.0040374076925218105, lr 0.0001
Epoch 537900, Loss 0.003948379307985306, lr 0.0001
Epoch 538000, Loss 0.004096264950931072, lr 0.0001
Epoch 538100, Loss 0.004135570023208857, lr 0.0001
Epoch 538200, Loss 0.09571760147809982, lr 0.0001
Epoch 538300, Loss 0.0038787329103797674, lr 0.0001
Epoch 538400, Loss 0.02107810042798519, lr 0.0001
Epoch 538500, Loss 0.011704685166478157, lr 0.0001
Epoch 538600, Loss 0.00386033789254725, lr 0.0001
Epoch 538700, Loss 0.004337956663221121, lr 0.0001
Epoch 538800, Loss 0.003859967226162553, lr 0.0001
Epoch 538900, Loss 0.39234718680381775, lr 0.0001
Epoch 539000, Loss 0.0038717887364327908, lr 0.0001
Epoch 539100, Loss 0.0038595586083829403, lr 0.0001
Epoch 539200, Loss 0.003861131379380822, lr 0.0001
Epoch 539300, Loss 0.003858961397781968, lr 0.0001
Epoch 539400, Loss 0.003857392119243741, lr 0.0001
Epoch 539500, Loss 0.03892161697149277, lr 0.0001
Epoch 539600, Loss 0.003861990524455905, lr 0.0001

Epoch 539700, Loss 0.0038592242635786533, lr 0.0001
Epoch 539800, Loss 0.003859260119497776, lr 0.0001
Epoch 539900, Loss 0.003858185838907957, lr 0.0001
Epoch 540000, Loss 0.0038553504273295403, lr 0.0001
Epoch 540100, Loss 0.00385614694096148, lr 0.0001
Epoch 540200, Loss 0.0038568219169974327, lr 0.0001
Epoch 540300, Loss 0.00406819861382246, lr 0.0001
Epoch 540400, Loss 0.05330929905176163, lr 0.0001
Epoch 540500, Loss 0.0038607195019721985, lr 0.0001
Epoch 540600, Loss 0.003852710360661149, lr 0.0001
Epoch 540700, Loss 0.035066261887550354, lr 0.0001
Epoch 540800, Loss 0.0038552884943783283, lr 0.0001
Epoch 540900, Loss 0.003853716654703021, lr 0.0001
Epoch 541000, Loss 0.0038513250183314085, lr 0.0001
Epoch 541100, Loss 0.003850915702059865, lr 0.0001
Epoch 541200, Loss 0.0052094971761107445, lr 0.0001
Epoch 541300, Loss 0.003851262154057622, lr 0.0001
Epoch 541400, Loss 0.0038521909154951572, lr 0.0001
Epoch 541500, Loss 0.004622649867087603, lr 0.0001
Epoch 541600, Loss 0.0038517173379659653, lr 0.0001
Epoch 541700, Loss 0.00385334063321352, lr 0.0001
Epoch 541800, Loss 0.0038512111641466618, lr 0.0001
Epoch 541900, Loss 0.0038513559848070145, lr 0.0001
Epoch 542000, Loss 0.003848844673484564, lr 0.0001
Epoch 542100, Loss 0.2770777940750122, lr 0.0001
Epoch 542200, Loss 0.003876298666000366, lr 0.0001
Epoch 542300, Loss 0.003849733155220747, lr 0.0001
Epoch 542400, Loss 0.0038473450113087893, lr 0.0001
Epoch 542500, Loss 0.0038474886678159237, lr 0.0001
Epoch 542600, Loss 0.0049679954536259174, lr 0.0001
Epoch 542700, Loss 0.003844678169116378, lr 0.0001
Epoch 542800, Loss 0.0038445335812866688, lr 0.0001
Epoch 542900, Loss 0.03491468355059624, lr 0.0001
Epoch 543000, Loss 0.003857273142784834, lr 0.0001
Epoch 543100, Loss 0.003844570368528366, lr 0.0001
Epoch 543200, Loss 2.545405149459839, lr 0.0001
Epoch 543300, Loss 0.003916759043931961, lr 0.0001
Epoch 543400, Loss 0.0038427188992500305, lr 0.0001
Epoch 543500, Loss 0.003842102363705635, lr 0.0001
Epoch 543600, Loss 0.003842085599899292, lr 0.0001
Epoch 543700, Loss 0.019879544153809547, lr 0.0001
Epoch 543800, Loss 0.003841334953904152, lr 0.0001
Epoch 543900, Loss 0.029691871255636215, lr 0.0001
Epoch 544000, Loss 0.003930228296667337, lr 0.0001
Epoch 544100, Loss 0.003843083744868636, lr 0.0001
Epoch 544200, Loss 0.00383988325484097, lr 0.0001
Epoch 544300, Loss 0.0038383030332624912, lr 0.0001
Epoch 544400, Loss 0.0038501089438796043, lr 0.0001

Epoch 544500, Loss 0.003971430007368326, lr 0.0001
Epoch 544600, Loss 0.0038384967483580112, lr 0.0001
Epoch 544700, Loss 0.0038385221268981695, lr 0.0001
Epoch 544800, Loss 0.0038374140858650208, lr 0.0001
Epoch 544900, Loss 0.003834493923932314, lr 0.0001
Epoch 545000, Loss 0.0420994870364666, lr 0.0001
Epoch 545100, Loss 0.003841806435957551, lr 0.0001
Epoch 545200, Loss 0.003835673676803708, lr 0.0001
Epoch 545300, Loss 0.003972921520471573, lr 0.0001
Epoch 545400, Loss 0.0038722495082765818, lr 0.0001
Epoch 545500, Loss 0.0038340736646205187, lr 0.0001
Epoch 545600, Loss 0.0038320589810609818, lr 0.0001
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Epoch 545800, Loss 0.003837630618363619, lr 0.0001
Epoch 545900, Loss 0.0038339474704116583, lr 0.0001
Epoch 546000, Loss 0.003832142800092697, lr 0.0001
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Epoch 546200, Loss 0.0038325150962918997, lr 0.0001
Epoch 546300, Loss 0.0038337332662194967, lr 0.0001
Epoch 546400, Loss 0.05343241989612579, lr 0.0001
Epoch 546500, Loss 0.0038480351213365793, lr 0.0001
Epoch 546600, Loss 0.0038314377889037132, lr 0.0001
Epoch 546700, Loss 0.0038326538633555174, lr 0.0001
Epoch 546800, Loss 0.003839542157948017, lr 0.0001
Epoch 546900, Loss 0.054997172206640244, lr 0.0001
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Epoch 547100, Loss 0.003840685822069645, lr 0.0001
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Epoch 547300, Loss 0.0038260777946561575, lr 0.0001
Epoch 547400, Loss 0.0038249383214861155, lr 0.0001
Epoch 547500, Loss 0.009364577010273933, lr 0.0001
Epoch 547600, Loss 0.003825409570708871, lr 0.0001
Epoch 547700, Loss 0.003827206790447235, lr 0.0001
Epoch 547800, Loss 0.0038255464751273394, lr 0.0001
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Epoch 548400, Loss 0.003822931321337819, lr 0.0001
Epoch 548500, Loss 0.00691751204431057, lr 0.0001
Epoch 548600, Loss 0.003821329912170768, lr 0.0001
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Epoch 548800, Loss 0.003997514955699444, lr 0.0001
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Epoch 549000, Loss 0.008455208502709866, lr 0.0001
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Epoch 549200, Loss 0.27070486545562744, lr 0.0001

Epoch 549300, Loss 0.0038311216048896313, lr 0.0001
Epoch 549400, Loss 0.22004462778568268, lr 0.0001
Epoch 549500, Loss 0.0038203957956284285, lr 0.0001
Epoch 549600, Loss 0.049691736698150635, lr 0.0001
Epoch 549700, Loss 0.0038190761115401983, lr 0.0001
Epoch 549800, Loss 0.009217792190611362, lr 0.0001
Epoch 549900, Loss 0.0038147892337292433, lr 0.0001
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Epoch 550100, Loss 0.0043847099877893925, lr 0.0001
Epoch 550200, Loss 0.016673170030117035, lr 0.0001
Epoch 550300, Loss 0.003817010438069701, lr 0.0001
Epoch 550400, Loss 0.05307967588305473, lr 0.0001
Epoch 550500, Loss 0.003818206023424864, lr 0.0001
Epoch 550600, Loss 0.0038228891789913177, lr 0.0001
Epoch 550700, Loss 0.011881956830620766, lr 0.0001
Epoch 550800, Loss 0.0056861769407987595, lr 0.0001
Epoch 550900, Loss 0.04363245889544487, lr 0.0001
Epoch 551000, Loss 0.021989237517118454, lr 0.0001
Epoch 551100, Loss 0.09844662249088287, lr 0.0001
Epoch 551200, Loss 0.0038409726694226265, lr 0.0001
Epoch 551300, Loss 0.04399101063609123, lr 0.0001
Epoch 551400, Loss 0.0040217856876552105, lr 0.0001
Epoch 551500, Loss 0.00395324407145381, lr 0.0001
Epoch 551600, Loss 0.01152193732559681, lr 0.0001
Epoch 551700, Loss 0.009146133437752724, lr 0.0001
Epoch 551800, Loss 0.003917383961379528, lr 0.0001
Epoch 551900, Loss 0.011709405109286308, lr 0.0001
Epoch 552000, Loss 0.004545742180198431, lr 0.0001
Epoch 552100, Loss 0.003975651226937771, lr 0.0001
Epoch 552200, Loss 0.02168438956141472, lr 0.0001
Epoch 552300, Loss 0.0038405281957238913, lr 0.0001
Epoch 552400, Loss 0.00426379032433033, lr 0.0001
Epoch 552500, Loss 0.003895058762282133, lr 0.0001
Epoch 552600, Loss 0.005123993381857872, lr 0.0001
Epoch 552700, Loss 0.0038006312679499388, lr 0.0001
Epoch 552800, Loss 0.003799507161602378, lr 0.0001
Epoch 552900, Loss 0.00496733607724309, lr 0.0001
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Epoch 553400, Loss 0.037922315299510956, lr 0.0001
Epoch 553500, Loss 0.003796854056417942, lr 0.0001
Epoch 553600, Loss 0.003796176053583622, lr 0.0001
Epoch 553700, Loss 0.003794834716245532, lr 0.0001
Epoch 553800, Loss 0.38877391815185547, lr 0.0001
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Epoch 554500, Loss 0.011299671605229378, lr 0.0001
Epoch 554600, Loss 0.003794021438807249, lr 0.0001
Epoch 554700, Loss 0.0037932596169412136, lr 0.0001
Epoch 554800, Loss 0.0037934298161417246, lr 0.0001
Epoch 554900, Loss 0.026645177975296974, lr 0.0001
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Epoch 555400, Loss 0.003802486229687929, lr 0.0001
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Epoch 555700, Loss 0.010265307500958443, lr 0.0001
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Epoch 556000, Loss 0.026541445404291153, lr 0.0001
Epoch 556100, Loss 0.004034238867461681, lr 0.0001
Epoch 556200, Loss 0.003782284911721945, lr 0.0001
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Epoch 556500, Loss 0.0037857063580304384, lr 0.0001
Epoch 556600, Loss 0.003784711239859462, lr 0.0001
Epoch 556700, Loss 0.20296527445316315, lr 0.0001
Epoch 556800, Loss 0.003793842624872923, lr 0.0001
Epoch 556900, Loss 0.003786293789744377, lr 0.0001
Epoch 557000, Loss 0.0037848795764148235, lr 0.0001
Epoch 557100, Loss 0.003782083513215184, lr 0.0001
Epoch 557200, Loss 0.0037796935066580772, lr 0.0001
Epoch 557300, Loss 0.0037808348424732685, lr 0.0001
Epoch 557400, Loss 0.039332397282123566, lr 0.0001
Epoch 557500, Loss 0.0037824087776243687, lr 0.0001
Epoch 557600, Loss 0.0038066033739596605, lr 0.0001
Epoch 557700, Loss 0.003926049452275038, lr 0.0001
Epoch 557800, Loss 0.0037823873572051525, lr 0.0001
Epoch 557900, Loss 0.0037808059714734554, lr 0.0001
Epoch 558000, Loss 0.003778958460316062, lr 0.0001
Epoch 558100, Loss 0.0037782948929816484, lr 0.0001
Epoch 558200, Loss 1.397405743598938, lr 0.0001
Epoch 558300, Loss 0.003784702392295003, lr 0.0001
Epoch 558400, Loss 0.0037789458874613047, lr 0.0001
Epoch 558500, Loss 0.0037747242022305727, lr 0.0001
Epoch 558600, Loss 0.0037750904448330402, lr 0.0001
Epoch 558700, Loss 0.00377657450735569, lr 0.0001
Epoch 558800, Loss 0.004179198294878006, lr 0.0001

Epoch 558900, Loss 0.0037765519227832556, lr 0.0001
Epoch 559000, Loss 0.003776832250878215, lr 0.0001
Epoch 559100, Loss 0.003776800585910678, lr 0.0001
Epoch 559200, Loss 0.0037746706511825323, lr 0.0001
Epoch 559300, Loss 0.0053828624077141285, lr 0.0001
Epoch 559400, Loss 0.003776297438889742, lr 0.0001
Epoch 559500, Loss 0.00377746787853539, lr 0.0001
Epoch 559600, Loss 0.0037739495746791363, lr 0.0001
Epoch 559700, Loss 0.0037733858916908503, lr 0.0001
Epoch 559800, Loss 0.0037732766941189766, lr 0.0001
Epoch 559900, Loss 0.004761259071528912, lr 0.0001
Epoch 560000, Loss 0.004041996318846941, lr 0.0001
Epoch 560100, Loss 0.00377531792037189, lr 0.0001
Epoch 560200, Loss 0.003774657379835844, lr 0.0001
Epoch 560300, Loss 0.0037721055559813976, lr 0.0001
Epoch 560400, Loss 0.003771306248381734, lr 0.0001
Epoch 560500, Loss 0.0037847543135285378, lr 0.0001
Epoch 560600, Loss 0.004092170856893063, lr 0.0001
Epoch 560700, Loss 0.0037698110099881887, lr 0.0001
Epoch 560800, Loss 0.0037711726035922766, lr 0.0001
Epoch 560900, Loss 0.003769311122596264, lr 0.0001
Epoch 561000, Loss 0.0037689353339374065, lr 0.0001
Epoch 561100, Loss 0.24387359619140625, lr 0.0001
Epoch 561200, Loss 0.0037797298282384872, lr 0.0001
Epoch 561300, Loss 0.003767416113987565, lr 0.0001
Epoch 561400, Loss 0.003778372658416629, lr 0.0001
Epoch 561500, Loss 0.004258173517882824, lr 0.0001
Epoch 561600, Loss 0.0037689893506467342, lr 0.0001
Epoch 561700, Loss 0.003766477108001709, lr 0.0001
Epoch 561800, Loss 0.0037657853681594133, lr 0.0001
Epoch 561900, Loss 0.003767654998227954, lr 0.0001
Epoch 562000, Loss 0.004169282037764788, lr 0.0001
Epoch 562100, Loss 0.008631602860987186, lr 0.0001
Epoch 562200, Loss 0.003788924776017666, lr 0.0001
Epoch 562300, Loss 0.0038706620689481497, lr 0.0001
Epoch 562400, Loss 0.003762243315577507, lr 0.0001
Epoch 562500, Loss 0.01010061614215374, lr 0.0001
Epoch 562600, Loss 0.005141777452081442, lr 0.0001
Epoch 562700, Loss 0.011469980701804161, lr 0.0001
Epoch 562800, Loss 0.003813438815996051, lr 0.0001
Epoch 562900, Loss 0.013469701632857323, lr 0.0001
Epoch 563000, Loss 0.0037647290155291557, lr 0.0001
Epoch 563100, Loss 0.004276348743587732, lr 0.0001
Epoch 563200, Loss 0.09938991069793701, lr 0.0001
Epoch 563300, Loss 0.00816440675407648, lr 0.0001
Epoch 563400, Loss 0.003787877270951867, lr 0.0001
Epoch 563500, Loss 0.005446618422865868, lr 0.0001
Epoch 563600, Loss 0.0037618931382894516, lr 0.0001

Epoch 563700, Loss 0.005275470204651356, lr 0.0001
Epoch 563800, Loss 0.003756424877792597, lr 0.0001
Epoch 563900, Loss 0.5120331048965454, lr 0.0001
Epoch 564000, Loss 0.0037823135498911142, lr 0.0001
Epoch 564100, Loss 0.003756494726985693, lr 0.0001
Epoch 564200, Loss 0.0037559662014245987, lr 0.0001
Epoch 564300, Loss 0.0037522914353758097, lr 0.0001
Epoch 564400, Loss 0.3031958341598511, lr 0.0001
Epoch 564500, Loss 0.0037635050248354673, lr 0.0001
Epoch 564600, Loss 0.003752107033506036, lr 0.0001
Epoch 564700, Loss 0.0037523217033594847, lr 0.0001
Epoch 564800, Loss 0.04844403266906738, lr 0.0001
Epoch 564900, Loss 0.003753415308892727, lr 0.0001
Epoch 565000, Loss 0.0037572626024484634, lr 0.0001
Epoch 565100, Loss 0.004401720128953457, lr 0.0001
Epoch 565200, Loss 0.0037549969274550676, lr 0.0001
Epoch 565300, Loss 0.003863556543365121, lr 0.0001
Epoch 565400, Loss 0.0040419152937829494, lr 0.0001
Epoch 565500, Loss 0.004144276026636362, lr 0.0001
Epoch 565600, Loss 0.003956311382353306, lr 0.0001
Epoch 565700, Loss 0.004024958238005638, lr 0.0001
Epoch 565800, Loss 0.0038726013153791428, lr 0.0001
Epoch 565900, Loss 0.004079875070601702, lr 0.0001
Epoch 566000, Loss 0.003926899749785662, lr 0.0001
Epoch 566100, Loss 0.003744638292118907, lr 0.0001
Epoch 566200, Loss 0.0037448632065206766, lr 0.0001
Epoch 566300, Loss 0.003835962386801839, lr 0.0001
Epoch 566400, Loss 0.0037468886002898216, lr 0.0001
Epoch 566500, Loss 0.0037476818542927504, lr 0.0001
Epoch 566600, Loss 0.003745249006897211, lr 0.0001
Epoch 566700, Loss 0.0037434750702232122, lr 0.0001
Epoch 566800, Loss 0.10762244462966919, lr 0.0001
Epoch 566900, Loss 0.0037625094410032034, lr 0.0001
Epoch 567000, Loss 0.0037431938108056784, lr 0.0001
Epoch 567100, Loss 0.0037430361844599247, lr 0.0001
Epoch 567200, Loss 0.003742305561900139, lr 0.0001
Epoch 567300, Loss 0.3786962926387787, lr 0.0001
Epoch 567400, Loss 0.003774049924686551, lr 0.0001
Epoch 567500, Loss 0.003740615677088499, lr 0.0001
Epoch 567600, Loss 0.003740931861102581, lr 0.0001
Epoch 567700, Loss 0.003741716966032982, lr 0.0001
Epoch 567800, Loss 0.004256579093635082, lr 0.0001
Epoch 567900, Loss 0.0037404741160571575, lr 0.0001
Epoch 568000, Loss 0.0037396331317722797, lr 0.0001
Epoch 568100, Loss 0.0037406578194350004, lr 0.0001
Epoch 568200, Loss 0.0037369471974670887, lr 0.0001
Epoch 568300, Loss 0.008205684833228588, lr 0.0001
Epoch 568400, Loss 0.08465130627155304, lr 0.0001

Epoch 568500, Loss 0.019206972792744637, lr 0.0001
Epoch 568600, Loss 0.04172813147306442, lr 0.0001
Epoch 568700, Loss 0.012092141434550285, lr 0.0001
Epoch 568800, Loss 0.08345241099596024, lr 0.0001
Epoch 568900, Loss 0.004861895926296711, lr 0.0001
Epoch 569000, Loss 0.004285596311092377, lr 0.0001
Epoch 569100, Loss 0.15917575359344482, lr 0.0001
Epoch 569200, Loss 0.0037453884724527597, lr 0.0001
Epoch 569300, Loss 0.0194247979670763, lr 0.0001
Epoch 569400, Loss 0.003734653117135167, lr 0.0001
Epoch 569500, Loss 0.0037321026902645826, lr 0.0001
Epoch 569600, Loss 0.16981938481330872, lr 0.0001
Epoch 569700, Loss 0.003737173741683364, lr 0.0001
Epoch 569800, Loss 0.003730071010068059, lr 0.0001
Epoch 569900, Loss 0.0037319744005799294, lr 0.0001
Epoch 570000, Loss 0.004337703343480825, lr 0.0001
Epoch 570100, Loss 0.005351607222110033, lr 0.0001
Epoch 570200, Loss 0.024088142439723015, lr 0.0001
Epoch 570300, Loss 0.003727513598278165, lr 0.0001
Epoch 570400, Loss 0.005233681760728359, lr 0.0001
Epoch 570500, Loss 0.003729456104338169, lr 0.0001
Epoch 570600, Loss 0.005236677825450897, lr 0.0001
Epoch 570700, Loss 0.003728837240487337, lr 0.0001
Epoch 570800, Loss 0.009337478317320347, lr 0.0001
Epoch 570900, Loss 0.008612582460045815, lr 0.0001
Epoch 571000, Loss 0.11601101607084274, lr 0.0001
Epoch 571100, Loss 0.006769138853996992, lr 0.0001
Epoch 571200, Loss 0.003746278118342161, lr 0.0001
Epoch 571300, Loss 0.0039003239944577217, lr 0.0001
Epoch 571400, Loss 0.20482094585895538, lr 0.0001
Epoch 571500, Loss 0.003729047952219844, lr 0.0001
Epoch 571600, Loss 0.20948542654514313, lr 0.0001
Epoch 571700, Loss 0.003729189746081829, lr 0.0001
Epoch 571800, Loss 0.0037215370684862137, lr 0.0001
Epoch 571900, Loss 0.02954883687198162, lr 0.0001
Epoch 572000, Loss 0.0037210320588201284, lr 0.0001
Epoch 572100, Loss 0.003720293752849102, lr 0.0001
Epoch 572200, Loss 0.0037198318168520927, lr 0.0001
Epoch 572300, Loss 0.0037206837441772223, lr 0.0001
Epoch 572400, Loss 0.018448131158947945, lr 0.0001
Epoch 572500, Loss 0.003720741719007492, lr 0.0001
Epoch 572600, Loss 0.0037209915462881327, lr 0.0001
Epoch 572700, Loss 0.0037191782612353563, lr 0.0001
Epoch 572800, Loss 0.0037169402930885553, lr 0.0001
Epoch 572900, Loss 0.03543778136372566, lr 0.0001
Epoch 573000, Loss 0.003721593413501978, lr 0.0001
Epoch 573100, Loss 0.003717017127200961, lr 0.0001
Epoch 573200, Loss 0.003718402935191989, lr 0.0001

Epoch 573300, Loss 0.0037185947876423597, lr 0.0001
Epoch 573400, Loss 0.003716422710567713, lr 0.0001
Epoch 573500, Loss 0.005440103355795145, lr 0.0001
Epoch 573600, Loss 0.003714978229254484, lr 0.0001
Epoch 573700, Loss 0.0037162965163588524, lr 0.0001
Epoch 573800, Loss 0.0054412344470620155, lr 0.0001
Epoch 573900, Loss 0.003954792860895395, lr 0.0001
Epoch 574000, Loss 0.0037175342440605164, lr 0.0001
Epoch 574100, Loss 0.0037129507400095463, lr 0.0001
Epoch 574200, Loss 0.003714669030159712, lr 0.0001
Epoch 574300, Loss 0.0037139784544706345, lr 0.0001
Epoch 574400, Loss 0.0037142736837267876, lr 0.0001
Epoch 574500, Loss 0.003791607217863202, lr 0.0001
Epoch 574600, Loss 0.0037120513152331114, lr 0.0001
Epoch 574700, Loss 0.0037110226694494486, lr 0.0001
Epoch 574800, Loss 0.026923831552267075, lr 0.0001
Epoch 574900, Loss 0.00371587579138577, lr 0.0001
Epoch 575000, Loss 0.0037114836741238832, lr 0.0001
Epoch 575100, Loss 0.0037138110492378473, lr 0.0001
Epoch 575200, Loss 0.00371244503185153, lr 0.0001
Epoch 575300, Loss 0.0037121630739420652, lr 0.0001
Epoch 575400, Loss 0.0056834351271390915, lr 0.0001
Epoch 575500, Loss 0.20898783206939697, lr 0.0001
Epoch 575600, Loss 0.15263468027114868, lr 0.0001
Epoch 575700, Loss 0.00421361718326807, lr 0.0001
Epoch 575800, Loss 0.14460818469524384, lr 0.0001
Epoch 575900, Loss 0.009609606117010117, lr 0.0001
Epoch 576000, Loss 0.0037372373044490814, lr 0.0001
Epoch 576100, Loss 0.020392706617712975, lr 0.0001
Epoch 576200, Loss 0.00408460246399045, lr 0.0001
Epoch 576300, Loss 0.007490053307265043, lr 0.0001
Epoch 576400, Loss 0.006526156794279814, lr 0.0001
Epoch 576500, Loss 0.3594371974468231, lr 0.0001
Epoch 576600, Loss 0.006009689532220364, lr 0.0001
Epoch 576700, Loss 0.035700343549251556, lr 0.0001
Epoch 576800, Loss 0.003706069430336356, lr 0.0001
Epoch 576900, Loss 0.0037006097845733166, lr 0.0001
Epoch 577000, Loss 0.0052372245118021965, lr 0.0001
Epoch 577100, Loss 0.003703145543113351, lr 0.0001
Epoch 577200, Loss 0.0037066477816551924, lr 0.0001
Epoch 577300, Loss 0.003702461253851652, lr 0.0001
Epoch 577400, Loss 0.003702572314068675, lr 0.0001
Epoch 577500, Loss 0.01070608850568533, lr 0.0001
Epoch 577600, Loss 0.003701347392052412, lr 0.0001
Epoch 577700, Loss 0.003701530396938324, lr 0.0001
Epoch 577800, Loss 0.0037004733458161354, lr 0.0001
Epoch 577900, Loss 0.0036994812544435263, lr 0.0001
Epoch 578000, Loss 0.0036995699629187584, lr 0.0001

Epoch 578100, Loss 0.005752201657742262, lr 0.0001
Epoch 578200, Loss 0.0036997452843934298, lr 0.0001
Epoch 578300, Loss 0.0036974709946662188, lr 0.0001
Epoch 578400, Loss 0.0036965457256883383, lr 0.0001
Epoch 578500, Loss 0.00470390310510993, lr 0.0001
Epoch 578600, Loss 0.003695693565532565, lr 0.0001
Epoch 578700, Loss 0.003697784384712577, lr 0.0001
Epoch 578800, Loss 0.00392549205571413, lr 0.0001
Epoch 578900, Loss 0.003698160173371434, lr 0.0001
Epoch 579000, Loss 0.003698689630255103, lr 0.0001
Epoch 579100, Loss 0.0036961061414331198, lr 0.0001
Epoch 579200, Loss 0.0036943969316780567, lr 0.0001
Epoch 579300, Loss 0.10451291501522064, lr 0.0001
Epoch 579400, Loss 0.003695692401379347, lr 0.0001
Epoch 579500, Loss 0.0036947503685951233, lr 0.0001
Epoch 579600, Loss 0.012780855409801006, lr 0.0001
Epoch 579700, Loss 0.003696707310155034, lr 0.0001
Epoch 579800, Loss 0.0036933375522494316, lr 0.0001
Epoch 579900, Loss 0.003691621357575059, lr 0.0001
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Epoch 580200, Loss 0.03486195206642151, lr 0.0001
Epoch 580300, Loss 0.0036942793522030115, lr 0.0001
Epoch 580400, Loss 0.003691975027322769, lr 0.0001
Epoch 580500, Loss 0.0036913356743752956, lr 0.0001
Epoch 580600, Loss 0.003690778510645032, lr 0.0001
Epoch 580700, Loss 0.0036913114599883556, lr 0.0001
Epoch 580800, Loss 0.0036884730216115713, lr 0.0001
Epoch 580900, Loss 0.3860633075237274, lr 0.0001
Epoch 581000, Loss 0.003711860626935959, lr 0.0001
Epoch 581100, Loss 0.0036899112164974213, lr 0.0001
Epoch 581200, Loss 0.003690620418637991, lr 0.0001
Epoch 581300, Loss 0.0036900644190609455, lr 0.0001
Epoch 581400, Loss 0.003691471181809902, lr 0.0001
Epoch 581500, Loss 0.0036900194827467203, lr 0.0001
Epoch 581600, Loss 0.004827477969229221, lr 0.0001
Epoch 581700, Loss 0.0036866511218249798, lr 0.0001
Epoch 581800, Loss 1.5417269468307495, lr 0.0001
Epoch 581900, Loss 0.003712519770488143, lr 0.0001
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Epoch 582100, Loss 0.0036873097997158766, lr 0.0001
Epoch 582200, Loss 0.0036856154911220074, lr 0.0001
Epoch 582300, Loss 0.00368504854850471, lr 0.0001
Epoch 582400, Loss 0.0036846711300313473, lr 0.0001
Epoch 582500, Loss 0.04423697665333748, lr 0.0001
Epoch 582600, Loss 0.003684054361656308, lr 0.0001
Epoch 582700, Loss 0.003685639938339591, lr 0.0001
Epoch 582800, Loss 0.03883378207683563, lr 0.0001

Epoch 582900, Loss 0.0036879191175103188, lr 0.0001
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Epoch 583300, Loss 0.0036856806837022305, lr 0.0001
Epoch 583400, Loss 0.0036852823104709387, lr 0.0001
Epoch 583500, Loss 0.0036819519009441137, lr 0.0001
Epoch 583600, Loss 0.003682860406115651, lr 0.0001
Epoch 583700, Loss 0.0037309008184820414, lr 0.0001
Epoch 583800, Loss 0.004432392306625843, lr 0.0001
Epoch 583900, Loss 0.003684873692691326, lr 0.0001
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Epoch 584100, Loss 0.0037081006448715925, lr 0.0001
Epoch 584200, Loss 0.003992889076471329, lr 0.0001
Epoch 584300, Loss 0.5773340463638306, lr 0.0001
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Epoch 584500, Loss 0.0036743341479450464, lr 0.0001
Epoch 584600, Loss 0.03538781777024269, lr 0.0001
Epoch 584700, Loss 0.003677181899547577, lr 0.0001
Epoch 584800, Loss 0.003675811691209674, lr 0.0001
Epoch 584900, Loss 0.003675352316349745, lr 0.0001
Epoch 585000, Loss 0.003676031716167927, lr 0.0001
Epoch 585100, Loss 0.00367806782014668, lr 0.0001
Epoch 585200, Loss 0.0037242164835333824, lr 0.0001
Epoch 585300, Loss 0.0039046737365424633, lr 0.0001
Epoch 585400, Loss 0.0048231640830636024, lr 0.0001
Epoch 585500, Loss 0.10117363184690475, lr 0.0001
Epoch 585600, Loss 0.009068301878869534, lr 0.0001
Epoch 585700, Loss 0.00415489636361599, lr 0.0001
Epoch 585800, Loss 0.00394356157630682, lr 0.0001
Epoch 585900, Loss 0.022913405671715736, lr 0.0001
Epoch 586000, Loss 0.0036713804583996534, lr 0.0001
Epoch 586100, Loss 0.004320249427109957, lr 0.0001
Epoch 586200, Loss 0.0036664227955043316, lr 0.0001
Epoch 586300, Loss 0.004785384517163038, lr 0.0001
Epoch 586400, Loss 0.003667854703962803, lr 0.0001
Epoch 586500, Loss 1.8243615627288818, lr 0.0001
Epoch 586600, Loss 0.003701532259583473, lr 0.0001
Epoch 586700, Loss 0.0036681187339127064, lr 0.0001
Epoch 586800, Loss 0.0036673673894256353, lr 0.0001
Epoch 586900, Loss 0.003662991104647517, lr 0.0001
Epoch 587000, Loss 0.04029541462659836, lr 0.0001
Epoch 587100, Loss 0.008070362731814384, lr 0.0001
Epoch 587200, Loss 0.0036814219783991575, lr 0.0001
Epoch 587300, Loss 0.005411310121417046, lr 0.0001
Epoch 587400, Loss 0.005761405453085899, lr 0.0001
Epoch 587500, Loss 0.006240791641175747, lr 0.0001
Epoch 587600, Loss 0.004040317144244909, lr 0.0001

Epoch 587700, Loss 0.028992408886551857, lr 0.0001
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Epoch 587900, Loss 0.004910179879516363, lr 0.0001
Epoch 588000, Loss 0.003773629665374756, lr 0.0001
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Epoch 588200, Loss 0.05021730437874794, lr 0.0001
Epoch 588300, Loss 0.4024028778076172, lr 0.0001
Epoch 588400, Loss 0.054751552641391754, lr 0.0001
Epoch 588500, Loss 0.009195893071591854, lr 0.0001
Epoch 588600, Loss 0.0053916326723992825, lr 0.0001
Epoch 588700, Loss 0.003711989149451256, lr 0.0001
Epoch 588800, Loss 0.009777947328984737, lr 0.0001
Epoch 588900, Loss 0.003700333647429943, lr 0.0001
Epoch 589000, Loss 0.010935681872069836, lr 0.0001
Epoch 589100, Loss 0.12891705334186554, lr 0.0001
Epoch 589200, Loss 0.29533809423446655, lr 0.0001
Epoch 589300, Loss 0.003941558301448822, lr 0.0001
Epoch 589400, Loss 0.0039504533633589745, lr 0.0001
Epoch 589500, Loss 0.008839759044349194, lr 0.0001
Epoch 589600, Loss 0.012327458709478378, lr 0.0001
Epoch 589700, Loss 0.09724335372447968, lr 0.0001
Epoch 589800, Loss 0.011832637712359428, lr 0.0001
Epoch 589900, Loss 0.014136753045022488, lr 0.0001
Epoch 590000, Loss 0.022268610075116158, lr 0.0001
Epoch 590100, Loss 0.14870049059391022, lr 0.0001
Epoch 590200, Loss 0.01121831126511097, lr 0.0001
Epoch 590300, Loss 0.0055910139344632626, lr 0.0001
Epoch 590400, Loss 0.06376386433839798, lr 0.0001
Epoch 590500, Loss 0.003731127129867673, lr 0.0001
Epoch 590600, Loss 0.0036528175696730614, lr 0.0001
Epoch 590700, Loss 0.004326613619923592, lr 0.0001
Epoch 590800, Loss 0.003648130688816309, lr 0.0001
Epoch 590900, Loss 0.030865056440234184, lr 0.0001
Epoch 591000, Loss 0.0036972034722566605, lr 0.0001
Epoch 591100, Loss 0.0036472156643867493, lr 0.0001
Epoch 591200, Loss 0.0036446298472583294, lr 0.0001
Epoch 591300, Loss 0.3091868758201599, lr 0.0001
Epoch 591400, Loss 0.0036630600225180387, lr 0.0001
Epoch 591500, Loss 0.0036491742357611656, lr 0.0001
Epoch 591600, Loss 0.0036436240188777447, lr 0.0001
Epoch 591700, Loss 0.0036448221653699875, lr 0.0001
Epoch 591800, Loss 0.0036588876973837614, lr 0.0001
Epoch 591900, Loss 0.003816727316007018, lr 0.0001
Epoch 592000, Loss 0.0037685977295041084, lr 0.0001
Epoch 592100, Loss 0.003774045966565609, lr 0.0001
Epoch 592200, Loss 0.038409437984228134, lr 0.0001
Epoch 592300, Loss 0.003809842513874173, lr 0.0001
Epoch 592400, Loss 0.0037617154885083437, lr 0.0001

Epoch 592500, Loss 0.011862510815262794, lr 0.0001
Epoch 592600, Loss 0.022234585136175156, lr 0.0001
Epoch 592700, Loss 0.0038384469226002693, lr 0.0001
Epoch 592800, Loss 0.02380957454442978, lr 0.0001
Epoch 592900, Loss 0.0474381223320961, lr 0.0001
Epoch 593000, Loss 0.023409582674503326, lr 0.0001
Epoch 593100, Loss 0.0036586811766028404, lr 0.0001
Epoch 593200, Loss 0.032817285507917404, lr 0.0001
Epoch 593300, Loss 0.006929886061698198, lr 0.0001
Epoch 593400, Loss 0.004027175717055798, lr 0.0001
Epoch 593500, Loss 0.00726243294775486, lr 0.0001
Epoch 593600, Loss 0.0038018820341676474, lr 0.0001
Epoch 593700, Loss 0.003652427578344941, lr 0.0001
Epoch 593800, Loss 0.02668619342148304, lr 0.0001
Epoch 593900, Loss 0.0036616153083741665, lr 0.0001
Epoch 594000, Loss 0.0038384089712053537, lr 0.0001
Epoch 594100, Loss 0.006570518482476473, lr 0.0001
Epoch 594200, Loss 0.0036325324326753616, lr 0.0001
Epoch 594300, Loss 0.021836742758750916, lr 0.0001
Epoch 594400, Loss 0.0036324176471680403, lr 0.0001
Epoch 594500, Loss 0.0036321019288152456, lr 0.0001
Epoch 594600, Loss 0.23871907591819763, lr 0.0001
Epoch 594700, Loss 0.0036406037397682667, lr 0.0001
Epoch 594800, Loss 0.0036331163719296455, lr 0.0001
Epoch 594900, Loss 0.003630337305366993, lr 0.0001
Epoch 595000, Loss 0.003631251398473978, lr 0.0001
Epoch 595100, Loss 0.003631096798926592, lr 0.0001
Epoch 595200, Loss 1.2138844728469849, lr 0.0001
Epoch 595300, Loss 0.0036565433256328106, lr 0.0001
Epoch 595400, Loss 0.0036296681500971317, lr 0.0001
Epoch 595500, Loss 0.04583296179771423, lr 0.0001
Epoch 595600, Loss 0.003645960707217455, lr 0.0001
Epoch 595700, Loss 0.0036291354335844517, lr 0.0001
Epoch 595800, Loss 0.020388163626194, lr 0.0001
Epoch 595900, Loss 0.0870700255036354, lr 0.0001
Epoch 596000, Loss 0.0036634972784668207, lr 0.0001
Epoch 596100, Loss 0.007081564981490374, lr 0.0001
Epoch 596200, Loss 0.0036264241207391024, lr 0.0001
Epoch 596300, Loss 0.032386600971221924, lr 0.0001
Epoch 596400, Loss 0.0036254890728741884, lr 0.0001
Epoch 596500, Loss 0.0036252900026738644, lr 0.0001
Epoch 596600, Loss 0.018038062378764153, lr 0.0001
Epoch 596700, Loss 0.0036262283101677895, lr 0.0001
Epoch 596800, Loss 0.003625226207077503, lr 0.0001
Epoch 596900, Loss 0.003624954493716359, lr 0.0001
Epoch 597000, Loss 0.003622673451900482, lr 0.0001
Epoch 597100, Loss 0.005651236046105623, lr 0.0001
Epoch 597200, Loss 0.003622189164161682, lr 0.0001

Epoch 597300, Loss 0.007480641361325979, lr 0.0001
Epoch 597400, Loss 0.0036219682078808546, lr 0.0001
Epoch 597500, Loss 0.00542183592915535, lr 0.0001
Epoch 597600, Loss 0.003681796370074153, lr 0.0001
Epoch 597700, Loss 0.0036200270988047123, lr 0.0001
Epoch 597800, Loss 0.003620114643126726, lr 0.0001
Epoch 597900, Loss 0.0043487404473125935, lr 0.0001
Epoch 598000, Loss 0.10963303595781326, lr 0.0001
Epoch 598100, Loss 0.0036531726364046335, lr 0.0001
Epoch 598200, Loss 0.04247653856873512, lr 0.0001
Epoch 598300, Loss 0.0036274464800953865, lr 0.0001
Epoch 598400, Loss 0.00397547148168087, lr 0.0001
Epoch 598500, Loss 0.0038647931069135666, lr 0.0001
Epoch 598600, Loss 0.021933605894446373, lr 0.0001
Epoch 598700, Loss 0.006888920441269875, lr 0.0001
Epoch 598800, Loss 0.0049706511199474335, lr 0.0001
Epoch 598900, Loss 0.010611355304718018, lr 0.0001
Epoch 599000, Loss 0.023629656061530113, lr 0.0001
Epoch 599100, Loss 0.003673100145533681, lr 0.0001
Epoch 599200, Loss 0.014530118554830551, lr 0.0001
Epoch 599300, Loss 0.0036244122311472893, lr 0.0001
Epoch 599400, Loss 0.005808882415294647, lr 0.0001
Epoch 599500, Loss 0.006566168274730444, lr 0.0001
Epoch 599600, Loss 0.08750242739915848, lr 0.0001
Epoch 599700, Loss 0.0036710237618535757, lr 0.0001
Epoch 599800, Loss 0.0038316312711685896, lr 0.0001
Epoch 599900, Loss 0.009135725907981396, lr 0.0001
Epoch 600000, Loss 0.003695449559018016, lr 0.0001
Epoch 600100, Loss 0.003608901286497712, lr 0.0001
Epoch 600200, Loss 0.0036078051198273897, lr 0.0001
Epoch 600300, Loss 0.034351006150245667, lr 0.0001
Epoch 600400, Loss 0.003616817994043231, lr 0.0001
Epoch 600500, Loss 0.003611899446696043, lr 0.0001
Epoch 600600, Loss 0.003609701059758663, lr 0.0001
Epoch 600700, Loss 0.0036072195507586002, lr 0.0001
Epoch 600800, Loss 0.003607318503782153, lr 0.0001
Epoch 600900, Loss 0.003606690326705575, lr 0.0001
Epoch 601000, Loss 0.005931607913225889, lr 0.0001
Epoch 601100, Loss 0.003610088722780347, lr 0.0001
Epoch 601200, Loss 0.003609994426369667, lr 0.0001
Epoch 601300, Loss 0.003608727129176259, lr 0.0001
Epoch 601400, Loss 0.0036078111734241247, lr 0.0001
Epoch 601500, Loss 0.0036058921832591295, lr 0.0001
Epoch 601600, Loss 0.0036075550597161055, lr 0.0001
Epoch 601700, Loss 0.012484059669077396, lr 0.0001
Epoch 601800, Loss 0.003605846781283617, lr 0.0001
Epoch 601900, Loss 0.0036036879755556583, lr 0.0001
Epoch 602000, Loss 0.3777850270271301, lr 0.0001

Epoch 602100, Loss 0.003618356306105852, lr 0.0001
Epoch 602200, Loss 0.0036050048656761646, lr 0.0001
Epoch 602300, Loss 0.0036024735309183598, lr 0.0001
Epoch 602400, Loss 0.0036050963681191206, lr 0.0001
Epoch 602500, Loss 0.003602472599595785, lr 0.0001
Epoch 602600, Loss 0.003605606034398079, lr 0.0001
Epoch 602700, Loss 0.047150976955890656, lr 0.0001
Epoch 602800, Loss 0.0036038036923855543, lr 0.0001
Epoch 602900, Loss 0.003598675364628434, lr 0.0001
Epoch 603000, Loss 0.003603078192099929, lr 0.0001
Epoch 603100, Loss 0.004051663912832737, lr 0.0001
Epoch 603200, Loss 0.00360268191434443, lr 0.0001
Epoch 603300, Loss 0.0036011398769915104, lr 0.0001
Epoch 603400, Loss 0.0035992979537695646, lr 0.0001
Epoch 603500, Loss 0.0036193979904055595, lr 0.0001
Epoch 603600, Loss 0.0036329934373497963, lr 0.0001
Epoch 603700, Loss 0.003642212599515915, lr 0.0001
Epoch 603800, Loss 0.007292728405445814, lr 0.0001
Epoch 603900, Loss 0.005097089800983667, lr 0.0001
Epoch 604000, Loss 0.005109946243464947, lr 0.0001
Epoch 604100, Loss 0.003654411295428872, lr 0.0001
Epoch 604200, Loss 0.17733992636203766, lr 0.0001
Epoch 604300, Loss 0.0036070074420422316, lr 0.0001
Epoch 604400, Loss 0.004564913921058178, lr 0.0001
Epoch 604500, Loss 0.003716730512678623, lr 0.0001
Epoch 604600, Loss 0.003598227398470044, lr 0.0001
Epoch 604700, Loss 0.003594999900087714, lr 0.0001
Epoch 604800, Loss 0.003591992659494281, lr 0.0001
Epoch 604900, Loss 0.36377760767936707, lr 0.0001
Epoch 605000, Loss 0.003625354962423444, lr 0.0001
Epoch 605100, Loss 0.003594504203647375, lr 0.0001
Epoch 605200, Loss 0.003591550514101982, lr 0.0001
Epoch 605300, Loss 0.003593223635107279, lr 0.0001
Epoch 605400, Loss 0.0035918259527534246, lr 0.0001
Epoch 605500, Loss 0.006395661737769842, lr 0.0001
Epoch 605600, Loss 0.0035936685744673014, lr 0.0001
Epoch 605700, Loss 0.0035927616991102695, lr 0.0001
Epoch 605800, Loss 0.0064568668603897095, lr 0.0001
Epoch 605900, Loss 0.0035929435398429632, lr 0.0001
Epoch 606000, Loss 0.0035907411947846413, lr 0.0001
Epoch 606100, Loss 0.0035901826340705156, lr 0.0001
Epoch 606200, Loss 0.003589687868952751, lr 0.0001
Epoch 606300, Loss 0.036871518939733505, lr 0.0001
Epoch 606400, Loss 0.003633026033639908, lr 0.0001
Epoch 606500, Loss 0.0036859188694506884, lr 0.0001
Epoch 606600, Loss 0.0035868892446160316, lr 0.0001
Epoch 606700, Loss 0.010980997234582901, lr 0.0001
Epoch 606800, Loss 0.004026168957352638, lr 0.0001

Epoch 606900, Loss 0.0036255705635994673, lr 0.0001
Epoch 607000, Loss 0.0036738014314323664, lr 0.0001
Epoch 607100, Loss 0.0035861104261130095, lr 0.0001
Epoch 607200, Loss 0.008659590035676956, lr 0.0001
Epoch 607300, Loss 0.0036276080645620823, lr 0.0001
Epoch 607400, Loss 0.0035988653544336557, lr 0.0001
Epoch 607500, Loss 0.003702423768118024, lr 0.0001
Epoch 607600, Loss 0.00358428992331028, lr 0.0001
Epoch 607700, Loss 0.3357454538345337, lr 0.0001
Epoch 607800, Loss 0.0036243265494704247, lr 0.0001
Epoch 607900, Loss 0.003583998419344425, lr 0.0001
Epoch 608000, Loss 0.0035807264503091574, lr 0.0001
Epoch 608100, Loss 0.0035817509051412344, lr 0.0001
Epoch 608200, Loss 0.004099271725863218, lr 0.0001
Epoch 608300, Loss 0.003583507379516959, lr 0.0001
Epoch 608400, Loss 0.0035822675563395023, lr 0.0001
Epoch 608500, Loss 0.003583514364436269, lr 0.0001
Epoch 608600, Loss 0.0035810561385005713, lr 0.0001
Epoch 608700, Loss 0.0035814556758850813, lr 0.0001
Epoch 608800, Loss 0.039670974016189575, lr 0.0001
Epoch 608900, Loss 0.03115975856781006, lr 0.0001
Epoch 609000, Loss 0.003643019124865532, lr 0.0001
Epoch 609100, Loss 0.0035846077371388674, lr 0.0001
Epoch 609200, Loss 0.0035944220144301653, lr 0.0001
Epoch 609300, Loss 0.003579828655347228, lr 0.0001
Epoch 609400, Loss 0.0035787627566605806, lr 0.0001
Epoch 609500, Loss 0.0037946111988276243, lr 0.0001
Epoch 609600, Loss 0.19817057251930237, lr 0.0001
Epoch 609700, Loss 0.0035778998862951994, lr 0.0001
Epoch 609800, Loss 0.028306107968091965, lr 0.0001
Epoch 609900, Loss 0.5156549215316772, lr 0.0001
Epoch 610000, Loss 0.003598818788304925, lr 0.0001
Epoch 610100, Loss 0.008492840453982353, lr 0.0001
Epoch 610200, Loss 0.1729249805212021, lr 0.0001
Epoch 610300, Loss 0.0037445668131113052, lr 0.0001
Epoch 610400, Loss 0.1339048147201538, lr 0.0001
Epoch 610500, Loss 0.03175501897931099, lr 0.0001
Epoch 610600, Loss 0.0037951318081468344, lr 0.0001
Epoch 610700, Loss 0.00381436222328782, lr 0.0001
Epoch 610800, Loss 0.02224428951740265, lr 0.0001
Epoch 610900, Loss 0.02975846827030182, lr 0.0001
Epoch 611000, Loss 0.00416430551558733, lr 0.0001
Epoch 611100, Loss 0.02566826529800892, lr 0.0001
Epoch 611200, Loss 0.031055022031068802, lr 0.0001
Epoch 611300, Loss 0.003602905198931694, lr 0.0001
Epoch 611400, Loss 0.0038319407030940056, lr 0.0001
Epoch 611500, Loss 0.24887920916080475, lr 0.0001
Epoch 611600, Loss 0.00357988802716136, lr 0.0001

Epoch 611700, Loss 0.009662331081926823, lr 0.0001
Epoch 611800, Loss 0.003565881634131074, lr 0.0001
Epoch 611900, Loss 0.044758040457963943, lr 0.0001
Epoch 612000, Loss 0.0035696877166628838, lr 0.0001
Epoch 612100, Loss 0.003563755890354514, lr 0.0001
Epoch 612200, Loss 0.0042000520043075085, lr 0.0001
Epoch 612300, Loss 0.003563881851732731, lr 0.0001
Epoch 612400, Loss 0.0035637912806123495, lr 0.0001
Epoch 612500, Loss 0.33540305495262146, lr 0.0001
Epoch 612600, Loss 0.003625112120062113, lr 0.0001
Epoch 612700, Loss 0.0035661207512021065, lr 0.0001
Epoch 612800, Loss 0.0035657440312206745, lr 0.0001
Epoch 612900, Loss 0.0035622064024209976, lr 0.0001
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Epoch 613300, Loss 0.0035643004812300205, lr 0.0001
Epoch 613400, Loss 0.0035643605515360832, lr 0.0001
Epoch 613500, Loss 0.0035626825410872698, lr 0.0001
Epoch 613600, Loss 0.0035630199126899242, lr 0.0001
Epoch 613700, Loss 0.003559964941814542, lr 0.0001
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Epoch 613900, Loss 0.0038243012968450785, lr 0.0001
Epoch 614000, Loss 0.003561515361070633, lr 0.0001
Epoch 614100, Loss 0.0035605919547379017, lr 0.0001
Epoch 614200, Loss 0.003559401724487543, lr 0.0001
Epoch 614300, Loss 0.004434994887560606, lr 0.0001
Epoch 614400, Loss 0.00356068043038249, lr 0.0001
Epoch 614500, Loss 0.0035608590114861727, lr 0.0001
Epoch 614600, Loss 0.0035607244353741407, lr 0.0001
Epoch 614700, Loss 0.0035555828362703323, lr 0.0001
Epoch 614800, Loss 0.003680743044242263, lr 0.0001
Epoch 614900, Loss 0.003557874821126461, lr 0.0001
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Epoch 615100, Loss 0.003982816822826862, lr 0.0001
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Epoch 615400, Loss 0.0035682099405676126, lr 0.0001
Epoch 615500, Loss 0.003822627244517207, lr 0.0001
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Epoch 615700, Loss 0.0035546727012842894, lr 0.0001
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Epoch 615900, Loss 0.003584566293284297, lr 0.0001
Epoch 616000, Loss 0.0035541474353522062, lr 0.0001
Epoch 616100, Loss 0.003551844274625182, lr 0.0001
Epoch 616200, Loss 0.0035507655702531338, lr 0.0001
Epoch 616300, Loss 0.0037261759862303734, lr 0.0001
Epoch 616400, Loss 0.023534415289759636, lr 0.0001

Epoch 616500, Loss 0.0035531159956008196, lr 0.0001
Epoch 616600, Loss 0.0035515197087079287, lr 0.0001
Epoch 616700, Loss 0.0038893353193998337, lr 0.0001
Epoch 616800, Loss 0.0035517120268195868, lr 0.0001
Epoch 616900, Loss 0.0035498221404850483, lr 0.0001
Epoch 617000, Loss 0.003549418179318309, lr 0.0001
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Epoch 617200, Loss 0.003548809327185154, lr 0.0001
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Epoch 617700, Loss 0.0035458479542285204, lr 0.0001
Epoch 617800, Loss 0.0035454221069812775, lr 0.0001
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Epoch 618000, Loss 0.050709664821624756, lr 0.0001
Epoch 618100, Loss 0.00355336582288146, lr 0.0001
Epoch 618200, Loss 0.0035482789389789104, lr 0.0001
Epoch 618300, Loss 0.0035477937199175358, lr 0.0001
Epoch 618400, Loss 0.003546187886968255, lr 0.0001
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Epoch 618700, Loss 0.9495970010757446, lr 0.0001
Epoch 618800, Loss 0.003569643711671233, lr 0.0001
Epoch 618900, Loss 0.0035426903050392866, lr 0.0001
Epoch 619000, Loss 0.5410774946212769, lr 0.0001
Epoch 619100, Loss 0.0035628355108201504, lr 0.0001
Epoch 619200, Loss 0.003542413003742695, lr 0.0001
Epoch 619300, Loss 0.003540678881108761, lr 0.0001
Epoch 619400, Loss 0.06620492786169052, lr 0.0001
Epoch 619500, Loss 0.003550834022462368, lr 0.0001
Epoch 619600, Loss 0.016449255868792534, lr 0.0001
Epoch 619700, Loss 0.0035421932116150856, lr 0.0001
Epoch 619800, Loss 0.07799980789422989, lr 0.0001
Epoch 619900, Loss 0.0036043559666723013, lr 0.0001
Epoch 620000, Loss 0.0035397436004132032, lr 0.0001
Epoch 620100, Loss 0.0035374416038393974, lr 0.0001
Epoch 620200, Loss 0.03969423100352287, lr 0.0001
Epoch 620300, Loss 0.0035410148557275534, lr 0.0001
Epoch 620400, Loss 0.0035361191257834435, lr 0.0001
Epoch 620500, Loss 0.3036464750766754, lr 0.0001
Epoch 620600, Loss 0.003548049135133624, lr 0.0001
Epoch 620700, Loss 0.0035358965396881104, lr 0.0001
Epoch 620800, Loss 0.0035610555205494165, lr 0.0001
Epoch 620900, Loss 0.0037700848188251257, lr 0.0001
Epoch 621000, Loss 0.0035364169161766768, lr 0.0001
Epoch 621100, Loss 0.003534591058269143, lr 0.0001
Epoch 621200, Loss 0.06414807587862015, lr 0.0001

Epoch 621300, Loss 0.01654537208378315, lr 0.0001
Epoch 621400, Loss 0.24725770950317383, lr 0.0001
Epoch 621500, Loss 0.05761553347110748, lr 0.0001
Epoch 621600, Loss 0.004520036280155182, lr 0.0001
Epoch 621700, Loss 0.01188085786998272, lr 0.0001
Epoch 621800, Loss 0.02556396834552288, lr 0.0001
Epoch 621900, Loss 0.0035373198334127665, lr 0.0001
Epoch 622000, Loss 0.11453510075807571, lr 0.0001
Epoch 622100, Loss 0.003550057765096426, lr 0.0001
Epoch 622200, Loss 0.003529915353283286, lr 0.0001
Epoch 622300, Loss 0.0039143916219472885, lr 0.0001
Epoch 622400, Loss 0.004064303357154131, lr 0.0001
Epoch 622500, Loss 0.0035295456182211637, lr 0.0001
Epoch 622600, Loss 0.003529697423800826, lr 0.0001
Epoch 622700, Loss 0.0035288704093545675, lr 0.0001
Epoch 622800, Loss 0.0166219100356102, lr 0.0001
Epoch 622900, Loss 0.0035362583585083485, lr 0.0001
Epoch 623000, Loss 0.003528855973854661, lr 0.0001
Epoch 623100, Loss 0.029234422370791435, lr 0.0001
Epoch 623200, Loss 0.0035297833383083344, lr 0.0001
Epoch 623300, Loss 0.0035241737496107817, lr 0.0001
Epoch 623400, Loss 0.0035249919164925814, lr 0.0001
Epoch 623500, Loss 0.00399518758058548, lr 0.0001
Epoch 623600, Loss 0.003529034089297056, lr 0.0001
Epoch 623700, Loss 0.003528727451339364, lr 0.0001
Epoch 623800, Loss 0.0035269535146653652, lr 0.0001
Epoch 623900, Loss 0.003525548381730914, lr 0.0001
Epoch 624000, Loss 0.003525774460285902, lr 0.0001
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Epoch 624400, Loss 0.009233368560671806, lr 0.0001
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Epoch 624600, Loss 0.015538875944912434, lr 0.0001
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Epoch 624800, Loss 0.0035218519624322653, lr 0.0001
Epoch 624900, Loss 0.003522070124745369, lr 0.0001
Epoch 625000, Loss 0.003520759055390954, lr 0.0001
Epoch 625100, Loss 0.007864954881370068, lr 0.0001
Epoch 625200, Loss 0.003520444268360734, lr 0.0001
Epoch 625300, Loss 0.003520352067425847, lr 0.0001
Epoch 625400, Loss 0.003521878272294998, lr 0.0001
Epoch 625500, Loss 0.14748609066009521, lr 0.0001
Epoch 625600, Loss 0.003529380541294813, lr 0.0001
Epoch 625700, Loss 0.0035222999285906553, lr 0.0001
Epoch 625800, Loss 0.0035206391476094723, lr 0.0001
Epoch 625900, Loss 0.0035173147916793823, lr 0.0001
Epoch 626000, Loss 0.005509552545845509, lr 0.0001

Epoch 626100, Loss 0.0035344730131328106, lr 0.0001
Epoch 626200, Loss 0.051544371992349625, lr 0.0001
Epoch 626300, Loss 0.003516019554808736, lr 0.0001
Epoch 626400, Loss 0.004792182240635157, lr 0.0001
Epoch 626500, Loss 0.0035838456824421883, lr 0.0001
Epoch 626600, Loss 0.07875752449035645, lr 0.0001
Epoch 626700, Loss 0.0035161322448402643, lr 0.0001
Epoch 626800, Loss 0.005752348806709051, lr 0.0001
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Epoch 627000, Loss 0.006932969205081463, lr 0.0001
Epoch 627100, Loss 0.051233742386102676, lr 0.0001
Epoch 627200, Loss 0.006544394884258509, lr 0.0001
Epoch 627300, Loss 0.0036041641142219305, lr 0.0001
Epoch 627400, Loss 0.009622939862310886, lr 0.0001
Epoch 627500, Loss 0.0035193858202546835, lr 0.0001
Epoch 627600, Loss 0.03953924402594566, lr 0.0001
Epoch 627700, Loss 0.0035242359153926373, lr 0.0001
Epoch 627800, Loss 0.003757490310817957, lr 0.0001
Epoch 627900, Loss 0.003518059616908431, lr 0.0001
Epoch 628000, Loss 0.003700369270518422, lr 0.0001
Epoch 628100, Loss 0.003508326131850481, lr 0.0001
Epoch 628200, Loss 0.031534790992736816, lr 0.0001
Epoch 628300, Loss 0.003513106144964695, lr 0.0001
Epoch 628400, Loss 0.00350744416937232, lr 0.0001
Epoch 628500, Loss 0.003508679335936904, lr 0.0001
Epoch 628600, Loss 0.008140361867845058, lr 0.0001
Epoch 628700, Loss 0.003505654400214553, lr 0.0001
Epoch 628800, Loss 0.003505317261442542, lr 0.0001
Epoch 628900, Loss 0.0035081382375210524, lr 0.0001
Epoch 629000, Loss 0.0037633737083524466, lr 0.0001
Epoch 629100, Loss 0.003508466761559248, lr 0.0001
Epoch 629200, Loss 0.0035081803798675537, lr 0.0001
Epoch 629300, Loss 0.0035061740782111883, lr 0.0001
Epoch 629400, Loss 0.0035057447385042906, lr 0.0001
Epoch 629500, Loss 0.003976656589657068, lr 0.0001
Epoch 629600, Loss 0.0035035377368330956, lr 0.0001
Epoch 629700, Loss 0.006901129614561796, lr 0.0001
Epoch 629800, Loss 0.003961897920817137, lr 0.0001
Epoch 629900, Loss 0.0036202615592628717, lr 0.0001
Epoch 630000, Loss 0.010602598078548908, lr 0.0001
Epoch 630100, Loss 0.006028103642165661, lr 0.0001
Epoch 630200, Loss 0.0035538612864911556, lr 0.0001
Epoch 630300, Loss 0.11242371797561646, lr 0.0001
Epoch 630400, Loss 0.0035051563754677773, lr 0.0001
Epoch 630500, Loss 0.021836616098880768, lr 0.0001
Epoch 630600, Loss 0.0044716959819197655, lr 0.0001
Epoch 630700, Loss 0.005481421016156673, lr 0.0001
Epoch 630800, Loss 0.012997991405427456, lr 0.0001

Epoch 630900, Loss 0.017936555668711662, lr 0.0001
Epoch 631000, Loss 0.4025369882583618, lr 0.0001
Epoch 631100, Loss 0.00350737851113081, lr 0.0001
Epoch 631200, Loss 0.025280334055423737, lr 0.0001
Epoch 631300, Loss 0.003499101148918271, lr 0.0001
Epoch 631400, Loss 0.0034947264939546585, lr 0.0001
Epoch 631500, Loss 0.07548926025629044, lr 0.0001
Epoch 631600, Loss 0.003498113015666604, lr 0.0001
Epoch 631700, Loss 0.0034952927380800247, lr 0.0001
Epoch 631800, Loss 0.0034969784319400787, lr 0.0001
Epoch 631900, Loss 0.0034964950755238533, lr 0.0001
Epoch 632000, Loss 0.021446799859404564, lr 0.0001
Epoch 632100, Loss 0.004858117084950209, lr 0.0001
Epoch 632200, Loss 0.004644324537366629, lr 0.0001
Epoch 632300, Loss 0.0051257372833788395, lr 0.0001
Epoch 632400, Loss 0.0036475704982876778, lr 0.0001
Epoch 632500, Loss 0.07253846526145935, lr 0.0001
Epoch 632600, Loss 0.31992223858833313, lr 0.0001
Epoch 632700, Loss 0.003664894262328744, lr 0.0001
Epoch 632800, Loss 0.0047018155455589294, lr 0.0001
Epoch 632900, Loss 0.005582071840763092, lr 0.0001
Epoch 633000, Loss 0.43334415555000305, lr 0.0001
Epoch 633100, Loss 0.0035252603702247143, lr 0.0001
Epoch 633200, Loss 0.15006864070892334, lr 0.0001
Epoch 633300, Loss 0.06814064830541611, lr 0.0001
Epoch 633400, Loss 0.08744754642248154, lr 0.0001
Epoch 633500, Loss 0.014704662375152111, lr 0.0001
Epoch 633600, Loss 0.0035125825088471174, lr 0.0001
Epoch 633700, Loss 0.014289270155131817, lr 0.0001
Epoch 633800, Loss 0.0035551143810153008, lr 0.0001
Epoch 633900, Loss 0.0034871527459472418, lr 0.0001
Epoch 634000, Loss 0.0034855303820222616, lr 0.0001
Epoch 634100, Loss 0.015595026314258575, lr 0.0001
Epoch 634200, Loss 0.003488856367766857, lr 0.0001
Epoch 634300, Loss 0.0034872135147452354, lr 0.0001
Epoch 634400, Loss 0.0034878619480878115, lr 0.0001
Epoch 634500, Loss 0.0034867122303694487, lr 0.0001
Epoch 634600, Loss 0.0034864211920648813, lr 0.0001
Epoch 634700, Loss 1.575613021850586, lr 0.0001
Epoch 634800, Loss 0.003499300917610526, lr 0.0001
Epoch 634900, Loss 0.0034873862750828266, lr 0.0001
Epoch 635000, Loss 0.003486122004687786, lr 0.0001
Epoch 635100, Loss 0.0034848281648010015, lr 0.0001
Epoch 635200, Loss 0.003485326189547777, lr 0.0001
Epoch 635300, Loss 0.0034838602878153324, lr 0.0001
Epoch 635400, Loss 0.0034840700682252645, lr 0.0001
Epoch 635500, Loss 0.0034844037145376205, lr 0.0001
Epoch 635600, Loss 0.004271689802408218, lr 0.0001

Epoch 635700, Loss 0.0035058523062616587, lr 0.0001
Epoch 635800, Loss 0.009490086697041988, lr 0.0001
Epoch 635900, Loss 0.003480695653706789, lr 0.0001
Epoch 636000, Loss 0.005087585654109716, lr 0.0001
Epoch 636100, Loss 0.0034831927623599768, lr 0.0001
Epoch 636200, Loss 0.0034802902955561876, lr 0.0001
Epoch 636300, Loss 0.0039855134673416615, lr 0.0001
Epoch 636400, Loss 0.0034995886962860823, lr 0.0001
Epoch 636500, Loss 0.15312418341636658, lr 0.0001
Epoch 636600, Loss 0.003483683569356799, lr 0.0001
Epoch 636700, Loss 0.0034778688568621874, lr 0.0001
Epoch 636800, Loss 0.07532141357660294, lr 0.0001
Epoch 636900, Loss 0.0034784232266247272, lr 0.0001
Epoch 637000, Loss 0.003478584811091423, lr 0.0001
Epoch 637100, Loss 0.003479097271338105, lr 0.0001
Epoch 637200, Loss 0.0034764809533953667, lr 0.0001
Epoch 637300, Loss 0.014749514870345592, lr 0.0001
Epoch 637400, Loss 0.0034755223896354437, lr 0.0001
Epoch 637500, Loss 0.003473188728094101, lr 0.0001
Epoch 637600, Loss 0.021097084507346153, lr 0.0001
Epoch 637700, Loss 0.0034804455935955048, lr 0.0001
Epoch 637800, Loss 0.0034770711790770292, lr 0.0001
Epoch 637900, Loss 0.0034773924853652716, lr 0.0001
Epoch 638000, Loss 0.0034754641819745302, lr 0.0001
Epoch 638100, Loss 0.008806619793176651, lr 0.0001
Epoch 638200, Loss 0.006368505302816629, lr 0.0001
Epoch 638300, Loss 0.07987630367279053, lr 0.0001
Epoch 638400, Loss 0.025086041539907455, lr 0.0001
Epoch 638500, Loss 0.04466373845934868, lr 0.0001
Epoch 638600, Loss 0.017688026651740074, lr 0.0001
Epoch 638700, Loss 0.07803047448396683, lr 0.0001
Epoch 638800, Loss 0.0062082502990961075, lr 0.0001
Epoch 638900, Loss 0.0036365895066410303, lr 0.0001
Epoch 639000, Loss 0.05218042433261871, lr 0.0001
Epoch 639100, Loss 0.004108114168047905, lr 0.0001
Epoch 639200, Loss 0.22422008216381073, lr 0.0001
Epoch 639300, Loss 0.0036439315881580114, lr 0.0001
Epoch 639400, Loss 0.0036359832156449556, lr 0.0001
Epoch 639500, Loss 0.020877650007605553, lr 0.0001
Epoch 639600, Loss 0.0034711849875748158, lr 0.0001
Epoch 639700, Loss 0.08894249051809311, lr 0.0001
Epoch 639800, Loss 0.04002969712018967, lr 0.0001
Epoch 639900, Loss 0.0035148232709616423, lr 0.0001
Epoch 640000, Loss 0.003474045777693391, lr 0.0001
Epoch 640100, Loss 0.0034646294079720974, lr 0.0001
Epoch 640200, Loss 0.03163949027657509, lr 0.0001
Epoch 640300, Loss 0.003615414956584573, lr 0.0001
Epoch 640400, Loss 0.0034675600472837687, lr 0.0001

Epoch 640500, Loss 0.003465242451056838, lr 0.0001
Epoch 640600, Loss 0.0034656315110623837, lr 0.0001
Epoch 640700, Loss 0.0034863557666540146, lr 0.0001
Epoch 640800, Loss 0.0035987976007163525, lr 0.0001
Epoch 640900, Loss 0.003625623183324933, lr 0.0001
Epoch 641000, Loss 0.0034781773574650288, lr 0.0001
Epoch 641100, Loss 0.0038246805779635906, lr 0.0001
Epoch 641200, Loss 0.0034622293896973133, lr 0.0001
Epoch 641300, Loss 0.0034637220669537783, lr 0.0001
Epoch 641400, Loss 0.09990718215703964, lr 0.0001
Epoch 641500, Loss 0.0034691670443862677, lr 0.0001
Epoch 641600, Loss 0.0034653120674192905, lr 0.0001
Epoch 641700, Loss 0.0034607253037393093, lr 0.0001
Epoch 641800, Loss 0.0034615611657500267, lr 0.0001
Epoch 641900, Loss 0.003461310872808099, lr 0.0001
Epoch 642000, Loss 0.00917132943868637, lr 0.0001
Epoch 642100, Loss 0.003463334869593382, lr 0.0001
Epoch 642200, Loss 0.003463513683527708, lr 0.0001
Epoch 642300, Loss 0.003463438479229808, lr 0.0001
Epoch 642400, Loss 0.0034630242735147476, lr 0.0001
Epoch 642500, Loss 0.003461231244727969, lr 0.0001
Epoch 642600, Loss 0.0034587732516229153, lr 0.0001
Epoch 642700, Loss 0.08171059191226959, lr 0.0001
Epoch 642800, Loss 0.009533670730888844, lr 0.0001
Epoch 642900, Loss 0.0034720490220934153, lr 0.0001
Epoch 643000, Loss 0.0045703924261033535, lr 0.0001
Epoch 643100, Loss 0.0034575944300740957, lr 0.0001
Epoch 643200, Loss 0.36216670274734497, lr 0.0001
Epoch 643300, Loss 0.0034686867147684097, lr 0.0001
Epoch 643400, Loss 0.003456633072346449, lr 0.0001
Epoch 643500, Loss 0.003456296632066369, lr 0.0001
Epoch 643600, Loss 0.0036306974943727255, lr 0.0001
Epoch 643700, Loss 0.003455131081864238, lr 0.0001
Epoch 643800, Loss 0.0034560642670840025, lr 0.0001
Epoch 643900, Loss 0.0034537978935986757, lr 0.0001
Epoch 644000, Loss 0.07794773578643799, lr 0.0001
Epoch 644100, Loss 0.003458818420767784, lr 0.0001
Epoch 644200, Loss 0.0034509338438510895, lr 0.0001
Epoch 644300, Loss 0.0034516730811446905, lr 0.0001
Epoch 644400, Loss 0.0034502025227993727, lr 0.0001
Epoch 644500, Loss 0.007176993880420923, lr 0.0001
Epoch 644600, Loss 0.003452158533036709, lr 0.0001
Epoch 644700, Loss 0.0034524966031312943, lr 0.0001
Epoch 644800, Loss 0.003452498698607087, lr 0.0001
Epoch 644900, Loss 0.03749708831310272, lr 0.0001
Epoch 645000, Loss 0.03385298326611519, lr 0.0001
Epoch 645100, Loss 0.0036516219843178988, lr 0.0001
Epoch 645200, Loss 0.003499355399981141, lr 0.0001

Epoch 645300, Loss 0.013436147011816502, lr 0.0001
Epoch 645400, Loss 0.003472936572507024, lr 0.0001
Epoch 645500, Loss 0.0034520868211984634, lr 0.0001
Epoch 645600, Loss 0.004275836516171694, lr 0.0001
Epoch 645700, Loss 0.0034485424403101206, lr 0.0001
Epoch 645800, Loss 0.003445693990215659, lr 0.0001
Epoch 645900, Loss 0.010509808547794819, lr 0.0001
Epoch 646000, Loss 0.0034478669986128807, lr 0.0001
Epoch 646100, Loss 0.0034458592999726534, lr 0.0001
Epoch 646200, Loss 0.7013531923294067, lr 0.0001
Epoch 646300, Loss 0.0034527478273957968, lr 0.0001
Epoch 646400, Loss 0.003447806229814887, lr 0.0001
Epoch 646500, Loss 0.0034468304365873337, lr 0.0001
Epoch 646600, Loss 0.0034452686086297035, lr 0.0001
Epoch 646700, Loss 0.0034455854911357164, lr 0.0001
Epoch 646800, Loss 0.003444781294092536, lr 0.0001
Epoch 646900, Loss 0.0036806620191782713, lr 0.0001
Epoch 647000, Loss 0.0034434564877301455, lr 0.0001
Epoch 647100, Loss 0.4830642640590668, lr 0.0001
Epoch 647200, Loss 0.003452225821092725, lr 0.0001
Epoch 647300, Loss 0.003442209679633379, lr 0.0001
Epoch 647400, Loss 0.003444155678153038, lr 0.0001
Epoch 647500, Loss 0.0034429337829351425, lr 0.0001
Epoch 647600, Loss 0.0034414399415254593, lr 0.0001
Epoch 647700, Loss 0.0034462683834135532, lr 0.0001
Epoch 647800, Loss 0.003683009883388877, lr 0.0001
Epoch 647900, Loss 0.0034448292572051287, lr 0.0001
Epoch 648000, Loss 0.0034441726747900248, lr 0.0001
Epoch 648100, Loss 0.003442352404817939, lr 0.0001
Epoch 648200, Loss 0.003441945416852832, lr 0.0001
Epoch 648300, Loss 0.0034409433137625456, lr 0.0001
Epoch 648400, Loss 0.003442136337980628, lr 0.0001
Epoch 648500, Loss 0.0034407132770866156, lr 0.0001
Epoch 648600, Loss 1.496057152748108, lr 0.0001
Epoch 648700, Loss 0.0034523296635597944, lr 0.0001
Epoch 648800, Loss 0.0034403749741613865, lr 0.0001
Epoch 648900, Loss 0.0034383288584649563, lr 0.0001
Epoch 649000, Loss 0.6914469599723816, lr 0.0001
Epoch 649100, Loss 0.0034539473708719015, lr 0.0001
Epoch 649200, Loss 0.0034417235292494297, lr 0.0001
Epoch 649300, Loss 0.003438055980950594, lr 0.0001
Epoch 649400, Loss 0.003437864128500223, lr 0.0001
Epoch 649500, Loss 0.0034357705153524876, lr 0.0001
Epoch 649600, Loss 0.007629175670444965, lr 0.0001
Epoch 649700, Loss 0.003437901847064495, lr 0.0001
Epoch 649800, Loss 0.0034362368751317263, lr 0.0001
Epoch 649900, Loss 0.0034353190567344427, lr 0.0001
Epoch 650000, Loss 0.003434790764003992, lr 0.0001

Epoch 650100, Loss 0.042259298264980316, lr 0.0001
Epoch 650200, Loss 0.007725327275693417, lr 0.0001
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Epoch 650400, Loss 0.003926873207092285, lr 0.0001
Epoch 650500, Loss 0.0035338785964995623, lr 0.0001
Epoch 650600, Loss 0.0034360752906650305, lr 0.0001
Epoch 650700, Loss 0.05979596823453903, lr 0.0001
Epoch 650800, Loss 0.2658486068248749, lr 0.0001
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Epoch 651100, Loss 0.00625948840752244, lr 0.0001
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Epoch 651400, Loss 0.003614325076341629, lr 0.0001
Epoch 651500, Loss 0.009850762784481049, lr 0.0001
Epoch 651600, Loss 0.0036142764147371054, lr 0.0001
Epoch 651700, Loss 0.0034377104602754116, lr 0.0001
Epoch 651800, Loss 0.003907290752977133, lr 0.0001
Epoch 651900, Loss 0.0034284337889403105, lr 0.0001
Epoch 652000, Loss 0.0034264305140823126, lr 0.0001
Epoch 652100, Loss 0.012316238135099411, lr 0.0001
Epoch 652200, Loss 0.003430397482588887, lr 0.0001
Epoch 652300, Loss 0.003427405608817935, lr 0.0001
Epoch 652400, Loss 0.0034269904717803, lr 0.0001
Epoch 652500, Loss 0.0034248176962137222, lr 0.0001
Epoch 652600, Loss 0.0048900325782597065, lr 0.0001
Epoch 652700, Loss 0.0034262482076883316, lr 0.0001
Epoch 652800, Loss 0.0034241462126374245, lr 0.0001
Epoch 652900, Loss 0.003423819551244378, lr 0.0001
Epoch 653000, Loss 1.1087769269943237, lr 0.0001
Epoch 653100, Loss 0.0034352566581219435, lr 0.0001
Epoch 653200, Loss 0.00342600978910923, lr 0.0001
Epoch 653300, Loss 0.0034254370257258415, lr 0.0001
Epoch 653400, Loss 0.0034241201356053352, lr 0.0001
Epoch 653500, Loss 0.0034223529510200024, lr 0.0001
Epoch 653600, Loss 0.0034238453954458237, lr 0.0001
Epoch 653700, Loss 0.09023736417293549, lr 0.0001
Epoch 653800, Loss 0.003426581621170044, lr 0.0001
Epoch 653900, Loss 0.003419672604650259, lr 0.0001
Epoch 654000, Loss 0.17542998492717743, lr 0.0001
Epoch 654100, Loss 0.003424690803512931, lr 0.0001
Epoch 654200, Loss 0.003423823742195964, lr 0.0001
Epoch 654300, Loss 0.0034247026778757572, lr 0.0001
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Epoch 654500, Loss 0.0034221098758280277, lr 0.0001
Epoch 654600, Loss 0.003421023255214095, lr 0.0001
Epoch 654700, Loss 0.0034196777269244194, lr 0.0001
Epoch 654800, Loss 0.03326961025595665, lr 0.0001

Epoch 654900, Loss 0.0034209161531180143, lr 0.0001
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Epoch 655100, Loss 0.0034207948483526707, lr 0.0001
Epoch 655200, Loss 0.0034195161424577236, lr 0.0001
Epoch 655300, Loss 0.04762227088212967, lr 0.0001
Epoch 655400, Loss 0.003419579239562154, lr 0.0001
Epoch 655500, Loss 0.0034167312551289797, lr 0.0001
Epoch 655600, Loss 0.003420095657929778, lr 0.0001
Epoch 655700, Loss 0.0034147563856095076, lr 0.0001
Epoch 655800, Loss 0.033395323902368546, lr 0.0001
Epoch 655900, Loss 0.0034195859916508198, lr 0.0001
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Epoch 656200, Loss 0.003416145220398903, lr 0.0001
Epoch 656300, Loss 0.003414791077375412, lr 0.0001
Epoch 656400, Loss 0.0043211644515395164, lr 0.0001
Epoch 656500, Loss 0.11867029964923859, lr 0.0001
Epoch 656600, Loss 0.003419165965169668, lr 0.0001
Epoch 656700, Loss 0.003415067447349429, lr 0.0001
Epoch 656800, Loss 0.0034184427931904793, lr 0.0001
Epoch 656900, Loss 0.0037349581252783537, lr 0.0001
Epoch 657000, Loss 0.0034169203136116266, lr 0.0001
Epoch 657100, Loss 0.00341758131980896, lr 0.0001
Epoch 657200, Loss 0.0034150227438658476, lr 0.0001
Epoch 657300, Loss 0.004368231166154146, lr 0.0001
Epoch 657400, Loss 0.0042220852337777615, lr 0.0001
Epoch 657500, Loss 0.05284426733851433, lr 0.0001
Epoch 657600, Loss 0.0391823910176754, lr 0.0001
Epoch 657700, Loss 0.13413578271865845, lr 0.0001
Epoch 657800, Loss 0.003432587720453739, lr 0.0001
Epoch 657900, Loss 0.1008993461728096, lr 0.0001
Epoch 658000, Loss 0.0034155442845076323, lr 0.0001
Epoch 658100, Loss 0.003424983937293291, lr 0.0001
Epoch 658200, Loss 0.003436962841078639, lr 0.0001
Epoch 658300, Loss 0.0034091921988874674, lr 0.0001
Epoch 658400, Loss 0.005154566839337349, lr 0.0001
Epoch 658500, Loss 0.003405635477975011, lr 0.0001
Epoch 658600, Loss 0.03992221876978874, lr 0.0001
Epoch 658700, Loss 0.003406298579648137, lr 0.0001
Epoch 658800, Loss 0.0034075193107128143, lr 0.0001
Epoch 658900, Loss 0.0039006201550364494, lr 0.0001
Epoch 659000, Loss 0.42072632908821106, lr 0.0001
Epoch 659100, Loss 0.0034210500307381153, lr 0.0001
Epoch 659200, Loss 0.006462487392127514, lr 0.0001
Epoch 659300, Loss 0.00904907938092947, lr 0.0001
Epoch 659400, Loss 0.08344990760087967, lr 0.0001
Epoch 659500, Loss 0.003448119852691889, lr 0.0001
Epoch 659600, Loss 0.005477567669004202, lr 0.0001

Epoch 659700, Loss 0.003403973300009966, lr 0.0001
Epoch 659800, Loss 0.006469364743679762, lr 0.0001
Epoch 659900, Loss 0.003402706002816558, lr 0.0001
Epoch 660000, Loss 0.0034033232368528843, lr 0.0001
Epoch 660100, Loss 0.014234598726034164, lr 0.0001
Epoch 660200, Loss 0.0034026179928332567, lr 0.0001
Epoch 660300, Loss 0.003399774432182312, lr 0.0001
Epoch 660400, Loss 0.003403840586543083, lr 0.0001
Epoch 660500, Loss 0.0037631867453455925, lr 0.0001
Epoch 660600, Loss 0.003400845220312476, lr 0.0001
Epoch 660700, Loss 0.006009866017848253, lr 0.0001
Epoch 660800, Loss 0.0034002659376710653, lr 0.0001
Epoch 660900, Loss 0.0034013395197689533, lr 0.0001
Epoch 661000, Loss 0.0034004703629761934, lr 0.0001
Epoch 661100, Loss 0.0036239882465451956, lr 0.0001
Epoch 661200, Loss 0.004367325454950333, lr 0.0001
Epoch 661300, Loss 0.01789116859436035, lr 0.0001
Epoch 661400, Loss 0.0034918186720460653, lr 0.0001
Epoch 661500, Loss 0.0035919754300266504, lr 0.0001
Epoch 661600, Loss 0.053756702691316605, lr 0.0001
Epoch 661700, Loss 0.0961887463927269, lr 0.0001
Epoch 661800, Loss 0.01308972667902708, lr 0.0001
Epoch 661900, Loss 0.004506692290306091, lr 0.0001
Epoch 662000, Loss 0.05152367427945137, lr 0.0001
Epoch 662100, Loss 0.0034403749741613865, lr 0.0001
Epoch 662200, Loss 0.0039342897944152355, lr 0.0001
Epoch 662300, Loss 0.01724654622375965, lr 0.0001
Epoch 662400, Loss 0.004187996499240398, lr 0.0001
Epoch 662500, Loss 0.004666387103497982, lr 0.0001
Epoch 662600, Loss 0.030227774754166603, lr 0.0001
Epoch 662700, Loss 0.10100038349628448, lr 0.0001
Epoch 662800, Loss 0.003398019587621093, lr 0.0001
Epoch 662900, Loss 0.004756088834255934, lr 0.0001
Epoch 663000, Loss 0.06521211564540863, lr 0.0001
Epoch 663100, Loss 0.08545166254043579, lr 0.0001
Epoch 663200, Loss 0.003435638500377536, lr 0.0001
Epoch 663300, Loss 0.003738247323781252, lr 0.0001
Epoch 663400, Loss 0.2335546910762787, lr 0.0001
Epoch 663500, Loss 0.0034186202101409435, lr 0.0001
Epoch 663600, Loss 0.12699522078037262, lr 0.0001
Epoch 663700, Loss 0.0033954570535570383, lr 0.0001
Epoch 663800, Loss 0.0033861720003187656, lr 0.0001
Epoch 663900, Loss 0.23035180568695068, lr 0.0001
Epoch 664000, Loss 0.0034311246126890182, lr 0.0001
Epoch 664100, Loss 0.003389946185052395, lr 0.0001
Epoch 664200, Loss 0.003386398544535041, lr 0.0001
Epoch 664300, Loss 0.0033877461683005095, lr 0.0001
Epoch 664400, Loss 1.4025856256484985, lr 0.0001

Epoch 664500, Loss 0.0034105400554835796, lr 0.0001
Epoch 664600, Loss 0.0033897138200700283, lr 0.0001
Epoch 664700, Loss 0.0033881745766848326, lr 0.0001
Epoch 664800, Loss 0.0033872683998197317, lr 0.0001
Epoch 664900, Loss 0.0033843384589999914, lr 0.0001
Epoch 665000, Loss 0.003384976414963603, lr 0.0001
Epoch 665100, Loss 0.003385840216651559, lr 0.0001
Epoch 665200, Loss 0.003384555224329233, lr 0.0001
Epoch 665300, Loss 0.014806630089879036, lr 0.0001
Epoch 665400, Loss 0.0033858581446111202, lr 0.0001
Epoch 665500, Loss 0.0033837801311165094, lr 0.0001
Epoch 665600, Loss 0.2927171587944031, lr 0.0001
Epoch 665700, Loss 0.003400663146749139, lr 0.0001
Epoch 665800, Loss 0.0033854555804282427, lr 0.0001
Epoch 665900, Loss 0.0033842273987829685, lr 0.0001
Epoch 666000, Loss 0.0033833354245871305, lr 0.0001
Epoch 666100, Loss 0.00338272494263947, lr 0.0001
Epoch 666200, Loss 0.003380902810022235, lr 0.0001
Epoch 666300, Loss 0.7441362738609314, lr 0.0001
Epoch 666400, Loss 0.0033949038479477167, lr 0.0001
Epoch 666500, Loss 0.0033817149233072996, lr 0.0001
Epoch 666600, Loss 0.003381476504728198, lr 0.0001
Epoch 666700, Loss 0.0033807693980634212, lr 0.0001
Epoch 666800, Loss 0.0033809125889092684, lr 0.0001
Epoch 666900, Loss 0.0036055820528417826, lr 0.0001
Epoch 667000, Loss 0.0036883808206766844, lr 0.0001
Epoch 667100, Loss 0.003384228330105543, lr 0.0001
Epoch 667200, Loss 0.003382899332791567, lr 0.0001
Epoch 667300, Loss 0.003380724461749196, lr 0.0001
Epoch 667400, Loss 0.0033795114140957594, lr 0.0001
Epoch 667500, Loss 0.0033805479761213064, lr 0.0001
Epoch 667600, Loss 0.0033802201505750418, lr 0.0001
Epoch 667700, Loss 0.016287606209516525, lr 0.0001
Epoch 667800, Loss 0.0033810031600296497, lr 0.0001
Epoch 667900, Loss 0.0033778538927435875, lr 0.0001
Epoch 668000, Loss 0.0051513309590518475, lr 0.0001
Epoch 668100, Loss 0.0033781472593545914, lr 0.0001
Epoch 668200, Loss 0.0033773344475775957, lr 0.0001
Epoch 668300, Loss 0.0033772464375942945, lr 0.0001
Epoch 668400, Loss 0.003374912077561021, lr 0.0001
Epoch 668500, Loss 0.004080736078321934, lr 0.0001
Epoch 668600, Loss 0.0033771728631109, lr 0.0001
Epoch 668700, Loss 0.003375087631866336, lr 0.0001
Epoch 668800, Loss 1.76796555519104, lr 0.0001
Epoch 668900, Loss 0.0034401705488562584, lr 0.0001
Epoch 669000, Loss 0.0033818671945482492, lr 0.0001
Epoch 669100, Loss 0.0033786252606660128, lr 0.0001
Epoch 669200, Loss 0.003378522815182805, lr 0.0001

Epoch 669300, Loss 0.003378063440322876, lr 0.0001
Epoch 669400, Loss 0.0033768180292099714, lr 0.0001
Epoch 669500, Loss 0.00337424548342824, lr 0.0001
Epoch 669600, Loss 0.003375550964847207, lr 0.0001
Epoch 669700, Loss 0.003374012652784586, lr 0.0001
Epoch 669800, Loss 0.44178420305252075, lr 0.0001
Epoch 669900, Loss 0.0033794355113059282, lr 0.0001
Epoch 670000, Loss 0.0033733476884663105, lr 0.0001
Epoch 670100, Loss 0.003373906947672367, lr 0.0001
Epoch 670200, Loss 0.0033722915686666965, lr 0.0001
Epoch 670300, Loss 0.027651356533169746, lr 0.0001
Epoch 670400, Loss 0.0033758366480469704, lr 0.0001
Epoch 670500, Loss 0.0033740184735506773, lr 0.0001
Epoch 670600, Loss 0.0033744191750884056, lr 0.0001
Epoch 670700, Loss 0.0033723434899002314, lr 0.0001
Epoch 670800, Loss 0.0033719742204993963, lr 0.0001
Epoch 670900, Loss 0.0033735977485775948, lr 0.0001
Epoch 671000, Loss 0.05891319364309311, lr 0.0001
Epoch 671100, Loss 0.0033738489728420973, lr 0.0001
Epoch 671200, Loss 0.0033705763053148985, lr 0.0001
Epoch 671300, Loss 0.01757797598838806, lr 0.0001
Epoch 671400, Loss 0.003373164450749755, lr 0.0001
Epoch 671500, Loss 0.003370785154402256, lr 0.0001
Epoch 671600, Loss 0.0033691483549773693, lr 0.0001
Epoch 671700, Loss 0.0034195175394415855, lr 0.0001
Epoch 671800, Loss 0.0033687977120280266, lr 0.0001
Epoch 671900, Loss 0.043718259781599045, lr 0.0001
Epoch 672000, Loss 0.007335591595619917, lr 0.0001
Epoch 672100, Loss 0.003387721488252282, lr 0.0001
Epoch 672200, Loss 0.12453222274780273, lr 0.0001
Epoch 672300, Loss 0.005966056603938341, lr 0.0001
Epoch 672400, Loss 0.0034579518251121044, lr 0.0001
Epoch 672500, Loss 0.027457622811198235, lr 0.0001
Epoch 672600, Loss 0.04361196979880333, lr 0.0001
Epoch 672700, Loss 0.3442273736000061, lr 0.0001
Epoch 672800, Loss 0.008695161901414394, lr 0.0001
Epoch 672900, Loss 0.004617744591087103, lr 0.0001
Epoch 673000, Loss 0.004052755888551474, lr 0.0001
Epoch 673100, Loss 0.004445695783942938, lr 0.0001
Epoch 673200, Loss 0.010267105884850025, lr 0.0001
Epoch 673300, Loss 0.0033896879758685827, lr 0.0001
Epoch 673400, Loss 0.0039918078109622, lr 0.0001
Epoch 673500, Loss 0.0045958999544382095, lr 0.0001
Epoch 673600, Loss 0.0035056339111179113, lr 0.0001
Epoch 673700, Loss 0.003358700079843402, lr 0.0001
Epoch 673800, Loss 0.03924836590886116, lr 0.0001
Epoch 673900, Loss 0.03243088722229004, lr 0.0001
Epoch 674000, Loss 0.024056177586317062, lr 0.0001

Epoch 674100, Loss 0.07162383943796158, lr 0.0001
Epoch 674200, Loss 0.003824513638392091, lr 0.0001
Epoch 674300, Loss 0.0034517759922891855, lr 0.0001
Epoch 674400, Loss 0.006997772958129644, lr 0.0001
Epoch 674500, Loss 0.006227564997971058, lr 0.0001
Epoch 674600, Loss 0.0037843750324100256, lr 0.0001
Epoch 674700, Loss 0.011610233224928379, lr 0.0001
Epoch 674800, Loss 0.00346716633066535, lr 0.0001
Epoch 674900, Loss 0.0043158940970897675, lr 0.0001
Epoch 675000, Loss 0.021747905761003494, lr 0.0001
Epoch 675100, Loss 0.10818589478731155, lr 0.0001
Epoch 675200, Loss 0.007951514795422554, lr 0.0001
Epoch 675300, Loss 0.0034310673363506794, lr 0.0001
Epoch 675400, Loss 0.060184184461832047, lr 0.0001
Epoch 675500, Loss 0.007584609556943178, lr 0.0001
Epoch 675600, Loss 0.007231775671243668, lr 0.0001
Epoch 675700, Loss 0.003994411323219538, lr 0.0001
Epoch 675800, Loss 0.004730328917503357, lr 0.0001
Epoch 675900, Loss 0.0033745430409908295, lr 0.0001
Epoch 676000, Loss 0.0034089016262441874, lr 0.0001
Epoch 676100, Loss 0.07897314429283142, lr 0.0001
Epoch 676200, Loss 0.11134102195501328, lr 0.0001
Epoch 676300, Loss 0.02447618916630745, lr 0.0001
Epoch 676400, Loss 0.0035962958354502916, lr 0.0001
Epoch 676500, Loss 0.00400890875607729, lr 0.0001
Epoch 676600, Loss 0.05251634865999222, lr 0.0001
Epoch 676700, Loss 0.00335688516497612, lr 0.0001
Epoch 676800, Loss 0.003586922539398074, lr 0.0001
Epoch 676900, Loss 0.0045211720280349255, lr 0.0001
Epoch 677000, Loss 0.0033861524425446987, lr 0.0001
Epoch 677100, Loss 0.007836848497390747, lr 0.0001
Epoch 677200, Loss 0.0033447265159338713, lr 0.0001
Epoch 677300, Loss 0.007679647766053677, lr 0.0001
Epoch 677400, Loss 0.0033529866486787796, lr 0.0001
Epoch 677500, Loss 0.0033803016413003206, lr 0.0001
Epoch 677600, Loss 0.003344255732372403, lr 0.0001
Epoch 677700, Loss 2.4163026809692383, lr 0.0001
Epoch 677800, Loss 0.003391104517504573, lr 0.0001
Epoch 677900, Loss 0.0033439043909311295, lr 0.0001
Epoch 678000, Loss 0.0033428396563977003, lr 0.0001
Epoch 678100, Loss 0.003341746050864458, lr 0.0001
Epoch 678200, Loss 0.003343254094943404, lr 0.0001
Epoch 678300, Loss 0.003612939268350601, lr 0.0001
Epoch 678400, Loss 0.003343679243698716, lr 0.0001
Epoch 678500, Loss 0.0037638016510754824, lr 0.0001
Epoch 678600, Loss 0.00345205282792449, lr 0.0001
Epoch 678700, Loss 0.0033420496620237827, lr 0.0001
Epoch 678800, Loss 0.0033439593389630318, lr 0.0001

Epoch 678900, Loss 0.0033418869134038687, lr 0.0001
Epoch 679000, Loss 0.0033392845652997494, lr 0.0001
Epoch 679100, Loss 0.0033391807228326797, lr 0.0001
Epoch 679200, Loss 0.0037610374856740236, lr 0.0001
Epoch 679300, Loss 0.008176783099770546, lr 0.0001
Epoch 679400, Loss 0.0033393963240087032, lr 0.0001
Epoch 679500, Loss 0.003335003275424242, lr 0.0001
Epoch 679600, Loss 0.003341935807839036, lr 0.0001
Epoch 679700, Loss 0.003579122945666313, lr 0.0001
Epoch 679800, Loss 0.003338250331580639, lr 0.0001
Epoch 679900, Loss 0.0033386850263923407, lr 0.0001
Epoch 680000, Loss 0.0033394841011613607, lr 0.0001
Epoch 680100, Loss 0.003336978377774358, lr 0.0001
Epoch 680200, Loss 0.003335708985105157, lr 0.0001
Epoch 680300, Loss 0.008451093919575214, lr 0.0001
Epoch 680400, Loss 0.007109337020665407, lr 0.0001
Epoch 680500, Loss 0.003421679837629199, lr 0.0001
Epoch 680600, Loss 0.3204377293586731, lr 0.0001
Epoch 680700, Loss 0.0033527871128171682, lr 0.0001
Epoch 680800, Loss 0.006415512412786484, lr 0.0001
Epoch 680900, Loss 0.0051974947564303875, lr 0.0001
Epoch 681000, Loss 0.08590809255838394, lr 0.0001
Epoch 681100, Loss 0.003338790498673916, lr 0.0001
Epoch 681200, Loss 0.003335098037496209, lr 0.0001
Epoch 681300, Loss 0.004033476579934359, lr 0.0001
Epoch 681400, Loss 0.0033329983707517385, lr 0.0001
Epoch 681500, Loss 0.003332988591864705, lr 0.0001
Epoch 681600, Loss 0.0033309515565633774, lr 0.0001
Epoch 681700, Loss 0.007134242914617062, lr 0.0001
Epoch 681800, Loss 0.0033318456262350082, lr 0.0001
Epoch 681900, Loss 0.0033329653088003397, lr 0.0001
Epoch 682000, Loss 0.0033344661351293325, lr 0.0001
Epoch 682100, Loss 0.0033312798477709293, lr 0.0001
Epoch 682200, Loss 0.1337062567472458, lr 0.0001
Epoch 682300, Loss 0.013186100870370865, lr 0.0001
Epoch 682400, Loss 0.0034091591369360685, lr 0.0001
Epoch 682500, Loss 0.004789324942976236, lr 0.0001
Epoch 682600, Loss 0.1093304231762886, lr 0.0001
Epoch 682700, Loss 0.003338148817420006, lr 0.0001
Epoch 682800, Loss 0.003340958384796977, lr 0.0001
Epoch 682900, Loss 0.003374231979250908, lr 0.0001
Epoch 683000, Loss 0.003330634441226721, lr 0.0001
Epoch 683100, Loss 0.0033273554872721434, lr 0.0001
Epoch 683200, Loss 0.3240027129650116, lr 0.0001
Epoch 683300, Loss 0.003336251014843583, lr 0.0001
Epoch 683400, Loss 0.0033257603645324707, lr 0.0001
Epoch 683500, Loss 0.005130568984895945, lr 0.0001
Epoch 683600, Loss 0.0033273566514253616, lr 0.0001

Epoch 683700, Loss 0.003327973885461688, lr 0.0001
Epoch 683800, Loss 0.012518594041466713, lr 0.0001
Epoch 683900, Loss 0.10803486406803131, lr 0.0001
Epoch 684000, Loss 0.14153045415878296, lr 0.0001
Epoch 684100, Loss 0.06843636929988861, lr 0.0001
Epoch 684200, Loss 0.004165237303823233, lr 0.0001
Epoch 684300, Loss 0.047498397529125214, lr 0.0001
Epoch 684400, Loss 0.017230873927474022, lr 0.0001
Epoch 684500, Loss 0.0041618687100708485, lr 0.0001
Epoch 684600, Loss 0.003930109087377787, lr 0.0001
Epoch 684700, Loss 0.0039522601291537285, lr 0.0001
Epoch 684800, Loss 0.06481431424617767, lr 0.0001
Epoch 684900, Loss 0.003366631455719471, lr 0.0001
Epoch 685000, Loss 0.014585885219275951, lr 0.0001
Epoch 685100, Loss 0.0033514401875436306, lr 0.0001
Epoch 685200, Loss 0.003322216682136059, lr 0.0001
Epoch 685300, Loss 0.0037196320481598377, lr 0.0001
Epoch 685400, Loss 0.003318529110401869, lr 0.0001
Epoch 685500, Loss 0.003487237496301532, lr 0.0001
Epoch 685600, Loss 0.0033356943167746067, lr 0.0001
Epoch 685700, Loss 0.0033192606642842293, lr 0.0001
Epoch 685800, Loss 0.19617360830307007, lr 0.0001
Epoch 685900, Loss 0.00331954681314528, lr 0.0001
Epoch 686000, Loss 0.003316666465252638, lr 0.0001
Epoch 686100, Loss 0.003317352384328842, lr 0.0001
Epoch 686200, Loss 0.07510114461183548, lr 0.0001
Epoch 686300, Loss 0.003343236865475774, lr 0.0001
Epoch 686400, Loss 0.003314134432002902, lr 0.0001
Epoch 686500, Loss 0.003314269706606865, lr 0.0001
Epoch 686600, Loss 0.011075361631810665, lr 0.0001
Epoch 686700, Loss 0.0033203652128577232, lr 0.0001
Epoch 686800, Loss 0.0033174052368849516, lr 0.0001
Epoch 686900, Loss 0.003316260874271393, lr 0.0001
Epoch 687000, Loss 0.003314155852422118, lr 0.0001
Epoch 687100, Loss 0.003314779605716467, lr 0.0001
Epoch 687200, Loss 0.0033145060297101736, lr 0.0001
Epoch 687300, Loss 0.003313175868242979, lr 0.0001
Epoch 687400, Loss 0.003847656771540642, lr 0.0001
Epoch 687500, Loss 0.007265527732670307, lr 0.0001
Epoch 687600, Loss 0.0033305359538644552, lr 0.0001
Epoch 687700, Loss 0.004251235630363226, lr 0.0001
Epoch 687800, Loss 0.019602110609412193, lr 0.0001
Epoch 687900, Loss 0.009377564303576946, lr 0.0001
Epoch 688000, Loss 0.004084195476025343, lr 0.0001
Epoch 688100, Loss 0.003860616823658347, lr 0.0001
Epoch 688200, Loss 0.0038364448118954897, lr 0.0001
Epoch 688300, Loss 0.0036086279433220625, lr 0.0001
Epoch 688400, Loss 0.03120953030884266, lr 0.0001

Epoch 688500, Loss 0.0033103753812611103, lr 0.0001
Epoch 688600, Loss 0.0033088468480855227, lr 0.0001
Epoch 688700, Loss 0.004892320837825537, lr 0.0001
Epoch 688800, Loss 0.0033095374237746, lr 0.0001
Epoch 688900, Loss 0.003310326486825943, lr 0.0001
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Epoch 689100, Loss 0.06010592728853226, lr 0.0001
Epoch 689200, Loss 0.0033110061194747686, lr 0.0001
Epoch 689300, Loss 0.0033064691815525293, lr 0.0001
Epoch 689400, Loss 0.003306968603283167, lr 0.0001
Epoch 689500, Loss 0.10459280759096146, lr 0.0001
Epoch 689600, Loss 0.003309651045128703, lr 0.0001
Epoch 689700, Loss 0.0033060491550713778, lr 0.0001
Epoch 689800, Loss 0.0033053052611649036, lr 0.0001
Epoch 689900, Loss 0.012259119190275669, lr 0.0001
Epoch 690000, Loss 0.0033032610081136227, lr 0.0001
Epoch 690100, Loss 0.0733397901058197, lr 0.0001
Epoch 690200, Loss 0.003335949033498764, lr 0.0001
Epoch 690300, Loss 0.003302863333374262, lr 0.0001
Epoch 690400, Loss 0.003304115729406476, lr 0.0001
Epoch 690500, Loss 0.020017949864268303, lr 0.0001
Epoch 690600, Loss 0.00898797158151865, lr 0.0001
Epoch 690700, Loss 0.003303439589217305, lr 0.0001
Epoch 690800, Loss 0.007454367354512215, lr 0.0001
Epoch 690900, Loss 0.003413005731999874, lr 0.0001
Epoch 691000, Loss 0.00596136087551713, lr 0.0001
Epoch 691100, Loss 0.03479037061333656, lr 0.0001
Epoch 691200, Loss 0.010278197005391121, lr 0.0001
Epoch 691300, Loss 0.0033022586721926928, lr 0.0001
Epoch 691400, Loss 0.018020043149590492, lr 0.0001
Epoch 691500, Loss 0.0032989743631333113, lr 0.0001
Epoch 691600, Loss 0.003299293341115117, lr 0.0001
Epoch 691700, Loss 0.14272604882717133, lr 0.0001
Epoch 691800, Loss 0.0033106841146945953, lr 0.0001
Epoch 691900, Loss 0.003298710100352764, lr 0.0001
Epoch 692000, Loss 0.0033019590191543102, lr 0.0001
Epoch 692100, Loss 0.003299109172075987, lr 0.0001
Epoch 692200, Loss 0.005031791049987078, lr 0.0001
Epoch 692300, Loss 0.003301358548924327, lr 0.0001
Epoch 692400, Loss 0.005123864859342575, lr 0.0001
Epoch 692500, Loss 0.0033020435366779566, lr 0.0001
Epoch 692600, Loss 0.0037230667658150196, lr 0.0001
Epoch 692700, Loss 0.003294143592938781, lr 0.0001
Epoch 692800, Loss 0.0033000812400132418, lr 0.0001
Epoch 692900, Loss 0.0035588229075074196, lr 0.0001
Epoch 693000, Loss 0.003296244889497757, lr 0.0001
Epoch 693100, Loss 0.003294974332675338, lr 0.0001
Epoch 693200, Loss 0.0032959897071123123, lr 0.0001

Epoch 693300, Loss 0.003501849714666605, lr 0.0001
Epoch 693400, Loss 0.0034201268572360277, lr 0.0001
Epoch 693500, Loss 0.021235866472125053, lr 0.0001
Epoch 693600, Loss 0.0073767416179180145, lr 0.0001
Epoch 693700, Loss 0.0075330170802772045, lr 0.0001
Epoch 693800, Loss 0.00466289184987545, lr 0.0001
Epoch 693900, Loss 0.0032960851676762104, lr 0.0001
Epoch 694000, Loss 0.0046439203433692455, lr 0.0001
Epoch 694100, Loss 0.0047461120411753654, lr 0.0001
Epoch 694200, Loss 0.0034565539099276066, lr 0.0001
Epoch 694300, Loss 0.46735188364982605, lr 0.0001
Epoch 694400, Loss 0.0033182210754603148, lr 0.0001
Epoch 694500, Loss 0.003289286745712161, lr 0.0001
Epoch 694600, Loss 0.050298552960157394, lr 0.0001
Epoch 694700, Loss 0.003292310517281294, lr 0.0001
Epoch 694800, Loss 0.00329015520401299, lr 0.0001
Epoch 694900, Loss 0.003290006425231695, lr 0.0001
Epoch 695000, Loss 0.003287775907665491, lr 0.0001
Epoch 695100, Loss 0.0032873605377972126, lr 0.0001
Epoch 695200, Loss 0.0036523262970149517, lr 0.0001
Epoch 695300, Loss 0.0032862387597560883, lr 0.0001
Epoch 695400, Loss 0.1253441870212555, lr 0.0001
Epoch 695500, Loss 0.0032928050495684147, lr 0.0001
Epoch 695600, Loss 0.0032865330576896667, lr 0.0001
Epoch 695700, Loss 0.0032848988194018602, lr 0.0001
Epoch 695800, Loss 0.003286580787971616, lr 0.0001
Epoch 695900, Loss 0.4958493113517761, lr 0.0001
Epoch 696000, Loss 0.003295788075774908, lr 0.0001
Epoch 696100, Loss 0.006032000295817852, lr 0.0001
Epoch 696200, Loss 0.003283706260845065, lr 0.0001
Epoch 696300, Loss 0.0032845446839928627, lr 0.0001
Epoch 696400, Loss 0.19709710776805878, lr 0.0001
Epoch 696500, Loss 0.0032912553288042545, lr 0.0001
Epoch 696600, Loss 0.0032839998602867126, lr 0.0001
Epoch 696700, Loss 0.003284023841843009, lr 0.0001
Epoch 696800, Loss 0.0032818345353007317, lr 0.0001
Epoch 696900, Loss 0.003281972836703062, lr 0.0001
Epoch 697000, Loss 0.0032813416328281164, lr 0.0001
Epoch 697100, Loss 0.0042608194053173065, lr 0.0001
Epoch 697200, Loss 0.003282983787357807, lr 0.0001
Epoch 697300, Loss 0.003282451070845127, lr 0.0001
Epoch 697400, Loss 0.0032799842301756144, lr 0.0001
Epoch 697500, Loss 0.0032813390716910362, lr 0.0001
Epoch 697600, Loss 0.05064035579562187, lr 0.0001
Epoch 697700, Loss 0.003322417614981532, lr 0.0001
Epoch 697800, Loss 0.0032823728397488594, lr 0.0001
Epoch 697900, Loss 0.0032833502627909184, lr 0.0001
Epoch 698000, Loss 0.0032827004324644804, lr 0.0001

Epoch 698100, Loss 0.0032833118457347155, lr 0.0001
Epoch 698200, Loss 0.0032802943605929613, lr 0.0001
Epoch 698300, Loss 0.0032817996107041836, lr 0.0001
Epoch 698400, Loss 0.023555733263492584, lr 0.0001
Epoch 698500, Loss 0.0032794869039207697, lr 0.0001
Epoch 698600, Loss 0.003276140196248889, lr 0.0001
Epoch 698700, Loss 0.03667159751057625, lr 0.0001
Epoch 698800, Loss 0.0032806862145662308, lr 0.0001
Epoch 698900, Loss 0.003277260810136795, lr 0.0001
Epoch 699000, Loss 0.0032791972626000643, lr 0.0001
Epoch 699100, Loss 0.00327709480188787, lr 0.0001
Epoch 699200, Loss 0.05579741299152374, lr 0.0001
Epoch 699300, Loss 0.003280173521488905, lr 0.0001
Epoch 699400, Loss 0.006898367777466774, lr 0.0001
Epoch 699500, Loss 0.0032766538206487894, lr 0.0001
Epoch 699600, Loss 0.010620564222335815, lr 0.0001
Epoch 699700, Loss 0.003276121336966753, lr 0.0001
Epoch 699800, Loss 0.06072497367858887, lr 0.0001
Epoch 699900, Loss 0.036054227501153946, lr 0.0001
Epoch 700000, Loss 0.02810651808977127, lr 0.0001
Epoch 700100, Loss 0.0033177495934069157, lr 0.0001
Epoch 700200, Loss 0.003837392432615161, lr 0.0001
Epoch 700300, Loss 0.08295264840126038, lr 0.0001
Epoch 700400, Loss 0.003306496189907193, lr 0.0001
Epoch 700500, Loss 0.013397734612226486, lr 0.0001
Epoch 700600, Loss 0.0032791132107377052, lr 0.0001
Epoch 700700, Loss 0.0035862524528056383, lr 0.0001
Epoch 700800, Loss 0.0038113489281386137, lr 0.0001
Epoch 700900, Loss 0.2925557792186737, lr 0.0001
Epoch 701000, Loss 0.003449409268796444, lr 0.0001
Epoch 701100, Loss 0.0037222132086753845, lr 0.0001
Epoch 701200, Loss 0.0034320135600864887, lr 0.0001
Epoch 701300, Loss 0.11653829365968704, lr 0.0001
Epoch 701400, Loss 0.0032759816385805607, lr 0.0001
Epoch 701500, Loss 0.003268816974014044, lr 0.0001
Epoch 701600, Loss 0.0037651904858648777, lr 0.0001
Epoch 701700, Loss 0.0032688011415302753, lr 0.0001
Epoch 701800, Loss 0.003268287517130375, lr 0.0001
Epoch 701900, Loss 0.0032670763321220875, lr 0.0001
Epoch 702000, Loss 0.26331406831741333, lr 0.0001
Epoch 702100, Loss 0.0032728747464716434, lr 0.0001
Epoch 702200, Loss 0.003269227920100093, lr 0.0001
Epoch 702300, Loss 0.0032682064920663834, lr 0.0001
Epoch 702400, Loss 0.008446241728961468, lr 0.0001
Epoch 702500, Loss 0.004408542066812515, lr 0.0001
Epoch 702600, Loss 0.019543586298823357, lr 0.0001
Epoch 702700, Loss 0.003294317750260234, lr 0.0001
Epoch 702800, Loss 0.0038985228165984154, lr 0.0001

Epoch 702900, Loss 0.06546074151992798, lr 0.0001
Epoch 703000, Loss 0.0032770102843642235, lr 0.0001
Epoch 703100, Loss 0.006958813406527042, lr 0.0001
Epoch 703200, Loss 0.0032648034393787384, lr 0.0001
Epoch 703300, Loss 0.01894333027303219, lr 0.0001
Epoch 703400, Loss 0.0034140916541218758, lr 0.0001
Epoch 703500, Loss 0.0033741274382919073, lr 0.0001
Epoch 703600, Loss 0.0032917382195591927, lr 0.0001
Epoch 703700, Loss 0.01136505976319313, lr 0.0001
Epoch 703800, Loss 0.003306194208562374, lr 0.0001
Epoch 703900, Loss 0.10655419528484344, lr 0.0001
Epoch 704000, Loss 0.0033128634095191956, lr 0.0001
Epoch 704100, Loss 0.003725375048816204, lr 0.0001
Epoch 704200, Loss 0.0057126241736114025, lr 0.0001
Epoch 704300, Loss 0.003351453924551606, lr 0.0001
Epoch 704400, Loss 0.0042198942974209785, lr 0.0001
Epoch 704500, Loss 0.011562785133719444, lr 0.0001
Epoch 704600, Loss 0.004533494357019663, lr 0.0001
Epoch 704700, Loss 0.04545358195900917, lr 0.0001
Epoch 704800, Loss 0.0032603645231574774, lr 0.0001
Epoch 704900, Loss 0.05816955491900444, lr 0.0001
Epoch 705000, Loss 0.0033073851373046637, lr 0.0001
Epoch 705100, Loss 0.003256620606407523, lr 0.0001
Epoch 705200, Loss 0.1384221911430359, lr 0.0001
Epoch 705300, Loss 0.003279697149991989, lr 0.0001
Epoch 705400, Loss 0.0032550818286836147, lr 0.0001
Epoch 705500, Loss 0.003253102535381913, lr 0.0001
Epoch 705600, Loss 0.0032565314322710037, lr 0.0001
Epoch 705700, Loss 0.005108214914798737, lr 0.0001
Epoch 705800, Loss 0.003256994765251875, lr 0.0001
Epoch 705900, Loss 0.007130755577236414, lr 0.0001
Epoch 706000, Loss 0.0032546152360737324, lr 0.0001
Epoch 706100, Loss 0.03441677615046501, lr 0.0001
Epoch 706200, Loss 0.10235260426998138, lr 0.0001
Epoch 706300, Loss 0.027158090844750404, lr 0.0001
Epoch 706400, Loss 0.003278116462752223, lr 0.0001
Epoch 706500, Loss 0.0034986520186066628, lr 0.0001
Epoch 706600, Loss 0.04225733503699303, lr 0.0001
Epoch 706700, Loss 0.004614387173205614, lr 0.0001
Epoch 706800, Loss 0.0050687710754573345, lr 0.0001
Epoch 706900, Loss 0.1165655255317688, lr 0.0001
Epoch 707000, Loss 0.003303233301267028, lr 0.0001
Epoch 707100, Loss 0.0033103283494710922, lr 0.0001
Epoch 707200, Loss 0.536226212978363, lr 0.0001
Epoch 707300, Loss 0.003264126367866993, lr 0.0001
Epoch 707400, Loss 0.05022263526916504, lr 0.0001
Epoch 707500, Loss 0.003249473636969924, lr 0.0001
Epoch 707600, Loss 0.003249423811212182, lr 0.0001

Epoch 707700, Loss 0.0033397667575627565, lr 0.0001
Epoch 707800, Loss 0.0918530821800232, lr 0.0001
Epoch 707900, Loss 0.0032574660144746304, lr 0.0001
Epoch 708000, Loss 0.0032460703514516354, lr 0.0001
Epoch 708100, Loss 0.0050063300877809525, lr 0.0001
Epoch 708200, Loss 0.0032462403178215027, lr 0.0001
Epoch 708300, Loss 0.0032513984479010105, lr 0.0001
Epoch 708400, Loss 0.006848246790468693, lr 0.0001
Epoch 708500, Loss 0.0032447727862745523, lr 0.0001
Epoch 708600, Loss 0.215080127120018, lr 0.0001
Epoch 708700, Loss 0.0032489304430782795, lr 0.0001
Epoch 708800, Loss 0.003242572769522667, lr 0.0001
Epoch 708900, Loss 0.0032435005996376276, lr 0.0001
Epoch 709000, Loss 0.04216877743601799, lr 0.0001
Epoch 709100, Loss 0.0032482773531228304, lr 0.0001
Epoch 709200, Loss 0.003243019338697195, lr 0.0001
Epoch 709300, Loss 0.0032444812823086977, lr 0.0001
Epoch 709400, Loss 0.0032414088491350412, lr 0.0001
Epoch 709500, Loss 0.003239972982555628, lr 0.0001
Epoch 709600, Loss 0.0033361115492880344, lr 0.0001
Epoch 709700, Loss 0.17553925514221191, lr 0.0001
Epoch 709800, Loss 0.003248882479965687, lr 0.0001
Epoch 709900, Loss 0.0032418151386082172, lr 0.0001
Epoch 710000, Loss 0.004597686696797609, lr 0.0001
Epoch 710100, Loss 0.0032415103632956743, lr 0.0001
Epoch 710200, Loss 0.003239306854084134, lr 0.0001
Epoch 710300, Loss 0.003239621873944998, lr 0.0001
Epoch 710400, Loss 0.0032390879932790995, lr 0.0001
Epoch 710500, Loss 0.3692238926887512, lr 0.0001
Epoch 710600, Loss 0.0032522156834602356, lr 0.0001
Epoch 710700, Loss 0.0032377808820456266, lr 0.0001
Epoch 710800, Loss 0.0032388248946517706, lr 0.0001
Epoch 710900, Loss 0.003237986471503973, lr 0.0001
Epoch 711000, Loss 0.02719893679022789, lr 0.0001
Epoch 711100, Loss 0.017219748347997665, lr 0.0001
Epoch 711200, Loss 0.006106161046773195, lr 0.0001
Epoch 711300, Loss 0.01616811938583851, lr 0.0001
Epoch 711400, Loss 0.04467873275279999, lr 0.0001
Epoch 711500, Loss 0.0032529376912862062, lr 0.0001
Epoch 711600, Loss 0.0037796441465616226, lr 0.0001
Epoch 711700, Loss 0.02977105602622032, lr 0.0001
Epoch 711800, Loss 0.008717615157365799, lr 0.0001
Epoch 711900, Loss 0.0032881128136068583, lr 0.0001
Epoch 712000, Loss 0.12094143033027649, lr 0.0001
Epoch 712100, Loss 0.003266324521973729, lr 0.0001
Epoch 712200, Loss 0.0032319945748895407, lr 0.0001
Epoch 712300, Loss 0.10906895995140076, lr 0.0001
Epoch 712400, Loss 0.003234542440623045, lr 0.0001

Epoch 712500, Loss 0.0032333005219697952, lr 0.0001
Epoch 712600, Loss 0.0032328430097550154, lr 0.0001
Epoch 712700, Loss 0.0032322066836059093, lr 0.0001
Epoch 712800, Loss 0.0032584911677986383, lr 0.0001
Epoch 712900, Loss 0.003235224401578307, lr 0.0001
Epoch 713000, Loss 0.003328748047351837, lr 0.0001
Epoch 713100, Loss 0.0032376607414335012, lr 0.0001
Epoch 713200, Loss 0.003230427857488394, lr 0.0001
Epoch 713300, Loss 0.13717646896839142, lr 0.0001
Epoch 713400, Loss 0.00323638878762722, lr 0.0001
Epoch 713500, Loss 0.0032306364737451077, lr 0.0001
Epoch 713600, Loss 0.0032302523031830788, lr 0.0001
Epoch 713700, Loss 0.17140623927116394, lr 0.0001
Epoch 713800, Loss 0.0032960015814751387, lr 0.0001
Epoch 713900, Loss 0.0032655056565999985, lr 0.0001
Epoch 714000, Loss 0.003241753438487649, lr 0.0001
Epoch 714100, Loss 0.0035315239802002907, lr 0.0001
Epoch 714200, Loss 0.003227582899853587, lr 0.0001
Epoch 714300, Loss 0.003422160865738988, lr 0.0001
Epoch 714400, Loss 0.0044969781301915646, lr 0.0001
Epoch 714500, Loss 0.05564283952116966, lr 0.0001
Epoch 714600, Loss 0.003267344320192933, lr 0.0001
Epoch 714700, Loss 0.02308836206793785, lr 0.0001
Epoch 714800, Loss 0.0032451350707560778, lr 0.0001
Epoch 714900, Loss 0.00918077863752842, lr 0.0001
Epoch 715000, Loss 0.0032330513931810856, lr 0.0001
Epoch 715100, Loss 0.003806090448051691, lr 0.0001
Epoch 715200, Loss 0.009231090545654297, lr 0.0001
Epoch 715300, Loss 0.10536425560712814, lr 0.0001
Epoch 715400, Loss 0.003418091218918562, lr 0.0001
Epoch 715500, Loss 0.003367312252521515, lr 0.0001
Epoch 715600, Loss 0.018873736262321472, lr 0.0001
Epoch 715700, Loss 0.003591265995055437, lr 0.0001
Epoch 715800, Loss 0.004114008508622646, lr 0.0001
Epoch 715900, Loss 0.0034700625110417604, lr 0.0001
Epoch 716000, Loss 0.005086424294859171, lr 0.0001
Epoch 716100, Loss 0.004143517930060625, lr 0.0001
Epoch 716200, Loss 0.0033047946635633707, lr 0.0001
Epoch 716300, Loss 0.0032190035562962294, lr 0.0001
Epoch 716400, Loss 0.010691085830330849, lr 0.0001
Epoch 716500, Loss 0.0032573919743299484, lr 0.0001
Epoch 716600, Loss 0.003218495287001133, lr 0.0001
Epoch 716700, Loss 0.0032209251075983047, lr 0.0001
Epoch 716800, Loss 0.0032195679377764463, lr 0.0001
Epoch 716900, Loss 0.0033924011513590813, lr 0.0001
Epoch 717000, Loss 0.003217288525775075, lr 0.0001
Epoch 717100, Loss 0.004415713716298342, lr 0.0001
Epoch 717200, Loss 0.003215489909052849, lr 0.0001

```
Epoch 717300, Loss 0.014487790875136852, lr 0.0001
Epoch 717400, Loss 0.003217843594029546, lr 0.0001
Epoch 717500, Loss 0.0032177921384572983, lr 0.0001
Epoch 717600, Loss 0.004583642818033695, lr 0.0001
Epoch 717700, Loss 0.003214568132534623, lr 0.0001
Epoch 717800, Loss 0.0032140042167156935, lr 0.0001
Epoch 717900, Loss 0.00683256983757019, lr 0.0001
Epoch 718000, Loss 0.003337714122608304, lr 0.0001
Epoch 718100, Loss 0.02368343621492386, lr 0.0001
```

```
-----
KeyboardInterrupt                                Traceback (most recent call last)
Cell In[359], line 26
    22 loss_ic2 = torch.mean((Y_pred2[0] - Y_sub_t[0])**2)
    24 loss2 = 30*loss_ode2 + loss_ic2
--> 26 loss2.backward()
    27 optimizer2.step()
    28 scheduler2.step(loss2)

File ~/anaconda3/envs/ml/lib/python3.12/site-packages/torch/_tensor.py:522, in
Tensor.backward(self, gradient, retain_graph, create_graph, inputs)
    512 if has_torch_function_unary(self):
    513     return handle_torch_function(
    514         Tensor.backward,
    515         (self,),
    (...)
    520         inputs=inputs,
    521     )
--> 522 torch.autograd.backward(
    523     self, gradient, retain_graph, create_graph, inputs=inputs
    524 )

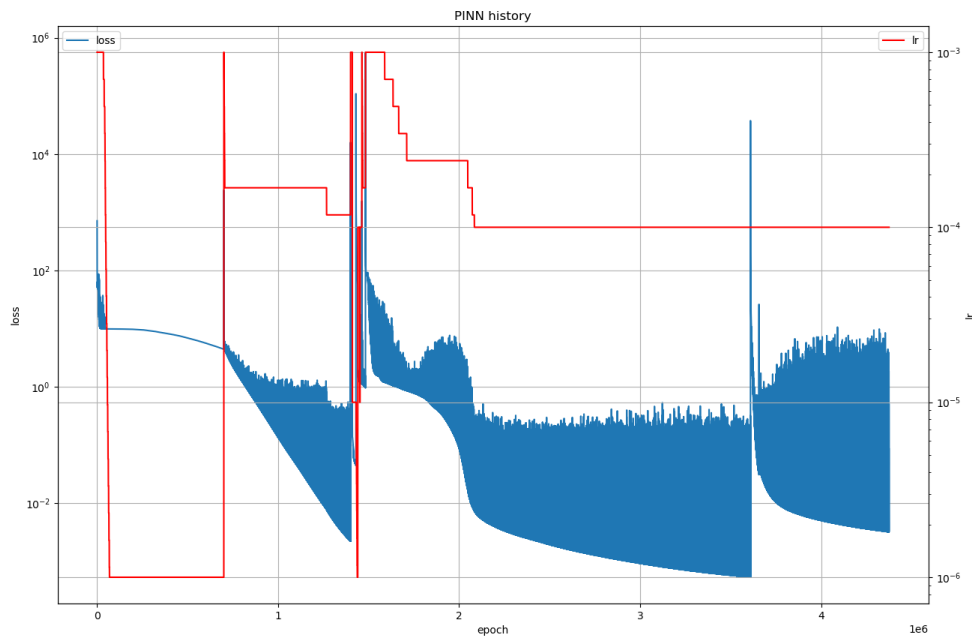
File ~/anaconda3/envs/ml/lib/python3.12/site-packages/torch/autograd/__init__.py:
266, in backward(tensors, grad_tensors, retain_graph, create_graph,
grad_variables, inputs)
    261     retain_graph = create_graph
    263 # The reason we repeat the same comment below is that
    264 # some Python versions print out the first line of a multi-line function
    265 # calls in the traceback and some print out the last line
--> 266 Variable._execution_engine.run_backward( # Calls into the C++ engine to
run the backward pass
    267     tensors,
    268     grad_tensors_,
    269     retain_graph,
    270     create_graph,
    271     inputs,
    272     allow_unreachable=True,
    273     accumulate_grad=True,
```

KeyboardInterrupt:

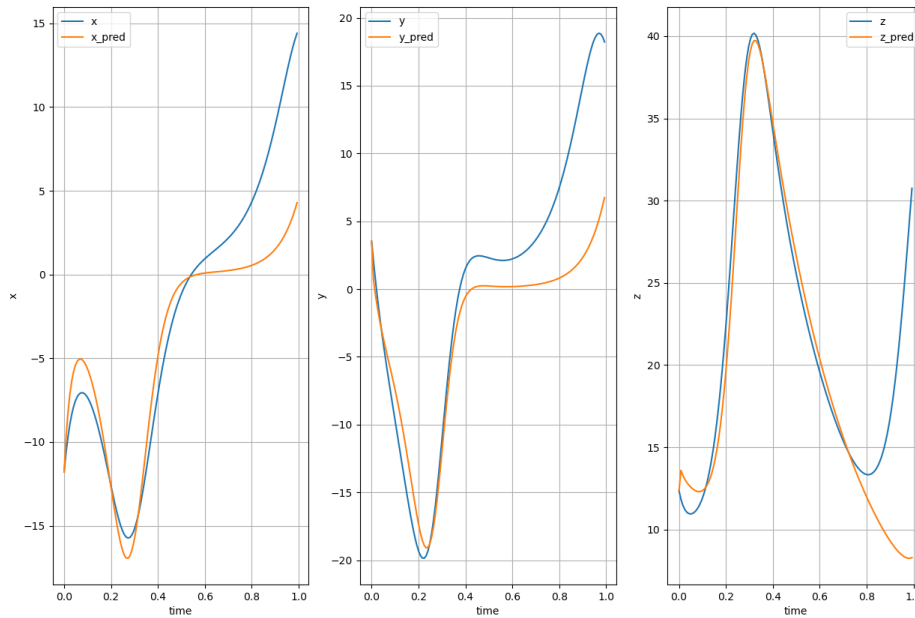
```
[360]: # plot history_PINN2 loss and lr in two subplots
history_PINN2 = np.array(history_PINN2)
if True:
    fig, ax = plt.subplots(figsize=(15, 10))
    # plot the loss
    ax.plot(history_PINN2[:, 0], label='loss')
    ax.legend(loc='upper left')
    ax.set_yscale('log')
    ax.set_xlabel('epoch')
    ax.set_ylabel('loss')
    plt.grid()

    # plot the learning rate
    ax2 = ax.twinx()
    ax2.plot(history_PINN2[:, -1], label='lr', color='r')
    ax2.set_yscale('log')
    ax2.set_ylabel('lr')
    # legend to the right
    ax2.legend(loc='upper right')
    plt.grid()
    plt.title('PINN history')

# history to list
history_PINN2 = history_PINN2.tolist()
```



```
[362]: # show prediction
if True:
    Y_pred2 = model2(X_sub_t2).detach().numpy()
    plot_compare_components(X_sub2, Y_sub2, Y_pred2)
```



```
[366]: optimizer2.zero_grad()
X_sub_t2.requires_grad = True
Y_pred2 = model2(X_sub_t2)

dx_dt_pred2 = torch.autograd.grad(Y_pred2[:,0], X_sub_t2, grad_outputs=torch.
    ↪ones_like(Y_pred2[:,0]), create_graph=True)[0]
dy_dt_pred2 = torch.autograd.grad(Y_pred2[:,1], X_sub_t2, grad_outputs=torch.
    ↪ones_like(Y_pred2[:,1]), create_graph=True)[0]
dz_dt_pred2 = torch.autograd.grad(Y_pred2[:,2], X_sub_t2, grad_outputs=torch.
    ↪ones_like(Y_pred2[:,2]), create_graph=True)[0]

# get true derivatives, using the lorenz parameter
dx_dt_ode2 = 20 * (Y_pred2[:,1] - Y_pred2[:,0])
dy_dt_ode2 = Y_pred2[:,0] * (28 - Y_pred2[:,2]) - Y_pred2[:,1]
dz_dt_ode2 = Y_pred2[:,0] * Y_pred2[:,1] - 8/3 * Y_pred2[:,2]

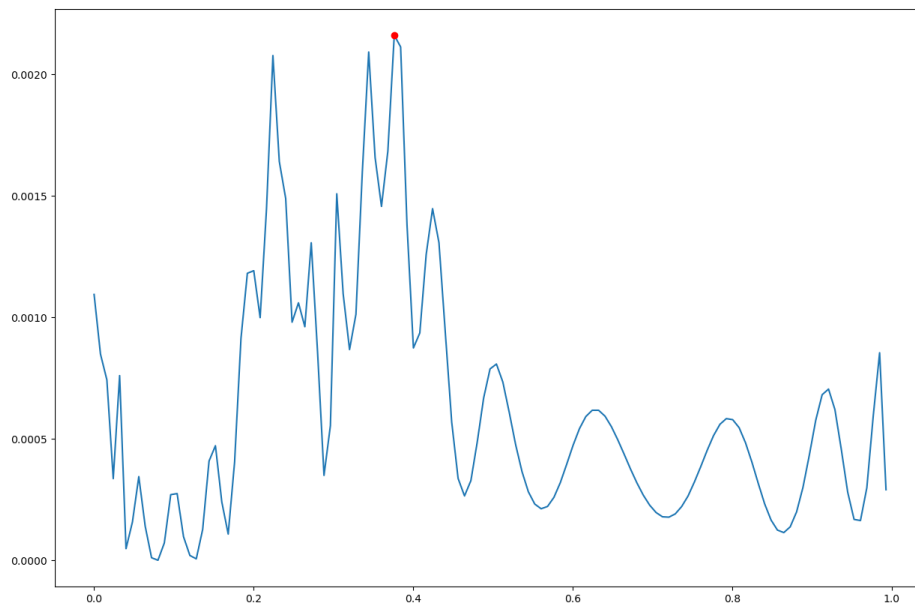
# loss ode
loss_ode_1 = (dx_dt_pred2[:,0] - dx_dt_ode2)**2 + (dy_dt_pred2[:,0] -
    ↪dy_dt_ode2)**2 + loss_fn(dz_dt_pred2[:,0], dz_dt_ode2)**2

# plot loss_ode_1
plt.figure(figsize=(15, 10))
```

```
plt.plot(X_sub_t2.detach().numpy(), loss_ode_1.detach().numpy(), label='loss_ode_1')

# get the maximum index, and plot a red dot
max_index = np.argmax(loss_ode_1.detach().numpy())
plt.plot(X_sub_t2.detach().numpy()[max_index], loss_ode_1.detach().numpy()[max_index], 'ro')
```

[366]: [<matplotlib.lines.Line2D at 0x7f24d3e692e0>]



```
[403]: # get the predicted state for the maximum index
max_index = 45
Y_pred2[max_index]
# evolve with the Lorenz function, use scipy ivp_solve
sol_max = sp.integrate.solve_ivp(lorenz, [X_sub2[max_index], 1], Y_pred2.
    detach().numpy()[max_index:], t_eval=X_sub2[max_index:])

# plot the solution
plt.figure(figsize=(15, 10))
plt.subplot(131)
plt.plot(sol_max.t, sol_max.y[0], label='x hp', marker='o')
# plot the predicted solution
plt.plot(X_sub2, Y_pred2.detach().numpy()[:, 0], label='x_pred')
```

```

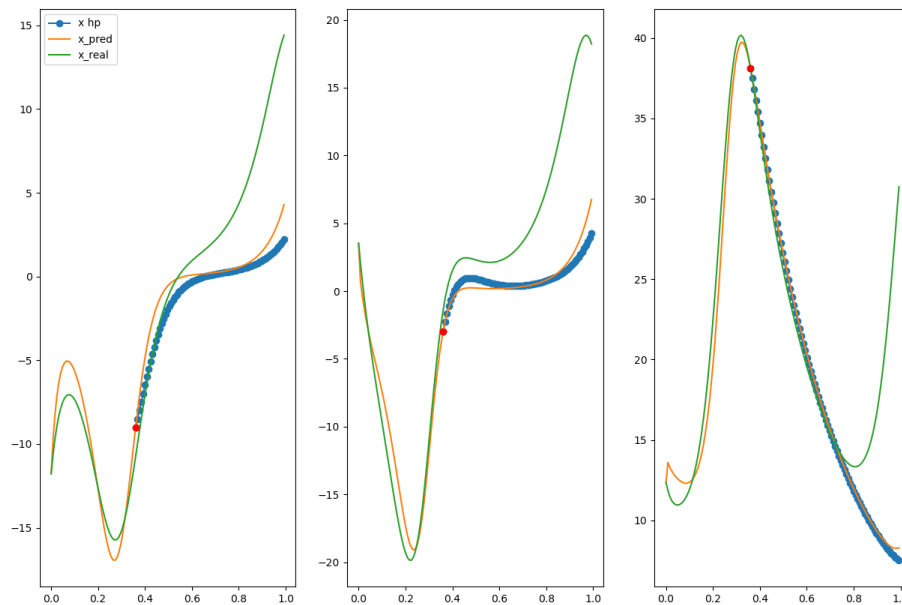
# plot x real
plt.plot(X_sub2, Y_sub2[:,0], label='x_real')
# red dot in the maximum index
plt.plot(X_sub2[max_index], Y_pred2.detach().numpy()[max_index,0], 'ro')
plt.legend()

# do all the same for y
plt.subplot(132)
plt.plot(sol_max.t, sol_max.y[1], label='y hp', marker='o')
plt.plot(X_sub2, Y_pred2.detach().numpy()[:,1], label='y_pred')
plt.plot(X_sub2, Y_sub2[:,1], label='y_real')
plt.plot(X_sub2[max_index], Y_pred2.detach().numpy()[max_index,1], 'ro')

# do all the same for z
plt.subplot(133)
plt.plot(sol_max.t, sol_max.y[2], label='z hp', marker='o')
plt.plot(X_sub2, Y_pred2.detach().numpy()[:,2], label='z_pred')
plt.plot(X_sub2, Y_sub2[:,2], label='z_real')
plt.plot(X_sub2[max_index], Y_pred2.detach().numpy()[max_index,2], 'ro')

```

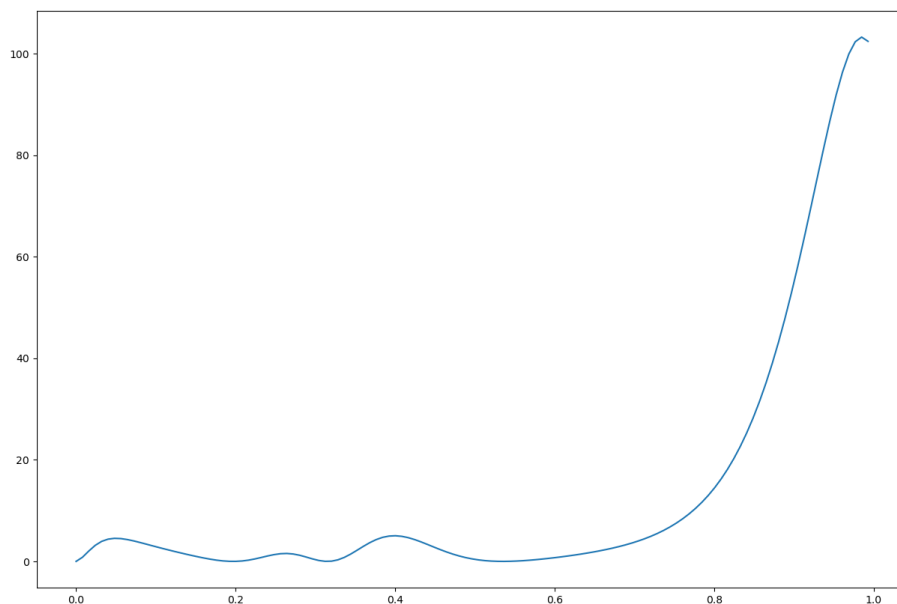
[403]: [<matplotlib.lines.Line2D at 0x7f24bd2a5490>]




```
[384]: # get the vector of square differences between the Y_sub and Y_pred2
diffs = (Y_sub2 - Y_pred2.detach().numpy())**2

# plot the diffs
plt.figure(figsize=(15, 10))
plt.plot(X_sub2, diffs[:,0], label='diffs_x')
```

```
[384]: [<matplotlib.lines.Line2D at 0x7f24c265ec30>]
```



0.5 expanding timeseries while learning

b

```
[228]: # make new model
history_PINN3 = []

model3 = FFNN(n_layers, n_neurons)

[229]: # define the optimizer2 and scheduler2
optimizer3 = torch.optim.Adam(model3.parameters(), lr=0.01)
scheduler3 = torch.optim.lr_scheduler.ReduceLROnPlateau(optimizer3, 'min',
↪ factor=0.7, patience=700, min_lr=1e-6)
```

```
[ ]: num_points = 4
X_temp = X[:4]
Y_temp = Y[:4]
# to torch
X_temp_t = torch.tensor(X_temp, dtype=torch.float32).view(-1, 1)
Y_temp_t = torch.tensor(Y_temp, dtype=torch.float32)
```

```
[284]: for epoch in range(10000):

    X_temp = X[:num_points]
    Y_temp = Y[:num_points]
    # to torch
    X_temp_t = torch.tensor(X_temp, dtype=torch.float32).view(-1, 1)
    Y_temp_t = torch.tensor(Y_temp, dtype=torch.float32)

    optimizer3.zero_grad()
    X_temp_t.requires_grad = True
    Y_pred3 = model3(X_temp_t)

    # get the derivatives
    dx_dt_pred3 = torch.autograd.grad(Y_pred3[:,0], X_temp_t, ↵
    ↪grad_outputs=torch.ones_like(Y_pred3[:,0]), create_graph=True)[0]
    dy_dt_pred3 = torch.autograd.grad(Y_pred3[:,1], X_temp_t, ↵
    ↪grad_outputs=torch.ones_like(Y_pred3[:,1]), create_graph=True)[0]
    dz_dt_pred3 = torch.autograd.grad(Y_pred3[:,2], X_temp_t, ↵
    ↪grad_outputs=torch.ones_like(Y_pred3[:,2]), create_graph=True)[0]

    # get true derivatives, using the lorenz parameter
    dx_dt_ode3 = 10 * (Y_pred3[:,1] - Y_pred3[:,0])
    dy_dt_ode3 = Y_pred3[:,0] * (28 - Y_pred3[:,2]) - Y_pred3[:,1]
    dz_dt_ode3 = Y_pred3[:,0] * Y_pred3[:,1] - 8/3 * Y_pred3[:,2]

    # loss ode
    loss_ode3 = loss_fn(dx_dt_pred3[:,0], dx_dt_ode3) + loss_fn(dy_dt_pred3[:,
    ↪0], dy_dt_ode3) + loss_fn(dz_dt_pred3[:,0], dz_dt_ode3)

    # add loss ic
    loss_ic3 = torch.mean((Y_pred3[0] - Y_temp_t[0])**2)

    loss3 = 20*loss_ode3 + loss_ic3

    loss3.backward()
    optimizer3.step()
    scheduler3.step(loss3)
```

```

        history_PINN3.append([loss3.item(), loss_ode3.detach().numpy(), loss_ic3.
↪detach().numpy(), optimizer3.param_groups[0]["lr"]])

    if epoch % 100 == 0:
        print(f'Epoch {epoch}, Loss {loss3.item()}, lr {optimizer3.
↪param_groups[0]["lr"]}')

    if loss3 < 0.03:
        num_points = num_points + 1
        # print augmented num_points
        print(f'num_points = {num_points}')
        optimizer3 = torch.optim.Adam(model3.parameters(), lr=0.00001)
        scheduler3 = torch.optim.lr_scheduler.ReduceLROnPlateau(optimizer3,
↪'min', factor=0.7, patience=700, min_lr=1e-6)

```

```

Epoch 0, Loss 0.05682818591594696, lr 5e-05
Epoch 100, Loss 0.05667384713888168, lr 5e-05
Epoch 200, Loss 0.05800443887710571, lr 5e-05
Epoch 300, Loss 0.0730244368314743, lr 5e-05
Epoch 400, Loss 0.056131765246391296, lr 5e-05
Epoch 500, Loss 0.055962949991226196, lr 5e-05
Epoch 600, Loss 0.05582866817712784, lr 5e-05
Epoch 700, Loss 0.05567150563001633, lr 5e-05
Epoch 800, Loss 0.05546913295984268, lr 5e-05
Epoch 900, Loss 0.05727235972881317, lr 5e-05
Epoch 1000, Loss 0.05633886158466339, lr 5e-05
Epoch 1100, Loss 0.05646880716085434, lr 5e-05
Epoch 1200, Loss 0.05556924641132355, lr 5e-05
Epoch 1300, Loss 0.054642096161842346, lr 5e-05
Epoch 1400, Loss 0.05491884797811508, lr 5e-05
Epoch 1500, Loss 0.054427288472652435, lr 5e-05
Epoch 1600, Loss 0.05426447093486786, lr 5e-05
Epoch 1700, Loss 0.05411770939826965, lr 5e-05
Epoch 1800, Loss 0.05445079505443573, lr 5e-05
Epoch 1900, Loss 0.05369365215301514, lr 5e-05
Epoch 2000, Loss 0.0536000020802021, lr 5e-05
Epoch 2100, Loss 0.053465720266103745, lr 5e-05
Epoch 2200, Loss 0.053221847862005234, lr 5e-05
Epoch 2300, Loss 0.05439591035246849, lr 5e-05
Epoch 2400, Loss 0.056058745831251144, lr 5e-05
Epoch 2500, Loss 0.05280758813023567, lr 5e-05
Epoch 2600, Loss 0.052624501287937164, lr 5e-05
Epoch 2700, Loss 0.052516624331474304, lr 5e-05
Epoch 2800, Loss 0.052307866513729095, lr 5e-05
Epoch 2900, Loss 0.05281587317585945, lr 5e-05
Epoch 3000, Loss 0.052022069692611694, lr 5e-05
Epoch 3100, Loss 0.051875531673431396, lr 5e-05

```

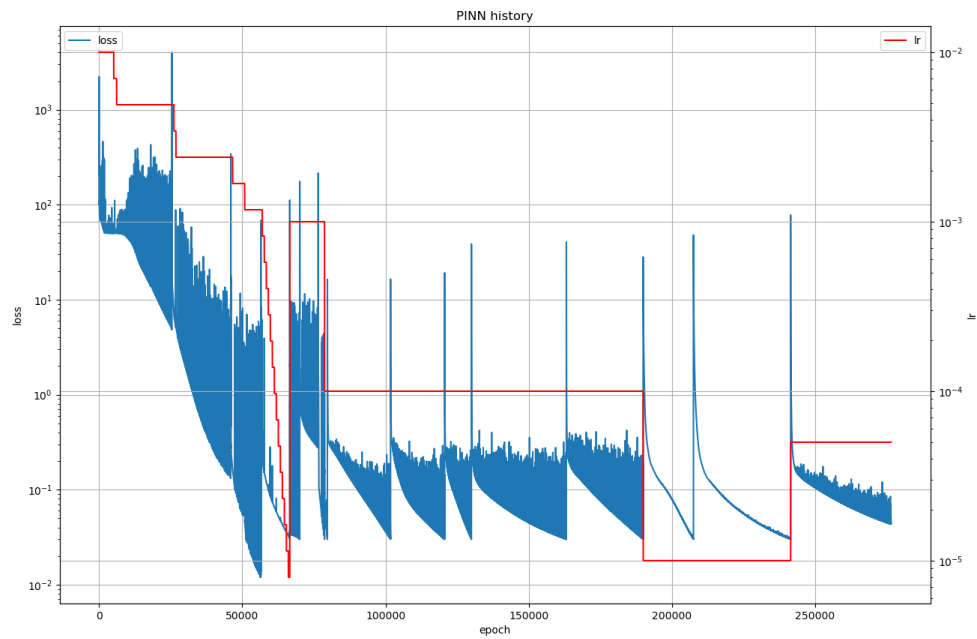
Epoch 3200, Loss 0.053885456174612045, lr 5e-05
Epoch 3300, Loss 0.05246049538254738, lr 5e-05
Epoch 3400, Loss 0.05154692754149437, lr 5e-05
Epoch 3500, Loss 0.05128456652164459, lr 5e-05
Epoch 3600, Loss 0.05256080627441406, lr 5e-05
Epoch 3700, Loss 0.05101782828569412, lr 5e-05
Epoch 3800, Loss 0.05087460204958916, lr 5e-05
Epoch 3900, Loss 0.05073758214712143, lr 5e-05
Epoch 4000, Loss 0.05155913904309273, lr 5e-05
Epoch 4100, Loss 0.052496813237667084, lr 5e-05
Epoch 4200, Loss 0.05200105160474777, lr 5e-05
Epoch 4300, Loss 0.050247129052877426, lr 5e-05
Epoch 4400, Loss 0.05591772124171257, lr 5e-05
Epoch 4500, Loss 0.049886152148246765, lr 5e-05
Epoch 4600, Loss 0.05002766102552414, lr 5e-05
Epoch 4700, Loss 0.04964644834399223, lr 5e-05
Epoch 4800, Loss 0.04948671534657478, lr 5e-05
Epoch 4900, Loss 0.04948825761675835, lr 5e-05
Epoch 5000, Loss 0.0582643486559391, lr 5e-05
Epoch 5100, Loss 0.04924319311976433, lr 5e-05
Epoch 5200, Loss 0.049951039254665375, lr 5e-05
Epoch 5300, Loss 0.05042913928627968, lr 5e-05
Epoch 5400, Loss 0.04867294803261757, lr 5e-05
Epoch 5500, Loss 0.05455829203128815, lr 5e-05
Epoch 5600, Loss 0.04841965064406395, lr 5e-05
Epoch 5700, Loss 0.048309326171875, lr 5e-05
Epoch 5800, Loss 0.04969193786382675, lr 5e-05
Epoch 5900, Loss 0.048131804913282394, lr 5e-05
Epoch 6000, Loss 0.04808070510625839, lr 5e-05
Epoch 6100, Loss 0.04896518588066101, lr 5e-05
Epoch 6200, Loss 0.047641195356845856, lr 5e-05
Epoch 6300, Loss 0.04756637662649155, lr 5e-05
Epoch 6400, Loss 0.04774368554353714, lr 5e-05
Epoch 6500, Loss 0.047262147068977356, lr 5e-05
Epoch 6600, Loss 0.047149404883384705, lr 5e-05
Epoch 6700, Loss 0.047824759036302567, lr 5e-05
Epoch 6800, Loss 0.052481651306152344, lr 5e-05
Epoch 6900, Loss 0.046774234622716904, lr 5e-05
Epoch 7000, Loss 0.0472923181951046, lr 5e-05
Epoch 7100, Loss 0.04653845354914665, lr 5e-05
Epoch 7200, Loss 0.05096813291311264, lr 5e-05
Epoch 7300, Loss 0.04766881465911865, lr 5e-05
Epoch 7400, Loss 0.046183403581380844, lr 5e-05
Epoch 7500, Loss 0.04633710905909538, lr 5e-05
Epoch 7600, Loss 0.046071454882621765, lr 5e-05
Epoch 7700, Loss 0.08886969089508057, lr 5e-05
Epoch 7800, Loss 0.045700445771217346, lr 5e-05
Epoch 7900, Loss 0.046258408576250076, lr 5e-05

```
Epoch 8000, Loss 0.04846999794244766, lr 5e-05
Epoch 8100, Loss 0.045352522283792496, lr 5e-05
Epoch 8200, Loss 0.04584433510899544, lr 5e-05
Epoch 8300, Loss 0.049743764102458954, lr 5e-05
Epoch 8400, Loss 0.045013800263404846, lr 5e-05
Epoch 8500, Loss 0.044940706342458725, lr 5e-05
Epoch 8600, Loss 0.044945128262043, lr 5e-05
Epoch 8700, Loss 0.0447114072740078, lr 5e-05
Epoch 8800, Loss 0.04458579793572426, lr 5e-05
Epoch 8900, Loss 0.04483956843614578, lr 5e-05
Epoch 9000, Loss 0.044357284903526306, lr 5e-05
Epoch 9100, Loss 0.04428147152066231, lr 5e-05
Epoch 9200, Loss 0.0450231172144413, lr 5e-05
Epoch 9300, Loss 0.04511570930480957, lr 5e-05
Epoch 9400, Loss 0.043898481875658035, lr 5e-05
Epoch 9500, Loss 0.044519905000925064, lr 5e-05
Epoch 9600, Loss 0.046947453171014786, lr 5e-05
Epoch 9700, Loss 0.04358098283410072, lr 5e-05
Epoch 9800, Loss 0.04533827677369118, lr 5e-05
Epoch 9900, Loss 0.04335824400186539, lr 5e-05
```

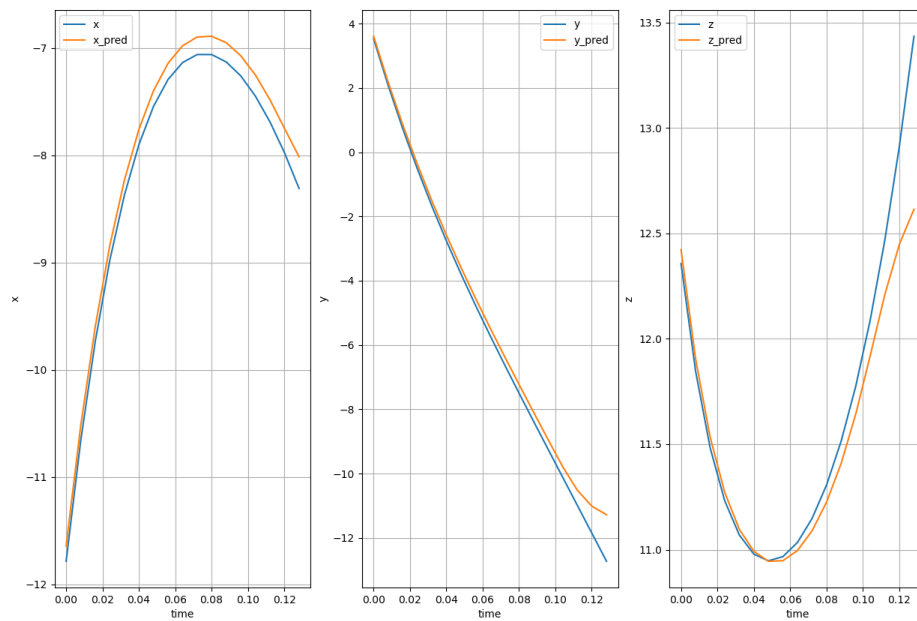
```
[285]: # plot history_PINN3 loss and lr in two subplots
history_PINN3 = np.array(history_PINN3)
fig, ax = plt.subplots(figsize=(15, 10))
# plot the loss
ax.plot(history_PINN3[:, 0], label='loss')
ax.legend(loc='upper left')
ax.set_yscale('log')
ax.set_xlabel('epoch')
ax.set_ylabel('loss')
plt.grid()

# plot the learning rate
ax2 = ax.twinx()
ax2.plot(history_PINN3[:, -1], label='lr', color='r')
ax2.set_yscale('log')
ax2.set_ylabel('lr')
# legend to the right
ax2.legend(loc='upper right')
plt.grid()
plt.title('PINN history')

# history to list
history_PINN3 = history_PINN3.tolist()
```



```
[286]: # show prediction
Y_pred3 = model3(X_sub_t).detach().numpy()
plot_compare_components(X_sub, Y_sub, Y_pred3)
```



```
[493]: history_PINN4 = []
```

```
[494]: model4 = FFNN(n_layers, n_neurons)
```

```
# define the optimizer2 and scheduler2
optimizer4 = torch.optim.Adam(model4.parameters(), lr=0.001)
scheduler4 = torch.optim.lr_scheduler.ReduceLROnPlateau(optimizer4, 'min',
↪ factor=0.7, patience=700, min_lr=1e-6)
```

```
[498]: # redo all for model4
```

```
# select only time < 2, random points
X_sub4 = 0.12*np.random.rand(10000)
# set the first point to 0
X_sub4[0] = 0
Y_sub4 = np.random.rand(10000, 3)
# set the first point to the lorenz attractor
Y_sub4[0] = Y[0]
```

```

# to torch
X_sub_t4 = torch.tensor(X_sub4, dtype=torch.float32).view(-1, 1)
Y_sub_t4 = torch.tensor(Y_sub4, dtype=torch.float32)

for epoch in range(1000):

    optimizer4.zero_grad()
    X_sub_t4.requires_grad = True
    Y_pred4 = model4(X_sub_t4)

    # get the derivatives
    dx_dt_pred4 = torch.autograd.grad(Y_pred4[:,0], X_sub_t4, ↵
    ↵grad_outputs=torch.ones_like(Y_pred4[:,0]), create_graph=True)[0]
    dy_dt_pred4 = torch.autograd.grad(Y_pred4[:,1], X_sub_t4, ↵
    ↵grad_outputs=torch.ones_like(Y_pred4[:,1]), create_graph=True)[0]
    dz_dt_pred4 = torch.autograd.grad(Y_pred4[:,2], X_sub_t4, ↵
    ↵grad_outputs=torch.ones_like(Y_pred4[:,2]), create_graph=True)[0]

    # get true derivatives, using the lorenz parameter
    dx_dt_ode4 = 10 * (Y_pred4[:,1] - Y_pred4[:,0])
    dy_dt_ode4 = Y_pred4[:,0] * (28 - Y_pred4[:,2]) - Y_pred4[:,1]
    dz_dt_ode4 = Y_pred4[:,0] * Y_pred4[:,1] - 8/3 * Y_pred4[:,2]

    # loss ode
    loss_ode4 = loss_fn(dx_dt_pred4[:,0], dx_dt_ode4) + loss_fn(dy_dt_pred4[
    ↵,0], dy_dt_ode4) + loss_fn(dz_dt_pred4[:,0], dz_dt_ode4)

    # add loss ic
    loss_ic4 = torch.mean((Y_pred4[0] - Y_sub_t4[0])**2)

    loss4 = 20*loss_ode4 + loss_ic4

    loss4.backward()
    optimizer4.step()
    scheduler4.step(loss4)

    history_PINN4.append([loss4.item(), loss_ode4.detach().numpy(), loss_ic4.
    ↵detach().numpy(), optimizer4.param_groups[0]["lr"]])

    if epoch % 100 == 0:
        print(f'Epoch {epoch}, Loss {loss4.item()}, lr {optimizer4.
    ↵param_groups[0]["lr"]}')

```

```

Epoch 0, Loss 51.21891403198242, lr 0.001
Epoch 100, Loss 53.060325622558594, lr 0.001
Epoch 200, Loss 50.58633804321289, lr 0.001
Epoch 300, Loss 50.54131317138672, lr 0.001

```

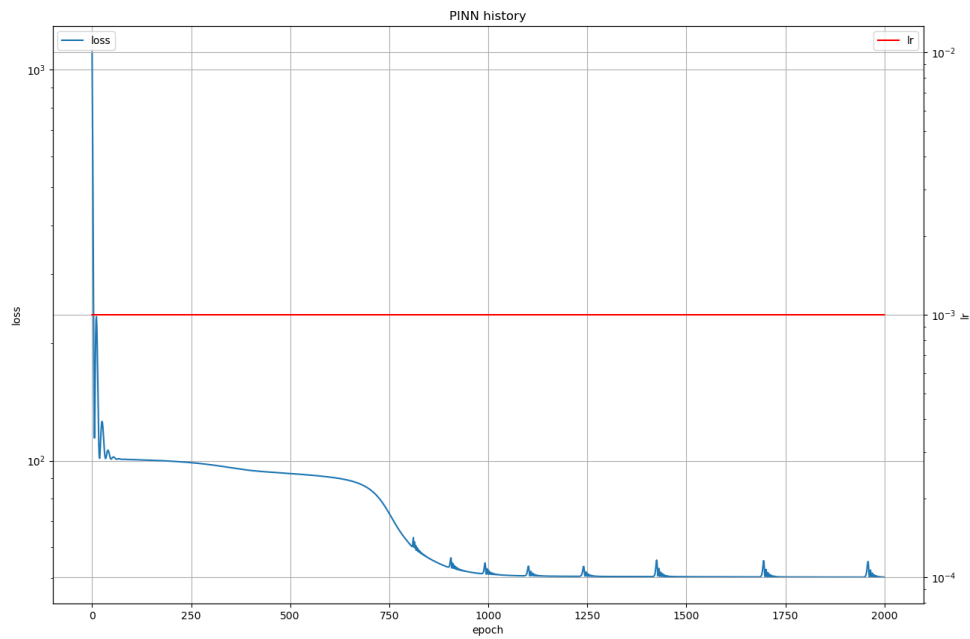


```
Epoch 400, Loss 50.49521255493164, lr 0.001
Epoch 500, Loss 50.466522216796875, lr 0.001
Epoch 600, Loss 50.43128204345703, lr 0.001
Epoch 700, Loss 51.643653869628906, lr 0.001
Epoch 800, Loss 50.37129592895508, lr 0.001
Epoch 900, Loss 50.339691162109375, lr 0.001
```

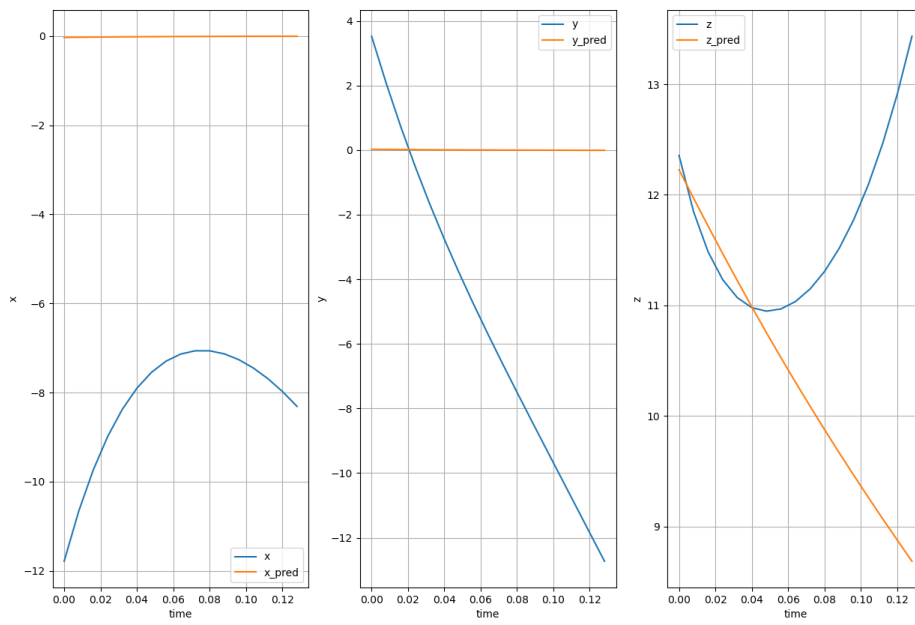
```
[499]: # show history, suggest all the code
history_PINN4 = np.array(history_PINN4)
fig, ax = plt.subplots(figsize=(15, 10))
# plot the loss
ax.plot(history_PINN4[:, 0], label='loss')
ax.legend(loc='upper left')
ax.set_yscale('log')
ax.set_xlabel('epoch')
ax.set_ylabel('loss')
plt.grid()

# plot the learning rate
ax2 = ax.twinx()
ax2.plot(history_PINN4[:, -1], label='lr', color='r')
ax2.set_yscale('log')
ax2.set_ylabel('lr')
# legend to the right
ax2.legend(loc='upper right')
plt.grid()
plt.title('PINN history')

# history to list
history_PINN4 = history_PINN4.tolist()
```



```
[500]: # show compare
Y_pred4 = model4(X_sub_t).detach().numpy()
plot_compare_components(X_sub, Y_sub, Y_pred4)
```



[]:

[]: