

МИНОБРНАУКИ РОССИИ
САНКТ-ПЕТЕРБУРГСКИЙ ГОСУДАРСТВЕННЫЙ
ЭЛЕКТРОТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ
«ЛЭТИ» ИМ. В.И. УЛЬЯНОВА (ЛЕНИНА)
Кафедра ВТ

ОТЧЕТ
по лабораторной работе № 2
по дисциплине «Нейронные сети»
RNN

Студент гр. 9308

Преподаватель

Неверов Е.А.

Санкт-Петербург

2023

Цель работы

Задание 1: Подготовка данных

В задании необходимо продемонстрировать методы подготовки и предварительной обработки данных, таких как увеличение и нормализация данных. Усложненное задание - последовательности слов.

Задание 2: Архитектура RNN

В этом задании необходимо написать и уметь объяснить как работает разработанная архитектура. Разработка собственной архитектуры (и последующее обучение с 0) – 3-5 различных архитектур с разной комбинацией слоев/функций активации;

Задание 3: Обучение RNN

В данном задании студентам необходимо продемонстрировать знания, как обучать RNN, используя функции потерь, оптимизаторы и методы регуляризации

Задание 4: Настройка гиперпараметров и выбор модели

В этом задании студенты должны объяснить, как настраивать гиперпараметры в RNN и как выполнять выбор модели.

Задание 5: Сравнение с существующими решениями

В этом задании студентам необходимо обучить классические модели RNN, LSTM, GRU и сравнить производительность со своими архитектурами.

Был выбран датасет:

```

import gensim.downloader as api
import torch
from torch import nn
import pandas as pd
from collections import Counter

max_epochs = 10
batch_size = 256
sequence_length = 8

word2vec = api.load("glove-twitter-50")

word2idx = {word : idx for idx, word in enumerate(word2vec.index_to_key)}

def encoder(word):
    if word in word2idx.keys():
        return word2idx[word]
    return word2idx['unc']

def array_word2vec(arr):
    result = []
    for elem in arr:
        if elem not in word2vec:
            result.append(word2vec['unc'])
        else:
            result.append(word2vec[elem])
    return result

class Dataset(torch.utils.data.Dataset):
    def __init__(
        self,
    ):
        self.words = self.load_words()
        self.uniq_words = self.get_uniq_words()
        self.index_to_word = {index: word for index, word in
enumerate(self.uniq_words)}
        self.word_to_index = {word: index for index, word in
enumerate(self.uniq_words)}
        self.words_indexes = [self.word_to_index[w] for w in self.words]
    def load_words(self):
        train_df = pd.read_csv('train.csv')
        text = train_df['Joke'].str.cat(sep=' ')
        return text.split(' ')
    def get_uniq_words(self):
        common_df = pd.read_csv('common.csv')
        text = common_df['Joke'].str.cat(sep=' ')
        word_counts = Counter(text.split(' '))
        return sorted(word_counts, key=word_counts.get, reverse=True)
    def __len__(self):
        return len(self.words_indexes) - sequence_length
    def __getitem__(self, index):
        return (
            torch.tensor(self.words_indexes[index:index+sequence_length]),

```

```

        torch.tensor(self.words_indexes[index+1:index+sequence_length+1]),
    )

class Dataset_test(torch.utils.data.Dataset):
    def __init__(
        self,
    ):
        self.words = self.load_words()
        self.uniq_words = self.get_uniq_words()
        self.index_to_word = {index: word for index, word in
            enumerate(self.uniq_words)}
        self.word_to_index = {word: index for index, word in
            enumerate(self.uniq_words)}
        self.words_indexes = [self.word_to_index[w] for w in self.words]
    def load_words(self):
        train_df = pd.read_csv('test.csv')
        text = train_df['Joke'].str.cat(sep=' ')
        return text.split(' ')
    def get_uniq_words(self):
        word_counts = Counter(self.words)
        return sorted(word_counts, key=word_counts.get, reverse=True)
    def __len__(self):
        return len(self.words_indexes) - sequence_length
    def __getitem__(self, index):
        return (
            torch.tensor(self.words_indexes[index:index+sequence_length]),
            torch.tensor(self.words_indexes[index+1:index+sequence_length+1]),
        )

class simple_lstm(nn.Module):
    def __init__(self, dataset):
        super(simple_lstm, self).__init__()
        self.vector_size = word2vec.vector_size
        self.num_layers = 1
        n_vocab = len(dataset.uniq_words)
        self.embed = nn.Embedding(n_vocab, word2vec.vector_size)
        self.lstm = nn.LSTM(
            input_size=self.vector_size,
            hidden_size=self.vector_size,
            num_layers=self.num_layers,
        )
        self.fc = nn.Linear(self.vector_size, n_vocab)
    def forward(self, x, prev_state):
        embed = self.embed(x)
        output, state = self.lstm(embed, prev_state)
        logits = self.fc(output)
        return logits
    def init_state(self, sequence_length):
        return (torch.zeros(self.num_layers, sequence_length, self.vector_size),
            torch.zeros(self.num_layers, sequence_length, self.vector_size))

```

```

class simple_rnn(nn.Module):
    def __init__(self, dataset):
        super(simple_rnn, self).__init__()
        self.vector_size = word2vec.vector_size
        self.num_layers = 1
        n_vocab = len(dataset.uniq_words)
        self.embed = nn.Embedding(n_vocab, word2vec.vector_size)
        self.rnn = nn.RNN(
            input_size=self.vector_size,
            hidden_size=self.vector_size,
            num_layers=self.num_layers,
        )
        self.fc = nn.Linear(self.vector_size, n_vocab)
    def forward(self, x, prev_state):
        embed = self.embed(x)
        output = self.rnn(embed, prev_state[0])
        logits = self.fc(output[0])
        return logits
    def init_state(self, sequence_length):
        return (torch.zeros(self.num_layers, sequence_length, self.vector_size),
                torch.zeros(self.num_layers, sequence_length, self.vector_size))

class simple_gru(nn.Module):
    def __init__(self, dataset):
        super(simple_gru, self).__init__()
        self.vector_size = word2vec.vector_size
        self.num_layers = 1
        n_vocab = len(dataset.uniq_words)
        self.embed = nn.Embedding(n_vocab, word2vec.vector_size)
        self.gru = nn.GRU(
            input_size=self.vector_size,
            hidden_size=self.vector_size,
            num_layers=self.num_layers,
        )
        self.fc = nn.Linear(self.vector_size, n_vocab)
    def forward(self, x, prev_state):
        embed = self.embed(x)
        output = self.gru(embed, prev_state[0])
        logits = self.fc(output[0])
        return logits
    def init_state(self, sequence_length):
        return (torch.zeros(self.num_layers, sequence_length, self.vector_size),
                torch.zeros(self.num_layers, sequence_length, self.vector_size))

class lstm(nn.Module):
    def __init__(self, dataset):
        super(lstm, self).__init__()
        self.vector_size = word2vec.vector_size
        self.num_layers = 5
        n_vocab = len(dataset.uniq_words)
        self.embed = nn.Embedding(n_vocab, word2vec.vector_size)
        self.lstm = nn.LSTM(

```

```

        input_size=self.vector_size,
        hidden_size=self.vector_size,
        num_layers=self.num_layers,
        dropout=0.2,
    )
    self.fc = nn.Linear(self.vector_size, n_vocab)
def forward(self, x, prev_state):
    embed = self.embed(x)
    output, state = self.lstm(embed, prev_state)
    logits = self.fc(output)
    return logits
def init_state(self, sequence_length):
    return (torch.zeros(self.num_layers, sequence_length, self.vector_size),
            torch.zeros(self.num_layers, sequence_length, self.vector_size))

class rnn(nn.Module):
    def __init__(self, dataset):
        super(rnn, self).__init__()
        self.vector_size = word2vec.vector_size
        self.num_layers = 5
        n_vocab = len(dataset.uniq_words)
        self.embed = nn.Embedding(n_vocab, word2vec.vector_size)
        self.rnn = nn.RNN(
            input_size=self.vector_size,
            hidden_size=self.vector_size,
            num_layers=self.num_layers,
            dropout=0.2,
        )
        self.fc = nn.Linear(self.vector_size, n_vocab)
    def forward(self, x, prev_state):
        embed = self.embed(x)
        output = self.rnn(embed, prev_state[0])
        logits = self.fc(output[0])
        return logits
    def init_state(self, sequence_length):
        return (torch.zeros(self.num_layers, sequence_length, self.vector_size),
                torch.zeros(self.num_layers, sequence_length, self.vector_size))

class gru(nn.Module):
    def __init__(self, dataset):
        super(gru, self).__init__()
        self.vector_size = word2vec.vector_size
        self.num_layers = 5
        n_vocab = len(dataset.uniq_words)
        self.embed = nn.Embedding(n_vocab, word2vec.vector_size)
        self.gru = nn.GRU(
            input_size=self.vector_size,
            hidden_size=self.vector_size,
            num_layers=self.num_layers,
            dropout=0.2,
        )
        self.fc = nn.Linear(self.vector_size, n_vocab)

```

```

def forward(self, x, prev_state):
    embed = self.embed(x)
    output = self.gru(embed, prev_state[0])
    logits = self.fc(output[0])
    return logits
def init_state(self, sequence_length):
    return (torch.zeros(self.num_layers, sequence_length, self.vector_size),
            torch.zeros(self.num_layers, sequence_length, self.vector_size))

import argparse
import torch
import numpy as np
from torch import nn, optim
from torch.utils.data import DataLoader

def train(dataset, model):
    model.train()
    dataloader = DataLoader(dataset, batch_size=batch_size)
    criterion = nn.CrossEntropyLoss()
    optimizer = optim.Adam(model.parameters(), lr=0.001)
    for epoch in range(max_epochs):
        state_h, state_c = model.init_state(sequence_length)
        for batch, (x, y) in enumerate(dataloader):
            optimizer.zero_grad()
            y_pred = model(x, (state_h, state_c))
            loss = criterion(y_pred.transpose(1, 2), y)
            loss.backward()
            optimizer.step()
            print({ 'epoch': epoch, 'batch': batch, 'loss': loss.item() })

def predict(dataset, model, text, next_words=10):
    model.eval()
    words = text.split(' ')
    state_h, state_c = model.init_state(len(words))
    for i in range(0, next_words):
        x = torch.tensor([[dataset.word_to_index[w] for w in words[i:]])
        y_pred = model(x, (state_h, state_c))
        last_word_logits = y_pred[0][-1]
        p = torch.nn.functional.softmax(last_word_logits, dim=0).detach().numpy()
        word_index = np.random.choice(len(last_word_logits), p=p)
        words.append(dataset.index_to_word[word_index])
    return words

dataset = Dataset()
models = [simple_rnn(dataset), simple_lstm(dataset), simple_gru(dataset),
rnn(dataset), gru(dataset), lstm(dataset)]
for model in models:
    with torch.no_grad():
        for word in dataset.word_to_index:
            if word in word2vec:
                model.embed.weight[dataset.word_to_index[word]] =

```

```
torch.from_numpy(word2vec[word]))
```

```
train(dataset, model)
```

C:\Temp\ipykernel_7840\4161824698.py:7: UserWarning: The given NumPy array is not writable, and PyTorch does not support non-writable tensors. This means writing to this tensor will result in undefined behavior. You may want to copy the array to protect its data or make it writable before converting it to a tensor. This type of warning will be suppressed for the rest of this program. (Triggered internally at ..\torch\csrc\utils\tensor_numpy.cpp:205.)

```
model.embed.weight[dataset.word_to_index[word]] =  
torch.from_numpy(word2vec[word]))
```

```
{'epoch': 0, 'batch': 0, 'loss': 8.92183780670166}  
{'epoch': 0, 'batch': 1, 'loss': 8.906518936157227}  
{'epoch': 0, 'batch': 2, 'loss': 8.883408546447754}  
{'epoch': 0, 'batch': 3, 'loss': 8.866562843322754}  
{'epoch': 0, 'batch': 4, 'loss': 8.865150451660156}  
{'epoch': 0, 'batch': 5, 'loss': 8.84112548828125}  
{'epoch': 0, 'batch': 6, 'loss': 8.833621978759766}  
{'epoch': 0, 'batch': 7, 'loss': 8.803666114807129}  
{'epoch': 0, 'batch': 8, 'loss': 8.803208351135254}  
{'epoch': 0, 'batch': 9, 'loss': 8.767775535583496}  
{'epoch': 0, 'batch': 10, 'loss': 8.814064979553223}  
{'epoch': 0, 'batch': 11, 'loss': 8.799248695373535}  
{'epoch': 0, 'batch': 12, 'loss': 8.799677848815918}  
{'epoch': 0, 'batch': 13, 'loss': 8.778038024902344}  
{'epoch': 0, 'batch': 14, 'loss': 8.722546577453613}  
{'epoch': 0, 'batch': 15, 'loss': 8.713327407836914}  
{'epoch': 0, 'batch': 16, 'loss': 8.689499855041504}  
{'epoch': 0, 'batch': 17, 'loss': 8.686332702636719}  
{'epoch': 0, 'batch': 18, 'loss': 8.651007652282715}  
{'epoch': 0, 'batch': 19, 'loss': 8.699871063232422}  
{'epoch': 0, 'batch': 20, 'loss': 8.569201469421387}  
{'epoch': 0, 'batch': 21, 'loss': 8.70051097869873}  
{'epoch': 0, 'batch': 22, 'loss': 8.626298904418945}  
{'epoch': 0, 'batch': 23, 'loss': 8.61935043334961}  
{'epoch': 0, 'batch': 24, 'loss': 8.612128257751465}  
{'epoch': 0, 'batch': 25, 'loss': 8.497989654541016}  
{'epoch': 0, 'batch': 26, 'loss': 8.469950675964355}  
{'epoch': 0, 'batch': 27, 'loss': 8.421547889709473}  
{'epoch': 0, 'batch': 28, 'loss': 8.525938034057617}  
{'epoch': 0, 'batch': 29, 'loss': 8.56729793548584}  
{'epoch': 0, 'batch': 30, 'loss': 8.322309494018555}  
{'epoch': 0, 'batch': 31, 'loss': 8.322731018066406}  
{'epoch': 0, 'batch': 32, 'loss': 8.318583488464355}  
{'epoch': 0, 'batch': 33, 'loss': 8.301983833312988}  
{'epoch': 0, 'batch': 34, 'loss': 8.27303409576416}  
{'epoch': 0, 'batch': 35, 'loss': 8.30176067352295}  
{'epoch': 0, 'batch': 36, 'loss': 8.301133155822754}  
{'epoch': 0, 'batch': 37, 'loss': 8.163407325744629}  
{'epoch': 0, 'batch': 38, 'loss': 8.212679862976074}
```



```
{'epoch': 0, 'batch': 39, 'loss': 8.123613357543945}
{'epoch': 0, 'batch': 40, 'loss': 8.268916130065918}
{'epoch': 0, 'batch': 41, 'loss': 8.046185493469238}
{'epoch': 0, 'batch': 42, 'loss': 8.199240684509277}
{'epoch': 0, 'batch': 43, 'loss': 7.884310722351074}
{'epoch': 0, 'batch': 44, 'loss': 7.898829460144043}
{'epoch': 0, 'batch': 45, 'loss': 7.921338081359863}
{'epoch': 0, 'batch': 46, 'loss': 7.98202657699585}
{'epoch': 0, 'batch': 47, 'loss': 8.20220947265625}
{'epoch': 0, 'batch': 48, 'loss': 7.82770299911499}
{'epoch': 0, 'batch': 49, 'loss': 7.923500061035156}
{'epoch': 0, 'batch': 50, 'loss': 8.023807525634766}
{'epoch': 0, 'batch': 51, 'loss': 7.888818264007568}
{'epoch': 0, 'batch': 52, 'loss': 7.609208583831787}
{'epoch': 0, 'batch': 53, 'loss': 7.726802825927734}
{'epoch': 0, 'batch': 54, 'loss': 7.657860279083252}
{'epoch': 0, 'batch': 55, 'loss': 7.667652130126953}
{'epoch': 0, 'batch': 56, 'loss': 7.67922830581665}
{'epoch': 0, 'batch': 57, 'loss': 7.766424655914307}
{'epoch': 0, 'batch': 58, 'loss': 7.594818592071533}
{'epoch': 0, 'batch': 59, 'loss': 7.667176723480225}
{'epoch': 0, 'batch': 60, 'loss': 7.560098171234131}
{'epoch': 0, 'batch': 61, 'loss': 7.683385848999023}
{'epoch': 0, 'batch': 62, 'loss': 7.637958526611328}
{'epoch': 0, 'batch': 63, 'loss': 7.532484531402588}
{'epoch': 0, 'batch': 64, 'loss': 7.636341094970703}
{'epoch': 0, 'batch': 65, 'loss': 7.565108776092529}
{'epoch': 0, 'batch': 66, 'loss': 7.473602294921875}
{'epoch': 0, 'batch': 67, 'loss': 7.3606109619140625}
{'epoch': 0, 'batch': 68, 'loss': 7.593895435333252}
{'epoch': 0, 'batch': 69, 'loss': 7.320254325866699}
{'epoch': 0, 'batch': 70, 'loss': 7.641292572021484}
{'epoch': 0, 'batch': 71, 'loss': 7.579741954803467}
{'epoch': 0, 'batch': 72, 'loss': 7.496521472930908}
{'epoch': 0, 'batch': 73, 'loss': 7.556504249572754}
{'epoch': 0, 'batch': 74, 'loss': 7.493136882781982}
{'epoch': 0, 'batch': 75, 'loss': 7.681660175323486}
{'epoch': 0, 'batch': 76, 'loss': 7.425378322601318}
{'epoch': 0, 'batch': 77, 'loss': 7.634904861450195}
{'epoch': 0, 'batch': 78, 'loss': 7.820878982543945}
{'epoch': 0, 'batch': 79, 'loss': 7.042426586151123}
{'epoch': 0, 'batch': 80, 'loss': 7.328350067138672}
{'epoch': 0, 'batch': 81, 'loss': 7.516552448272705}
{'epoch': 0, 'batch': 82, 'loss': 7.554410457611084}
{'epoch': 0, 'batch': 83, 'loss': 7.553676128387451}
{'epoch': 0, 'batch': 84, 'loss': 7.330246925354004}
{'epoch': 1, 'batch': 0, 'loss': 6.850381851196289}
{'epoch': 1, 'batch': 1, 'loss': 6.837316989898682}
{'epoch': 1, 'batch': 2, 'loss': 6.78205680847168}
{'epoch': 1, 'batch': 3, 'loss': 6.972656726837158}
{'epoch': 1, 'batch': 4, 'loss': 6.944948196411133}
{'epoch': 1, 'batch': 5, 'loss': 6.946932315826416}
```

```
{'epoch': 1, 'batch': 6, 'loss': 7.301766872406006}
{'epoch': 1, 'batch': 7, 'loss': 7.142254829406738}
{'epoch': 1, 'batch': 8, 'loss': 7.132863998413086}
{'epoch': 1, 'batch': 9, 'loss': 7.012122631072998}
{'epoch': 1, 'batch': 10, 'loss': 7.029923915863037}
{'epoch': 1, 'batch': 11, 'loss': 6.9652485847473145}
{'epoch': 1, 'batch': 12, 'loss': 7.069150924682617}
{'epoch': 1, 'batch': 13, 'loss': 7.163351058959961}
{'epoch': 1, 'batch': 14, 'loss': 6.876091957092285}
{'epoch': 1, 'batch': 15, 'loss': 6.928923606872559}
{'epoch': 1, 'batch': 16, 'loss': 6.746044158935547}
{'epoch': 1, 'batch': 17, 'loss': 6.9175262451171875}
{'epoch': 1, 'batch': 18, 'loss': 6.826559543609619}
{'epoch': 1, 'batch': 19, 'loss': 6.995812892913818}
{'epoch': 1, 'batch': 20, 'loss': 6.6488776206970215}
{'epoch': 1, 'batch': 21, 'loss': 7.1189422607421875}
{'epoch': 1, 'batch': 22, 'loss': 7.070592403411865}
{'epoch': 1, 'batch': 23, 'loss': 7.163503646850586}
{'epoch': 1, 'batch': 24, 'loss': 7.0812764167785645}
{'epoch': 1, 'batch': 25, 'loss': 6.807785511016846}
{'epoch': 1, 'batch': 26, 'loss': 6.779444217681885}
{'epoch': 1, 'batch': 27, 'loss': 6.800373077392578}
{'epoch': 1, 'batch': 28, 'loss': 7.222491264343262}
{'epoch': 1, 'batch': 29, 'loss': 7.302810192108154}
{'epoch': 1, 'batch': 30, 'loss': 6.642725467681885}
{'epoch': 1, 'batch': 31, 'loss': 6.606098651885986}
{'epoch': 1, 'batch': 32, 'loss': 6.724298000335693}
{'epoch': 1, 'batch': 33, 'loss': 6.931301116943359}
{'epoch': 1, 'batch': 34, 'loss': 6.893016338348389}
{'epoch': 1, 'batch': 35, 'loss': 7.080708026885986}
{'epoch': 1, 'batch': 36, 'loss': 7.051823139190674}
{'epoch': 1, 'batch': 37, 'loss': 6.775519371032715}
{'epoch': 1, 'batch': 38, 'loss': 7.1244378089904785}
{'epoch': 1, 'batch': 39, 'loss': 6.942564964294434}
{'epoch': 1, 'batch': 40, 'loss': 7.160415172576904}
{'epoch': 1, 'batch': 41, 'loss': 6.871938705444336}
{'epoch': 1, 'batch': 42, 'loss': 7.180318355560303}
{'epoch': 1, 'batch': 43, 'loss': 6.810245513916016}
{'epoch': 1, 'batch': 44, 'loss': 6.73564338684082}
{'epoch': 1, 'batch': 45, 'loss': 6.865785121917725}
{'epoch': 1, 'batch': 46, 'loss': 7.069563388824463}
{'epoch': 1, 'batch': 47, 'loss': 7.402676105499268}
{'epoch': 1, 'batch': 48, 'loss': 6.797182559967041}
{'epoch': 1, 'batch': 49, 'loss': 7.053983688354492}
{'epoch': 1, 'batch': 50, 'loss': 7.251450538635254}
{'epoch': 1, 'batch': 51, 'loss': 7.097410678863525}
{'epoch': 1, 'batch': 52, 'loss': 6.694217681884766}
{'epoch': 1, 'batch': 53, 'loss': 6.924664497375488}
{'epoch': 1, 'batch': 54, 'loss': 6.892714023590088}
{'epoch': 1, 'batch': 55, 'loss': 6.934146881103516}
{'epoch': 1, 'batch': 56, 'loss': 6.949512958526611}
{'epoch': 1, 'batch': 57, 'loss': 7.001625061035156}
```

```

{'epoch': 1, 'batch': 58, 'loss': 6.889970779418945}
{'epoch': 1, 'batch': 59, 'loss': 6.97904109954834}
{'epoch': 1, 'batch': 60, 'loss': 6.863582611083984}
{'epoch': 1, 'batch': 61, 'loss': 7.110556602478027}
{'epoch': 1, 'batch': 62, 'loss': 7.0358452796936035}
{'epoch': 1, 'batch': 63, 'loss': 6.994412899017334}
{'epoch': 1, 'batch': 64, 'loss': 7.0557684898376465}
{'epoch': 1, 'batch': 65, 'loss': 7.021976947784424}
{'epoch': 1, 'batch': 66, 'loss': 6.991541862487793}
{'epoch': 1, 'batch': 67, 'loss': 6.792965412139893}
{'epoch': 1, 'batch': 68, 'loss': 7.083899974822998}
{'epoch': 1, 'batch': 69, 'loss': 6.754807472229004}
{'epoch': 1, 'batch': 70, 'loss': 7.2601704597473145}

{'epoch': 1, 'batch': 71, 'loss': 7.118800163269043}
{'epoch': 1, 'batch': 72, 'loss': 7.037188529968262}
{'epoch': 1, 'batch': 73, 'loss': 7.117763519287109}
{'epoch': 1, 'batch': 74, 'loss': 7.089439868927002}
{'epoch': 1, 'batch': 75, 'loss': 7.228601455688477}
{'epoch': 1, 'batch': 76, 'loss': 7.070920944213867}
{'epoch': 1, 'batch': 77, 'loss': 7.315279483795166}
{'epoch': 1, 'batch': 78, 'loss': 7.416111946105957}
{'epoch': 1, 'batch': 79, 'loss': 6.655971527099609}
{'epoch': 1, 'batch': 80, 'loss': 6.924420356750488}
{'epoch': 1, 'batch': 81, 'loss': 7.145081043243408}
{'epoch': 1, 'batch': 82, 'loss': 7.139209270477295}
{'epoch': 1, 'batch': 83, 'loss': 7.207066059112549}
{'epoch': 1, 'batch': 84, 'loss': 7.035177230834961}
{'epoch': 2, 'batch': 0, 'loss': 6.750154972076416}
{'epoch': 2, 'batch': 1, 'loss': 6.711699962615967}
{'epoch': 2, 'batch': 2, 'loss': 6.625001907348633}
{'epoch': 2, 'batch': 3, 'loss': 6.8642144203186035}
{'epoch': 2, 'batch': 4, 'loss': 6.767825126647949}
{'epoch': 2, 'batch': 5, 'loss': 6.817468643188477}
{'epoch': 2, 'batch': 6, 'loss': 7.262279510498047}
{'epoch': 2, 'batch': 7, 'loss': 7.03127384185791}
{'epoch': 2, 'batch': 8, 'loss': 7.003455638885498}
{'epoch': 2, 'batch': 9, 'loss': 6.922902584075928}
{'epoch': 2, 'batch': 10, 'loss': 6.937316417694092}
{'epoch': 2, 'batch': 11, 'loss': 6.797977447509766}
{'epoch': 2, 'batch': 12, 'loss': 6.941640853881836}
{'epoch': 2, 'batch': 13, 'loss': 7.0764336585998535}
{'epoch': 2, 'batch': 14, 'loss': 6.731820583343506}
{'epoch': 2, 'batch': 15, 'loss': 6.78458833694458}
{'epoch': 2, 'batch': 16, 'loss': 6.607572078704834}
{'epoch': 2, 'batch': 17, 'loss': 6.727705001831055}
{'epoch': 2, 'batch': 18, 'loss': 6.645991802215576}
{'epoch': 2, 'batch': 19, 'loss': 6.847084045410156}
{'epoch': 2, 'batch': 20, 'loss': 6.478244304656982}
{'epoch': 2, 'batch': 21, 'loss': 6.967837333679199}
{'epoch': 2, 'batch': 22, 'loss': 6.935729503631592}
{'epoch': 2, 'batch': 23, 'loss': 7.014781951904297}

```

```
{'epoch': 2, 'batch': 24, 'loss': 6.930292129516602}
{'epoch': 2, 'batch': 25, 'loss': 6.655662536621094}
{'epoch': 2, 'batch': 26, 'loss': 6.592818260192871}
{'epoch': 2, 'batch': 27, 'loss': 6.614095687866211}
{'epoch': 2, 'batch': 28, 'loss': 7.085615158081055}
{'epoch': 2, 'batch': 29, 'loss': 7.152558326721191}
{'epoch': 2, 'batch': 30, 'loss': 6.446614742279053}
{'epoch': 2, 'batch': 31, 'loss': 6.414547443389893}
{'epoch': 2, 'batch': 32, 'loss': 6.518476486206055}
{'epoch': 2, 'batch': 33, 'loss': 6.787930011749268}
{'epoch': 2, 'batch': 34, 'loss': 6.711577415466309}
{'epoch': 2, 'batch': 35, 'loss': 6.871832370758057}
{'epoch': 2, 'batch': 36, 'loss': 6.858984470367432}
{'epoch': 2, 'batch': 37, 'loss': 6.6160359382629395}
{'epoch': 2, 'batch': 38, 'loss': 6.993672847747803}
{'epoch': 2, 'batch': 39, 'loss': 6.775554656982422}
{'epoch': 2, 'batch': 40, 'loss': 6.967720985412598}
{'epoch': 2, 'batch': 41, 'loss': 6.685617923736572}
{'epoch': 2, 'batch': 42, 'loss': 7.0339555740356445}
{'epoch': 2, 'batch': 43, 'loss': 6.6322174072265625}
{'epoch': 2, 'batch': 44, 'loss': 6.549866199493408}
{'epoch': 2, 'batch': 45, 'loss': 6.692022323608398}
{'epoch': 2, 'batch': 46, 'loss': 6.903980731964111}
{'epoch': 2, 'batch': 47, 'loss': 7.247592926025391}
{'epoch': 2, 'batch': 48, 'loss': 6.584109306335449}
{'epoch': 2, 'batch': 49, 'loss': 6.879064083099365}
{'epoch': 2, 'batch': 50, 'loss': 7.076272964477539}
{'epoch': 2, 'batch': 51, 'loss': 6.957910537719727}
{'epoch': 2, 'batch': 52, 'loss': 6.495915412902832}
{'epoch': 2, 'batch': 53, 'loss': 6.734434604644775}
{'epoch': 2, 'batch': 54, 'loss': 6.7154459953308105}
{'epoch': 2, 'batch': 55, 'loss': 6.746668338775635}
{'epoch': 2, 'batch': 56, 'loss': 6.748028755187988}
{'epoch': 2, 'batch': 57, 'loss': 6.777796268463135}
{'epoch': 2, 'batch': 58, 'loss': 6.680658340454102}
{'epoch': 2, 'batch': 59, 'loss': 6.794386863708496}
{'epoch': 2, 'batch': 60, 'loss': 6.640358924865723}
{'epoch': 2, 'batch': 61, 'loss': 6.920904636383057}
{'epoch': 2, 'batch': 62, 'loss': 6.852180004119873}
{'epoch': 2, 'batch': 63, 'loss': 6.794411659240723}
{'epoch': 2, 'batch': 64, 'loss': 6.828184604644775}
{'epoch': 2, 'batch': 65, 'loss': 6.808825969696045}
{'epoch': 2, 'batch': 66, 'loss': 6.7893853187561035}
{'epoch': 2, 'batch': 67, 'loss': 6.5947041511535645}
{'epoch': 2, 'batch': 68, 'loss': 6.857410907745361}
{'epoch': 2, 'batch': 69, 'loss': 6.5196027755737305}
{'epoch': 2, 'batch': 70, 'loss': 7.072537899017334}
{'epoch': 2, 'batch': 71, 'loss': 6.890063285827637}
{'epoch': 2, 'batch': 72, 'loss': 6.811206817626953}
{'epoch': 2, 'batch': 73, 'loss': 6.867194175720215}
{'epoch': 2, 'batch': 74, 'loss': 6.866781711578369}
{'epoch': 2, 'batch': 75, 'loss': 6.983304977416992}
```

```
{'epoch': 2, 'batch': 76, 'loss': 6.838959693908691}
{'epoch': 2, 'batch': 77, 'loss': 7.112793922424316}
{'epoch': 2, 'batch': 78, 'loss': 7.1712164878845215}
{'epoch': 2, 'batch': 79, 'loss': 6.441456317901611}
{'epoch': 2, 'batch': 80, 'loss': 6.682954788208008}
{'epoch': 2, 'batch': 81, 'loss': 6.893836975097656}
{'epoch': 2, 'batch': 82, 'loss': 6.876802921295166}
{'epoch': 2, 'batch': 83, 'loss': 6.971278667449951}
{'epoch': 2, 'batch': 84, 'loss': 6.830925941467285}
{'epoch': 3, 'batch': 0, 'loss': 6.641170024871826}
{'epoch': 3, 'batch': 1, 'loss': 6.5682692527771}
{'epoch': 3, 'batch': 2, 'loss': 6.480904579162598}
{'epoch': 3, 'batch': 3, 'loss': 6.720362663269043}
{'epoch': 3, 'batch': 4, 'loss': 6.5934367179870605}
{'epoch': 3, 'batch': 5, 'loss': 6.651124000549316}
{'epoch': 3, 'batch': 6, 'loss': 7.152071475982666}
{'epoch': 3, 'batch': 7, 'loss': 6.902632713317871}
{'epoch': 3, 'batch': 8, 'loss': 6.8484392166137695}
{'epoch': 3, 'batch': 9, 'loss': 6.783545970916748}
{'epoch': 3, 'batch': 10, 'loss': 6.818288803100586}
{'epoch': 3, 'batch': 11, 'loss': 6.649777889251709}
{'epoch': 3, 'batch': 12, 'loss': 6.783058166503906}
{'epoch': 3, 'batch': 13, 'loss': 6.958881378173828}
{'epoch': 3, 'batch': 14, 'loss': 6.583044052124023}
{'epoch': 3, 'batch': 15, 'loss': 6.633017539978027}
{'epoch': 3, 'batch': 16, 'loss': 6.433267593383789}
{'epoch': 3, 'batch': 17, 'loss': 6.535860061645508}
{'epoch': 3, 'batch': 18, 'loss': 6.455214500427246}
{'epoch': 3, 'batch': 19, 'loss': 6.689647197723389}
{'epoch': 3, 'batch': 20, 'loss': 6.277687072753906}
{'epoch': 3, 'batch': 21, 'loss': 6.8140764236450195}
{'epoch': 3, 'batch': 22, 'loss': 6.806698799133301}
{'epoch': 3, 'batch': 23, 'loss': 6.861860752105713}
{'epoch': 3, 'batch': 24, 'loss': 6.776504039764404}
{'epoch': 3, 'batch': 25, 'loss': 6.496467113494873}
{'epoch': 3, 'batch': 26, 'loss': 6.415329456329346}
{'epoch': 3, 'batch': 27, 'loss': 6.430542945861816}
{'epoch': 3, 'batch': 28, 'loss': 6.937410354614258}
{'epoch': 3, 'batch': 29, 'loss': 6.991908550262451}
{'epoch': 3, 'batch': 30, 'loss': 6.249324798583984}
{'epoch': 3, 'batch': 31, 'loss': 6.214193344116211}
{'epoch': 3, 'batch': 32, 'loss': 6.3135857582092285}
{'epoch': 3, 'batch': 33, 'loss': 6.630854606628418}
{'epoch': 3, 'batch': 34, 'loss': 6.552772521972656}
{'epoch': 3, 'batch': 35, 'loss': 6.665524005889893}
{'epoch': 3, 'batch': 36, 'loss': 6.668779373168945}
{'epoch': 3, 'batch': 37, 'loss': 6.458675861358643}
{'epoch': 3, 'batch': 38, 'loss': 6.834336757659912}
{'epoch': 3, 'batch': 39, 'loss': 6.612486839294434}
{'epoch': 3, 'batch': 40, 'loss': 6.777548313140869}
{'epoch': 3, 'batch': 41, 'loss': 6.50497579574585}
{'epoch': 3, 'batch': 42, 'loss': 6.878248691558838}
```

```

{'epoch': 3, 'batch': 43, 'loss': 6.476362228393555}
{'epoch': 3, 'batch': 44, 'loss': 6.366246223449707}
{'epoch': 3, 'batch': 45, 'loss': 6.527863025665283}
{'epoch': 3, 'batch': 46, 'loss': 6.750213146209717}
{'epoch': 3, 'batch': 47, 'loss': 7.10521125793457}
{'epoch': 3, 'batch': 48, 'loss': 6.384176731109619}
{'epoch': 3, 'batch': 49, 'loss': 6.698408603668213}
{'epoch': 3, 'batch': 50, 'loss': 6.908048152923584}
{'epoch': 3, 'batch': 51, 'loss': 6.823039531707764}
{'epoch': 3, 'batch': 52, 'loss': 6.305601119995117}
{'epoch': 3, 'batch': 53, 'loss': 6.559957504272461}
{'epoch': 3, 'batch': 54, 'loss': 6.533568382263184}
{'epoch': 3, 'batch': 55, 'loss': 6.566286563873291}

{'epoch': 3, 'batch': 56, 'loss': 6.565321445465088}
{'epoch': 3, 'batch': 57, 'loss': 6.576152324676514}
{'epoch': 3, 'batch': 58, 'loss': 6.486224174499512}
{'epoch': 3, 'batch': 59, 'loss': 6.611339092254639}
{'epoch': 3, 'batch': 60, 'loss': 6.436158180236816}
{'epoch': 3, 'batch': 61, 'loss': 6.735159873962402}
{'epoch': 3, 'batch': 62, 'loss': 6.68014669418335}
{'epoch': 3, 'batch': 63, 'loss': 6.607620716094971}
{'epoch': 3, 'batch': 64, 'loss': 6.624475002288818}
{'epoch': 3, 'batch': 65, 'loss': 6.600868225097656}
{'epoch': 3, 'batch': 66, 'loss': 6.620474338531494}
{'epoch': 3, 'batch': 67, 'loss': 6.413574695587158}
{'epoch': 3, 'batch': 68, 'loss': 6.660188674926758}
{'epoch': 3, 'batch': 69, 'loss': 6.301323890686035}
{'epoch': 3, 'batch': 70, 'loss': 6.89981746673584}
{'epoch': 3, 'batch': 71, 'loss': 6.690033912658691}
{'epoch': 3, 'batch': 72, 'loss': 6.6224470138549805}
{'epoch': 3, 'batch': 73, 'loss': 6.650218963623047}
{'epoch': 3, 'batch': 74, 'loss': 6.666336536407471}
{'epoch': 3, 'batch': 75, 'loss': 6.774985313415527}
{'epoch': 3, 'batch': 76, 'loss': 6.647472381591797}
{'epoch': 3, 'batch': 77, 'loss': 6.915099143981934}
{'epoch': 3, 'batch': 78, 'loss': 6.970799446105957}
{'epoch': 3, 'batch': 79, 'loss': 6.234598636627197}
{'epoch': 3, 'batch': 80, 'loss': 6.4661455154418945}
{'epoch': 3, 'batch': 81, 'loss': 6.679757118225098}
{'epoch': 3, 'batch': 82, 'loss': 6.658350467681885}
{'epoch': 3, 'batch': 83, 'loss': 6.764172077178955}
{'epoch': 3, 'batch': 84, 'loss': 6.654512405395508}
{'epoch': 4, 'batch': 0, 'loss': 6.496441841125488}
{'epoch': 4, 'batch': 1, 'loss': 6.406992435455322}
{'epoch': 4, 'batch': 2, 'loss': 6.3356828689575195}
{'epoch': 4, 'batch': 3, 'loss': 6.581949710845947}
{'epoch': 4, 'batch': 4, 'loss': 6.428696632385254}
{'epoch': 4, 'batch': 5, 'loss': 6.490028381347656}
{'epoch': 4, 'batch': 6, 'loss': 7.003113269805908}
{'epoch': 4, 'batch': 7, 'loss': 6.758974552154541}
{'epoch': 4, 'batch': 8, 'loss': 6.700375556945801}

```

```
{'epoch': 4, 'batch': 9, 'loss': 6.643967151641846}
{'epoch': 4, 'batch': 10, 'loss': 6.690194606781006}
{'epoch': 4, 'batch': 11, 'loss': 6.494659900665283}
{'epoch': 4, 'batch': 12, 'loss': 6.639373779296875}
{'epoch': 4, 'batch': 13, 'loss': 6.822808265686035}
{'epoch': 4, 'batch': 14, 'loss': 6.4206953048706055}
{'epoch': 4, 'batch': 15, 'loss': 6.464856147766113}
{'epoch': 4, 'batch': 16, 'loss': 6.256020545959473}
{'epoch': 4, 'batch': 17, 'loss': 6.351352691650391}
{'epoch': 4, 'batch': 18, 'loss': 6.284534931182861}
{'epoch': 4, 'batch': 19, 'loss': 6.531388759613037}
{'epoch': 4, 'batch': 20, 'loss': 6.10390567779541}
{'epoch': 4, 'batch': 21, 'loss': 6.64312744140625}
{'epoch': 4, 'batch': 22, 'loss': 6.674187183380127}
{'epoch': 4, 'batch': 23, 'loss': 6.699268341064453}
{'epoch': 4, 'batch': 24, 'loss': 6.614622116088867}
{'epoch': 4, 'batch': 25, 'loss': 6.350216865539551}
{'epoch': 4, 'batch': 26, 'loss': 6.242834091186523}
{'epoch': 4, 'batch': 27, 'loss': 6.2554779052734375}
{'epoch': 4, 'batch': 28, 'loss': 6.784260272979736}
{'epoch': 4, 'batch': 29, 'loss': 6.828919410705566}
{'epoch': 4, 'batch': 30, 'loss': 6.063128471374512}
{'epoch': 4, 'batch': 31, 'loss': 6.032402515411377}
{'epoch': 4, 'batch': 32, 'loss': 6.1258158683776855}
{'epoch': 4, 'batch': 33, 'loss': 6.474059581756592}
{'epoch': 4, 'batch': 34, 'loss': 6.400721073150635}
{'epoch': 4, 'batch': 35, 'loss': 6.467685222625732}
{'epoch': 4, 'batch': 36, 'loss': 6.492824554443359}
{'epoch': 4, 'batch': 37, 'loss': 6.320158004760742}
{'epoch': 4, 'batch': 38, 'loss': 6.660389423370361}
{'epoch': 4, 'batch': 39, 'loss': 6.452702045440674}
{'epoch': 4, 'batch': 40, 'loss': 6.604357719421387}
{'epoch': 4, 'batch': 41, 'loss': 6.338291168212891}
{'epoch': 4, 'batch': 42, 'loss': 6.719850540161133}
{'epoch': 4, 'batch': 43, 'loss': 6.331288814544678}
{'epoch': 4, 'batch': 44, 'loss': 6.20346212387085}
{'epoch': 4, 'batch': 45, 'loss': 6.388458728790283}
{'epoch': 4, 'batch': 46, 'loss': 6.596346378326416}
{'epoch': 4, 'batch': 47, 'loss': 6.964627265930176}
{'epoch': 4, 'batch': 48, 'loss': 6.204864025115967}
{'epoch': 4, 'batch': 49, 'loss': 6.534750938415527}
{'epoch': 4, 'batch': 50, 'loss': 6.7375969886779785}
{'epoch': 4, 'batch': 51, 'loss': 6.680598258972168}
{'epoch': 4, 'batch': 52, 'loss': 6.140788555145264}
{'epoch': 4, 'batch': 53, 'loss': 6.39487361907959}
{'epoch': 4, 'batch': 54, 'loss': 6.362189769744873}
{'epoch': 4, 'batch': 55, 'loss': 6.396229267120361}
{'epoch': 4, 'batch': 56, 'loss': 6.386777400970459}
{'epoch': 4, 'batch': 57, 'loss': 6.406795501708984}
{'epoch': 4, 'batch': 58, 'loss': 6.31199312210083}
{'epoch': 4, 'batch': 59, 'loss': 6.437586784362793}
{'epoch': 4, 'batch': 60, 'loss': 6.261789798736572}
```

```
{ 'epoch': 4, 'batch': 61, 'loss': 6.558408260345459}
{ 'epoch': 4, 'batch': 62, 'loss': 6.515608310699463}
{ 'epoch': 4, 'batch': 63, 'loss': 6.435388088226318}
{ 'epoch': 4, 'batch': 64, 'loss': 6.446057319641113}
{ 'epoch': 4, 'batch': 65, 'loss': 6.413641452789307}
{ 'epoch': 4, 'batch': 66, 'loss': 6.473025798797607}
{ 'epoch': 4, 'batch': 67, 'loss': 6.2508864402771}
{ 'epoch': 4, 'batch': 68, 'loss': 6.491287708282471}
{ 'epoch': 4, 'batch': 69, 'loss': 6.116507053375244}
{ 'epoch': 4, 'batch': 70, 'loss': 6.728637218475342}
{ 'epoch': 4, 'batch': 71, 'loss': 6.509227275848389}
{ 'epoch': 4, 'batch': 72, 'loss': 6.453408718109131}
{ 'epoch': 4, 'batch': 73, 'loss': 6.46596097946167}
{ 'epoch': 4, 'batch': 74, 'loss': 6.488674640655518}
{ 'epoch': 4, 'batch': 75, 'loss': 6.5896100997924805}
{ 'epoch': 4, 'batch': 76, 'loss': 6.470795631408691}
{ 'epoch': 4, 'batch': 77, 'loss': 6.72704553604126}
{ 'epoch': 4, 'batch': 78, 'loss': 6.797276020050049}
{ 'epoch': 4, 'batch': 79, 'loss': 6.046499252319336}
{ 'epoch': 4, 'batch': 80, 'loss': 6.281782150268555}
{ 'epoch': 4, 'batch': 81, 'loss': 6.499229907989502}
{ 'epoch': 4, 'batch': 82, 'loss': 6.4726362228393555}
{ 'epoch': 4, 'batch': 83, 'loss': 6.577865123748779}
{ 'epoch': 4, 'batch': 84, 'loss': 6.4871296882629395}
{ 'epoch': 5, 'batch': 0, 'loss': 6.341287612915039}
{ 'epoch': 5, 'batch': 1, 'loss': 6.238476753234863}
{ 'epoch': 5, 'batch': 2, 'loss': 6.192873477935791}
{ 'epoch': 5, 'batch': 3, 'loss': 6.4412946701049805}
{ 'epoch': 5, 'batch': 4, 'loss': 6.268438816070557}
{ 'epoch': 5, 'batch': 5, 'loss': 6.328841209411621}
{ 'epoch': 5, 'batch': 6, 'loss': 6.8475341796875}
{ 'epoch': 5, 'batch': 7, 'loss': 6.614863872528076}
{ 'epoch': 5, 'batch': 8, 'loss': 6.552620887756348}
{ 'epoch': 5, 'batch': 9, 'loss': 6.490523815155029}
{ 'epoch': 5, 'batch': 10, 'loss': 6.551263332366943}
{ 'epoch': 5, 'batch': 11, 'loss': 6.338000774383545}
{ 'epoch': 5, 'batch': 12, 'loss': 6.496847152709961}
{ 'epoch': 5, 'batch': 13, 'loss': 6.680314064025879}
{ 'epoch': 5, 'batch': 14, 'loss': 6.257115364074707}
{ 'epoch': 5, 'batch': 15, 'loss': 6.298027038574219}
{ 'epoch': 5, 'batch': 16, 'loss': 6.0815277099609375}
{ 'epoch': 5, 'batch': 17, 'loss': 6.174511909484863}
{ 'epoch': 5, 'batch': 18, 'loss': 6.135806560516357}
{ 'epoch': 5, 'batch': 19, 'loss': 6.382131099700928}
{ 'epoch': 5, 'batch': 20, 'loss': 5.937681674957275}
{ 'epoch': 5, 'batch': 21, 'loss': 6.471035957336426}
{ 'epoch': 5, 'batch': 22, 'loss': 6.536080360412598}
{ 'epoch': 5, 'batch': 23, 'loss': 6.533998489379883}
{ 'epoch': 5, 'batch': 24, 'loss': 6.458770275115967}
{ 'epoch': 5, 'batch': 25, 'loss': 6.21288537979126}
{ 'epoch': 5, 'batch': 26, 'loss': 6.079662799835205}
{ 'epoch': 5, 'batch': 27, 'loss': 6.088958740234375}
```



```
{'epoch': 5, 'batch': 28, 'loss': 6.630671501159668}
{'epoch': 5, 'batch': 29, 'loss': 6.667439937591553}
{'epoch': 5, 'batch': 30, 'loss': 5.881933689117432}
{'epoch': 5, 'batch': 31, 'loss': 5.862478733062744}
{'epoch': 5, 'batch': 32, 'loss': 5.9549241065979}
{'epoch': 5, 'batch': 33, 'loss': 6.327946186065674}
{'epoch': 5, 'batch': 34, 'loss': 6.253382682800293}
{'epoch': 5, 'batch': 35, 'loss': 6.292771816253662}
{'epoch': 5, 'batch': 36, 'loss': 6.32780647277832}
{'epoch': 5, 'batch': 37, 'loss': 6.183216571807861}
{'epoch': 5, 'batch': 38, 'loss': 6.499059677124023}
{'epoch': 5, 'batch': 39, 'loss': 6.29966402053833}
{'epoch': 5, 'batch': 40, 'loss': 6.438232898712158}
{'epoch': 5, 'batch': 41, 'loss': 6.1772918701171875}

{'epoch': 5, 'batch': 42, 'loss': 6.563482284545898}
{'epoch': 5, 'batch': 43, 'loss': 6.187736988067627}
{'epoch': 5, 'batch': 44, 'loss': 6.049460411071777}
{'epoch': 5, 'batch': 45, 'loss': 6.2481489181518555}
{'epoch': 5, 'batch': 46, 'loss': 6.449076175689697}
{'epoch': 5, 'batch': 47, 'loss': 6.81893253326416}
{'epoch': 5, 'batch': 48, 'loss': 6.0384135246276855}
{'epoch': 5, 'batch': 49, 'loss': 6.375004768371582}
{'epoch': 5, 'batch': 50, 'loss': 6.5769572257995605}
{'epoch': 5, 'batch': 51, 'loss': 6.5380167961120605}
{'epoch': 5, 'batch': 52, 'loss': 5.985342979431152}
{'epoch': 5, 'batch': 53, 'loss': 6.239878177642822}
{'epoch': 5, 'batch': 54, 'loss': 6.202207565307617}
{'epoch': 5, 'batch': 55, 'loss': 6.2323832511901855}
{'epoch': 5, 'batch': 56, 'loss': 6.218560695648193}
{'epoch': 5, 'batch': 57, 'loss': 6.255428791046143}
{'epoch': 5, 'batch': 58, 'loss': 6.151971340179443}
{'epoch': 5, 'batch': 59, 'loss': 6.278045654296875}
{'epoch': 5, 'batch': 60, 'loss': 6.104391574859619}
{'epoch': 5, 'batch': 61, 'loss': 6.387150287628174}
{'epoch': 5, 'batch': 62, 'loss': 6.3621602058410645}
{'epoch': 5, 'batch': 63, 'loss': 6.272810935974121}
{'epoch': 5, 'batch': 64, 'loss': 6.289455413818359}
{'epoch': 5, 'batch': 65, 'loss': 6.241970062255859}
{'epoch': 5, 'batch': 66, 'loss': 6.3427581787109375}
{'epoch': 5, 'batch': 67, 'loss': 6.100886344909668}
{'epoch': 5, 'batch': 68, 'loss': 6.332388877868652}
{'epoch': 5, 'batch': 69, 'loss': 5.945407867431641}
{'epoch': 5, 'batch': 70, 'loss': 6.560632705688477}
{'epoch': 5, 'batch': 71, 'loss': 6.341002941131592}
{'epoch': 5, 'batch': 72, 'loss': 6.303337097167969}
{'epoch': 5, 'batch': 73, 'loss': 6.303996562957764}
{'epoch': 5, 'batch': 74, 'loss': 6.327879905700684}
{'epoch': 5, 'batch': 75, 'loss': 6.419410705566406}
{'epoch': 5, 'batch': 76, 'loss': 6.301745414733887}
{'epoch': 5, 'batch': 77, 'loss': 6.550180435180664}
{'epoch': 5, 'batch': 78, 'loss': 6.642543792724609}
```

```
{'epoch': 5, 'batch': 79, 'loss': 5.867840766906738}
{'epoch': 5, 'batch': 80, 'loss': 6.119400501251221}
{'epoch': 5, 'batch': 81, 'loss': 6.337381839752197}
{'epoch': 5, 'batch': 82, 'loss': 6.303780555725098}
{'epoch': 5, 'batch': 83, 'loss': 6.405854225158691}
{'epoch': 5, 'batch': 84, 'loss': 6.32517671585083}
{'epoch': 6, 'batch': 0, 'loss': 6.188734531402588}
{'epoch': 6, 'batch': 1, 'loss': 6.069121360778809}
{'epoch': 6, 'batch': 2, 'loss': 6.054472923278809}
{'epoch': 6, 'batch': 3, 'loss': 6.30427885055542}
{'epoch': 6, 'batch': 4, 'loss': 6.118677616119385}
{'epoch': 6, 'batch': 5, 'loss': 6.172636985778809}
{'epoch': 6, 'batch': 6, 'loss': 6.696835994720459}
{'epoch': 6, 'batch': 7, 'loss': 6.4775495529174805}
{'epoch': 6, 'batch': 8, 'loss': 6.408289909362793}
{'epoch': 6, 'batch': 9, 'loss': 6.336740493774414}
{'epoch': 6, 'batch': 10, 'loss': 6.412322521209717}
{'epoch': 6, 'batch': 11, 'loss': 6.182476043701172}
{'epoch': 6, 'batch': 12, 'loss': 6.3606343269348145}
{'epoch': 6, 'batch': 13, 'loss': 6.536908149719238}
{'epoch': 6, 'batch': 14, 'loss': 6.101211071014404}
{'epoch': 6, 'batch': 15, 'loss': 6.135183334350586}
{'epoch': 6, 'batch': 16, 'loss': 5.9154863357543945}
{'epoch': 6, 'batch': 17, 'loss': 6.011837005615234}
{'epoch': 6, 'batch': 18, 'loss': 5.997448444366455}
{'epoch': 6, 'batch': 19, 'loss': 6.2371392250061035}
{'epoch': 6, 'batch': 20, 'loss': 5.780025482177734}
{'epoch': 6, 'batch': 21, 'loss': 6.3063178062438965}
{'epoch': 6, 'batch': 22, 'loss': 6.394063472747803}
{'epoch': 6, 'batch': 23, 'loss': 6.373589038848877}
{'epoch': 6, 'batch': 24, 'loss': 6.311681270599365}
{'epoch': 6, 'batch': 25, 'loss': 6.084105014801025}
{'epoch': 6, 'batch': 26, 'loss': 5.9223713874816895}
{'epoch': 6, 'batch': 27, 'loss': 5.930588722229004}
{'epoch': 6, 'batch': 28, 'loss': 6.476400375366211}
{'epoch': 6, 'batch': 29, 'loss': 6.510383605957031}
{'epoch': 6, 'batch': 30, 'loss': 5.7103376388549805}
{'epoch': 6, 'batch': 31, 'loss': 5.701415538787842}
{'epoch': 6, 'batch': 32, 'loss': 5.8055419921875}
{'epoch': 6, 'batch': 33, 'loss': 6.190366268157959}
{'epoch': 6, 'batch': 34, 'loss': 6.102880477905273}
{'epoch': 6, 'batch': 35, 'loss': 6.133752346038818}
{'epoch': 6, 'batch': 36, 'loss': 6.170829772949219}
{'epoch': 6, 'batch': 37, 'loss': 6.046297073364258}
{'epoch': 6, 'batch': 38, 'loss': 6.345950603485107}
{'epoch': 6, 'batch': 39, 'loss': 6.153534889221191}
{'epoch': 6, 'batch': 40, 'loss': 6.27527379989624}
{'epoch': 6, 'batch': 41, 'loss': 6.023291110992432}
{'epoch': 6, 'batch': 42, 'loss': 6.411408424377441}
{'epoch': 6, 'batch': 43, 'loss': 6.046090126037598}
{'epoch': 6, 'batch': 44, 'loss': 5.90592098236084}
{'epoch': 6, 'batch': 45, 'loss': 6.107483863830566}
```

```
{'epoch': 6, 'batch': 46, 'loss': 6.306889057159424}
{'epoch': 6, 'batch': 47, 'loss': 6.66721773147583}
{'epoch': 6, 'batch': 48, 'loss': 5.8823652267456055}
{'epoch': 6, 'batch': 49, 'loss': 6.219606399536133}
{'epoch': 6, 'batch': 50, 'loss': 6.4199066162109375}
{'epoch': 6, 'batch': 51, 'loss': 6.395664691925049}
{'epoch': 6, 'batch': 52, 'loss': 5.838935375213623}
{'epoch': 6, 'batch': 53, 'loss': 6.092685699462891}
{'epoch': 6, 'batch': 54, 'loss': 6.048636436462402}
{'epoch': 6, 'batch': 55, 'loss': 6.0767741203308105}
{'epoch': 6, 'batch': 56, 'loss': 6.058773994445801}
{'epoch': 6, 'batch': 57, 'loss': 6.114964008331299}
{'epoch': 6, 'batch': 58, 'loss': 6.000207901000977}
{'epoch': 6, 'batch': 59, 'loss': 6.125756740570068}
{'epoch': 6, 'batch': 60, 'loss': 5.954556941986084}
{'epoch': 6, 'batch': 61, 'loss': 6.220963001251221}
{'epoch': 6, 'batch': 62, 'loss': 6.21828556060791}
{'epoch': 6, 'batch': 63, 'loss': 6.118960380554199}
{'epoch': 6, 'batch': 64, 'loss': 6.144019603729248}
{'epoch': 6, 'batch': 65, 'loss': 6.082794666290283}
{'epoch': 6, 'batch': 66, 'loss': 6.22250509262085}
{'epoch': 6, 'batch': 67, 'loss': 5.958853244781494}
{'epoch': 6, 'batch': 68, 'loss': 6.181419372558594}
{'epoch': 6, 'batch': 69, 'loss': 5.7856926918029785}
{'epoch': 6, 'batch': 70, 'loss': 6.3980712890625}
{'epoch': 6, 'batch': 71, 'loss': 6.180005073547363}
{'epoch': 6, 'batch': 72, 'loss': 6.164503574371338}
{'epoch': 6, 'batch': 73, 'loss': 6.15278434753418}
{'epoch': 6, 'batch': 74, 'loss': 6.177016735076904}
{'epoch': 6, 'batch': 75, 'loss': 6.25769567489624}
{'epoch': 6, 'batch': 76, 'loss': 6.139842987060547}
{'epoch': 6, 'batch': 77, 'loss': 6.381308078765869}
{'epoch': 6, 'batch': 78, 'loss': 6.497921466827393}
{'epoch': 6, 'batch': 79, 'loss': 5.701551914215088}
{'epoch': 6, 'batch': 80, 'loss': 5.969954490661621}
{'epoch': 6, 'batch': 81, 'loss': 6.1876091957092285}
{'epoch': 6, 'batch': 82, 'loss': 6.146669864654541}
{'epoch': 6, 'batch': 83, 'loss': 6.245886325836182}
{'epoch': 6, 'batch': 84, 'loss': 6.168936729431152}
{'epoch': 7, 'batch': 0, 'loss': 6.042208194732666}
{'epoch': 7, 'batch': 1, 'loss': 5.909191608428955}
{'epoch': 7, 'batch': 2, 'loss': 5.917601108551025}
{'epoch': 7, 'batch': 3, 'loss': 6.168116092681885}
{'epoch': 7, 'batch': 4, 'loss': 5.976995944976807}
{'epoch': 7, 'batch': 5, 'loss': 6.022135257720947}
{'epoch': 7, 'batch': 6, 'loss': 6.547282695770264}
{'epoch': 7, 'batch': 7, 'loss': 6.3419036865234375}
{'epoch': 7, 'batch': 8, 'loss': 6.266432285308838}
{'epoch': 7, 'batch': 9, 'loss': 6.185755729675293}
{'epoch': 7, 'batch': 10, 'loss': 6.2768144607543945}
{'epoch': 7, 'batch': 11, 'loss': 6.029458522796631}
{'epoch': 7, 'batch': 12, 'loss': 6.228131294250488}
```

```

{'epoch': 7, 'batch': 13, 'loss': 6.39366340637207}
{'epoch': 7, 'batch': 14, 'loss': 5.949549674987793}
{'epoch': 7, 'batch': 15, 'loss': 5.9761962890625}
{'epoch': 7, 'batch': 16, 'loss': 5.7562479972839355}
{'epoch': 7, 'batch': 17, 'loss': 5.859655380249023}
{'epoch': 7, 'batch': 18, 'loss': 5.868246078491211}
{'epoch': 7, 'batch': 19, 'loss': 6.092672348022461}
{'epoch': 7, 'batch': 20, 'loss': 5.629053592681885}
{'epoch': 7, 'batch': 21, 'loss': 6.151095867156982}
{'epoch': 7, 'batch': 22, 'loss': 6.25003719329834}
{'epoch': 7, 'batch': 23, 'loss': 6.217813014984131}
{'epoch': 7, 'batch': 24, 'loss': 6.166522026062012}
{'epoch': 7, 'batch': 25, 'loss': 5.961752414703369}
{'epoch': 7, 'batch': 26, 'loss': 5.768686294555664}

{'epoch': 7, 'batch': 27, 'loss': 5.7794365882873535}
{'epoch': 7, 'batch': 28, 'loss': 6.323075771331787}
{'epoch': 7, 'batch': 29, 'loss': 6.35872745513916}
{'epoch': 7, 'batch': 30, 'loss': 5.549322605133057}
{'epoch': 7, 'batch': 31, 'loss': 5.550224781036377}
{'epoch': 7, 'batch': 32, 'loss': 5.669212341308594}
{'epoch': 7, 'batch': 33, 'loss': 6.059619903564453}
{'epoch': 7, 'batch': 34, 'loss': 5.95471715927124}
{'epoch': 7, 'batch': 35, 'loss': 5.981512546539307}
{'epoch': 7, 'batch': 36, 'loss': 6.020155906677246}
{'epoch': 7, 'batch': 37, 'loss': 5.9101691246032715}
{'epoch': 7, 'batch': 38, 'loss': 6.1978254318237305}
{'epoch': 7, 'batch': 39, 'loss': 6.013164520263672}
{'epoch': 7, 'batch': 40, 'loss': 6.114736557006836}
{'epoch': 7, 'batch': 41, 'loss': 5.873608112335205}
{'epoch': 7, 'batch': 42, 'loss': 6.262439250946045}
{'epoch': 7, 'batch': 43, 'loss': 5.906938076019287}
{'epoch': 7, 'batch': 44, 'loss': 5.771244049072266}
{'epoch': 7, 'batch': 45, 'loss': 5.968742370605469}
{'epoch': 7, 'batch': 46, 'loss': 6.165859699249268}
{'epoch': 7, 'batch': 47, 'loss': 6.5117011070251465}
{'epoch': 7, 'batch': 48, 'loss': 5.734330654144287}
{'epoch': 7, 'batch': 49, 'loss': 6.0651068687438965}
{'epoch': 7, 'batch': 50, 'loss': 6.266859531402588}
{'epoch': 7, 'batch': 51, 'loss': 6.254978656768799}
{'epoch': 7, 'batch': 52, 'loss': 5.698878288269043}
{'epoch': 7, 'batch': 53, 'loss': 5.949400901794434}
{'epoch': 7, 'batch': 54, 'loss': 5.898172378540039}
{'epoch': 7, 'batch': 55, 'loss': 5.927738666534424}
{'epoch': 7, 'batch': 56, 'loss': 5.905118942260742}
{'epoch': 7, 'batch': 57, 'loss': 5.9790825843811035}
{'epoch': 7, 'batch': 58, 'loss': 5.85481071472168}
{'epoch': 7, 'batch': 59, 'loss': 5.976310729980469}
{'epoch': 7, 'batch': 60, 'loss': 5.808799743652344}
{'epoch': 7, 'batch': 61, 'loss': 6.061347961425781}
{'epoch': 7, 'batch': 62, 'loss': 6.082143306732178}
{'epoch': 7, 'batch': 63, 'loss': 5.971389293670654}

```

```

{'epoch': 7, 'batch': 64, 'loss': 6.004122257232666}
{'epoch': 7, 'batch': 65, 'loss': 5.932073593139648}
{'epoch': 7, 'batch': 66, 'loss': 6.1070427894592285}
{'epoch': 7, 'batch': 67, 'loss': 5.822733402252197}
{'epoch': 7, 'batch': 68, 'loss': 6.039185523986816}
{'epoch': 7, 'batch': 69, 'loss': 5.633875370025635}
{'epoch': 7, 'batch': 70, 'loss': 6.240959644317627}
{'epoch': 7, 'batch': 71, 'loss': 6.023549556732178}
{'epoch': 7, 'batch': 72, 'loss': 6.033002853393555}
{'epoch': 7, 'batch': 73, 'loss': 6.008574962615967}
{'epoch': 7, 'batch': 74, 'loss': 6.033394813537598}
{'epoch': 7, 'batch': 75, 'loss': 6.101151466369629}
{'epoch': 7, 'batch': 76, 'loss': 5.9870758056640625}
{'epoch': 7, 'batch': 77, 'loss': 6.219726085662842}
{'epoch': 7, 'batch': 78, 'loss': 6.357057571411133}
{'epoch': 7, 'batch': 79, 'loss': 5.545257568359375}
{'epoch': 7, 'batch': 80, 'loss': 5.828040599822998}
{'epoch': 7, 'batch': 81, 'loss': 6.046646595001221}
{'epoch': 7, 'batch': 82, 'loss': 5.998833656311035}
{'epoch': 7, 'batch': 83, 'loss': 6.092486381530762}
{'epoch': 7, 'batch': 84, 'loss': 6.017506122589111}
{'epoch': 8, 'batch': 0, 'loss': 5.899812698364258}
{'epoch': 8, 'batch': 1, 'loss': 5.757421493530273}
{'epoch': 8, 'batch': 2, 'loss': 5.7821149826049805}
{'epoch': 8, 'batch': 3, 'loss': 6.033647537231445}
{'epoch': 8, 'batch': 4, 'loss': 5.840071201324463}
{'epoch': 8, 'batch': 5, 'loss': 5.876437187194824}
{'epoch': 8, 'batch': 6, 'loss': 6.396699905395508}
{'epoch': 8, 'batch': 7, 'loss': 6.206320762634277}
{'epoch': 8, 'batch': 8, 'loss': 6.127368450164795}
{'epoch': 8, 'batch': 9, 'loss': 6.0389084815979}
{'epoch': 8, 'batch': 10, 'loss': 6.143483638763428}
{'epoch': 8, 'batch': 11, 'loss': 5.87770938873291}
{'epoch': 8, 'batch': 12, 'loss': 6.097431659698486}
{'epoch': 8, 'batch': 13, 'loss': 6.2522430419921875}
{'epoch': 8, 'batch': 14, 'loss': 5.801909923553467}
{'epoch': 8, 'batch': 15, 'loss': 5.822883129119873}
{'epoch': 8, 'batch': 16, 'loss': 5.6049299240112305}
{'epoch': 8, 'batch': 17, 'loss': 5.713479042053223}
{'epoch': 8, 'batch': 18, 'loss': 5.745406627655029}
{'epoch': 8, 'batch': 19, 'loss': 5.950855731964111}
{'epoch': 8, 'batch': 20, 'loss': 5.483825206756592}
{'epoch': 8, 'batch': 21, 'loss': 6.003276348114014}
{'epoch': 8, 'batch': 22, 'loss': 6.1084065437316895}
{'epoch': 8, 'batch': 23, 'loss': 6.067005157470703}
{'epoch': 8, 'batch': 24, 'loss': 6.021331787109375}
{'epoch': 8, 'batch': 25, 'loss': 5.841693878173828}
{'epoch': 8, 'batch': 26, 'loss': 5.6196770668029785}
{'epoch': 8, 'batch': 27, 'loss': 5.633318901062012}
{'epoch': 8, 'batch': 28, 'loss': 6.1720194816589355}
{'epoch': 8, 'batch': 29, 'loss': 6.211183071136475}
{'epoch': 8, 'batch': 30, 'loss': 5.3987202644348145}

```

```
{'epoch': 8, 'batch': 31, 'loss': 5.408590793609619}
{'epoch': 8, 'batch': 32, 'loss': 5.540187358856201}
{'epoch': 8, 'batch': 33, 'loss': 5.933837413787842}
{'epoch': 8, 'batch': 34, 'loss': 5.812281131744385}
{'epoch': 8, 'batch': 35, 'loss': 5.832094192504883}
{'epoch': 8, 'batch': 36, 'loss': 5.874640464782715}
{'epoch': 8, 'batch': 37, 'loss': 5.775619983673096}
{'epoch': 8, 'batch': 38, 'loss': 6.053199768066406}
{'epoch': 8, 'batch': 39, 'loss': 5.8773393630981445}
{'epoch': 8, 'batch': 40, 'loss': 5.957252025604248}
{'epoch': 8, 'batch': 41, 'loss': 5.728053569793701}
{'epoch': 8, 'batch': 42, 'loss': 6.116300582885742}
{'epoch': 8, 'batch': 43, 'loss': 5.771735668182373}
{'epoch': 8, 'batch': 44, 'loss': 5.642858505249023}
{'epoch': 8, 'batch': 45, 'loss': 5.8349409103393555}
{'epoch': 8, 'batch': 46, 'loss': 6.025095462799072}
{'epoch': 8, 'batch': 47, 'loss': 6.356396675109863}
{'epoch': 8, 'batch': 48, 'loss': 5.592637538909912}
{'epoch': 8, 'batch': 49, 'loss': 5.91163444519043}
{'epoch': 8, 'batch': 50, 'loss': 6.117449760437012}
{'epoch': 8, 'batch': 51, 'loss': 6.117629051208496}
{'epoch': 8, 'batch': 52, 'loss': 5.564001560211182}
{'epoch': 8, 'batch': 53, 'loss': 5.808377265930176}
{'epoch': 8, 'batch': 54, 'loss': 5.750675201416016}
{'epoch': 8, 'batch': 55, 'loss': 5.7842559814453125}
{'epoch': 8, 'batch': 56, 'loss': 5.7568278312683105}
{'epoch': 8, 'batch': 57, 'loss': 5.845580577850342}
{'epoch': 8, 'batch': 58, 'loss': 5.713696002960205}
{'epoch': 8, 'batch': 59, 'loss': 5.8289666175842285}
{'epoch': 8, 'batch': 60, 'loss': 5.666969299316406}
{'epoch': 8, 'batch': 61, 'loss': 5.907634258270264}
{'epoch': 8, 'batch': 62, 'loss': 5.950676918029785}
{'epoch': 8, 'batch': 63, 'loss': 5.828420639038086}
{'epoch': 8, 'batch': 64, 'loss': 5.866501331329346}
{'epoch': 8, 'batch': 65, 'loss': 5.788239002227783}
{'epoch': 8, 'batch': 66, 'loss': 5.993923664093018}
{'epoch': 8, 'batch': 67, 'loss': 5.690618515014648}
{'epoch': 8, 'batch': 68, 'loss': 5.902008056640625}
{'epoch': 8, 'batch': 69, 'loss': 5.4882965087890625}
{'epoch': 8, 'batch': 70, 'loss': 6.088856220245361}
{'epoch': 8, 'batch': 71, 'loss': 5.870551586151123}
{'epoch': 8, 'batch': 72, 'loss': 5.906508445739746}
{'epoch': 8, 'batch': 73, 'loss': 5.86868143081665}
{'epoch': 8, 'batch': 74, 'loss': 5.8934526443481445}
{'epoch': 8, 'batch': 75, 'loss': 5.949428081512451}
{'epoch': 8, 'batch': 76, 'loss': 5.8421525955200195}
{'epoch': 8, 'batch': 77, 'loss': 6.063921928405762}
{'epoch': 8, 'batch': 78, 'loss': 6.216487407684326}
{'epoch': 8, 'batch': 79, 'loss': 5.3965044021606445}
{'epoch': 8, 'batch': 80, 'loss': 5.690089225769043}
{'epoch': 8, 'batch': 81, 'loss': 5.910024642944336}
{'epoch': 8, 'batch': 82, 'loss': 5.8573737144470215}
```

```

{'epoch': 8, 'batch': 83, 'loss': 5.942426681518555}
{'epoch': 8, 'batch': 84, 'loss': 5.869579315185547}
{'epoch': 9, 'batch': 0, 'loss': 5.758734703063965}
{'epoch': 9, 'batch': 1, 'loss': 5.610182285308838}
{'epoch': 9, 'batch': 2, 'loss': 5.647618770599365}
{'epoch': 9, 'batch': 3, 'loss': 5.900697708129883}
{'epoch': 9, 'batch': 4, 'loss': 5.705723285675049}
{'epoch': 9, 'batch': 5, 'loss': 5.7352423667907715}
{'epoch': 9, 'batch': 6, 'loss': 6.24421501159668}
{'epoch': 9, 'batch': 7, 'loss': 6.069311618804932}
{'epoch': 9, 'batch': 8, 'loss': 5.991618633270264}
{'epoch': 9, 'batch': 9, 'loss': 5.895542144775391}
{'epoch': 9, 'batch': 10, 'loss': 6.008501052856445}
{'epoch': 9, 'batch': 11, 'loss': 5.7269511222839355}

{'epoch': 9, 'batch': 12, 'loss': 5.967091083526611}
{'epoch': 9, 'batch': 13, 'loss': 6.111595153808594}
{'epoch': 9, 'batch': 14, 'loss': 5.6561479568481445}
{'epoch': 9, 'batch': 15, 'loss': 5.6750569343566895}
{'epoch': 9, 'batch': 16, 'loss': 5.460299015045166}
{'epoch': 9, 'batch': 17, 'loss': 5.569014549255371}
{'epoch': 9, 'batch': 18, 'loss': 5.625061988830566}
{'epoch': 9, 'batch': 19, 'loss': 5.813199520111084}
{'epoch': 9, 'batch': 20, 'loss': 5.345128059387207}
{'epoch': 9, 'batch': 21, 'loss': 5.858797550201416}
{'epoch': 9, 'batch': 22, 'loss': 5.970874309539795}
{'epoch': 9, 'batch': 23, 'loss': 5.920652866363525}
{'epoch': 9, 'batch': 24, 'loss': 5.876533031463623}
{'epoch': 9, 'batch': 25, 'loss': 5.722909450531006}
{'epoch': 9, 'batch': 26, 'loss': 5.4755048751831055}
{'epoch': 9, 'batch': 27, 'loss': 5.490434646606445}
{'epoch': 9, 'batch': 28, 'loss': 6.023059844970703}
{'epoch': 9, 'batch': 29, 'loss': 6.0671844482421875}
{'epoch': 9, 'batch': 30, 'loss': 5.257325649261475}
{'epoch': 9, 'batch': 31, 'loss': 5.272566318511963}
{'epoch': 9, 'batch': 32, 'loss': 5.413851737976074}
{'epoch': 9, 'batch': 33, 'loss': 5.809954643249512}
{'epoch': 9, 'batch': 34, 'loss': 5.673916339874268}
{'epoch': 9, 'batch': 35, 'loss': 5.68521785736084}
{'epoch': 9, 'batch': 36, 'loss': 5.733709335327148}
{'epoch': 9, 'batch': 37, 'loss': 5.641991138458252}
{'epoch': 9, 'batch': 38, 'loss': 5.9106550216674805}
{'epoch': 9, 'batch': 39, 'loss': 5.743452548980713}
{'epoch': 9, 'batch': 40, 'loss': 5.801207065582275}
{'epoch': 9, 'batch': 41, 'loss': 5.584485054016113}
{'epoch': 9, 'batch': 42, 'loss': 5.971936225891113}
{'epoch': 9, 'batch': 43, 'loss': 5.6413893699646}
{'epoch': 9, 'batch': 44, 'loss': 5.517335414886475}
{'epoch': 9, 'batch': 45, 'loss': 5.707331657409668}
{'epoch': 9, 'batch': 46, 'loss': 5.885135173797607}
{'epoch': 9, 'batch': 47, 'loss': 6.201876640319824}
{'epoch': 9, 'batch': 48, 'loss': 5.456151008605957}

```

```
{'epoch': 9, 'batch': 49, 'loss': 5.760000705718994}
{'epoch': 9, 'batch': 50, 'loss': 5.970457077026367}
{'epoch': 9, 'batch': 51, 'loss': 5.981846332550049}
{'epoch': 9, 'batch': 52, 'loss': 5.4328999519348145}
{'epoch': 9, 'batch': 53, 'loss': 5.671076774597168}
{'epoch': 9, 'batch': 54, 'loss': 5.608036518096924}
{'epoch': 9, 'batch': 55, 'loss': 5.644758701324463}
{'epoch': 9, 'batch': 56, 'loss': 5.6144537925720215}
{'epoch': 9, 'batch': 57, 'loss': 5.715494632720947}
{'epoch': 9, 'batch': 58, 'loss': 5.575666427612305}
{'epoch': 9, 'batch': 59, 'loss': 5.683475971221924}
{'epoch': 9, 'batch': 60, 'loss': 5.527523517608643}
{'epoch': 9, 'batch': 61, 'loss': 5.758902549743652}
{'epoch': 9, 'batch': 62, 'loss': 5.823013782501221}
{'epoch': 9, 'batch': 63, 'loss': 5.687621116638184}
{'epoch': 9, 'batch': 64, 'loss': 5.730238437652588}
{'epoch': 9, 'batch': 65, 'loss': 5.65022611618042}
{'epoch': 9, 'batch': 66, 'loss': 5.8812103271484375}
{'epoch': 9, 'batch': 67, 'loss': 5.560633182525635}
{'epoch': 9, 'batch': 68, 'loss': 5.768487453460693}
{'epoch': 9, 'batch': 69, 'loss': 5.347315311431885}
{'epoch': 9, 'batch': 70, 'loss': 5.941839218139648}
{'epoch': 9, 'batch': 71, 'loss': 5.721261978149414}
{'epoch': 9, 'batch': 72, 'loss': 5.782278060913086}
{'epoch': 9, 'batch': 73, 'loss': 5.731308937072754}
{'epoch': 9, 'batch': 74, 'loss': 5.753494739532471}
{'epoch': 9, 'batch': 75, 'loss': 5.8003973960876465}
{'epoch': 9, 'batch': 76, 'loss': 5.703953742980957}
{'epoch': 9, 'batch': 77, 'loss': 5.913793087005615}
{'epoch': 9, 'batch': 78, 'loss': 6.075654029846191}
{'epoch': 9, 'batch': 79, 'loss': 5.256027698516846}
{'epoch': 9, 'batch': 80, 'loss': 5.554678440093994}
{'epoch': 9, 'batch': 81, 'loss': 5.776272296905518}
{'epoch': 9, 'batch': 82, 'loss': 5.717973232269287}
{'epoch': 9, 'batch': 83, 'loss': 5.7952799797058105}
{'epoch': 9, 'batch': 84, 'loss': 5.725625991821289}
{'epoch': 0, 'batch': 0, 'loss': 8.84620189666748}
{'epoch': 0, 'batch': 1, 'loss': 8.840373039245605}
{'epoch': 0, 'batch': 2, 'loss': 8.839409828186035}
{'epoch': 0, 'batch': 3, 'loss': 8.831788063049316}
{'epoch': 0, 'batch': 4, 'loss': 8.82957935333252}
{'epoch': 0, 'batch': 5, 'loss': 8.808204650878906}
{'epoch': 0, 'batch': 6, 'loss': 8.810708999633789}
{'epoch': 0, 'batch': 7, 'loss': 8.813545227050781}
{'epoch': 0, 'batch': 8, 'loss': 8.80217170715332}
{'epoch': 0, 'batch': 9, 'loss': 8.785174369812012}
{'epoch': 0, 'batch': 10, 'loss': 8.770625114440918}
{'epoch': 0, 'batch': 11, 'loss': 8.756109237670898}
{'epoch': 0, 'batch': 12, 'loss': 8.757603645324707}
{'epoch': 0, 'batch': 13, 'loss': 8.778417587280273}
{'epoch': 0, 'batch': 14, 'loss': 8.735366821289062}
{'epoch': 0, 'batch': 15, 'loss': 8.729721069335938}
```



```
{'epoch': 0, 'batch': 16, 'loss': 8.710705757141113}
{'epoch': 0, 'batch': 17, 'loss': 8.703598976135254}
{'epoch': 0, 'batch': 18, 'loss': 8.688199043273926}
{'epoch': 0, 'batch': 19, 'loss': 8.674202919006348}
{'epoch': 0, 'batch': 20, 'loss': 8.63813591003418}
{'epoch': 0, 'batch': 21, 'loss': 8.669795989990234}
{'epoch': 0, 'batch': 22, 'loss': 8.643402099609375}
{'epoch': 0, 'batch': 23, 'loss': 8.654052734375}
{'epoch': 0, 'batch': 24, 'loss': 8.62168025970459}
{'epoch': 0, 'batch': 25, 'loss': 8.532936096191406}
{'epoch': 0, 'batch': 26, 'loss': 8.480445861816406}
{'epoch': 0, 'batch': 27, 'loss': 8.445586204528809}
{'epoch': 0, 'batch': 28, 'loss': 8.52474308013916}
{'epoch': 0, 'batch': 29, 'loss': 8.49130916595459}
{'epoch': 0, 'batch': 30, 'loss': 8.320435523986816}
{'epoch': 0, 'batch': 31, 'loss': 8.254977226257324}
{'epoch': 0, 'batch': 32, 'loss': 8.264641761779785}
{'epoch': 0, 'batch': 33, 'loss': 8.253267288208008}
{'epoch': 0, 'batch': 34, 'loss': 8.19907283782959}
{'epoch': 0, 'batch': 35, 'loss': 8.238631248474121}
{'epoch': 0, 'batch': 36, 'loss': 8.197160720825195}
{'epoch': 0, 'batch': 37, 'loss': 7.9966349601745605}
{'epoch': 0, 'batch': 38, 'loss': 8.109591484069824}
{'epoch': 0, 'batch': 39, 'loss': 8.006913185119629}
{'epoch': 0, 'batch': 40, 'loss': 8.086294174194336}
{'epoch': 0, 'batch': 41, 'loss': 7.932540416717529}
{'epoch': 0, 'batch': 42, 'loss': 7.9924235343933105}
{'epoch': 0, 'batch': 43, 'loss': 7.773559093475342}
{'epoch': 0, 'batch': 44, 'loss': 7.714595794677734}
{'epoch': 0, 'batch': 45, 'loss': 7.742307662963867}
{'epoch': 0, 'batch': 46, 'loss': 7.887802600860596}
{'epoch': 0, 'batch': 47, 'loss': 7.982405185699463}
{'epoch': 0, 'batch': 48, 'loss': 7.6315178871154785}
{'epoch': 0, 'batch': 49, 'loss': 7.800580978393555}
{'epoch': 0, 'batch': 50, 'loss': 7.840737342834473}
{'epoch': 0, 'batch': 51, 'loss': 7.714481353759766}
{'epoch': 0, 'batch': 52, 'loss': 7.39445161819458}
{'epoch': 0, 'batch': 53, 'loss': 7.566320419311523}
{'epoch': 0, 'batch': 54, 'loss': 7.419163703918457}
{'epoch': 0, 'batch': 55, 'loss': 7.506242752075195}
{'epoch': 0, 'batch': 56, 'loss': 7.52727746963501}
{'epoch': 0, 'batch': 57, 'loss': 7.5817975997924805}
{'epoch': 0, 'batch': 58, 'loss': 7.448334693908691}
{'epoch': 0, 'batch': 59, 'loss': 7.4720916748046875}
{'epoch': 0, 'batch': 60, 'loss': 7.403724193572998}
{'epoch': 0, 'batch': 61, 'loss': 7.519479274749756}
{'epoch': 0, 'batch': 62, 'loss': 7.439700126647949}
{'epoch': 0, 'batch': 63, 'loss': 7.398052215576172}
{'epoch': 0, 'batch': 64, 'loss': 7.570934772491455}
{'epoch': 0, 'batch': 65, 'loss': 7.468080520629883}
{'epoch': 0, 'batch': 66, 'loss': 7.393514633178711}
{'epoch': 0, 'batch': 67, 'loss': 7.255882263183594}
```

```

{'epoch': 0, 'batch': 68, 'loss': 7.359597206115723}
{'epoch': 0, 'batch': 69, 'loss': 7.146761417388916}
{'epoch': 0, 'batch': 70, 'loss': 7.546404838562012}
{'epoch': 0, 'batch': 71, 'loss': 7.513807773590088}
{'epoch': 0, 'batch': 72, 'loss': 7.393224716186523}
{'epoch': 0, 'batch': 73, 'loss': 7.505581378936768}
{'epoch': 0, 'batch': 74, 'loss': 7.435831069946289}
{'epoch': 0, 'batch': 75, 'loss': 7.620140075683594}
{'epoch': 0, 'batch': 76, 'loss': 7.3873772621154785}
{'epoch': 0, 'batch': 77, 'loss': 7.628122806549072}
{'epoch': 0, 'batch': 78, 'loss': 7.790595531463623}
{'epoch': 0, 'batch': 79, 'loss': 6.95000696182251}
{'epoch': 0, 'batch': 80, 'loss': 7.331557750701904}
{'epoch': 0, 'batch': 81, 'loss': 7.478366374969482}

{'epoch': 0, 'batch': 82, 'loss': 7.480832099914551}
{'epoch': 0, 'batch': 83, 'loss': 7.522109508514404}
{'epoch': 0, 'batch': 84, 'loss': 7.305879592895508}
{'epoch': 1, 'batch': 0, 'loss': 6.913716793060303}
{'epoch': 1, 'batch': 1, 'loss': 6.92926025390625}
{'epoch': 1, 'batch': 2, 'loss': 6.8800048828125}
{'epoch': 1, 'batch': 3, 'loss': 7.052510738372803}
{'epoch': 1, 'batch': 4, 'loss': 7.054492950439453}
{'epoch': 1, 'batch': 5, 'loss': 7.058553695678711}
{'epoch': 1, 'batch': 6, 'loss': 7.404904842376709}
{'epoch': 1, 'batch': 7, 'loss': 7.277083396911621}
{'epoch': 1, 'batch': 8, 'loss': 7.216602325439453}
{'epoch': 1, 'batch': 9, 'loss': 7.131399631500244}
{'epoch': 1, 'batch': 10, 'loss': 7.108081340789795}
{'epoch': 1, 'batch': 11, 'loss': 7.0316162109375}
{'epoch': 1, 'batch': 12, 'loss': 7.151919841766357}
{'epoch': 1, 'batch': 13, 'loss': 7.284883975982666}
{'epoch': 1, 'batch': 14, 'loss': 6.919370174407959}
{'epoch': 1, 'batch': 15, 'loss': 7.023009300231934}
{'epoch': 1, 'batch': 16, 'loss': 6.826688289642334}
{'epoch': 1, 'batch': 17, 'loss': 7.007080078125}
{'epoch': 1, 'batch': 18, 'loss': 6.905639171600342}
{'epoch': 1, 'batch': 19, 'loss': 7.07275915145874}
{'epoch': 1, 'batch': 20, 'loss': 6.756241798400879}
{'epoch': 1, 'batch': 21, 'loss': 7.141750812530518}
{'epoch': 1, 'batch': 22, 'loss': 7.120875835418701}
{'epoch': 1, 'batch': 23, 'loss': 7.19158411026001}
{'epoch': 1, 'batch': 24, 'loss': 7.160772323608398}
{'epoch': 1, 'batch': 25, 'loss': 6.847900867462158}
{'epoch': 1, 'batch': 26, 'loss': 6.820439338684082}
{'epoch': 1, 'batch': 27, 'loss': 6.829160690307617}
{'epoch': 1, 'batch': 28, 'loss': 7.240407943725586}
{'epoch': 1, 'batch': 29, 'loss': 7.279278755187988}
{'epoch': 1, 'batch': 30, 'loss': 6.667810916900635}
{'epoch': 1, 'batch': 31, 'loss': 6.635744571685791}
{'epoch': 1, 'batch': 32, 'loss': 6.752214431762695}
{'epoch': 1, 'batch': 33, 'loss': 6.9158172607421875}

```

```
{'epoch': 1, 'batch': 34, 'loss': 6.877702713012695}
{'epoch': 1, 'batch': 35, 'loss': 7.118676662445068}
{'epoch': 1, 'batch': 36, 'loss': 7.050261974334717}
{'epoch': 1, 'batch': 37, 'loss': 6.765786170959473}
{'epoch': 1, 'batch': 38, 'loss': 7.099615573883057}
{'epoch': 1, 'batch': 39, 'loss': 6.937397480010986}
{'epoch': 1, 'batch': 40, 'loss': 7.140887260437012}
{'epoch': 1, 'batch': 41, 'loss': 6.900303363800049}
{'epoch': 1, 'batch': 42, 'loss': 7.141643524169922}
{'epoch': 1, 'batch': 43, 'loss': 6.846268653869629}
{'epoch': 1, 'batch': 44, 'loss': 6.761820316314697}
{'epoch': 1, 'batch': 45, 'loss': 6.886318206787109}
{'epoch': 1, 'batch': 46, 'loss': 7.0980329513549805}
{'epoch': 1, 'batch': 47, 'loss': 7.389585971832275}
{'epoch': 1, 'batch': 48, 'loss': 6.8155412673950195}
{'epoch': 1, 'batch': 49, 'loss': 7.082483768463135}
{'epoch': 1, 'batch': 50, 'loss': 7.234766483306885}
{'epoch': 1, 'batch': 51, 'loss': 7.1196770668029785}
{'epoch': 1, 'batch': 52, 'loss': 6.716850757598877}
{'epoch': 1, 'batch': 53, 'loss': 6.986090183258057}
{'epoch': 1, 'batch': 54, 'loss': 6.911538600921631}
{'epoch': 1, 'batch': 55, 'loss': 6.984437942504883}
{'epoch': 1, 'batch': 56, 'loss': 6.9851975440979}
{'epoch': 1, 'batch': 57, 'loss': 7.051036834716797}
{'epoch': 1, 'batch': 58, 'loss': 6.950854301452637}
{'epoch': 1, 'batch': 59, 'loss': 7.013337135314941}
{'epoch': 1, 'batch': 60, 'loss': 6.9266815185546875}
{'epoch': 1, 'batch': 61, 'loss': 7.109236240386963}
{'epoch': 1, 'batch': 62, 'loss': 7.042259216308594}
{'epoch': 1, 'batch': 63, 'loss': 6.999926567077637}
{'epoch': 1, 'batch': 64, 'loss': 7.107367515563965}
{'epoch': 1, 'batch': 65, 'loss': 7.050717353820801}
{'epoch': 1, 'batch': 66, 'loss': 7.029813289642334}
{'epoch': 1, 'batch': 67, 'loss': 6.862461090087891}
{'epoch': 1, 'batch': 68, 'loss': 7.064199447631836}
{'epoch': 1, 'batch': 69, 'loss': 6.798478126525879}
{'epoch': 1, 'batch': 70, 'loss': 7.241560459136963}
{'epoch': 1, 'batch': 71, 'loss': 7.169766426086426}
{'epoch': 1, 'batch': 72, 'loss': 7.058938503265381}
{'epoch': 1, 'batch': 73, 'loss': 7.133633136749268}
{'epoch': 1, 'batch': 74, 'loss': 7.114633560180664}
{'epoch': 1, 'batch': 75, 'loss': 7.270168304443359}
{'epoch': 1, 'batch': 76, 'loss': 7.0984578132629395}
{'epoch': 1, 'batch': 77, 'loss': 7.333303928375244}
{'epoch': 1, 'batch': 78, 'loss': 7.445965766906738}
{'epoch': 1, 'batch': 79, 'loss': 6.7071661949157715}
{'epoch': 1, 'batch': 80, 'loss': 7.007126808166504}
{'epoch': 1, 'batch': 81, 'loss': 7.1777753829956055}
{'epoch': 1, 'batch': 82, 'loss': 7.156337261199951}
{'epoch': 1, 'batch': 83, 'loss': 7.238905906677246}
{'epoch': 1, 'batch': 84, 'loss': 7.05457878112793}
{'epoch': 2, 'batch': 0, 'loss': 6.863091945648193}
```

```
{'epoch': 2, 'batch': 1, 'loss': 6.836493015289307}
{'epoch': 2, 'batch': 2, 'loss': 6.789808750152588}
{'epoch': 2, 'batch': 3, 'loss': 6.95094633102417}
{'epoch': 2, 'batch': 4, 'loss': 6.918843746185303}
{'epoch': 2, 'batch': 5, 'loss': 6.929798603057861}
{'epoch': 2, 'batch': 6, 'loss': 7.308254241943359}
{'epoch': 2, 'batch': 7, 'loss': 7.130069255828857}
{'epoch': 2, 'batch': 8, 'loss': 7.072497367858887}
{'epoch': 2, 'batch': 9, 'loss': 7.019407272338867}
{'epoch': 2, 'batch': 10, 'loss': 6.998460292816162}
{'epoch': 2, 'batch': 11, 'loss': 6.900020599365234}
{'epoch': 2, 'batch': 12, 'loss': 7.021500110626221}
{'epoch': 2, 'batch': 13, 'loss': 7.153616905212402}
{'epoch': 2, 'batch': 14, 'loss': 6.797931671142578}
{'epoch': 2, 'batch': 15, 'loss': 6.8787665367126465}
{'epoch': 2, 'batch': 16, 'loss': 6.67108154296875}
{'epoch': 2, 'batch': 17, 'loss': 6.840938091278076}
{'epoch': 2, 'batch': 18, 'loss': 6.751247882843018}
{'epoch': 2, 'batch': 19, 'loss': 6.939448356628418}
{'epoch': 2, 'batch': 20, 'loss': 6.583437919616699}
{'epoch': 2, 'batch': 21, 'loss': 7.016707420349121}
{'epoch': 2, 'batch': 22, 'loss': 7.015913963317871}
{'epoch': 2, 'batch': 23, 'loss': 7.06589937210083}
{'epoch': 2, 'batch': 24, 'loss': 7.036650657653809}
{'epoch': 2, 'batch': 25, 'loss': 6.728826999664307}
{'epoch': 2, 'batch': 26, 'loss': 6.671161651611328}
{'epoch': 2, 'batch': 27, 'loss': 6.702934265136719}
{'epoch': 2, 'batch': 28, 'loss': 7.139593124389648}
{'epoch': 2, 'batch': 29, 'loss': 7.196107387542725}
{'epoch': 2, 'batch': 30, 'loss': 6.546441078186035}
{'epoch': 2, 'batch': 31, 'loss': 6.5229926109313965}
{'epoch': 2, 'batch': 32, 'loss': 6.624782085418701}
{'epoch': 2, 'batch': 33, 'loss': 6.824460506439209}
{'epoch': 2, 'batch': 34, 'loss': 6.77879524230957}
{'epoch': 2, 'batch': 35, 'loss': 7.012984275817871}
{'epoch': 2, 'batch': 36, 'loss': 6.943673133850098}
{'epoch': 2, 'batch': 37, 'loss': 6.663980007171631}
{'epoch': 2, 'batch': 38, 'loss': 7.028635025024414}
{'epoch': 2, 'batch': 39, 'loss': 6.8548903465271}
{'epoch': 2, 'batch': 40, 'loss': 7.048005104064941}
{'epoch': 2, 'batch': 41, 'loss': 6.789186477661133}
{'epoch': 2, 'batch': 42, 'loss': 7.0665106773376465}
{'epoch': 2, 'batch': 43, 'loss': 6.750685214996338}
{'epoch': 2, 'batch': 44, 'loss': 6.64609432220459}
{'epoch': 2, 'batch': 45, 'loss': 6.774035453796387}
{'epoch': 2, 'batch': 46, 'loss': 6.997429370880127}
{'epoch': 2, 'batch': 47, 'loss': 7.3140034675598145}
{'epoch': 2, 'batch': 48, 'loss': 6.675370693206787}
{'epoch': 2, 'batch': 49, 'loss': 6.976860046386719}
{'epoch': 2, 'batch': 50, 'loss': 7.109195232391357}
{'epoch': 2, 'batch': 51, 'loss': 7.02237606048584}
{'epoch': 2, 'batch': 52, 'loss': 6.576992511749268}
```

```

{'epoch': 2, 'batch': 53, 'loss': 6.851865768432617}
{'epoch': 2, 'batch': 54, 'loss': 6.811629772186279}
{'epoch': 2, 'batch': 55, 'loss': 6.855042934417725}
{'epoch': 2, 'batch': 56, 'loss': 6.850734710693359}
{'epoch': 2, 'batch': 57, 'loss': 6.887165069580078}
{'epoch': 2, 'batch': 58, 'loss': 6.804311275482178}
{'epoch': 2, 'batch': 59, 'loss': 6.866037845611572}
{'epoch': 2, 'batch': 60, 'loss': 6.771356105804443}
{'epoch': 2, 'batch': 61, 'loss': 6.964421272277832}
{'epoch': 2, 'batch': 62, 'loss': 6.901221752166748}
{'epoch': 2, 'batch': 63, 'loss': 6.855209827423096}
{'epoch': 2, 'batch': 64, 'loss': 6.9159016609191895}
{'epoch': 2, 'batch': 65, 'loss': 6.877795219421387}
{'epoch': 2, 'batch': 66, 'loss': 6.879485130310059}
{'epoch': 2, 'batch': 67, 'loss': 6.688920497894287}

{'epoch': 2, 'batch': 68, 'loss': 6.910951137542725}
{'epoch': 2, 'batch': 69, 'loss': 6.619767665863037}
{'epoch': 2, 'batch': 70, 'loss': 7.116123676300049}
{'epoch': 2, 'batch': 71, 'loss': 7.004033088684082}
{'epoch': 2, 'batch': 72, 'loss': 6.8966827392578125}
{'epoch': 2, 'batch': 73, 'loss': 6.942740440368652}
{'epoch': 2, 'batch': 74, 'loss': 6.955939292907715}
{'epoch': 2, 'batch': 75, 'loss': 7.091134071350098}
{'epoch': 2, 'batch': 76, 'loss': 6.933513641357422}
{'epoch': 2, 'batch': 77, 'loss': 7.179579257965088}
{'epoch': 2, 'batch': 78, 'loss': 7.270140647888184}
{'epoch': 2, 'batch': 79, 'loss': 6.5736212730407715}
{'epoch': 2, 'batch': 80, 'loss': 6.819275856018066}
{'epoch': 2, 'batch': 81, 'loss': 7.011289119720459}
{'epoch': 2, 'batch': 82, 'loss': 6.967203140258789}
{'epoch': 2, 'batch': 83, 'loss': 7.071953296661377}
{'epoch': 2, 'batch': 84, 'loss': 6.9172749519348145}
{'epoch': 3, 'batch': 0, 'loss': 6.778517723083496}
{'epoch': 3, 'batch': 1, 'loss': 6.7372260093688965}
{'epoch': 3, 'batch': 2, 'loss': 6.691762447357178}
{'epoch': 3, 'batch': 3, 'loss': 6.849155426025391}
{'epoch': 3, 'batch': 4, 'loss': 6.799185752868652}
{'epoch': 3, 'batch': 5, 'loss': 6.8179121017456055}
{'epoch': 3, 'batch': 6, 'loss': 7.237603187561035}
{'epoch': 3, 'batch': 7, 'loss': 7.024726390838623}
{'epoch': 3, 'batch': 8, 'loss': 6.968168258666992}
{'epoch': 3, 'batch': 9, 'loss': 6.938377857208252}
{'epoch': 3, 'batch': 10, 'loss': 6.922577381134033}
{'epoch': 3, 'batch': 11, 'loss': 6.796498775482178}
{'epoch': 3, 'batch': 12, 'loss': 6.922311782836914}
{'epoch': 3, 'batch': 13, 'loss': 7.0690412521362305}
{'epoch': 3, 'batch': 14, 'loss': 6.688605308532715}
{'epoch': 3, 'batch': 15, 'loss': 6.773200035095215}
{'epoch': 3, 'batch': 16, 'loss': 6.552200794219971}
{'epoch': 3, 'batch': 17, 'loss': 6.71458625793457}
{'epoch': 3, 'batch': 18, 'loss': 6.634713649749756}

```

```
{'epoch': 3, 'batch': 19, 'loss': 6.839259624481201}
{'epoch': 3, 'batch': 20, 'loss': 6.446095943450928}
{'epoch': 3, 'batch': 21, 'loss': 6.914449691772461}
{'epoch': 3, 'batch': 22, 'loss': 6.921299457550049}
{'epoch': 3, 'batch': 23, 'loss': 6.96856689453125}
{'epoch': 3, 'batch': 24, 'loss': 6.937804698944092}
{'epoch': 3, 'batch': 25, 'loss': 6.625776767730713}
{'epoch': 3, 'batch': 26, 'loss': 6.547933578491211}
{'epoch': 3, 'batch': 27, 'loss': 6.584475994110107}
{'epoch': 3, 'batch': 28, 'loss': 7.0478973388671875}
{'epoch': 3, 'batch': 29, 'loss': 7.103653430938721}
{'epoch': 3, 'batch': 30, 'loss': 6.43577241897583}
{'epoch': 3, 'batch': 31, 'loss': 6.413863658905029}
{'epoch': 3, 'batch': 32, 'loss': 6.512300968170166}
{'epoch': 3, 'batch': 33, 'loss': 6.738500595092773}
{'epoch': 3, 'batch': 34, 'loss': 6.683895111083984}
{'epoch': 3, 'batch': 35, 'loss': 6.9037089347839355}
{'epoch': 3, 'batch': 36, 'loss': 6.834472179412842}
{'epoch': 3, 'batch': 37, 'loss': 6.570431709289551}
{'epoch': 3, 'batch': 38, 'loss': 6.951343536376953}
{'epoch': 3, 'batch': 39, 'loss': 6.760464191436768}
{'epoch': 3, 'batch': 40, 'loss': 6.958831787109375}
{'epoch': 3, 'batch': 41, 'loss': 6.689143657684326}
{'epoch': 3, 'batch': 42, 'loss': 6.9832258224487305}
{'epoch': 3, 'batch': 43, 'loss': 6.660129070281982}
{'epoch': 3, 'batch': 44, 'loss': 6.545538902282715}
{'epoch': 3, 'batch': 45, 'loss': 6.67319917678833}
{'epoch': 3, 'batch': 46, 'loss': 6.911502361297607}
{'epoch': 3, 'batch': 47, 'loss': 7.237837314605713}
{'epoch': 3, 'batch': 48, 'loss': 6.556464672088623}
{'epoch': 3, 'batch': 49, 'loss': 6.886773586273193}
{'epoch': 3, 'batch': 50, 'loss': 7.011977672576904}
{'epoch': 3, 'batch': 51, 'loss': 6.936835289001465}
{'epoch': 3, 'batch': 52, 'loss': 6.457551002502441}
{'epoch': 3, 'batch': 53, 'loss': 6.744124412536621}
{'epoch': 3, 'batch': 54, 'loss': 6.718379974365234}
{'epoch': 3, 'batch': 55, 'loss': 6.740474700927734}
{'epoch': 3, 'batch': 56, 'loss': 6.739497661590576}
{'epoch': 3, 'batch': 57, 'loss': 6.758446216583252}
{'epoch': 3, 'batch': 58, 'loss': 6.69093656539917}
{'epoch': 3, 'batch': 59, 'loss': 6.752021789550781}
{'epoch': 3, 'batch': 60, 'loss': 6.645284175872803}
{'epoch': 3, 'batch': 61, 'loss': 6.8470234870910645}
{'epoch': 3, 'batch': 62, 'loss': 6.79139518737793}
{'epoch': 3, 'batch': 63, 'loss': 6.738441467285156}
{'epoch': 3, 'batch': 64, 'loss': 6.769133567810059}
{'epoch': 3, 'batch': 65, 'loss': 6.752957344055176}
{'epoch': 3, 'batch': 66, 'loss': 6.765002727508545}
{'epoch': 3, 'batch': 67, 'loss': 6.553219795227051}
{'epoch': 3, 'batch': 68, 'loss': 6.7866597175598145}
{'epoch': 3, 'batch': 69, 'loss': 6.477042198181152}
{'epoch': 3, 'batch': 70, 'loss': 7.015524387359619}
```

```
{'epoch': 3, 'batch': 71, 'loss': 6.869642734527588}
{'epoch': 3, 'batch': 72, 'loss': 6.771501541137695}
{'epoch': 3, 'batch': 73, 'loss': 6.806091785430908}
{'epoch': 3, 'batch': 74, 'loss': 6.828506946563721}
{'epoch': 3, 'batch': 75, 'loss': 6.953896999359131}
{'epoch': 3, 'batch': 76, 'loss': 6.8095173835754395}
{'epoch': 3, 'batch': 77, 'loss': 7.054843425750732}
{'epoch': 3, 'batch': 78, 'loss': 7.13517951965332}
{'epoch': 3, 'batch': 79, 'loss': 6.458757400512695}
{'epoch': 3, 'batch': 80, 'loss': 6.668839931488037}
{'epoch': 3, 'batch': 81, 'loss': 6.879557132720947}
{'epoch': 3, 'batch': 82, 'loss': 6.8188886642456055}
{'epoch': 3, 'batch': 83, 'loss': 6.9414215087890625}
{'epoch': 3, 'batch': 84, 'loss': 6.808985710144043}
{'epoch': 4, 'batch': 0, 'loss': 6.687464714050293}
{'epoch': 4, 'batch': 1, 'loss': 6.633638381958008}
{'epoch': 4, 'batch': 2, 'loss': 6.598083972930908}
{'epoch': 4, 'batch': 3, 'loss': 6.751138687133789}
{'epoch': 4, 'batch': 4, 'loss': 6.686726093292236}
{'epoch': 4, 'batch': 5, 'loss': 6.714019775390625}
{'epoch': 4, 'batch': 6, 'loss': 7.156551837921143}
{'epoch': 4, 'batch': 7, 'loss': 6.931612014770508}
{'epoch': 4, 'batch': 8, 'loss': 6.872178077697754}
{'epoch': 4, 'batch': 9, 'loss': 6.853667259216309}
{'epoch': 4, 'batch': 10, 'loss': 6.84291934967041}
{'epoch': 4, 'batch': 11, 'loss': 6.69240665435791}
{'epoch': 4, 'batch': 12, 'loss': 6.828476905822754}
{'epoch': 4, 'batch': 13, 'loss': 6.9906697273254395}
{'epoch': 4, 'batch': 14, 'loss': 6.5836920738220215}
{'epoch': 4, 'batch': 15, 'loss': 6.678427696228027}
{'epoch': 4, 'batch': 16, 'loss': 6.446669578552246}
{'epoch': 4, 'batch': 17, 'loss': 6.601596355438232}
{'epoch': 4, 'batch': 18, 'loss': 6.530233860015869}
{'epoch': 4, 'batch': 19, 'loss': 6.747457504272461}
{'epoch': 4, 'batch': 20, 'loss': 6.325960159301758}
{'epoch': 4, 'batch': 21, 'loss': 6.8138813972473145}
{'epoch': 4, 'batch': 22, 'loss': 6.83194637298584}
{'epoch': 4, 'batch': 23, 'loss': 6.879934310913086}
{'epoch': 4, 'batch': 24, 'loss': 6.839878082275391}
{'epoch': 4, 'batch': 25, 'loss': 6.5327253341674805}
{'epoch': 4, 'batch': 26, 'loss': 6.433644771575928}
{'epoch': 4, 'batch': 27, 'loss': 6.473142623901367}
{'epoch': 4, 'batch': 28, 'loss': 6.957393646240234}
{'epoch': 4, 'batch': 29, 'loss': 7.005425930023193}
{'epoch': 4, 'batch': 30, 'loss': 6.321545124053955}
{'epoch': 4, 'batch': 31, 'loss': 6.301136016845703}
{'epoch': 4, 'batch': 32, 'loss': 6.405920028686523}
{'epoch': 4, 'batch': 33, 'loss': 6.64845609664917}
{'epoch': 4, 'batch': 34, 'loss': 6.587230682373047}
{'epoch': 4, 'batch': 35, 'loss': 6.791435241699219}
{'epoch': 4, 'batch': 36, 'loss': 6.7236223220825195}
{'epoch': 4, 'batch': 37, 'loss': 6.476370811462402}
```

```

{'epoch': 4, 'batch': 38, 'loss': 6.868537902832031}
{'epoch': 4, 'batch': 39, 'loss': 6.664417266845703}
{'epoch': 4, 'batch': 40, 'loss': 6.862349033355713}
{'epoch': 4, 'batch': 41, 'loss': 6.592381000518799}
{'epoch': 4, 'batch': 42, 'loss': 6.894208908081055}
{'epoch': 4, 'batch': 43, 'loss': 6.5651021003723145}
{'epoch': 4, 'batch': 44, 'loss': 6.446095943450928}
{'epoch': 4, 'batch': 45, 'loss': 6.580212593078613}
{'epoch': 4, 'batch': 46, 'loss': 6.823530197143555}
{'epoch': 4, 'batch': 47, 'loss': 7.150096416473389}
{'epoch': 4, 'batch': 48, 'loss': 6.439993858337402}
{'epoch': 4, 'batch': 49, 'loss': 6.791732311248779}
{'epoch': 4, 'batch': 50, 'loss': 6.9157328605651855}
{'epoch': 4, 'batch': 51, 'loss': 6.852260112762451}
{'epoch': 4, 'batch': 52, 'loss': 6.348114967346191}

{'epoch': 4, 'batch': 53, 'loss': 6.641442775726318}
{'epoch': 4, 'batch': 54, 'loss': 6.623854160308838}
{'epoch': 4, 'batch': 55, 'loss': 6.629458427429199}
{'epoch': 4, 'batch': 56, 'loss': 6.62684440612793}
{'epoch': 4, 'batch': 57, 'loss': 6.6419677734375}
{'epoch': 4, 'batch': 58, 'loss': 6.586630344390869}
{'epoch': 4, 'batch': 59, 'loss': 6.647797584533691}
{'epoch': 4, 'batch': 60, 'loss': 6.529642581939697}
{'epoch': 4, 'batch': 61, 'loss': 6.740311622619629}
{'epoch': 4, 'batch': 62, 'loss': 6.692389965057373}
{'epoch': 4, 'batch': 63, 'loss': 6.62648344039917}
{'epoch': 4, 'batch': 64, 'loss': 6.639392375946045}
{'epoch': 4, 'batch': 65, 'loss': 6.643460273742676}
{'epoch': 4, 'batch': 66, 'loss': 6.662723541259766}
{'epoch': 4, 'batch': 67, 'loss': 6.430846691131592}
{'epoch': 4, 'batch': 68, 'loss': 6.675912857055664}
{'epoch': 4, 'batch': 69, 'loss': 6.345853328704834}
{'epoch': 4, 'batch': 70, 'loss': 6.921098709106445}
{'epoch': 4, 'batch': 71, 'loss': 6.747706413269043}
{'epoch': 4, 'batch': 72, 'loss': 6.6574931144714355}
{'epoch': 4, 'batch': 73, 'loss': 6.687900066375732}
{'epoch': 4, 'batch': 74, 'loss': 6.712867259979248}
{'epoch': 4, 'batch': 75, 'loss': 6.832268714904785}
{'epoch': 4, 'batch': 76, 'loss': 6.702178001403809}
{'epoch': 4, 'batch': 77, 'loss': 6.94131326675415}
{'epoch': 4, 'batch': 78, 'loss': 7.016646862030029}
{'epoch': 4, 'batch': 79, 'loss': 6.344212532043457}
{'epoch': 4, 'batch': 80, 'loss': 6.532334327697754}
{'epoch': 4, 'batch': 81, 'loss': 6.760998249053955}
{'epoch': 4, 'batch': 82, 'loss': 6.68293571472168}
{'epoch': 4, 'batch': 83, 'loss': 6.821688652038574}
{'epoch': 4, 'batch': 84, 'loss': 6.712879657745361}
{'epoch': 5, 'batch': 0, 'loss': 6.592483997344971}
{'epoch': 5, 'batch': 1, 'loss': 6.529515266418457}
{'epoch': 5, 'batch': 2, 'loss': 6.502076148986816}
{'epoch': 5, 'batch': 3, 'loss': 6.653950214385986}

```



```
{'epoch': 5, 'batch': 4, 'loss': 6.574285507202148}
{'epoch': 5, 'batch': 5, 'loss': 6.608707427978516}
{'epoch': 5, 'batch': 6, 'loss': 7.073607444763184}
{'epoch': 5, 'batch': 7, 'loss': 6.836912631988525}
{'epoch': 5, 'batch': 8, 'loss': 6.773764610290527}
{'epoch': 5, 'batch': 9, 'loss': 6.759830474853516}
{'epoch': 5, 'batch': 10, 'loss': 6.758818626403809}
{'epoch': 5, 'batch': 11, 'loss': 6.585686683654785}
{'epoch': 5, 'batch': 12, 'loss': 6.731264114379883}
{'epoch': 5, 'batch': 13, 'loss': 6.909412384033203}
{'epoch': 5, 'batch': 14, 'loss': 6.476513862609863}
{'epoch': 5, 'batch': 15, 'loss': 6.5847697257995605}
{'epoch': 5, 'batch': 16, 'loss': 6.3395094871521}
{'epoch': 5, 'batch': 17, 'loss': 6.488820552825928}
{'epoch': 5, 'batch': 18, 'loss': 6.4279961585998535}
{'epoch': 5, 'batch': 19, 'loss': 6.652408123016357}
{'epoch': 5, 'batch': 20, 'loss': 6.209164142608643}
{'epoch': 5, 'batch': 21, 'loss': 6.7092061042785645}
{'epoch': 5, 'batch': 22, 'loss': 6.7430925369262695}
{'epoch': 5, 'batch': 23, 'loss': 6.792337417602539}
{'epoch': 5, 'batch': 24, 'loss': 6.740113258361816}
{'epoch': 5, 'batch': 25, 'loss': 6.44225549697876}
{'epoch': 5, 'batch': 26, 'loss': 6.318988800048828}
{'epoch': 5, 'batch': 27, 'loss': 6.359021186828613}
{'epoch': 5, 'batch': 28, 'loss': 6.862681865692139}
{'epoch': 5, 'batch': 29, 'loss': 6.902229309082031}
{'epoch': 5, 'batch': 30, 'loss': 6.201319217681885}
{'epoch': 5, 'batch': 31, 'loss': 6.186157703399658}
{'epoch': 5, 'batch': 32, 'loss': 6.299875736236572}
{'epoch': 5, 'batch': 33, 'loss': 6.552679061889648}
{'epoch': 5, 'batch': 34, 'loss': 6.483806133270264}
{'epoch': 5, 'batch': 35, 'loss': 6.673541069030762}
{'epoch': 5, 'batch': 36, 'loss': 6.612042427062988}
{'epoch': 5, 'batch': 37, 'loss': 6.3815412521362305}
{'epoch': 5, 'batch': 38, 'loss': 6.777983665466309}
{'epoch': 5, 'batch': 39, 'loss': 6.5663161277771}
{'epoch': 5, 'batch': 40, 'loss': 6.759281158447266}
{'epoch': 5, 'batch': 41, 'loss': 6.488779067993164}
{'epoch': 5, 'batch': 42, 'loss': 6.801468849182129}
{'epoch': 5, 'batch': 43, 'loss': 6.465627670288086}
{'epoch': 5, 'batch': 44, 'loss': 6.346179485321045}
{'epoch': 5, 'batch': 45, 'loss': 6.487618446350098}
{'epoch': 5, 'batch': 46, 'loss': 6.729374885559082}
{'epoch': 5, 'batch': 47, 'loss': 7.054739475250244}
{'epoch': 5, 'batch': 48, 'loss': 6.321005821228027}
{'epoch': 5, 'batch': 49, 'loss': 6.694640159606934}
{'epoch': 5, 'batch': 50, 'loss': 6.815950393676758}
{'epoch': 5, 'batch': 51, 'loss': 6.766538619995117}
{'epoch': 5, 'batch': 52, 'loss': 6.241191387176514}
{'epoch': 5, 'batch': 53, 'loss': 6.53712797164917}
{'epoch': 5, 'batch': 54, 'loss': 6.522295951843262}
{'epoch': 5, 'batch': 55, 'loss': 6.517716884613037}
```

```
{'epoch': 5, 'batch': 56, 'loss': 6.510293006896973}
{'epoch': 5, 'batch': 57, 'loss': 6.5276384353637695}
{'epoch': 5, 'batch': 58, 'loss': 6.482470512390137}
{'epoch': 5, 'batch': 59, 'loss': 6.5467705726623535}
{'epoch': 5, 'batch': 60, 'loss': 6.41685152053833}
{'epoch': 5, 'batch': 61, 'loss': 6.6369171142578125}
{'epoch': 5, 'batch': 62, 'loss': 6.594117164611816}
{'epoch': 5, 'batch': 63, 'loss': 6.513701915740967}
{'epoch': 5, 'batch': 64, 'loss': 6.516513347625732}
{'epoch': 5, 'batch': 65, 'loss': 6.536012649536133}
{'epoch': 5, 'batch': 66, 'loss': 6.563721179962158}
{'epoch': 5, 'batch': 67, 'loss': 6.314262390136719}
{'epoch': 5, 'batch': 68, 'loss': 6.570925712585449}
{'epoch': 5, 'batch': 69, 'loss': 6.224680423736572}
{'epoch': 5, 'batch': 70, 'loss': 6.825653553009033}
{'epoch': 5, 'batch': 71, 'loss': 6.630825042724609}
{'epoch': 5, 'batch': 72, 'loss': 6.549001693725586}
{'epoch': 5, 'batch': 73, 'loss': 6.577635288238525}
{'epoch': 5, 'batch': 74, 'loss': 6.604410171508789}
{'epoch': 5, 'batch': 75, 'loss': 6.718903064727783}
{'epoch': 5, 'batch': 76, 'loss': 6.601798057556152}
{'epoch': 5, 'batch': 77, 'loss': 6.832212924957275}
{'epoch': 5, 'batch': 78, 'loss': 6.904791831970215}
{'epoch': 5, 'batch': 79, 'loss': 6.227354049682617}
{'epoch': 5, 'batch': 80, 'loss': 6.405900001525879}
{'epoch': 5, 'batch': 81, 'loss': 6.647125720977783}
{'epoch': 5, 'batch': 82, 'loss': 6.553262710571289}
{'epoch': 5, 'batch': 83, 'loss': 6.705871105194092}
{'epoch': 5, 'batch': 84, 'loss': 6.619896411895752}
{'epoch': 6, 'batch': 0, 'loss': 6.493066310882568}
{'epoch': 6, 'batch': 1, 'loss': 6.421279430389404}
{'epoch': 6, 'batch': 2, 'loss': 6.402975082397461}
{'epoch': 6, 'batch': 3, 'loss': 6.556510925292969}
{'epoch': 6, 'batch': 4, 'loss': 6.463982582092285}
{'epoch': 6, 'batch': 5, 'loss': 6.502326488494873}
{'epoch': 6, 'batch': 6, 'loss': 6.984782695770264}
{'epoch': 6, 'batch': 7, 'loss': 6.737110137939453}
{'epoch': 6, 'batch': 8, 'loss': 6.674900054931641}
{'epoch': 6, 'batch': 9, 'loss': 6.661210536956787}
{'epoch': 6, 'batch': 10, 'loss': 6.672298908233643}
{'epoch': 6, 'batch': 11, 'loss': 6.480209827423096}
{'epoch': 6, 'batch': 12, 'loss': 6.634553909301758}
{'epoch': 6, 'batch': 13, 'loss': 6.8230180740356445}
{'epoch': 6, 'batch': 14, 'loss': 6.366541862487793}
{'epoch': 6, 'batch': 15, 'loss': 6.488380432128906}
{'epoch': 6, 'batch': 16, 'loss': 6.231452941894531}
{'epoch': 6, 'batch': 17, 'loss': 6.374844074249268}
{'epoch': 6, 'batch': 18, 'loss': 6.328246593475342}
{'epoch': 6, 'batch': 19, 'loss': 6.550562381744385}
{'epoch': 6, 'batch': 20, 'loss': 6.094592094421387}
{'epoch': 6, 'batch': 21, 'loss': 6.605846881866455}
{'epoch': 6, 'batch': 22, 'loss': 6.648891925811768}
```

```
{'epoch': 6, 'batch': 23, 'loss': 6.703641891479492}
{'epoch': 6, 'batch': 24, 'loss': 6.640364646911621}
{'epoch': 6, 'batch': 25, 'loss': 6.352832794189453}
{'epoch': 6, 'batch': 26, 'loss': 6.205854892730713}
{'epoch': 6, 'batch': 27, 'loss': 6.241466999053955}
{'epoch': 6, 'batch': 28, 'loss': 6.765860080718994}
{'epoch': 6, 'batch': 29, 'loss': 6.796833515167236}
{'epoch': 6, 'batch': 30, 'loss': 6.078829765319824}
{'epoch': 6, 'batch': 31, 'loss': 6.073727130889893}
{'epoch': 6, 'batch': 32, 'loss': 6.19461727142334}
{'epoch': 6, 'batch': 33, 'loss': 6.455026149749756}
{'epoch': 6, 'batch': 34, 'loss': 6.379189491271973}
{'epoch': 6, 'batch': 35, 'loss': 6.556715965270996}
{'epoch': 6, 'batch': 36, 'loss': 6.501072406768799}
{'epoch': 6, 'batch': 37, 'loss': 6.286438941955566}
{'epoch': 6, 'batch': 38, 'loss': 6.683113098144531}

{'epoch': 6, 'batch': 39, 'loss': 6.468286037445068}
{'epoch': 6, 'batch': 40, 'loss': 6.651172161102295}
{'epoch': 6, 'batch': 41, 'loss': 6.383411884307861}
{'epoch': 6, 'batch': 42, 'loss': 6.704739093780518}
{'epoch': 6, 'batch': 43, 'loss': 6.363165855407715}
{'epoch': 6, 'batch': 44, 'loss': 6.248056888580322}
{'epoch': 6, 'batch': 45, 'loss': 6.394838809967041}
{'epoch': 6, 'batch': 46, 'loss': 6.630842208862305}
{'epoch': 6, 'batch': 47, 'loss': 6.957983493804932}
{'epoch': 6, 'batch': 48, 'loss': 6.204428195953369}
{'epoch': 6, 'batch': 49, 'loss': 6.597391605377197}
{'epoch': 6, 'batch': 50, 'loss': 6.716698169708252}
{'epoch': 6, 'batch': 51, 'loss': 6.681467533111572}
{'epoch': 6, 'batch': 52, 'loss': 6.139378070831299}
{'epoch': 6, 'batch': 53, 'loss': 6.433310508728027}
{'epoch': 6, 'batch': 54, 'loss': 6.417742729187012}
{'epoch': 6, 'batch': 55, 'loss': 6.405985355377197}
{'epoch': 6, 'batch': 56, 'loss': 6.39459753036499}
{'epoch': 6, 'batch': 57, 'loss': 6.418426990509033}
{'epoch': 6, 'batch': 58, 'loss': 6.379385471343994}
{'epoch': 6, 'batch': 59, 'loss': 6.447997093200684}
{'epoch': 6, 'batch': 60, 'loss': 6.311619758605957}
{'epoch': 6, 'batch': 61, 'loss': 6.533695697784424}
{'epoch': 6, 'batch': 62, 'loss': 6.495761871337891}
{'epoch': 6, 'batch': 63, 'loss': 6.4042792320251465}
{'epoch': 6, 'batch': 64, 'loss': 6.402578830718994}
{'epoch': 6, 'batch': 65, 'loss': 6.43181037902832}
{'epoch': 6, 'batch': 66, 'loss': 6.467814922332764}
{'epoch': 6, 'batch': 67, 'loss': 6.203305721282959}
{'epoch': 6, 'batch': 68, 'loss': 6.470870494842529}
{'epoch': 6, 'batch': 69, 'loss': 6.112009048461914}
{'epoch': 6, 'batch': 70, 'loss': 6.728471755981445}
{'epoch': 6, 'batch': 71, 'loss': 6.520515441894531}
{'epoch': 6, 'batch': 72, 'loss': 6.446565628051758}
{'epoch': 6, 'batch': 73, 'loss': 6.473135948181152}
```

```
{'epoch': 6, 'batch': 74, 'loss': 6.50286340713501}
{'epoch': 6, 'batch': 75, 'loss': 6.610602855682373}
{'epoch': 6, 'batch': 76, 'loss': 6.5043768882751465}
{'epoch': 6, 'batch': 77, 'loss': 6.7218451499938965}
{'epoch': 6, 'batch': 78, 'loss': 6.796679973602295}
{'epoch': 6, 'batch': 79, 'loss': 6.1101813316345215}
{'epoch': 6, 'batch': 80, 'loss': 6.287928581237793}
{'epoch': 6, 'batch': 81, 'loss': 6.53704309463501}
{'epoch': 6, 'batch': 82, 'loss': 6.43296480178833}
{'epoch': 6, 'batch': 83, 'loss': 6.59493350982666}
{'epoch': 6, 'batch': 84, 'loss': 6.5263214111328125}
{'epoch': 7, 'batch': 0, 'loss': 6.3908610343933105}
{'epoch': 7, 'batch': 1, 'loss': 6.3127970695495605}
{'epoch': 7, 'batch': 2, 'loss': 6.3047566413879395}
{'epoch': 7, 'batch': 3, 'loss': 6.4604291915893555}
{'epoch': 7, 'batch': 4, 'loss': 6.359881401062012}
{'epoch': 7, 'batch': 5, 'loss': 6.396255016326904}
{'epoch': 7, 'batch': 6, 'loss': 6.890528678894043}
{'epoch': 7, 'batch': 7, 'loss': 6.638139724731445}
{'epoch': 7, 'batch': 8, 'loss': 6.575933933258057}
{'epoch': 7, 'batch': 9, 'loss': 6.5600175857543945}
{'epoch': 7, 'batch': 10, 'loss': 6.58585262298584}
{'epoch': 7, 'batch': 11, 'loss': 6.376469135284424}
{'epoch': 7, 'batch': 12, 'loss': 6.538519382476807}
{'epoch': 7, 'batch': 13, 'loss': 6.73404598236084}
{'epoch': 7, 'batch': 14, 'loss': 6.255644798278809}
{'epoch': 7, 'batch': 15, 'loss': 6.392065048217773}
{'epoch': 7, 'batch': 16, 'loss': 6.122201442718506}
{'epoch': 7, 'batch': 17, 'loss': 6.2607598304748535}
{'epoch': 7, 'batch': 18, 'loss': 6.231634616851807}
{'epoch': 7, 'batch': 19, 'loss': 6.446205139160156}
{'epoch': 7, 'batch': 20, 'loss': 5.985624313354492}
{'epoch': 7, 'batch': 21, 'loss': 6.504922389984131}
{'epoch': 7, 'batch': 22, 'loss': 6.549998760223389}
{'epoch': 7, 'batch': 23, 'loss': 6.613152980804443}
{'epoch': 7, 'batch': 24, 'loss': 6.5402655601501465}
{'epoch': 7, 'batch': 25, 'loss': 6.266809463500977}
{'epoch': 7, 'batch': 26, 'loss': 6.095739364624023}
{'epoch': 7, 'batch': 27, 'loss': 6.12262487411499}
{'epoch': 7, 'batch': 28, 'loss': 6.668556213378906}
{'epoch': 7, 'batch': 29, 'loss': 6.689581394195557}
{'epoch': 7, 'batch': 30, 'loss': 5.959266185760498}
{'epoch': 7, 'batch': 31, 'loss': 5.963396072387695}
{'epoch': 7, 'batch': 32, 'loss': 6.093879699707031}
{'epoch': 7, 'batch': 33, 'loss': 6.357112884521484}
{'epoch': 7, 'batch': 34, 'loss': 6.276648044586182}
{'epoch': 7, 'batch': 35, 'loss': 6.442599296569824}
{'epoch': 7, 'batch': 36, 'loss': 6.390270233154297}
{'epoch': 7, 'batch': 37, 'loss': 6.193577766418457}
{'epoch': 7, 'batch': 38, 'loss': 6.582747936248779}
{'epoch': 7, 'batch': 39, 'loss': 6.370147705078125}
{'epoch': 7, 'batch': 40, 'loss': 6.538499355316162}
```

```
{'epoch': 7, 'batch': 41, 'loss': 6.27640962600708}
{'epoch': 7, 'batch': 42, 'loss': 6.602305889129639}
{'epoch': 7, 'batch': 43, 'loss': 6.259605884552002}
{'epoch': 7, 'batch': 44, 'loss': 6.152421474456787}
{'epoch': 7, 'batch': 45, 'loss': 6.30491828918457}
{'epoch': 7, 'batch': 46, 'loss': 6.530999183654785}
{'epoch': 7, 'batch': 47, 'loss': 6.861878871917725}
{'epoch': 7, 'batch': 48, 'loss': 6.093596458435059}
{'epoch': 7, 'batch': 49, 'loss': 6.498728275299072}
{'epoch': 7, 'batch': 50, 'loss': 6.617915153503418}
{'epoch': 7, 'batch': 51, 'loss': 6.5941996574401855}
{'epoch': 7, 'batch': 52, 'loss': 6.043100833892822}
{'epoch': 7, 'batch': 53, 'loss': 6.33205509185791}
{'epoch': 7, 'batch': 54, 'loss': 6.311356544494629}
{'epoch': 7, 'batch': 55, 'loss': 6.2958598136901855}
{'epoch': 7, 'batch': 56, 'loss': 6.281835079193115}
{'epoch': 7, 'batch': 57, 'loss': 6.3109235763549805}
{'epoch': 7, 'batch': 58, 'loss': 6.278036117553711}
{'epoch': 7, 'batch': 59, 'loss': 6.3481340408325195}
{'epoch': 7, 'batch': 60, 'loss': 6.213054180145264}
{'epoch': 7, 'batch': 61, 'loss': 6.429442882537842}
{'epoch': 7, 'batch': 62, 'loss': 6.399698734283447}
{'epoch': 7, 'batch': 63, 'loss': 6.29827880859375}
{'epoch': 7, 'batch': 64, 'loss': 6.2971110343933105}
{'epoch': 7, 'batch': 65, 'loss': 6.328458309173584}
{'epoch': 7, 'batch': 66, 'loss': 6.377918720245361}
{'epoch': 7, 'batch': 67, 'loss': 6.095694065093994}
{'epoch': 7, 'batch': 68, 'loss': 6.375108242034912}
{'epoch': 7, 'batch': 69, 'loss': 6.003879070281982}
{'epoch': 7, 'batch': 70, 'loss': 6.629502296447754}
{'epoch': 7, 'batch': 71, 'loss': 6.411763668060303}
{'epoch': 7, 'batch': 72, 'loss': 6.34800910949707}
{'epoch': 7, 'batch': 73, 'loss': 6.372788906097412}
{'epoch': 7, 'batch': 74, 'loss': 6.406185626983643}
{'epoch': 7, 'batch': 75, 'loss': 6.505578517913818}
{'epoch': 7, 'batch': 76, 'loss': 6.4070916175842285}
{'epoch': 7, 'batch': 77, 'loss': 6.610960483551025}
{'epoch': 7, 'batch': 78, 'loss': 6.692481517791748}
{'epoch': 7, 'batch': 79, 'loss': 5.992599964141846}
{'epoch': 7, 'batch': 80, 'loss': 6.177224636077881}
{'epoch': 7, 'batch': 81, 'loss': 6.430156230926514}
{'epoch': 7, 'batch': 82, 'loss': 6.322431564331055}
{'epoch': 7, 'batch': 83, 'loss': 6.4888386726379395}
{'epoch': 7, 'batch': 84, 'loss': 6.432397842407227}
{'epoch': 8, 'batch': 0, 'loss': 6.288681983947754}
{'epoch': 8, 'batch': 1, 'loss': 6.201907157897949}
{'epoch': 8, 'batch': 2, 'loss': 6.210439682006836}
{'epoch': 8, 'batch': 3, 'loss': 6.367425441741943}
{'epoch': 8, 'batch': 4, 'loss': 6.259994983673096}
{'epoch': 8, 'batch': 5, 'loss': 6.289379119873047}
{'epoch': 8, 'batch': 6, 'loss': 6.791073799133301}
{'epoch': 8, 'batch': 7, 'loss': 6.540015697479248}
```

```

{'epoch': 8, 'batch': 8, 'loss': 6.477579116821289}
{'epoch': 8, 'batch': 9, 'loss': 6.458162784576416}
{'epoch': 8, 'batch': 10, 'loss': 6.50092077255249}
{'epoch': 8, 'batch': 11, 'loss': 6.273775577545166}
{'epoch': 8, 'batch': 12, 'loss': 6.444981098175049}
{'epoch': 8, 'batch': 13, 'loss': 6.642999172210693}
{'epoch': 8, 'batch': 14, 'loss': 6.14672327041626}
{'epoch': 8, 'batch': 15, 'loss': 6.2964863777160645}
{'epoch': 8, 'batch': 16, 'loss': 6.0140767097473145}
{'epoch': 8, 'batch': 17, 'loss': 6.150968551635742}
{'epoch': 8, 'batch': 18, 'loss': 6.13953161239624}
{'epoch': 8, 'batch': 19, 'loss': 6.343255043029785}
{'epoch': 8, 'batch': 20, 'loss': 5.882386207580566}
{'epoch': 8, 'batch': 21, 'loss': 6.406185150146484}
{'epoch': 8, 'batch': 22, 'loss': 6.452882289886475}
{'epoch': 8, 'batch': 23, 'loss': 6.521080017089844}

{'epoch': 8, 'batch': 24, 'loss': 6.441909313201904}
{'epoch': 8, 'batch': 25, 'loss': 6.18151330947876}
{'epoch': 8, 'batch': 26, 'loss': 5.988427639007568}
{'epoch': 8, 'batch': 27, 'loss': 6.010660171508789}
{'epoch': 8, 'batch': 28, 'loss': 6.574677467346191}
{'epoch': 8, 'batch': 29, 'loss': 6.58408784866333}
{'epoch': 8, 'batch': 30, 'loss': 5.84512996673584}
{'epoch': 8, 'batch': 31, 'loss': 5.858190536499023}
{'epoch': 8, 'batch': 32, 'loss': 5.996939182281494}
{'epoch': 8, 'batch': 33, 'loss': 6.261636734008789}
{'epoch': 8, 'batch': 34, 'loss': 6.175975322723389}
{'epoch': 8, 'batch': 35, 'loss': 6.331386566162109}
{'epoch': 8, 'batch': 36, 'loss': 6.28355598449707}
{'epoch': 8, 'batch': 37, 'loss': 6.101414203643799}
{'epoch': 8, 'batch': 38, 'loss': 6.486494064331055}
{'epoch': 8, 'batch': 39, 'loss': 6.275476455688477}
{'epoch': 8, 'batch': 40, 'loss': 6.4285407066345215}
{'epoch': 8, 'batch': 41, 'loss': 6.172245502471924}
{'epoch': 8, 'batch': 42, 'loss': 6.504650115966797}
{'epoch': 8, 'batch': 43, 'loss': 6.160213947296143}
{'epoch': 8, 'batch': 44, 'loss': 6.061419486999512}
{'epoch': 8, 'batch': 45, 'loss': 6.215069770812988}
{'epoch': 8, 'batch': 46, 'loss': 6.432969093322754}
{'epoch': 8, 'batch': 47, 'loss': 6.764695167541504}
{'epoch': 8, 'batch': 48, 'loss': 5.989496231079102}
{'epoch': 8, 'batch': 49, 'loss': 6.399600028991699}
{'epoch': 8, 'batch': 50, 'loss': 6.519708633422852}
{'epoch': 8, 'batch': 51, 'loss': 6.506207466125488}
{'epoch': 8, 'batch': 52, 'loss': 5.951076984405518}
{'epoch': 8, 'batch': 53, 'loss': 6.234823226928711}
{'epoch': 8, 'batch': 54, 'loss': 6.205489158630371}
{'epoch': 8, 'batch': 55, 'loss': 6.186700344085693}
{'epoch': 8, 'batch': 56, 'loss': 6.176344394683838}
{'epoch': 8, 'batch': 57, 'loss': 6.212339878082275}
{'epoch': 8, 'batch': 58, 'loss': 6.180839538574219}

```

```
{'epoch': 8, 'batch': 59, 'loss': 6.246773719787598}
{'epoch': 8, 'batch': 60, 'loss': 6.119093418121338}
{'epoch': 8, 'batch': 61, 'loss': 6.326110363006592}
{'epoch': 8, 'batch': 62, 'loss': 6.309964656829834}
{'epoch': 8, 'batch': 63, 'loss': 6.195890426635742}
{'epoch': 8, 'batch': 64, 'loss': 6.196749210357666}
{'epoch': 8, 'batch': 65, 'loss': 6.227171897888184}
{'epoch': 8, 'batch': 66, 'loss': 6.294129371643066}
{'epoch': 8, 'batch': 67, 'loss': 5.993862628936768}
{'epoch': 8, 'batch': 68, 'loss': 6.280856132507324}
{'epoch': 8, 'batch': 69, 'loss': 5.901033878326416}
{'epoch': 8, 'batch': 70, 'loss': 6.529541969299316}
{'epoch': 8, 'batch': 71, 'loss': 6.310421943664551}
{'epoch': 8, 'batch': 72, 'loss': 6.25246000289917}
{'epoch': 8, 'batch': 73, 'loss': 6.274690628051758}
{'epoch': 8, 'batch': 74, 'loss': 6.311818599700928}
{'epoch': 8, 'batch': 75, 'loss': 6.403939247131348}
{'epoch': 8, 'batch': 76, 'loss': 6.312049388885498}
{'epoch': 8, 'batch': 77, 'loss': 6.504301071166992}
{'epoch': 8, 'batch': 78, 'loss': 6.592249870300293}
{'epoch': 8, 'batch': 79, 'loss': 5.877817153930664}
{'epoch': 8, 'batch': 80, 'loss': 6.072672367095947}
{'epoch': 8, 'batch': 81, 'loss': 6.327447891235352}
{'epoch': 8, 'batch': 82, 'loss': 6.221898078918457}
{'epoch': 8, 'batch': 83, 'loss': 6.388182640075684}
{'epoch': 8, 'batch': 84, 'loss': 6.33877420425415}
{'epoch': 9, 'batch': 0, 'loss': 6.186268329620361}
{'epoch': 9, 'batch': 1, 'loss': 6.0945353507995605}
{'epoch': 9, 'batch': 2, 'loss': 6.1196675300598145}
{'epoch': 9, 'batch': 3, 'loss': 6.275722980499268}
{'epoch': 9, 'batch': 4, 'loss': 6.163250923156738}
{'epoch': 9, 'batch': 5, 'loss': 6.183079719543457}
{'epoch': 9, 'batch': 6, 'loss': 6.691856861114502}
{'epoch': 9, 'batch': 7, 'loss': 6.446141719818115}
{'epoch': 9, 'batch': 8, 'loss': 6.382469177246094}
{'epoch': 9, 'batch': 9, 'loss': 6.359180927276611}
{'epoch': 9, 'batch': 10, 'loss': 6.415297508239746}
{'epoch': 9, 'batch': 11, 'loss': 6.172737121582031}
{'epoch': 9, 'batch': 12, 'loss': 6.353977203369141}
{'epoch': 9, 'batch': 13, 'loss': 6.549961566925049}
{'epoch': 9, 'batch': 14, 'loss': 6.040800094604492}
{'epoch': 9, 'batch': 15, 'loss': 6.20046854019165}
{'epoch': 9, 'batch': 16, 'loss': 5.909525394439697}
{'epoch': 9, 'batch': 17, 'loss': 6.048967361450195}
{'epoch': 9, 'batch': 18, 'loss': 6.051530361175537}
{'epoch': 9, 'batch': 19, 'loss': 6.243968486785889}
{'epoch': 9, 'batch': 20, 'loss': 5.784387588500977}
{'epoch': 9, 'batch': 21, 'loss': 6.309489727020264}
{'epoch': 9, 'batch': 22, 'loss': 6.36049222946167}
{'epoch': 9, 'batch': 23, 'loss': 6.427150726318359}
{'epoch': 9, 'batch': 24, 'loss': 6.346611976623535}
{'epoch': 9, 'batch': 25, 'loss': 6.097685813903809}
```

```
{'epoch': 9, 'batch': 26, 'loss': 5.88525390625}
{'epoch': 9, 'batch': 27, 'loss': 5.90825080871582}
{'epoch': 9, 'batch': 28, 'loss': 6.482585430145264}
{'epoch': 9, 'batch': 29, 'loss': 6.482827663421631}
{'epoch': 9, 'batch': 30, 'loss': 5.737228870391846}
{'epoch': 9, 'batch': 31, 'loss': 5.756289482116699}
{'epoch': 9, 'batch': 32, 'loss': 5.904881477355957}
{'epoch': 9, 'batch': 33, 'loss': 6.168859004974365}
{'epoch': 9, 'batch': 34, 'loss': 6.078972816467285}
{'epoch': 9, 'batch': 35, 'loss': 6.226433277130127}
{'epoch': 9, 'batch': 36, 'loss': 6.1807780265808105}
{'epoch': 9, 'batch': 37, 'loss': 6.010251045227051}
{'epoch': 9, 'batch': 38, 'loss': 6.392433166503906}
{'epoch': 9, 'batch': 39, 'loss': 6.182997703552246}
{'epoch': 9, 'batch': 40, 'loss': 6.321695327758789}
{'epoch': 9, 'batch': 41, 'loss': 6.071158409118652}
{'epoch': 9, 'batch': 42, 'loss': 6.408705234527588}
{'epoch': 9, 'batch': 43, 'loss': 6.065010070800781}
{'epoch': 9, 'batch': 44, 'loss': 5.976042747497559}
{'epoch': 9, 'batch': 45, 'loss': 6.12612771987915}
{'epoch': 9, 'batch': 46, 'loss': 6.337257385253906}
{'epoch': 9, 'batch': 47, 'loss': 6.668098449707031}
{'epoch': 9, 'batch': 48, 'loss': 5.891667366027832}
{'epoch': 9, 'batch': 49, 'loss': 6.301947116851807}
{'epoch': 9, 'batch': 50, 'loss': 6.424081325531006}
{'epoch': 9, 'batch': 51, 'loss': 6.421248435974121}
{'epoch': 9, 'batch': 52, 'loss': 5.861513614654541}
{'epoch': 9, 'batch': 53, 'loss': 6.140747547149658}
{'epoch': 9, 'batch': 54, 'loss': 6.102656364440918}
{'epoch': 9, 'batch': 55, 'loss': 6.081010818481445}
{'epoch': 9, 'batch': 56, 'loss': 6.0757904052734375}
{'epoch': 9, 'batch': 57, 'loss': 6.117458820343018}
{'epoch': 9, 'batch': 58, 'loss': 6.084990501403809}
{'epoch': 9, 'batch': 59, 'loss': 6.147149085998535}
{'epoch': 9, 'batch': 60, 'loss': 6.028035640716553}
{'epoch': 9, 'batch': 61, 'loss': 6.223768711090088}
{'epoch': 9, 'batch': 62, 'loss': 6.22344970703125}
{'epoch': 9, 'batch': 63, 'loss': 6.096916198730469}
{'epoch': 9, 'batch': 64, 'loss': 6.1011810302734375}
{'epoch': 9, 'batch': 65, 'loss': 6.128993034362793}
{'epoch': 9, 'batch': 66, 'loss': 6.215053081512451}
{'epoch': 9, 'batch': 67, 'loss': 5.899847984313965}
{'epoch': 9, 'batch': 68, 'loss': 6.189537048339844}
{'epoch': 9, 'batch': 69, 'loss': 5.801809787750244}
{'epoch': 9, 'batch': 70, 'loss': 6.432045936584473}
{'epoch': 9, 'batch': 71, 'loss': 6.211667537689209}
{'epoch': 9, 'batch': 72, 'loss': 6.160932540893555}
{'epoch': 9, 'batch': 73, 'loss': 6.179590225219727}
{'epoch': 9, 'batch': 74, 'loss': 6.219292163848877}
{'epoch': 9, 'batch': 75, 'loss': 6.305071830749512}
{'epoch': 9, 'batch': 76, 'loss': 6.2191996574401855}
{'epoch': 9, 'batch': 77, 'loss': 6.401253700256348}
```



```

{'epoch': 9, 'batch': 78, 'loss': 6.496092796325684}
{'epoch': 9, 'batch': 79, 'loss': 5.769047737121582}
{'epoch': 9, 'batch': 80, 'loss': 5.973095893859863}
{'epoch': 9, 'batch': 81, 'loss': 6.2292046546936035}
{'epoch': 9, 'batch': 82, 'loss': 6.12755823135376}
{'epoch': 9, 'batch': 83, 'loss': 6.290647029876709}
{'epoch': 9, 'batch': 84, 'loss': 6.246806621551514}
{'epoch': 0, 'batch': 0, 'loss': 8.857629776000977}
{'epoch': 0, 'batch': 1, 'loss': 8.816788673400879}
{'epoch': 0, 'batch': 2, 'loss': 8.816637992858887}
{'epoch': 0, 'batch': 3, 'loss': 8.810628890991211}
{'epoch': 0, 'batch': 4, 'loss': 8.824402809143066}
{'epoch': 0, 'batch': 5, 'loss': 8.785585403442383}
{'epoch': 0, 'batch': 6, 'loss': 8.790520668029785}
{'epoch': 0, 'batch': 7, 'loss': 8.770089149475098}
{'epoch': 0, 'batch': 8, 'loss': 8.780596733093262}
{'epoch': 0, 'batch': 9, 'loss': 8.742671966552734}

{'epoch': 0, 'batch': 10, 'loss': 8.740017890930176}
{'epoch': 0, 'batch': 11, 'loss': 8.723433494567871}
{'epoch': 0, 'batch': 12, 'loss': 8.73142147064209}
{'epoch': 0, 'batch': 13, 'loss': 8.735091209411621}
{'epoch': 0, 'batch': 14, 'loss': 8.70530891418457}
{'epoch': 0, 'batch': 15, 'loss': 8.66019344329834}
{'epoch': 0, 'batch': 16, 'loss': 8.634679794311523}
{'epoch': 0, 'batch': 17, 'loss': 8.622835159301758}
{'epoch': 0, 'batch': 18, 'loss': 8.584542274475098}
{'epoch': 0, 'batch': 19, 'loss': 8.578914642333984}
{'epoch': 0, 'batch': 20, 'loss': 8.53085708618164}
{'epoch': 0, 'batch': 21, 'loss': 8.61960220336914}
{'epoch': 0, 'batch': 22, 'loss': 8.529526710510254}
{'epoch': 0, 'batch': 23, 'loss': 8.540949821472168}
{'epoch': 0, 'batch': 24, 'loss': 8.540223121643066}
{'epoch': 0, 'batch': 25, 'loss': 8.4730224609375}
{'epoch': 0, 'batch': 26, 'loss': 8.359029769897461}
{'epoch': 0, 'batch': 27, 'loss': 8.33446216583252}
{'epoch': 0, 'batch': 28, 'loss': 8.444607734680176}
{'epoch': 0, 'batch': 29, 'loss': 8.416290283203125}
{'epoch': 0, 'batch': 30, 'loss': 8.223410606384277}
{'epoch': 0, 'batch': 31, 'loss': 8.180485725402832}
{'epoch': 0, 'batch': 32, 'loss': 8.256020545959473}
{'epoch': 0, 'batch': 33, 'loss': 8.178389549255371}
{'epoch': 0, 'batch': 34, 'loss': 8.206015586853027}
{'epoch': 0, 'batch': 35, 'loss': 8.261686325073242}
{'epoch': 0, 'batch': 36, 'loss': 8.223787307739258}
{'epoch': 0, 'batch': 37, 'loss': 8.064353942871094}
{'epoch': 0, 'batch': 38, 'loss': 8.126813888549805}
{'epoch': 0, 'batch': 39, 'loss': 7.995964050292969}
{'epoch': 0, 'batch': 40, 'loss': 8.102758407592773}
{'epoch': 0, 'batch': 41, 'loss': 7.913270950317383}
{'epoch': 0, 'batch': 42, 'loss': 8.0372953414917}
{'epoch': 0, 'batch': 43, 'loss': 7.743213176727295}

```

```

{'epoch': 0, 'batch': 44, 'loss': 7.7566399574279785}
{'epoch': 0, 'batch': 45, 'loss': 7.793095588684082}
{'epoch': 0, 'batch': 46, 'loss': 7.906546115875244}
{'epoch': 0, 'batch': 47, 'loss': 8.037009239196777}
{'epoch': 0, 'batch': 48, 'loss': 7.685744762420654}
{'epoch': 0, 'batch': 49, 'loss': 7.776423454284668}
{'epoch': 0, 'batch': 50, 'loss': 7.870568752288818}
{'epoch': 0, 'batch': 51, 'loss': 7.6813764572143555}
{'epoch': 0, 'batch': 52, 'loss': 7.436058521270752}
{'epoch': 0, 'batch': 53, 'loss': 7.614310264587402}
{'epoch': 0, 'batch': 54, 'loss': 7.500347137451172}
{'epoch': 0, 'batch': 55, 'loss': 7.516046047210693}
{'epoch': 0, 'batch': 56, 'loss': 7.604396343231201}
{'epoch': 0, 'batch': 57, 'loss': 7.617934226989746}
{'epoch': 0, 'batch': 58, 'loss': 7.507329940795898}
{'epoch': 0, 'batch': 59, 'loss': 7.571122646331787}
{'epoch': 0, 'batch': 60, 'loss': 7.428589820861816}
{'epoch': 0, 'batch': 61, 'loss': 7.522012233734131}
{'epoch': 0, 'batch': 62, 'loss': 7.493320465087891}
{'epoch': 0, 'batch': 63, 'loss': 7.40790319442749}
{'epoch': 0, 'batch': 64, 'loss': 7.577962398529053}
{'epoch': 0, 'batch': 65, 'loss': 7.4295196533203125}
{'epoch': 0, 'batch': 66, 'loss': 7.378946781158447}
{'epoch': 0, 'batch': 67, 'loss': 7.256683826446533}
{'epoch': 0, 'batch': 68, 'loss': 7.485723495483398}
{'epoch': 0, 'batch': 69, 'loss': 7.233119487762451}
{'epoch': 0, 'batch': 70, 'loss': 7.5590596199035645}
{'epoch': 0, 'batch': 71, 'loss': 7.510761260986328}
{'epoch': 0, 'batch': 72, 'loss': 7.435523509979248}
{'epoch': 0, 'batch': 73, 'loss': 7.4866461753845215}
{'epoch': 0, 'batch': 74, 'loss': 7.4468607902526855}
{'epoch': 0, 'batch': 75, 'loss': 7.641322135925293}
{'epoch': 0, 'batch': 76, 'loss': 7.386811256408691}
{'epoch': 0, 'batch': 77, 'loss': 7.595749855041504}
{'epoch': 0, 'batch': 78, 'loss': 7.814896583557129}
{'epoch': 0, 'batch': 79, 'loss': 6.988009452819824}
{'epoch': 0, 'batch': 80, 'loss': 7.2961812019348145}
{'epoch': 0, 'batch': 81, 'loss': 7.503334045410156}
{'epoch': 0, 'batch': 82, 'loss': 7.504632472991943}
{'epoch': 0, 'batch': 83, 'loss': 7.51835823059082}
{'epoch': 0, 'batch': 84, 'loss': 7.3092756271362305}
{'epoch': 1, 'batch': 0, 'loss': 6.8641676902771}
{'epoch': 1, 'batch': 1, 'loss': 6.840927600860596}
{'epoch': 1, 'batch': 2, 'loss': 6.8304057121276855}
{'epoch': 1, 'batch': 3, 'loss': 6.993096828460693}
{'epoch': 1, 'batch': 4, 'loss': 6.984158515930176}
{'epoch': 1, 'batch': 5, 'loss': 6.988368988037109}
{'epoch': 1, 'batch': 6, 'loss': 7.344366550445557}
{'epoch': 1, 'batch': 7, 'loss': 7.19588565826416}
{'epoch': 1, 'batch': 8, 'loss': 7.167269229888916}
{'epoch': 1, 'batch': 9, 'loss': 7.076627254486084}
{'epoch': 1, 'batch': 10, 'loss': 7.05423641204834}

```

```

{'epoch': 1, 'batch': 11, 'loss': 6.991024971008301}
{'epoch': 1, 'batch': 12, 'loss': 7.111789226531982}
{'epoch': 1, 'batch': 13, 'loss': 7.241777420043945}
{'epoch': 1, 'batch': 14, 'loss': 6.900702953338623}
{'epoch': 1, 'batch': 15, 'loss': 6.972153663635254}
{'epoch': 1, 'batch': 16, 'loss': 6.767799377441406}
{'epoch': 1, 'batch': 17, 'loss': 6.964742660522461}
{'epoch': 1, 'batch': 18, 'loss': 6.867228984832764}
{'epoch': 1, 'batch': 19, 'loss': 7.0135650634765625}
{'epoch': 1, 'batch': 20, 'loss': 6.715426445007324}
{'epoch': 1, 'batch': 21, 'loss': 7.112279415130615}
{'epoch': 1, 'batch': 22, 'loss': 7.08239221572876}
{'epoch': 1, 'batch': 23, 'loss': 7.167461395263672}
{'epoch': 1, 'batch': 24, 'loss': 7.131364822387695}
{'epoch': 1, 'batch': 25, 'loss': 6.843498229980469}
{'epoch': 1, 'batch': 26, 'loss': 6.785128593444824}
{'epoch': 1, 'batch': 27, 'loss': 6.832718849182129}
{'epoch': 1, 'batch': 28, 'loss': 7.242314338684082}
{'epoch': 1, 'batch': 29, 'loss': 7.291009902954102}
{'epoch': 1, 'batch': 30, 'loss': 6.668543815612793}
{'epoch': 1, 'batch': 31, 'loss': 6.633252143859863}
{'epoch': 1, 'batch': 32, 'loss': 6.770295143127441}
{'epoch': 1, 'batch': 33, 'loss': 6.92075777053833}
{'epoch': 1, 'batch': 34, 'loss': 6.900539398193359}
{'epoch': 1, 'batch': 35, 'loss': 7.139952659606934}
{'epoch': 1, 'batch': 36, 'loss': 7.0833420753479}
{'epoch': 1, 'batch': 37, 'loss': 6.825746059417725}
{'epoch': 1, 'batch': 38, 'loss': 7.14767599105835}
{'epoch': 1, 'batch': 39, 'loss': 6.953238487243652}
{'epoch': 1, 'batch': 40, 'loss': 7.165719985961914}
{'epoch': 1, 'batch': 41, 'loss': 6.935260772705078}
{'epoch': 1, 'batch': 42, 'loss': 7.165814399719238}
{'epoch': 1, 'batch': 43, 'loss': 6.840376853942871}
{'epoch': 1, 'batch': 44, 'loss': 6.769891262054443}
{'epoch': 1, 'batch': 45, 'loss': 6.898061275482178}
{'epoch': 1, 'batch': 46, 'loss': 7.112313747406006}
{'epoch': 1, 'batch': 47, 'loss': 7.399605751037598}
{'epoch': 1, 'batch': 48, 'loss': 6.852753639221191}
{'epoch': 1, 'batch': 49, 'loss': 7.078450679779053}
{'epoch': 1, 'batch': 50, 'loss': 7.26304817199707}
{'epoch': 1, 'batch': 51, 'loss': 7.0833940505981445}
{'epoch': 1, 'batch': 52, 'loss': 6.732949733734131}
{'epoch': 1, 'batch': 53, 'loss': 6.975680351257324}
{'epoch': 1, 'batch': 54, 'loss': 6.915632724761963}
{'epoch': 1, 'batch': 55, 'loss': 6.985080718994141}
{'epoch': 1, 'batch': 56, 'loss': 7.023035526275635}
{'epoch': 1, 'batch': 57, 'loss': 7.05103874206543}
{'epoch': 1, 'batch': 58, 'loss': 6.964139938354492}
{'epoch': 1, 'batch': 59, 'loss': 7.030328273773193}
{'epoch': 1, 'batch': 60, 'loss': 6.945839881896973}
{'epoch': 1, 'batch': 61, 'loss': 7.1289215087890625}
{'epoch': 1, 'batch': 62, 'loss': 7.064386367797852}

```

```

{'epoch': 1, 'batch': 63, 'loss': 7.036611557006836}
{'epoch': 1, 'batch': 64, 'loss': 7.118175029754639}
{'epoch': 1, 'batch': 65, 'loss': 7.054536819458008}
{'epoch': 1, 'batch': 66, 'loss': 7.012946128845215}
{'epoch': 1, 'batch': 67, 'loss': 6.874495029449463}
{'epoch': 1, 'batch': 68, 'loss': 7.106451988220215}
{'epoch': 1, 'batch': 69, 'loss': 6.804001331329346}
{'epoch': 1, 'batch': 70, 'loss': 7.262410640716553}
{'epoch': 1, 'batch': 71, 'loss': 7.169665813446045}
{'epoch': 1, 'batch': 72, 'loss': 7.057362079620361}
{'epoch': 1, 'batch': 73, 'loss': 7.128993988037109}
{'epoch': 1, 'batch': 74, 'loss': 7.165590763092041}
{'epoch': 1, 'batch': 75, 'loss': 7.295724391937256}
{'epoch': 1, 'batch': 76, 'loss': 7.08351469039917}
{'epoch': 1, 'batch': 77, 'loss': 7.313214302062988}
{'epoch': 1, 'batch': 78, 'loss': 7.453853607177734}
{'epoch': 1, 'batch': 79, 'loss': 6.717474460601807}

{'epoch': 1, 'batch': 80, 'loss': 6.96590518951416}
{'epoch': 1, 'batch': 81, 'loss': 7.182117938995361}
{'epoch': 1, 'batch': 82, 'loss': 7.166262626647949}
{'epoch': 1, 'batch': 83, 'loss': 7.262067794799805}
{'epoch': 1, 'batch': 84, 'loss': 7.057537078857422}
{'epoch': 2, 'batch': 0, 'loss': 6.806896209716797}
{'epoch': 2, 'batch': 1, 'loss': 6.773111343383789}
{'epoch': 2, 'batch': 2, 'loss': 6.737865924835205}
{'epoch': 2, 'batch': 3, 'loss': 6.927559852600098}
{'epoch': 2, 'batch': 4, 'loss': 6.875877857208252}
{'epoch': 2, 'batch': 5, 'loss': 6.882177829742432}
{'epoch': 2, 'batch': 6, 'loss': 7.28925085067749}
{'epoch': 2, 'batch': 7, 'loss': 7.104227542877197}
{'epoch': 2, 'batch': 8, 'loss': 7.057008743286133}
{'epoch': 2, 'batch': 9, 'loss': 6.968349456787109}
{'epoch': 2, 'batch': 10, 'loss': 6.968747138977051}
{'epoch': 2, 'batch': 11, 'loss': 6.865774154663086}
{'epoch': 2, 'batch': 12, 'loss': 6.99731969833374}
{'epoch': 2, 'batch': 13, 'loss': 7.126192092895508}
{'epoch': 2, 'batch': 14, 'loss': 6.789425373077393}
{'epoch': 2, 'batch': 15, 'loss': 6.841409206390381}
{'epoch': 2, 'batch': 16, 'loss': 6.642575740814209}
{'epoch': 2, 'batch': 17, 'loss': 6.796726703643799}
{'epoch': 2, 'batch': 18, 'loss': 6.6973490715026855}
{'epoch': 2, 'batch': 19, 'loss': 6.890809059143066}
{'epoch': 2, 'batch': 20, 'loss': 6.56500768661499}
{'epoch': 2, 'batch': 21, 'loss': 6.9995198249816895}
{'epoch': 2, 'batch': 22, 'loss': 6.98187780380249}
{'epoch': 2, 'batch': 23, 'loss': 7.042680263519287}
{'epoch': 2, 'batch': 24, 'loss': 6.993081092834473}
{'epoch': 2, 'batch': 25, 'loss': 6.697519779205322}
{'epoch': 2, 'batch': 26, 'loss': 6.626474380493164}
{'epoch': 2, 'batch': 27, 'loss': 6.679615020751953}
{'epoch': 2, 'batch': 28, 'loss': 7.128165245056152}

```

```
{'epoch': 2, 'batch': 29, 'loss': 7.178584575653076}
{'epoch': 2, 'batch': 30, 'loss': 6.505293369293213}
{'epoch': 2, 'batch': 31, 'loss': 6.478621006011963}
{'epoch': 2, 'batch': 32, 'loss': 6.594348907470703}
{'epoch': 2, 'batch': 33, 'loss': 6.814602375030518}
{'epoch': 2, 'batch': 34, 'loss': 6.760186672210693}
{'epoch': 2, 'batch': 35, 'loss': 6.966787815093994}
{'epoch': 2, 'batch': 36, 'loss': 6.9436540603637695}
{'epoch': 2, 'batch': 37, 'loss': 6.687692165374756}
{'epoch': 2, 'batch': 38, 'loss': 7.03444242477417}
{'epoch': 2, 'batch': 39, 'loss': 6.82424783706665}
{'epoch': 2, 'batch': 40, 'loss': 7.028432846069336}
{'epoch': 2, 'batch': 41, 'loss': 6.797287940979004}
{'epoch': 2, 'batch': 42, 'loss': 7.06781005859375}
{'epoch': 2, 'batch': 43, 'loss': 6.697962760925293}
{'epoch': 2, 'batch': 44, 'loss': 6.629449844360352}
{'epoch': 2, 'batch': 45, 'loss': 6.766343593597412}
{'epoch': 2, 'batch': 46, 'loss': 6.9781293869018555}
{'epoch': 2, 'batch': 47, 'loss': 7.2878875732421875}
{'epoch': 2, 'batch': 48, 'loss': 6.6764960289001465}
{'epoch': 2, 'batch': 49, 'loss': 6.931011199951172}
{'epoch': 2, 'batch': 50, 'loss': 7.113712787628174}
{'epoch': 2, 'batch': 51, 'loss': 6.966575622558594}
{'epoch': 2, 'batch': 52, 'loss': 6.563596248626709}
{'epoch': 2, 'batch': 53, 'loss': 6.807455062866211}
{'epoch': 2, 'batch': 54, 'loss': 6.760921955108643}
{'epoch': 2, 'batch': 55, 'loss': 6.824631690979004}
{'epoch': 2, 'batch': 56, 'loss': 6.848461627960205}
{'epoch': 2, 'batch': 57, 'loss': 6.871729850769043}
{'epoch': 2, 'batch': 58, 'loss': 6.789706230163574}
{'epoch': 2, 'batch': 59, 'loss': 6.849399566650391}
{'epoch': 2, 'batch': 60, 'loss': 6.749313831329346}
{'epoch': 2, 'batch': 61, 'loss': 6.962446689605713}
{'epoch': 2, 'batch': 62, 'loss': 6.898349285125732}
{'epoch': 2, 'batch': 63, 'loss': 6.881982326507568}
{'epoch': 2, 'batch': 64, 'loss': 6.90801477432251}
{'epoch': 2, 'batch': 65, 'loss': 6.8736724853515625}
{'epoch': 2, 'batch': 66, 'loss': 6.84149169921875}
{'epoch': 2, 'batch': 67, 'loss': 6.686966419219971}
{'epoch': 2, 'batch': 68, 'loss': 6.923033237457275}
{'epoch': 2, 'batch': 69, 'loss': 6.596609592437744}
{'epoch': 2, 'batch': 70, 'loss': 7.10944128036499}
{'epoch': 2, 'batch': 71, 'loss': 6.9697346687316895}
{'epoch': 2, 'batch': 72, 'loss': 6.863154888153076}
{'epoch': 2, 'batch': 73, 'loss': 6.928328990936279}
{'epoch': 2, 'batch': 74, 'loss': 6.976422309875488}
{'epoch': 2, 'batch': 75, 'loss': 7.093086242675781}
{'epoch': 2, 'batch': 76, 'loss': 6.897403717041016}
{'epoch': 2, 'batch': 77, 'loss': 7.143213272094727}
{'epoch': 2, 'batch': 78, 'loss': 7.241905212402344}
{'epoch': 2, 'batch': 79, 'loss': 6.536965847015381}
{'epoch': 2, 'batch': 80, 'loss': 6.749899387359619}
```

```

{'epoch': 2, 'batch': 81, 'loss': 6.963578701019287}
{'epoch': 2, 'batch': 82, 'loss': 6.936769008636475}
{'epoch': 2, 'batch': 83, 'loss': 7.067318439483643}
{'epoch': 2, 'batch': 84, 'loss': 6.891217231750488}
{'epoch': 3, 'batch': 0, 'loss': 6.702391624450684}
{'epoch': 3, 'batch': 1, 'loss': 6.6455159187316895}
{'epoch': 3, 'batch': 2, 'loss': 6.608562469482422}
{'epoch': 3, 'batch': 3, 'loss': 6.805625915527344}
{'epoch': 3, 'batch': 4, 'loss': 6.72219181060791}
{'epoch': 3, 'batch': 5, 'loss': 6.746004104614258}
{'epoch': 3, 'batch': 6, 'loss': 7.186464786529541}
{'epoch': 3, 'batch': 7, 'loss': 6.987903594970703}
{'epoch': 3, 'batch': 8, 'loss': 6.9319047927856445}
{'epoch': 3, 'batch': 9, 'loss': 6.843080520629883}
{'epoch': 3, 'batch': 10, 'loss': 6.853116989135742}
{'epoch': 3, 'batch': 11, 'loss': 6.728821754455566}
{'epoch': 3, 'batch': 12, 'loss': 6.872535228729248}
{'epoch': 3, 'batch': 13, 'loss': 7.008807182312012}
{'epoch': 3, 'batch': 14, 'loss': 6.6439361572265625}
{'epoch': 3, 'batch': 15, 'loss': 6.70290994644165}
{'epoch': 3, 'batch': 16, 'loss': 6.497899532318115}
{'epoch': 3, 'batch': 17, 'loss': 6.63827657699585}
{'epoch': 3, 'batch': 18, 'loss': 6.541956424713135}
{'epoch': 3, 'batch': 19, 'loss': 6.763887405395508}
{'epoch': 3, 'batch': 20, 'loss': 6.397262096405029}
{'epoch': 3, 'batch': 21, 'loss': 6.866289138793945}
{'epoch': 3, 'batch': 22, 'loss': 6.856484413146973}
{'epoch': 3, 'batch': 23, 'loss': 6.922599792480469}
{'epoch': 3, 'batch': 24, 'loss': 6.850033760070801}
{'epoch': 3, 'batch': 25, 'loss': 6.557689666748047}
{'epoch': 3, 'batch': 26, 'loss': 6.466075420379639}
{'epoch': 3, 'batch': 27, 'loss': 6.532371997833252}
{'epoch': 3, 'batch': 28, 'loss': 6.996013641357422}
{'epoch': 3, 'batch': 29, 'loss': 7.0523834228515625}
{'epoch': 3, 'batch': 30, 'loss': 6.34233283996582}
{'epoch': 3, 'batch': 31, 'loss': 6.303648948669434}
{'epoch': 3, 'batch': 32, 'loss': 6.416296005249023}
{'epoch': 3, 'batch': 33, 'loss': 6.684027194976807}
{'epoch': 3, 'batch': 34, 'loss': 6.626277923583984}
{'epoch': 3, 'batch': 35, 'loss': 6.781920909881592}
{'epoch': 3, 'batch': 36, 'loss': 6.806131839752197}
{'epoch': 3, 'batch': 37, 'loss': 6.539340972900391}
{'epoch': 3, 'batch': 38, 'loss': 6.908810138702393}
{'epoch': 3, 'batch': 39, 'loss': 6.682207107543945}
{'epoch': 3, 'batch': 40, 'loss': 6.879446983337402}
{'epoch': 3, 'batch': 41, 'loss': 6.649013042449951}
{'epoch': 3, 'batch': 42, 'loss': 6.941621780395508}
{'epoch': 3, 'batch': 43, 'loss': 6.5424981117248535}
{'epoch': 3, 'batch': 44, 'loss': 6.483872413635254}
{'epoch': 3, 'batch': 45, 'loss': 6.632472991943359}
{'epoch': 3, 'batch': 46, 'loss': 6.857019424438477}
{'epoch': 3, 'batch': 47, 'loss': 7.165939807891846}

```

```

{'epoch': 3, 'batch': 48, 'loss': 6.510230541229248}
{'epoch': 3, 'batch': 49, 'loss': 6.779738426208496}
{'epoch': 3, 'batch': 50, 'loss': 6.962273597717285}
{'epoch': 3, 'batch': 51, 'loss': 6.849247932434082}
{'epoch': 3, 'batch': 52, 'loss': 6.391191005706787}
{'epoch': 3, 'batch': 53, 'loss': 6.6486711502075195}
{'epoch': 3, 'batch': 54, 'loss': 6.605308532714844}
{'epoch': 3, 'batch': 55, 'loss': 6.665275573730469}
{'epoch': 3, 'batch': 56, 'loss': 6.683705806732178}
{'epoch': 3, 'batch': 57, 'loss': 6.702883243560791}
{'epoch': 3, 'batch': 58, 'loss': 6.624727725982666}
{'epoch': 3, 'batch': 59, 'loss': 6.680174350738525}
{'epoch': 3, 'batch': 60, 'loss': 6.571056365966797}
{'epoch': 3, 'batch': 61, 'loss': 6.796608924865723}
{'epoch': 3, 'batch': 62, 'loss': 6.744458198547363}
{'epoch': 3, 'batch': 63, 'loss': 6.722568511962891}
{'epoch': 3, 'batch': 64, 'loss': 6.722195625305176}

{'epoch': 3, 'batch': 65, 'loss': 6.705324649810791}
{'epoch': 3, 'batch': 66, 'loss': 6.680925369262695}
{'epoch': 3, 'batch': 67, 'loss': 6.518070697784424}
{'epoch': 3, 'batch': 68, 'loss': 6.750087261199951}
{'epoch': 3, 'batch': 69, 'loss': 6.405719757080078}
{'epoch': 3, 'batch': 70, 'loss': 6.948503017425537}
{'epoch': 3, 'batch': 71, 'loss': 6.795215606689453}
{'epoch': 3, 'batch': 72, 'loss': 6.685613632202148}
{'epoch': 3, 'batch': 73, 'loss': 6.75041389465332}
{'epoch': 3, 'batch': 74, 'loss': 6.801698684692383}
{'epoch': 3, 'batch': 75, 'loss': 6.923573970794678}
{'epoch': 3, 'batch': 76, 'loss': 6.723596572875977}
{'epoch': 3, 'batch': 77, 'loss': 6.972754001617432}
{'epoch': 3, 'batch': 78, 'loss': 7.068580627441406}
{'epoch': 3, 'batch': 79, 'loss': 6.352822303771973}
{'epoch': 3, 'batch': 80, 'loss': 6.556337833404541}
{'epoch': 3, 'batch': 81, 'loss': 6.771187782287598}
{'epoch': 3, 'batch': 82, 'loss': 6.743885517120361}
{'epoch': 3, 'batch': 83, 'loss': 6.8774094581604}
{'epoch': 3, 'batch': 84, 'loss': 6.739220142364502}
{'epoch': 4, 'batch': 0, 'loss': 6.573747634887695}
{'epoch': 4, 'batch': 1, 'loss': 6.48623514175415}
{'epoch': 4, 'batch': 2, 'loss': 6.467099189758301}
{'epoch': 4, 'batch': 3, 'loss': 6.674020767211914}
{'epoch': 4, 'batch': 4, 'loss': 6.563468933105469}
{'epoch': 4, 'batch': 5, 'loss': 6.593033790588379}
{'epoch': 4, 'batch': 6, 'loss': 7.05063009262085}
{'epoch': 4, 'batch': 7, 'loss': 6.866334438323975}
{'epoch': 4, 'batch': 8, 'loss': 6.794055938720703}
{'epoch': 4, 'batch': 9, 'loss': 6.7232747077941895}
{'epoch': 4, 'batch': 10, 'loss': 6.732858180999756}
{'epoch': 4, 'batch': 11, 'loss': 6.59087610244751}
{'epoch': 4, 'batch': 12, 'loss': 6.730744361877441}
{'epoch': 4, 'batch': 13, 'loss': 6.882516860961914}

```

```
{'epoch': 4, 'batch': 14, 'loss': 6.491549968719482}
{'epoch': 4, 'batch': 15, 'loss': 6.553933620452881}
{'epoch': 4, 'batch': 16, 'loss': 6.324646472930908}
{'epoch': 4, 'batch': 17, 'loss': 6.48166561126709}
{'epoch': 4, 'batch': 18, 'loss': 6.3707194328308105}
{'epoch': 4, 'batch': 19, 'loss': 6.622631549835205}
{'epoch': 4, 'batch': 20, 'loss': 6.227952480316162}
{'epoch': 4, 'batch': 21, 'loss': 6.722890377044678}
{'epoch': 4, 'batch': 22, 'loss': 6.733360290527344}
{'epoch': 4, 'batch': 23, 'loss': 6.786486625671387}
{'epoch': 4, 'batch': 24, 'loss': 6.695428371429443}
{'epoch': 4, 'batch': 25, 'loss': 6.41500186920166}
{'epoch': 4, 'batch': 26, 'loss': 6.306333541870117}
{'epoch': 4, 'batch': 27, 'loss': 6.378354072570801}
{'epoch': 4, 'batch': 28, 'loss': 6.852253437042236}
{'epoch': 4, 'batch': 29, 'loss': 6.902109146118164}
{'epoch': 4, 'batch': 30, 'loss': 6.172128677368164}
{'epoch': 4, 'batch': 31, 'loss': 6.124439716339111}
{'epoch': 4, 'batch': 32, 'loss': 6.248692035675049}
{'epoch': 4, 'batch': 33, 'loss': 6.5405073165893555}
{'epoch': 4, 'batch': 34, 'loss': 6.4806294441223145}
{'epoch': 4, 'batch': 35, 'loss': 6.60983419418335}
{'epoch': 4, 'batch': 36, 'loss': 6.664210796356201}
{'epoch': 4, 'batch': 37, 'loss': 6.396103858947754}
{'epoch': 4, 'batch': 38, 'loss': 6.762115001678467}
{'epoch': 4, 'batch': 39, 'loss': 6.528819561004639}
{'epoch': 4, 'batch': 40, 'loss': 6.729093551635742}
{'epoch': 4, 'batch': 41, 'loss': 6.497735023498535}
{'epoch': 4, 'batch': 42, 'loss': 6.7936224937438965}
{'epoch': 4, 'batch': 43, 'loss': 6.400794982910156}
{'epoch': 4, 'batch': 44, 'loss': 6.344138145446777}
{'epoch': 4, 'batch': 45, 'loss': 6.501699924468994}
{'epoch': 4, 'batch': 46, 'loss': 6.729334831237793}
{'epoch': 4, 'batch': 47, 'loss': 7.030635356903076}
{'epoch': 4, 'batch': 48, 'loss': 6.341800689697266}
{'epoch': 4, 'batch': 49, 'loss': 6.632180690765381}
{'epoch': 4, 'batch': 50, 'loss': 6.807792663574219}
{'epoch': 4, 'batch': 51, 'loss': 6.723550319671631}
{'epoch': 4, 'batch': 52, 'loss': 6.235489368438721}
{'epoch': 4, 'batch': 53, 'loss': 6.4882307052612305}
{'epoch': 4, 'batch': 54, 'loss': 6.447897911071777}
{'epoch': 4, 'batch': 55, 'loss': 6.505192756652832}
{'epoch': 4, 'batch': 56, 'loss': 6.521941184997559}
{'epoch': 4, 'batch': 57, 'loss': 6.543437480926514}
{'epoch': 4, 'batch': 58, 'loss': 6.458488941192627}
{'epoch': 4, 'batch': 59, 'loss': 6.518292427062988}
{'epoch': 4, 'batch': 60, 'loss': 6.408348560333252}
{'epoch': 4, 'batch': 61, 'loss': 6.633338928222656}
{'epoch': 4, 'batch': 62, 'loss': 6.594854831695557}
{'epoch': 4, 'batch': 63, 'loss': 6.555272102355957}
{'epoch': 4, 'batch': 64, 'loss': 6.560827255249023}
{'epoch': 4, 'batch': 65, 'loss': 6.535000324249268}
```



```
{'epoch': 4, 'batch': 66, 'loss': 6.5351738929748535}
{'epoch': 4, 'batch': 67, 'loss': 6.354028224945068}
{'epoch': 4, 'batch': 68, 'loss': 6.599545001983643}
{'epoch': 4, 'batch': 69, 'loss': 6.225114345550537}
{'epoch': 4, 'batch': 70, 'loss': 6.7907819747924805}
{'epoch': 4, 'batch': 71, 'loss': 6.632087230682373}
{'epoch': 4, 'batch': 72, 'loss': 6.526891708374023}
{'epoch': 4, 'batch': 73, 'loss': 6.581956386566162}
{'epoch': 4, 'batch': 74, 'loss': 6.6374969482421875}
{'epoch': 4, 'batch': 75, 'loss': 6.766703128814697}
{'epoch': 4, 'batch': 76, 'loss': 6.560976505279541}
{'epoch': 4, 'batch': 77, 'loss': 6.801449298858643}
{'epoch': 4, 'batch': 78, 'loss': 6.912367343902588}
{'epoch': 4, 'batch': 79, 'loss': 6.16904354095459}
{'epoch': 4, 'batch': 80, 'loss': 6.378015995025635}
{'epoch': 4, 'batch': 81, 'loss': 6.597509384155273}
{'epoch': 4, 'batch': 82, 'loss': 6.570062637329102}
{'epoch': 4, 'batch': 83, 'loss': 6.6906914710998535}
{'epoch': 4, 'batch': 84, 'loss': 6.591508865356445}
{'epoch': 5, 'batch': 0, 'loss': 6.435210227966309}
{'epoch': 5, 'batch': 1, 'loss': 6.32210636138916}
{'epoch': 5, 'batch': 2, 'loss': 6.323988914489746}
{'epoch': 5, 'batch': 3, 'loss': 6.538301467895508}
{'epoch': 5, 'batch': 4, 'loss': 6.398836135864258}
{'epoch': 5, 'batch': 5, 'loss': 6.434464454650879}
{'epoch': 5, 'batch': 6, 'loss': 6.905722618103027}
{'epoch': 5, 'batch': 7, 'loss': 6.73365592956543}
{'epoch': 5, 'batch': 8, 'loss': 6.6524977684021}
{'epoch': 5, 'batch': 9, 'loss': 6.585618019104004}
{'epoch': 5, 'batch': 10, 'loss': 6.610435962677002}
{'epoch': 5, 'batch': 11, 'loss': 6.443524360656738}
{'epoch': 5, 'batch': 12, 'loss': 6.5825300216674805}
{'epoch': 5, 'batch': 13, 'loss': 6.748697280883789}
{'epoch': 5, 'batch': 14, 'loss': 6.335047721862793}
{'epoch': 5, 'batch': 15, 'loss': 6.399163246154785}
{'epoch': 5, 'batch': 16, 'loss': 6.153831481933594}
{'epoch': 5, 'batch': 17, 'loss': 6.321350574493408}
{'epoch': 5, 'batch': 18, 'loss': 6.2120771408081055}
{'epoch': 5, 'batch': 19, 'loss': 6.4714436531066895}
{'epoch': 5, 'batch': 20, 'loss': 6.067141056060791}
{'epoch': 5, 'batch': 21, 'loss': 6.569945335388184}
{'epoch': 5, 'batch': 22, 'loss': 6.6019744873046875}
{'epoch': 5, 'batch': 23, 'loss': 6.641656875610352}
{'epoch': 5, 'batch': 24, 'loss': 6.535318374633789}
{'epoch': 5, 'batch': 25, 'loss': 6.273048400878906}
{'epoch': 5, 'batch': 26, 'loss': 6.150097370147705}
{'epoch': 5, 'batch': 27, 'loss': 6.219063758850098}
{'epoch': 5, 'batch': 28, 'loss': 6.697962284088135}
{'epoch': 5, 'batch': 29, 'loss': 6.739896774291992}
{'epoch': 5, 'batch': 30, 'loss': 6.001205921173096}
{'epoch': 5, 'batch': 31, 'loss': 5.963657855987549}
{'epoch': 5, 'batch': 32, 'loss': 6.090733528137207}
```

```

{'epoch': 5, 'batch': 33, 'loss': 6.3992156982421875}
{'epoch': 5, 'batch': 34, 'loss': 6.333280563354492}
{'epoch': 5, 'batch': 35, 'loss': 6.438912868499756}
{'epoch': 5, 'batch': 36, 'loss': 6.510687351226807}
{'epoch': 5, 'batch': 37, 'loss': 6.248915195465088}
{'epoch': 5, 'batch': 38, 'loss': 6.6090922355651855}
{'epoch': 5, 'batch': 39, 'loss': 6.376590728759766}
{'epoch': 5, 'batch': 40, 'loss': 6.573149681091309}
{'epoch': 5, 'batch': 41, 'loss': 6.334847450256348}
{'epoch': 5, 'batch': 42, 'loss': 6.637365341186523}
{'epoch': 5, 'batch': 43, 'loss': 6.261537551879883}
{'epoch': 5, 'batch': 44, 'loss': 6.20822286605835}
{'epoch': 5, 'batch': 45, 'loss': 6.367702007293701}
{'epoch': 5, 'batch': 46, 'loss': 6.583288669586182}
{'epoch': 5, 'batch': 47, 'loss': 6.887178897857666}
{'epoch': 5, 'batch': 48, 'loss': 6.17739725112915}
{'epoch': 5, 'batch': 49, 'loss': 6.487380027770996}

{'epoch': 5, 'batch': 50, 'loss': 6.655496120452881}
{'epoch': 5, 'batch': 51, 'loss': 6.59572172164917}
{'epoch': 5, 'batch': 52, 'loss': 6.083795547485352}
{'epoch': 5, 'batch': 53, 'loss': 6.330467700958252}
{'epoch': 5, 'batch': 54, 'loss': 6.287786960601807}
{'epoch': 5, 'batch': 55, 'loss': 6.342151165008545}
{'epoch': 5, 'batch': 56, 'loss': 6.3568620681762695}
{'epoch': 5, 'batch': 57, 'loss': 6.391890048980713}
{'epoch': 5, 'batch': 58, 'loss': 6.29573392868042}
{'epoch': 5, 'batch': 59, 'loss': 6.359120845794678}
{'epoch': 5, 'batch': 60, 'loss': 6.25621223449707}
{'epoch': 5, 'batch': 61, 'loss': 6.46366024017334}
{'epoch': 5, 'batch': 62, 'loss': 6.448042869567871}
{'epoch': 5, 'batch': 63, 'loss': 6.37904691696167}
{'epoch': 5, 'batch': 64, 'loss': 6.408991813659668}
{'epoch': 5, 'batch': 65, 'loss': 6.35911750793457}
{'epoch': 5, 'batch': 66, 'loss': 6.398238658905029}
{'epoch': 5, 'batch': 67, 'loss': 6.197149753570557}
{'epoch': 5, 'batch': 68, 'loss': 6.456254005432129}
{'epoch': 5, 'batch': 69, 'loss': 6.054603099822998}
{'epoch': 5, 'batch': 70, 'loss': 6.629775047302246}
{'epoch': 5, 'batch': 71, 'loss': 6.475102424621582}
{'epoch': 5, 'batch': 72, 'loss': 6.3725481033325195}
{'epoch': 5, 'batch': 73, 'loss': 6.418349742889404}
{'epoch': 5, 'batch': 74, 'loss': 6.4825568199157715}
{'epoch': 5, 'batch': 75, 'loss': 6.610446453094482}
{'epoch': 5, 'batch': 76, 'loss': 6.404233455657959}
{'epoch': 5, 'batch': 77, 'loss': 6.629192352294922}
{'epoch': 5, 'batch': 78, 'loss': 6.757585048675537}
{'epoch': 5, 'batch': 79, 'loss': 5.986244201660156}
{'epoch': 5, 'batch': 80, 'loss': 6.204019546508789}
{'epoch': 5, 'batch': 81, 'loss': 6.433638572692871}
{'epoch': 5, 'batch': 82, 'loss': 6.400479316711426}
{'epoch': 5, 'batch': 83, 'loss': 6.515966415405273}

```

```
{'epoch': 5, 'batch': 84, 'loss': 6.444808483123779}
{'epoch': 6, 'batch': 0, 'loss': 6.293591499328613}
{'epoch': 6, 'batch': 1, 'loss': 6.150700569152832}
{'epoch': 6, 'batch': 2, 'loss': 6.177533149719238}
{'epoch': 6, 'batch': 3, 'loss': 6.401149749755859}
{'epoch': 6, 'batch': 4, 'loss': 6.239957332611084}
{'epoch': 6, 'batch': 5, 'loss': 6.273448467254639}
{'epoch': 6, 'batch': 6, 'loss': 6.750890254974365}
{'epoch': 6, 'batch': 7, 'loss': 6.592860221862793}
{'epoch': 6, 'batch': 8, 'loss': 6.510263919830322}
{'epoch': 6, 'batch': 9, 'loss': 6.440314769744873}
{'epoch': 6, 'batch': 10, 'loss': 6.484005928039551}
{'epoch': 6, 'batch': 11, 'loss': 6.2913665771484375}
{'epoch': 6, 'batch': 12, 'loss': 6.437098979949951}
{'epoch': 6, 'batch': 13, 'loss': 6.607796669006348}
{'epoch': 6, 'batch': 14, 'loss': 6.1721415519714355}
{'epoch': 6, 'batch': 15, 'loss': 6.244351387023926}
{'epoch': 6, 'batch': 16, 'loss': 5.985779285430908}
{'epoch': 6, 'batch': 17, 'loss': 6.161544322967529}
{'epoch': 6, 'batch': 18, 'loss': 6.0604939460754395}
{'epoch': 6, 'batch': 19, 'loss': 6.313738822937012}
{'epoch': 6, 'batch': 20, 'loss': 5.907461166381836}
{'epoch': 6, 'batch': 21, 'loss': 6.405909061431885}
{'epoch': 6, 'batch': 22, 'loss': 6.460546970367432}
{'epoch': 6, 'batch': 23, 'loss': 6.493227481842041}
{'epoch': 6, 'batch': 24, 'loss': 6.37202262878418}
{'epoch': 6, 'batch': 25, 'loss': 6.140418529510498}
{'epoch': 6, 'batch': 26, 'loss': 5.986891269683838}
{'epoch': 6, 'batch': 27, 'loss': 6.061676025390625}
{'epoch': 6, 'batch': 28, 'loss': 6.537084579467773}
{'epoch': 6, 'batch': 29, 'loss': 6.576663017272949}
{'epoch': 6, 'batch': 30, 'loss': 5.826686382293701}
{'epoch': 6, 'batch': 31, 'loss': 5.806428909301758}
{'epoch': 6, 'batch': 32, 'loss': 5.944337844848633}
{'epoch': 6, 'batch': 33, 'loss': 6.259697437286377}
{'epoch': 6, 'batch': 34, 'loss': 6.1879682540893555}
{'epoch': 6, 'batch': 35, 'loss': 6.272030830383301}
{'epoch': 6, 'batch': 36, 'loss': 6.36030387878418}
{'epoch': 6, 'batch': 37, 'loss': 6.101961612701416}
{'epoch': 6, 'batch': 38, 'loss': 6.452768802642822}
{'epoch': 6, 'batch': 39, 'loss': 6.228108882904053}
{'epoch': 6, 'batch': 40, 'loss': 6.409765720367432}
{'epoch': 6, 'batch': 41, 'loss': 6.170675754547119}
{'epoch': 6, 'batch': 42, 'loss': 6.483982086181641}
{'epoch': 6, 'batch': 43, 'loss': 6.116410732269287}
{'epoch': 6, 'batch': 44, 'loss': 6.068469047546387}
{'epoch': 6, 'batch': 45, 'loss': 6.229422092437744}
{'epoch': 6, 'batch': 46, 'loss': 6.434830188751221}
{'epoch': 6, 'batch': 47, 'loss': 6.73225736618042}
{'epoch': 6, 'batch': 48, 'loss': 6.013874530792236}
{'epoch': 6, 'batch': 49, 'loss': 6.337534427642822}
{'epoch': 6, 'batch': 50, 'loss': 6.498369216918945}
```

```
{'epoch': 6, 'batch': 51, 'loss': 6.461358547210693}
{'epoch': 6, 'batch': 52, 'loss': 5.93752384185791}
{'epoch': 6, 'batch': 53, 'loss': 6.170627117156982}
{'epoch': 6, 'batch': 54, 'loss': 6.131474018096924}
{'epoch': 6, 'batch': 55, 'loss': 6.174843788146973}
{'epoch': 6, 'batch': 56, 'loss': 6.1903276443481445}
{'epoch': 6, 'batch': 57, 'loss': 6.2389678955078125}
{'epoch': 6, 'batch': 58, 'loss': 6.140932083129883}
{'epoch': 6, 'batch': 59, 'loss': 6.204150676727295}
{'epoch': 6, 'batch': 60, 'loss': 6.111205101013184}
{'epoch': 6, 'batch': 61, 'loss': 6.2987871170043945}
{'epoch': 6, 'batch': 62, 'loss': 6.303372383117676}
{'epoch': 6, 'batch': 63, 'loss': 6.2051100730896}
{'epoch': 6, 'batch': 64, 'loss': 6.259985446929932}
{'epoch': 6, 'batch': 65, 'loss': 6.1883625984191895}
{'epoch': 6, 'batch': 66, 'loss': 6.26311731338501}
{'epoch': 6, 'batch': 67, 'loss': 6.052206516265869}
{'epoch': 6, 'batch': 68, 'loss': 6.315854072570801}
{'epoch': 6, 'batch': 69, 'loss': 5.894811630249023}
{'epoch': 6, 'batch': 70, 'loss': 6.475461006164551}
{'epoch': 6, 'batch': 71, 'loss': 6.322589874267578}
{'epoch': 6, 'batch': 72, 'loss': 6.223916530609131}
{'epoch': 6, 'batch': 73, 'loss': 6.259833335876465}
{'epoch': 6, 'batch': 74, 'loss': 6.326649188995361}
{'epoch': 6, 'batch': 75, 'loss': 6.456749439239502}
{'epoch': 6, 'batch': 76, 'loss': 6.254953861236572}
{'epoch': 6, 'batch': 77, 'loss': 6.4625935554504395}
{'epoch': 6, 'batch': 78, 'loss': 6.609238147735596}
{'epoch': 6, 'batch': 79, 'loss': 5.809267520904541}
{'epoch': 6, 'batch': 80, 'loss': 6.0381760597229}
{'epoch': 6, 'batch': 81, 'loss': 6.277561187744141}
{'epoch': 6, 'batch': 82, 'loss': 6.24306583404541}
{'epoch': 6, 'batch': 83, 'loss': 6.345768928527832}
{'epoch': 6, 'batch': 84, 'loss': 6.289108753204346}
{'epoch': 7, 'batch': 0, 'loss': 6.140907287597656}
{'epoch': 7, 'batch': 1, 'loss': 5.97878360748291}
{'epoch': 7, 'batch': 2, 'loss': 6.03367805480957}
{'epoch': 7, 'batch': 3, 'loss': 6.2555766105651855}
{'epoch': 7, 'batch': 4, 'loss': 6.091294765472412}
{'epoch': 7, 'batch': 5, 'loss': 6.117278099060059}
{'epoch': 7, 'batch': 6, 'loss': 6.5959553718566895}
{'epoch': 7, 'batch': 7, 'loss': 6.4515461921691895}
{'epoch': 7, 'batch': 8, 'loss': 6.368821144104004}
{'epoch': 7, 'batch': 9, 'loss': 6.293924808502197}
{'epoch': 7, 'batch': 10, 'loss': 6.350244522094727}
{'epoch': 7, 'batch': 11, 'loss': 6.137166500091553}
{'epoch': 7, 'batch': 12, 'loss': 6.29435920715332}
{'epoch': 7, 'batch': 13, 'loss': 6.4629645347595215}
{'epoch': 7, 'batch': 14, 'loss': 6.011045932769775}
{'epoch': 7, 'batch': 15, 'loss': 6.086956024169922}
{'epoch': 7, 'batch': 16, 'loss': 5.820995807647705}
{'epoch': 7, 'batch': 17, 'loss': 6.004054069519043}
```

```

{'epoch': 7, 'batch': 18, 'loss': 5.918871879577637}
{'epoch': 7, 'batch': 19, 'loss': 6.157561302185059}
{'epoch': 7, 'batch': 20, 'loss': 5.742967128753662}
{'epoch': 7, 'batch': 21, 'loss': 6.235332012176514}
{'epoch': 7, 'batch': 22, 'loss': 6.312716484069824}
{'epoch': 7, 'batch': 23, 'loss': 6.343523025512695}
{'epoch': 7, 'batch': 24, 'loss': 6.214836120605469}
{'epoch': 7, 'batch': 25, 'loss': 6.01542329788208}
{'epoch': 7, 'batch': 26, 'loss': 5.81815767288208}
{'epoch': 7, 'batch': 27, 'loss': 5.90143346786499}
{'epoch': 7, 'batch': 28, 'loss': 6.379371643066406}
{'epoch': 7, 'batch': 29, 'loss': 6.4212751388549805}
{'epoch': 7, 'batch': 30, 'loss': 5.649888515472412}
{'epoch': 7, 'batch': 31, 'loss': 5.649657726287842}
{'epoch': 7, 'batch': 32, 'loss': 5.8052449226379395}
{'epoch': 7, 'batch': 33, 'loss': 6.119963645935059}
{'epoch': 7, 'batch': 34, 'loss': 6.041279315948486}
{'epoch': 7, 'batch': 35, 'loss': 6.110659122467041}

{'epoch': 7, 'batch': 36, 'loss': 6.208462715148926}
{'epoch': 7, 'batch': 37, 'loss': 5.955881118774414}
{'epoch': 7, 'batch': 38, 'loss': 6.297715187072754}
{'epoch': 7, 'batch': 39, 'loss': 6.078249931335449}
{'epoch': 7, 'batch': 40, 'loss': 6.245811462402344}
{'epoch': 7, 'batch': 41, 'loss': 6.011059284210205}
{'epoch': 7, 'batch': 42, 'loss': 6.340407848358154}
{'epoch': 7, 'batch': 43, 'loss': 5.966726779937744}
{'epoch': 7, 'batch': 44, 'loss': 5.9280686378479}
{'epoch': 7, 'batch': 45, 'loss': 6.0919904708862305}
{'epoch': 7, 'batch': 46, 'loss': 6.288792133331299}
{'epoch': 7, 'batch': 47, 'loss': 6.57721471786499}
{'epoch': 7, 'batch': 48, 'loss': 5.855186462402344}
{'epoch': 7, 'batch': 49, 'loss': 6.181964874267578}
{'epoch': 7, 'batch': 50, 'loss': 6.343701362609863}
{'epoch': 7, 'batch': 51, 'loss': 6.324729919433594}
{'epoch': 7, 'batch': 52, 'loss': 5.789241313934326}
{'epoch': 7, 'batch': 53, 'loss': 6.013913631439209}
{'epoch': 7, 'batch': 54, 'loss': 5.97735595703125}
{'epoch': 7, 'batch': 55, 'loss': 6.013312816619873}
{'epoch': 7, 'batch': 56, 'loss': 6.02937126159668}
{'epoch': 7, 'batch': 57, 'loss': 6.085023880004883}
{'epoch': 7, 'batch': 58, 'loss': 5.989401817321777}
{'epoch': 7, 'batch': 59, 'loss': 6.052303314208984}
{'epoch': 7, 'batch': 60, 'loss': 5.970337390899658}
{'epoch': 7, 'batch': 61, 'loss': 6.138075828552246}
{'epoch': 7, 'batch': 62, 'loss': 6.165303707122803}
{'epoch': 7, 'batch': 63, 'loss': 6.037509918212891}
{'epoch': 7, 'batch': 64, 'loss': 6.115080833435059}
{'epoch': 7, 'batch': 65, 'loss': 6.0218729972839355}
{'epoch': 7, 'batch': 66, 'loss': 6.1301655769348145}
{'epoch': 7, 'batch': 67, 'loss': 5.911674499511719}
{'epoch': 7, 'batch': 68, 'loss': 6.177751064300537}

```

```
{'epoch': 7, 'batch': 69, 'loss': 5.741272449493408}
{'epoch': 7, 'batch': 70, 'loss': 6.3271284103393555}
{'epoch': 7, 'batch': 71, 'loss': 6.176392555236816}
{'epoch': 7, 'batch': 72, 'loss': 6.079293251037598}
{'epoch': 7, 'batch': 73, 'loss': 6.106049060821533}
{'epoch': 7, 'batch': 74, 'loss': 6.17201042175293}
{'epoch': 7, 'batch': 75, 'loss': 6.3019208908081055}
{'epoch': 7, 'batch': 76, 'loss': 6.109298229217529}
{'epoch': 7, 'batch': 77, 'loss': 6.302195072174072}
{'epoch': 7, 'batch': 78, 'loss': 6.461849689483643}
{'epoch': 7, 'batch': 79, 'loss': 5.647661209106445}
{'epoch': 7, 'batch': 80, 'loss': 5.878973484039307}
{'epoch': 7, 'batch': 81, 'loss': 6.126501083374023}
{'epoch': 7, 'batch': 82, 'loss': 6.0957255363464355}
{'epoch': 7, 'batch': 83, 'loss': 6.181533336639404}
{'epoch': 7, 'batch': 84, 'loss': 6.131843566894531}
{'epoch': 8, 'batch': 0, 'loss': 5.9926228523254395}
{'epoch': 8, 'batch': 1, 'loss': 5.81248140335083}
{'epoch': 8, 'batch': 2, 'loss': 5.893987655639648}
{'epoch': 8, 'batch': 3, 'loss': 6.110969066619873}
{'epoch': 8, 'batch': 4, 'loss': 5.949528217315674}
{'epoch': 8, 'batch': 5, 'loss': 5.9637651443481445}
{'epoch': 8, 'batch': 6, 'loss': 6.440551280975342}
{'epoch': 8, 'batch': 7, 'loss': 6.309659004211426}
{'epoch': 8, 'batch': 8, 'loss': 6.224978446960449}
{'epoch': 8, 'batch': 9, 'loss': 6.149533748626709}
{'epoch': 8, 'batch': 10, 'loss': 6.218917369842529}
{'epoch': 8, 'batch': 11, 'loss': 5.988694667816162}
{'epoch': 8, 'batch': 12, 'loss': 6.157453536987305}
{'epoch': 8, 'batch': 13, 'loss': 6.312889575958252}
{'epoch': 8, 'batch': 14, 'loss': 5.854590892791748}
{'epoch': 8, 'batch': 15, 'loss': 5.92860221862793}
{'epoch': 8, 'batch': 16, 'loss': 5.6609063148498535}
{'epoch': 8, 'batch': 17, 'loss': 5.8503618240356445}
{'epoch': 8, 'batch': 18, 'loss': 5.788266658782959}
{'epoch': 8, 'batch': 19, 'loss': 6.003763198852539}
{'epoch': 8, 'batch': 20, 'loss': 5.5855841636657715}
{'epoch': 8, 'batch': 21, 'loss': 6.072378635406494}
{'epoch': 8, 'batch': 22, 'loss': 6.170177459716797}
{'epoch': 8, 'batch': 23, 'loss': 6.194746971130371}
{'epoch': 8, 'batch': 24, 'loss': 6.0668511390686035}
{'epoch': 8, 'batch': 25, 'loss': 5.894251823425293}
{'epoch': 8, 'batch': 26, 'loss': 5.6554856300354}
{'epoch': 8, 'batch': 27, 'loss': 5.748184680938721}
{'epoch': 8, 'batch': 28, 'loss': 6.227576732635498}
{'epoch': 8, 'batch': 29, 'loss': 6.273280620574951}
{'epoch': 8, 'batch': 30, 'loss': 5.486361026763916}
{'epoch': 8, 'batch': 31, 'loss': 5.504501819610596}
{'epoch': 8, 'batch': 32, 'loss': 5.675127983093262}
{'epoch': 8, 'batch': 33, 'loss': 5.983262062072754}
{'epoch': 8, 'batch': 34, 'loss': 5.894679069519043}
{'epoch': 8, 'batch': 35, 'loss': 5.955531120300293}
```

```
{'epoch': 8, 'batch': 36, 'loss': 6.062107086181641}
{'epoch': 8, 'batch': 37, 'loss': 5.81287145614624}
{'epoch': 8, 'batch': 38, 'loss': 6.143701076507568}
{'epoch': 8, 'batch': 39, 'loss': 5.930173397064209}
{'epoch': 8, 'batch': 40, 'loss': 6.084969997406006}
{'epoch': 8, 'batch': 41, 'loss': 5.860168933868408}
{'epoch': 8, 'batch': 42, 'loss': 6.197280406951904}
{'epoch': 8, 'batch': 43, 'loss': 5.819032192230225}
{'epoch': 8, 'batch': 44, 'loss': 5.792957782745361}
{'epoch': 8, 'batch': 45, 'loss': 5.953764915466309}
{'epoch': 8, 'batch': 46, 'loss': 6.146167278289795}
{'epoch': 8, 'batch': 47, 'loss': 6.424962043762207}
{'epoch': 8, 'batch': 48, 'loss': 5.707789421081543}
{'epoch': 8, 'batch': 49, 'loss': 6.028107643127441}
{'epoch': 8, 'batch': 50, 'loss': 6.194445610046387}
{'epoch': 8, 'batch': 51, 'loss': 6.188154220581055}
{'epoch': 8, 'batch': 52, 'loss': 5.6486945152282715}
{'epoch': 8, 'batch': 53, 'loss': 5.863826274871826}
{'epoch': 8, 'batch': 54, 'loss': 5.82826566696167}
{'epoch': 8, 'batch': 55, 'loss': 5.865704536437988}
{'epoch': 8, 'batch': 56, 'loss': 5.879945755004883}
{'epoch': 8, 'batch': 57, 'loss': 5.937726020812988}
{'epoch': 8, 'batch': 58, 'loss': 5.848056793212891}
{'epoch': 8, 'batch': 59, 'loss': 5.905665397644043}
{'epoch': 8, 'batch': 60, 'loss': 5.832749366760254}
{'epoch': 8, 'batch': 61, 'loss': 5.977402687072754}
{'epoch': 8, 'batch': 62, 'loss': 6.033115386962891}
{'epoch': 8, 'batch': 63, 'loss': 5.882360935211182}
{'epoch': 8, 'batch': 64, 'loss': 5.977619647979736}
{'epoch': 8, 'batch': 65, 'loss': 5.868499279022217}
{'epoch': 8, 'batch': 66, 'loss': 6.001667499542236}
{'epoch': 8, 'batch': 67, 'loss': 5.775346279144287}
{'epoch': 8, 'batch': 68, 'loss': 6.0444769859313965}
{'epoch': 8, 'batch': 69, 'loss': 5.596782684326172}
{'epoch': 8, 'batch': 70, 'loss': 6.184919357299805}
{'epoch': 8, 'batch': 71, 'loss': 6.035638332366943}
{'epoch': 8, 'batch': 72, 'loss': 5.93988037109375}
{'epoch': 8, 'batch': 73, 'loss': 5.962231159210205}
{'epoch': 8, 'batch': 74, 'loss': 6.022891998291016}
{'epoch': 8, 'batch': 75, 'loss': 6.146237850189209}
{'epoch': 8, 'batch': 76, 'loss': 5.970477104187012}
{'epoch': 8, 'batch': 77, 'loss': 6.148876667022705}
{'epoch': 8, 'batch': 78, 'loss': 6.317227840423584}
{'epoch': 8, 'batch': 79, 'loss': 5.498103618621826}
{'epoch': 8, 'batch': 80, 'loss': 5.733920574188232}
{'epoch': 8, 'batch': 81, 'loss': 5.983441352844238}
{'epoch': 8, 'batch': 82, 'loss': 5.9537506103515625}
{'epoch': 8, 'batch': 83, 'loss': 6.026589393615723}
{'epoch': 8, 'batch': 84, 'loss': 5.9816107749938965}
{'epoch': 9, 'batch': 0, 'loss': 5.851654052734375}
{'epoch': 9, 'batch': 1, 'loss': 5.65493106842041}
{'epoch': 9, 'batch': 2, 'loss': 5.759186267852783}
```

```

{'epoch': 9, 'batch': 3, 'loss': 5.97017240524292}
{'epoch': 9, 'batch': 4, 'loss': 5.8146538734436035}
{'epoch': 9, 'batch': 5, 'loss': 5.813050746917725}
{'epoch': 9, 'batch': 6, 'loss': 6.28769063949585}
{'epoch': 9, 'batch': 7, 'loss': 6.169897079467773}
{'epoch': 9, 'batch': 8, 'loss': 6.085297107696533}
{'epoch': 9, 'batch': 9, 'loss': 6.009212970733643}
{'epoch': 9, 'batch': 10, 'loss': 6.0889177322387695}
{'epoch': 9, 'batch': 11, 'loss': 5.846535682678223}
{'epoch': 9, 'batch': 12, 'loss': 6.025386810302734}
{'epoch': 9, 'batch': 13, 'loss': 6.163632392883301}
{'epoch': 9, 'batch': 14, 'loss': 5.705695152282715}
{'epoch': 9, 'batch': 15, 'loss': 5.774400234222412}
{'epoch': 9, 'batch': 16, 'loss': 5.509669780731201}
{'epoch': 9, 'batch': 17, 'loss': 5.70523738861084}
{'epoch': 9, 'batch': 18, 'loss': 5.667126178741455}
{'epoch': 9, 'batch': 19, 'loss': 5.854348182678223}
{'epoch': 9, 'batch': 20, 'loss': 5.440194129943848}

{'epoch': 9, 'batch': 21, 'loss': 5.916781425476074}
{'epoch': 9, 'batch': 22, 'loss': 6.033420085906982}
{'epoch': 9, 'batch': 23, 'loss': 6.048161506652832}
{'epoch': 9, 'batch': 24, 'loss': 5.921710014343262}
{'epoch': 9, 'batch': 25, 'loss': 5.776459217071533}
{'epoch': 9, 'batch': 26, 'loss': 5.5052008628845215}
{'epoch': 9, 'batch': 27, 'loss': 5.603961944580078}
{'epoch': 9, 'batch': 28, 'loss': 6.0825347900390625}
{'epoch': 9, 'batch': 29, 'loss': 6.130231857299805}
{'epoch': 9, 'batch': 30, 'loss': 5.334618091583252}
{'epoch': 9, 'batch': 31, 'loss': 5.36870813369751}
{'epoch': 9, 'batch': 32, 'loss': 5.55031681060791}
{'epoch': 9, 'batch': 33, 'loss': 5.850719451904297}
{'epoch': 9, 'batch': 34, 'loss': 5.753023624420166}
{'epoch': 9, 'batch': 35, 'loss': 5.8036370277404785}
{'epoch': 9, 'batch': 36, 'loss': 5.920063495635986}
{'epoch': 9, 'batch': 37, 'loss': 5.677201271057129}
{'epoch': 9, 'batch': 38, 'loss': 5.991962432861328}
{'epoch': 9, 'batch': 39, 'loss': 5.789700031280518}
{'epoch': 9, 'batch': 40, 'loss': 5.932279109954834}
{'epoch': 9, 'batch': 41, 'loss': 5.717594623565674}
{'epoch': 9, 'batch': 42, 'loss': 6.054988384246826}
{'epoch': 9, 'batch': 43, 'loss': 5.679988861083984}
{'epoch': 9, 'batch': 44, 'loss': 5.6640214920043945}
{'epoch': 9, 'batch': 45, 'loss': 5.820383071899414}
{'epoch': 9, 'batch': 46, 'loss': 6.006277084350586}
{'epoch': 9, 'batch': 47, 'loss': 6.273360252380371}
{'epoch': 9, 'batch': 48, 'loss': 5.567823886871338}
{'epoch': 9, 'batch': 49, 'loss': 5.877140522003174}
{'epoch': 9, 'batch': 50, 'loss': 6.049768447875977}
{'epoch': 9, 'batch': 51, 'loss': 6.0521979331970215}
{'epoch': 9, 'batch': 52, 'loss': 5.519918441772461}
{'epoch': 9, 'batch': 53, 'loss': 5.719439506530762}

```



```

{'epoch': 9, 'batch': 54, 'loss': 5.6854939460754395}
{'epoch': 9, 'batch': 55, 'loss': 5.727780818939209}
{'epoch': 9, 'batch': 56, 'loss': 5.736042022705078}
{'epoch': 9, 'batch': 57, 'loss': 5.796285629272461}
{'epoch': 9, 'batch': 58, 'loss': 5.713239669799805}
{'epoch': 9, 'batch': 59, 'loss': 5.765042304992676}
{'epoch': 9, 'batch': 60, 'loss': 5.697299480438232}
{'epoch': 9, 'batch': 61, 'loss': 5.821044445037842}
{'epoch': 9, 'batch': 62, 'loss': 5.906823635101318}
{'epoch': 9, 'batch': 63, 'loss': 5.738973140716553}
{'epoch': 9, 'batch': 64, 'loss': 5.843242168426514}
{'epoch': 9, 'batch': 65, 'loss': 5.726301670074463}
{'epoch': 9, 'batch': 66, 'loss': 5.8768157958984375}
{'epoch': 9, 'batch': 67, 'loss': 5.643524169921875}
{'epoch': 9, 'batch': 68, 'loss': 5.91801118850708}
{'epoch': 9, 'batch': 69, 'loss': 5.458278656005859}
{'epoch': 9, 'batch': 70, 'loss': 6.04779577255249}
{'epoch': 9, 'batch': 71, 'loss': 5.898923873901367}
{'epoch': 9, 'batch': 72, 'loss': 5.8035993576049805}
{'epoch': 9, 'batch': 73, 'loss': 5.8266072273254395}
{'epoch': 9, 'batch': 74, 'loss': 5.877951622009277}
{'epoch': 9, 'batch': 75, 'loss': 5.9936299324035645}
{'epoch': 9, 'batch': 76, 'loss': 5.834588050842285}
{'epoch': 9, 'batch': 77, 'loss': 5.99971342086792}
{'epoch': 9, 'batch': 78, 'loss': 6.177708625793457}
{'epoch': 9, 'batch': 79, 'loss': 5.355299472808838}
{'epoch': 9, 'batch': 80, 'loss': 5.600065231323242}
{'epoch': 9, 'batch': 81, 'loss': 5.844653606414795}
{'epoch': 9, 'batch': 82, 'loss': 5.816652774810791}
{'epoch': 9, 'batch': 83, 'loss': 5.877187252044678}
{'epoch': 9, 'batch': 84, 'loss': 5.8388872146606445}
{'epoch': 0, 'batch': 0, 'loss': 8.837752342224121}
{'epoch': 0, 'batch': 1, 'loss': 8.832661628723145}
{'epoch': 0, 'batch': 2, 'loss': 8.831542015075684}
{'epoch': 0, 'batch': 3, 'loss': 8.802162170410156}
{'epoch': 0, 'batch': 4, 'loss': 8.779035568237305}
{'epoch': 0, 'batch': 5, 'loss': 8.765830039978027}
{'epoch': 0, 'batch': 6, 'loss': 8.788235664367676}
{'epoch': 0, 'batch': 7, 'loss': 8.754709243774414}
{'epoch': 0, 'batch': 8, 'loss': 8.70895767211914}
{'epoch': 0, 'batch': 9, 'loss': 8.645829200744629}
{'epoch': 0, 'batch': 10, 'loss': 8.640631675720215}
{'epoch': 0, 'batch': 11, 'loss': 8.598955154418945}
{'epoch': 0, 'batch': 12, 'loss': 8.649142265319824}
{'epoch': 0, 'batch': 13, 'loss': 8.530106544494629}
{'epoch': 0, 'batch': 14, 'loss': 8.43099594116211}
{'epoch': 0, 'batch': 15, 'loss': 8.463764190673828}
{'epoch': 0, 'batch': 16, 'loss': 8.373098373413086}
{'epoch': 0, 'batch': 17, 'loss': 8.33920669555664}
{'epoch': 0, 'batch': 18, 'loss': 8.278918266296387}
{'epoch': 0, 'batch': 19, 'loss': 8.311437606811523}
{'epoch': 0, 'batch': 20, 'loss': 8.211098670959473}

```

```
{'epoch': 0, 'batch': 21, 'loss': 8.247647285461426}
{'epoch': 0, 'batch': 22, 'loss': 8.222609519958496}
{'epoch': 0, 'batch': 23, 'loss': 8.213614463806152}
{'epoch': 0, 'batch': 24, 'loss': 8.134960174560547}
{'epoch': 0, 'batch': 25, 'loss': 8.078730583190918}
{'epoch': 0, 'batch': 26, 'loss': 7.956901550292969}
{'epoch': 0, 'batch': 27, 'loss': 7.92431116104126}
{'epoch': 0, 'batch': 28, 'loss': 8.102158546447754}
{'epoch': 0, 'batch': 29, 'loss': 8.081637382507324}
{'epoch': 0, 'batch': 30, 'loss': 7.734861373901367}
{'epoch': 0, 'batch': 31, 'loss': 7.730477333068848}
{'epoch': 0, 'batch': 32, 'loss': 7.7853875160217285}
{'epoch': 0, 'batch': 33, 'loss': 7.83585262298584}
{'epoch': 0, 'batch': 34, 'loss': 7.7959675788879395}
{'epoch': 0, 'batch': 35, 'loss': 7.86326265335083}
{'epoch': 0, 'batch': 36, 'loss': 7.861080169677734}
{'epoch': 0, 'batch': 37, 'loss': 7.617390155792236}
{'epoch': 0, 'batch': 38, 'loss': 7.747489929199219}
{'epoch': 0, 'batch': 39, 'loss': 7.685596466064453}
{'epoch': 0, 'batch': 40, 'loss': 7.878819942474365}
{'epoch': 0, 'batch': 41, 'loss': 7.669360637664795}
{'epoch': 0, 'batch': 42, 'loss': 7.788050651550293}
{'epoch': 0, 'batch': 43, 'loss': 7.5622172355651855}
{'epoch': 0, 'batch': 44, 'loss': 7.501279354095459}
{'epoch': 0, 'batch': 45, 'loss': 7.592057704925537}
{'epoch': 0, 'batch': 46, 'loss': 7.74299955368042}
{'epoch': 0, 'batch': 47, 'loss': 7.918938159942627}
{'epoch': 0, 'batch': 48, 'loss': 7.454387187957764}
{'epoch': 0, 'batch': 49, 'loss': 7.654345512390137}
{'epoch': 0, 'batch': 50, 'loss': 7.834390163421631}
{'epoch': 0, 'batch': 51, 'loss': 7.645249366760254}
{'epoch': 0, 'batch': 52, 'loss': 7.263984680175781}
{'epoch': 0, 'batch': 53, 'loss': 7.464836120605469}
{'epoch': 0, 'batch': 54, 'loss': 7.43861198425293}
{'epoch': 0, 'batch': 55, 'loss': 7.436428070068359}
{'epoch': 0, 'batch': 56, 'loss': 7.475747108459473}
{'epoch': 0, 'batch': 57, 'loss': 7.503952503204346}
{'epoch': 0, 'batch': 58, 'loss': 7.396899700164795}
{'epoch': 0, 'batch': 59, 'loss': 7.372569561004639}
{'epoch': 0, 'batch': 60, 'loss': 7.333956241607666}
{'epoch': 0, 'batch': 61, 'loss': 7.515947341918945}
{'epoch': 0, 'batch': 62, 'loss': 7.473069190979004}
{'epoch': 0, 'batch': 63, 'loss': 7.381544589996338}
{'epoch': 0, 'batch': 64, 'loss': 7.494742393493652}
{'epoch': 0, 'batch': 65, 'loss': 7.404997825622559}
{'epoch': 0, 'batch': 66, 'loss': 7.414012432098389}
{'epoch': 0, 'batch': 67, 'loss': 7.188173770904541}
{'epoch': 0, 'batch': 68, 'loss': 7.418694019317627}
{'epoch': 0, 'batch': 69, 'loss': 7.153158664703369}
{'epoch': 0, 'batch': 70, 'loss': 7.580672264099121}
{'epoch': 0, 'batch': 71, 'loss': 7.498198986053467}
{'epoch': 0, 'batch': 72, 'loss': 7.433511257171631}
```

```

{'epoch': 0, 'batch': 73, 'loss': 7.506490230560303}
{'epoch': 0, 'batch': 74, 'loss': 7.413869857788086}
{'epoch': 0, 'batch': 75, 'loss': 7.634593486785889}
{'epoch': 0, 'batch': 76, 'loss': 7.382573127746582}
{'epoch': 0, 'batch': 77, 'loss': 7.639023303985596}
{'epoch': 0, 'batch': 78, 'loss': 7.813090801239014}
{'epoch': 0, 'batch': 79, 'loss': 6.965834140777588}
{'epoch': 0, 'batch': 80, 'loss': 7.2872514724731445}
{'epoch': 0, 'batch': 81, 'loss': 7.507659912109375}
{'epoch': 0, 'batch': 82, 'loss': 7.462541103363037}
{'epoch': 0, 'batch': 83, 'loss': 7.5284104347229}
{'epoch': 0, 'batch': 84, 'loss': 7.321312427520752}
{'epoch': 1, 'batch': 0, 'loss': 7.059711933135986}
{'epoch': 1, 'batch': 1, 'loss': 7.05221700668335}
{'epoch': 1, 'batch': 2, 'loss': 7.01959228515625}
{'epoch': 1, 'batch': 3, 'loss': 7.180863857269287}
{'epoch': 1, 'batch': 4, 'loss': 7.132821559906006}
{'epoch': 1, 'batch': 5, 'loss': 7.131748199462891}

{'epoch': 1, 'batch': 6, 'loss': 7.46099328994751}
{'epoch': 1, 'batch': 7, 'loss': 7.30351448059082}
{'epoch': 1, 'batch': 8, 'loss': 7.2133283615112305}
{'epoch': 1, 'batch': 9, 'loss': 7.098759174346924}
{'epoch': 1, 'batch': 10, 'loss': 7.067678451538086}
{'epoch': 1, 'batch': 11, 'loss': 6.981898307800293}
{'epoch': 1, 'batch': 12, 'loss': 7.103310585021973}
{'epoch': 1, 'batch': 13, 'loss': 7.129864692687988}
{'epoch': 1, 'batch': 14, 'loss': 6.822678565979004}
{'epoch': 1, 'batch': 15, 'loss': 6.91282320022583}
{'epoch': 1, 'batch': 16, 'loss': 6.724476337432861}
{'epoch': 1, 'batch': 17, 'loss': 6.888184070587158}
{'epoch': 1, 'batch': 18, 'loss': 6.798245429992676}
{'epoch': 1, 'batch': 19, 'loss': 6.941623210906982}
{'epoch': 1, 'batch': 20, 'loss': 6.682454586029053}
{'epoch': 1, 'batch': 21, 'loss': 7.011748790740967}
{'epoch': 1, 'batch': 22, 'loss': 7.003693103790283}
{'epoch': 1, 'batch': 23, 'loss': 7.082906723022461}
{'epoch': 1, 'batch': 24, 'loss': 7.045735836029053}
{'epoch': 1, 'batch': 25, 'loss': 6.806882858276367}
{'epoch': 1, 'batch': 26, 'loss': 6.7951273918151855}
{'epoch': 1, 'batch': 27, 'loss': 6.805214881896973}
{'epoch': 1, 'batch': 28, 'loss': 7.183021545410156}
{'epoch': 1, 'batch': 29, 'loss': 7.245507717132568}
{'epoch': 1, 'batch': 30, 'loss': 6.666995048522949}
{'epoch': 1, 'batch': 31, 'loss': 6.668855667114258}
{'epoch': 1, 'batch': 32, 'loss': 6.791995048522949}
{'epoch': 1, 'batch': 33, 'loss': 6.949270725250244}
{'epoch': 1, 'batch': 34, 'loss': 6.927199840545654}
{'epoch': 1, 'batch': 35, 'loss': 7.1685404777526855}
{'epoch': 1, 'batch': 36, 'loss': 7.136637210845947}
{'epoch': 1, 'batch': 37, 'loss': 6.874088287353516}
{'epoch': 1, 'batch': 38, 'loss': 7.201447486877441}

```

```

{'epoch': 1, 'batch': 39, 'loss': 7.0521559715271}
{'epoch': 1, 'batch': 40, 'loss': 7.2764892578125}
{'epoch': 1, 'batch': 41, 'loss': 7.023529529571533}
{'epoch': 1, 'batch': 42, 'loss': 7.246943473815918}
{'epoch': 1, 'batch': 43, 'loss': 6.992153644561768}
{'epoch': 1, 'batch': 44, 'loss': 6.906336307525635}
{'epoch': 1, 'batch': 45, 'loss': 7.03569221496582}
{'epoch': 1, 'batch': 46, 'loss': 7.248674392700195}
{'epoch': 1, 'batch': 47, 'loss': 7.522042274475098}
{'epoch': 1, 'batch': 48, 'loss': 6.985446453094482}
{'epoch': 1, 'batch': 49, 'loss': 7.21613883972168}
{'epoch': 1, 'batch': 50, 'loss': 7.425065517425537}
{'epoch': 1, 'batch': 51, 'loss': 7.256260395050049}
{'epoch': 1, 'batch': 52, 'loss': 6.865054130554199}
{'epoch': 1, 'batch': 53, 'loss': 7.126106262207031}
{'epoch': 1, 'batch': 54, 'loss': 7.06071138381958}
{'epoch': 1, 'batch': 55, 'loss': 7.074241638183594}
{'epoch': 1, 'batch': 56, 'loss': 7.116137504577637}
{'epoch': 1, 'batch': 57, 'loss': 7.172895431518555}
{'epoch': 1, 'batch': 58, 'loss': 7.073545932769775}
{'epoch': 1, 'batch': 59, 'loss': 7.106200218200684}
{'epoch': 1, 'batch': 60, 'loss': 7.046177387237549}
{'epoch': 1, 'batch': 61, 'loss': 7.237115859985352}
{'epoch': 1, 'batch': 62, 'loss': 7.193498611450195}
{'epoch': 1, 'batch': 63, 'loss': 7.1405487060546875}
{'epoch': 1, 'batch': 64, 'loss': 7.278002738952637}
{'epoch': 1, 'batch': 65, 'loss': 7.1747541427612305}
{'epoch': 1, 'batch': 66, 'loss': 7.156322956085205}
{'epoch': 1, 'batch': 67, 'loss': 6.962093353271484}
{'epoch': 1, 'batch': 68, 'loss': 7.188570022583008}
{'epoch': 1, 'batch': 69, 'loss': 6.9524970054626465}
{'epoch': 1, 'batch': 70, 'loss': 7.3581085205078125}
{'epoch': 1, 'batch': 71, 'loss': 7.294209957122803}
{'epoch': 1, 'batch': 72, 'loss': 7.2034125328063965}
{'epoch': 1, 'batch': 73, 'loss': 7.292008876800537}
{'epoch': 1, 'batch': 74, 'loss': 7.231502056121826}
{'epoch': 1, 'batch': 75, 'loss': 7.44360876083374}
{'epoch': 1, 'batch': 76, 'loss': 7.197831630706787}
{'epoch': 1, 'batch': 77, 'loss': 7.4480109214782715}
{'epoch': 1, 'batch': 78, 'loss': 7.605882167816162}
{'epoch': 1, 'batch': 79, 'loss': 6.819902420043945}
{'epoch': 1, 'batch': 80, 'loss': 7.14261531829834}
{'epoch': 1, 'batch': 81, 'loss': 7.329740047454834}
{'epoch': 1, 'batch': 82, 'loss': 7.296651840209961}
{'epoch': 1, 'batch': 83, 'loss': 7.3715901374816895}
{'epoch': 1, 'batch': 84, 'loss': 7.15432596206665}
{'epoch': 2, 'batch': 0, 'loss': 7.024741172790527}
{'epoch': 2, 'batch': 1, 'loss': 7.007813930511475}
{'epoch': 2, 'batch': 2, 'loss': 6.976789951324463}
{'epoch': 2, 'batch': 3, 'loss': 7.150660514831543}
{'epoch': 2, 'batch': 4, 'loss': 7.120660305023193}
{'epoch': 2, 'batch': 5, 'loss': 7.119552135467529}

```

```
{'epoch': 2, 'batch': 6, 'loss': 7.438716411590576}
{'epoch': 2, 'batch': 7, 'loss': 7.296802043914795}
{'epoch': 2, 'batch': 8, 'loss': 7.211709022521973}
{'epoch': 2, 'batch': 9, 'loss': 7.09964656829834}
{'epoch': 2, 'batch': 10, 'loss': 7.072700023651123}
{'epoch': 2, 'batch': 11, 'loss': 7.007072448730469}
{'epoch': 2, 'batch': 12, 'loss': 7.106888771057129}
{'epoch': 2, 'batch': 13, 'loss': 7.170670509338379}
{'epoch': 2, 'batch': 14, 'loss': 6.867278575897217}
{'epoch': 2, 'batch': 15, 'loss': 6.94246244430542}
{'epoch': 2, 'batch': 16, 'loss': 6.764588832855225}
{'epoch': 2, 'batch': 17, 'loss': 6.936182498931885}
{'epoch': 2, 'batch': 18, 'loss': 6.8426666259765625}
{'epoch': 2, 'batch': 19, 'loss': 6.9771294593811035}
{'epoch': 2, 'batch': 20, 'loss': 6.729433536529541}
{'epoch': 2, 'batch': 21, 'loss': 7.05743932723999}
{'epoch': 2, 'batch': 22, 'loss': 7.047161102294922}
{'epoch': 2, 'batch': 23, 'loss': 7.118432998657227}
{'epoch': 2, 'batch': 24, 'loss': 7.0863518714904785}
{'epoch': 2, 'batch': 25, 'loss': 6.834905624389648}
{'epoch': 2, 'batch': 26, 'loss': 6.8235182762146}
{'epoch': 2, 'batch': 27, 'loss': 6.837455749511719}
{'epoch': 2, 'batch': 28, 'loss': 7.213979244232178}
{'epoch': 2, 'batch': 29, 'loss': 7.292228698730469}
{'epoch': 2, 'batch': 30, 'loss': 6.689293384552002}
{'epoch': 2, 'batch': 31, 'loss': 6.66875696182251}
{'epoch': 2, 'batch': 32, 'loss': 6.8080620765686035}
{'epoch': 2, 'batch': 33, 'loss': 6.9598708152771}
{'epoch': 2, 'batch': 34, 'loss': 6.927647590637207}
{'epoch': 2, 'batch': 35, 'loss': 7.185183048248291}
{'epoch': 2, 'batch': 36, 'loss': 7.131594657897949}
{'epoch': 2, 'batch': 37, 'loss': 6.876331806182861}
{'epoch': 2, 'batch': 38, 'loss': 7.213656902313232}
{'epoch': 2, 'batch': 39, 'loss': 7.039674282073975}
{'epoch': 2, 'batch': 40, 'loss': 7.260036468505859}
{'epoch': 2, 'batch': 41, 'loss': 7.013430595397949}
{'epoch': 2, 'batch': 42, 'loss': 7.241241931915283}
{'epoch': 2, 'batch': 43, 'loss': 6.9713029861450195}
{'epoch': 2, 'batch': 44, 'loss': 6.875478744506836}
{'epoch': 2, 'batch': 45, 'loss': 6.985090255737305}
{'epoch': 2, 'batch': 46, 'loss': 7.217062473297119}
{'epoch': 2, 'batch': 47, 'loss': 7.489849090576172}
{'epoch': 2, 'batch': 48, 'loss': 6.950978755950928}
{'epoch': 2, 'batch': 49, 'loss': 7.175288677215576}
{'epoch': 2, 'batch': 50, 'loss': 7.375542640686035}
{'epoch': 2, 'batch': 51, 'loss': 7.204585552215576}
{'epoch': 2, 'batch': 52, 'loss': 6.829137325286865}
{'epoch': 2, 'batch': 53, 'loss': 7.087884426116943}
{'epoch': 2, 'batch': 54, 'loss': 7.014347076416016}
{'epoch': 2, 'batch': 55, 'loss': 7.033514499664307}
{'epoch': 2, 'batch': 56, 'loss': 7.074599742889404}
{'epoch': 2, 'batch': 57, 'loss': 7.107576370239258}
```

```

{'epoch': 2, 'batch': 58, 'loss': 7.024252891540527}
{'epoch': 2, 'batch': 59, 'loss': 7.0601487159729}
{'epoch': 2, 'batch': 60, 'loss': 6.995757579803467}
{'epoch': 2, 'batch': 61, 'loss': 7.176192283630371}
{'epoch': 2, 'batch': 62, 'loss': 7.1249799728393555}
{'epoch': 2, 'batch': 63, 'loss': 7.081434726715088}
{'epoch': 2, 'batch': 64, 'loss': 7.2155632972717285}
{'epoch': 2, 'batch': 65, 'loss': 7.104616165161133}
{'epoch': 2, 'batch': 66, 'loss': 7.091816425323486}
{'epoch': 2, 'batch': 67, 'loss': 6.904090404510498}
{'epoch': 2, 'batch': 68, 'loss': 7.12293004989624}
{'epoch': 2, 'batch': 69, 'loss': 6.889719009399414}
{'epoch': 2, 'batch': 70, 'loss': 7.278555393218994}
{'epoch': 2, 'batch': 71, 'loss': 7.219958782196045}
{'epoch': 2, 'batch': 72, 'loss': 7.1368865966796875}
{'epoch': 2, 'batch': 73, 'loss': 7.215034484863281}
{'epoch': 2, 'batch': 74, 'loss': 7.165929794311523}
{'epoch': 2, 'batch': 75, 'loss': 7.355332374572754}

{'epoch': 2, 'batch': 76, 'loss': 7.130237579345703}
{'epoch': 2, 'batch': 77, 'loss': 7.370179653167725}
{'epoch': 2, 'batch': 78, 'loss': 7.515927314758301}
{'epoch': 2, 'batch': 79, 'loss': 6.765122890472412}
{'epoch': 2, 'batch': 80, 'loss': 7.079071521759033}
{'epoch': 2, 'batch': 81, 'loss': 7.250545978546143}
{'epoch': 2, 'batch': 82, 'loss': 7.219558238983154}
{'epoch': 2, 'batch': 83, 'loss': 7.294966220855713}
{'epoch': 2, 'batch': 84, 'loss': 7.087263107299805}
{'epoch': 3, 'batch': 0, 'loss': 7.0200042724609375}
{'epoch': 3, 'batch': 1, 'loss': 7.006531238555908}
{'epoch': 3, 'batch': 2, 'loss': 6.968457221984863}
{'epoch': 3, 'batch': 3, 'loss': 7.1423516273498535}
{'epoch': 3, 'batch': 4, 'loss': 7.121644496917725}
{'epoch': 3, 'batch': 5, 'loss': 7.124332427978516}
{'epoch': 3, 'batch': 6, 'loss': 7.447255611419678}
{'epoch': 3, 'batch': 7, 'loss': 7.306124687194824}
{'epoch': 3, 'batch': 8, 'loss': 7.223639488220215}
{'epoch': 3, 'batch': 9, 'loss': 7.115995407104492}
{'epoch': 3, 'batch': 10, 'loss': 7.092838764190674}
{'epoch': 3, 'batch': 11, 'loss': 7.023979187011719}
{'epoch': 3, 'batch': 12, 'loss': 7.130101680755615}
{'epoch': 3, 'batch': 13, 'loss': 7.2056050300598145}
{'epoch': 3, 'batch': 14, 'loss': 6.892251968383789}
{'epoch': 3, 'batch': 15, 'loss': 6.972198963165283}
{'epoch': 3, 'batch': 16, 'loss': 6.782713890075684}
{'epoch': 3, 'batch': 17, 'loss': 6.970142364501953}
{'epoch': 3, 'batch': 18, 'loss': 6.870755195617676}
{'epoch': 3, 'batch': 19, 'loss': 7.0062127113342285}
{'epoch': 3, 'batch': 20, 'loss': 6.7594685554504395}
{'epoch': 3, 'batch': 21, 'loss': 7.089641571044922}
{'epoch': 3, 'batch': 22, 'loss': 7.076836109161377}
{'epoch': 3, 'batch': 23, 'loss': 7.1485161781311035}

```

```

{'epoch': 3, 'batch': 24, 'loss': 7.124423503875732}
{'epoch': 3, 'batch': 25, 'loss': 6.860201835632324}
{'epoch': 3, 'batch': 26, 'loss': 6.852168083190918}
{'epoch': 3, 'batch': 27, 'loss': 6.862869739532471}
{'epoch': 3, 'batch': 28, 'loss': 7.234306335449219}
{'epoch': 3, 'batch': 29, 'loss': 7.317596435546875}
{'epoch': 3, 'batch': 30, 'loss': 6.706722259521484}
{'epoch': 3, 'batch': 31, 'loss': 6.680185317993164}
{'epoch': 3, 'batch': 32, 'loss': 6.822739601135254}
{'epoch': 3, 'batch': 33, 'loss': 6.976681709289551}
{'epoch': 3, 'batch': 34, 'loss': 6.938984394073486}
{'epoch': 3, 'batch': 35, 'loss': 7.20095157623291}
{'epoch': 3, 'batch': 36, 'loss': 7.1406965255737305}
{'epoch': 3, 'batch': 37, 'loss': 6.887728214263916}
{'epoch': 3, 'batch': 38, 'loss': 7.227267742156982}
{'epoch': 3, 'batch': 39, 'loss': 7.044398784637451}
{'epoch': 3, 'batch': 40, 'loss': 7.260115623474121}
{'epoch': 3, 'batch': 41, 'loss': 7.015069484710693}
{'epoch': 3, 'batch': 42, 'loss': 7.243650913238525}
{'epoch': 3, 'batch': 43, 'loss': 6.969829559326172}
{'epoch': 3, 'batch': 44, 'loss': 6.864962100982666}
{'epoch': 3, 'batch': 45, 'loss': 6.968074321746826}
{'epoch': 3, 'batch': 46, 'loss': 7.204095840454102}
{'epoch': 3, 'batch': 47, 'loss': 7.482349872589111}
{'epoch': 3, 'batch': 48, 'loss': 6.940086841583252}
{'epoch': 3, 'batch': 49, 'loss': 7.1566162109375}
{'epoch': 3, 'batch': 50, 'loss': 7.35193395614624}
{'epoch': 3, 'batch': 51, 'loss': 7.180637359619141}
{'epoch': 3, 'batch': 52, 'loss': 6.813956260681152}
{'epoch': 3, 'batch': 53, 'loss': 7.070832252502441}
{'epoch': 3, 'batch': 54, 'loss': 6.9938883781433105}
{'epoch': 3, 'batch': 55, 'loss': 7.014961242675781}
{'epoch': 3, 'batch': 56, 'loss': 7.0541558265686035}
{'epoch': 3, 'batch': 57, 'loss': 7.074001312255859}
{'epoch': 3, 'batch': 58, 'loss': 6.999581336975098}
{'epoch': 3, 'batch': 59, 'loss': 7.035064220428467}
{'epoch': 3, 'batch': 60, 'loss': 6.973572731018066}
{'epoch': 3, 'batch': 61, 'loss': 7.143688678741455}
{'epoch': 3, 'batch': 62, 'loss': 7.094367027282715}
{'epoch': 3, 'batch': 63, 'loss': 7.051783561706543}
{'epoch': 3, 'batch': 64, 'loss': 7.178741455078125}
{'epoch': 3, 'batch': 65, 'loss': 7.065074443817139}
{'epoch': 3, 'batch': 66, 'loss': 7.0563483238220215}
{'epoch': 3, 'batch': 67, 'loss': 6.8736138343811035}
{'epoch': 3, 'batch': 68, 'loss': 7.089613914489746}
{'epoch': 3, 'batch': 69, 'loss': 6.8524675369262695}
{'epoch': 3, 'batch': 70, 'loss': 7.2382049560546875}
{'epoch': 3, 'batch': 71, 'loss': 7.1782636642456055}
{'epoch': 3, 'batch': 72, 'loss': 7.100869655609131}
{'epoch': 3, 'batch': 73, 'loss': 7.171102523803711}
{'epoch': 3, 'batch': 74, 'loss': 7.127478122711182}
{'epoch': 3, 'batch': 75, 'loss': 7.302896022796631}

```

```

{'epoch': 3, 'batch': 76, 'loss': 7.0915846824646}
{'epoch': 3, 'batch': 77, 'loss': 7.324782848358154}
{'epoch': 3, 'batch': 78, 'loss': 7.461734294891357}
{'epoch': 3, 'batch': 79, 'loss': 6.731306076049805}
{'epoch': 3, 'batch': 80, 'loss': 7.039856910705566}
{'epoch': 3, 'batch': 81, 'loss': 7.202918529510498}
{'epoch': 3, 'batch': 82, 'loss': 7.174056529998779}
{'epoch': 3, 'batch': 83, 'loss': 7.248866081237793}
{'epoch': 3, 'batch': 84, 'loss': 7.049431800842285}
{'epoch': 4, 'batch': 0, 'loss': 7.01784086227417}
{'epoch': 4, 'batch': 1, 'loss': 7.005857467651367}
{'epoch': 4, 'batch': 2, 'loss': 6.961633682250977}
{'epoch': 4, 'batch': 3, 'loss': 7.1387128829956055}
{'epoch': 4, 'batch': 4, 'loss': 7.123837471008301}
{'epoch': 4, 'batch': 5, 'loss': 7.126682281494141}
{'epoch': 4, 'batch': 6, 'loss': 7.451722621917725}
{'epoch': 4, 'batch': 7, 'loss': 7.311954975128174}
{'epoch': 4, 'batch': 8, 'loss': 7.2303948402404785}
{'epoch': 4, 'batch': 9, 'loss': 7.126791954040527}
{'epoch': 4, 'batch': 10, 'loss': 7.103911399841309}
{'epoch': 4, 'batch': 11, 'loss': 7.039898872375488}
{'epoch': 4, 'batch': 12, 'loss': 7.1421709060668945}
{'epoch': 4, 'batch': 13, 'loss': 7.22818660736084}
{'epoch': 4, 'batch': 14, 'loss': 6.912311553955078}
{'epoch': 4, 'batch': 15, 'loss': 6.989768028259277}
{'epoch': 4, 'batch': 16, 'loss': 6.795267581939697}
{'epoch': 4, 'batch': 17, 'loss': 6.995499134063721}
{'epoch': 4, 'batch': 18, 'loss': 6.891468048095703}
{'epoch': 4, 'batch': 19, 'loss': 7.028570175170898}
{'epoch': 4, 'batch': 20, 'loss': 6.776066780090332}
{'epoch': 4, 'batch': 21, 'loss': 7.107916355133057}
{'epoch': 4, 'batch': 22, 'loss': 7.097434043884277}
{'epoch': 4, 'batch': 23, 'loss': 7.162280082702637}
{'epoch': 4, 'batch': 24, 'loss': 7.143169403076172}
{'epoch': 4, 'batch': 25, 'loss': 6.8745903968811035}
{'epoch': 4, 'batch': 26, 'loss': 6.867652893066406}
{'epoch': 4, 'batch': 27, 'loss': 6.880659103393555}
{'epoch': 4, 'batch': 28, 'loss': 7.252333164215088}
{'epoch': 4, 'batch': 29, 'loss': 7.332807540893555}
{'epoch': 4, 'batch': 30, 'loss': 6.723623752593994}
{'epoch': 4, 'batch': 31, 'loss': 6.689955234527588}
{'epoch': 4, 'batch': 32, 'loss': 6.831784248352051}
{'epoch': 4, 'batch': 33, 'loss': 6.9898223876953125}
{'epoch': 4, 'batch': 34, 'loss': 6.948194980621338}
{'epoch': 4, 'batch': 35, 'loss': 7.213279724121094}
{'epoch': 4, 'batch': 36, 'loss': 7.150313377380371}
{'epoch': 4, 'batch': 37, 'loss': 6.895305633544922}
{'epoch': 4, 'batch': 38, 'loss': 7.2416300773620605}
{'epoch': 4, 'batch': 39, 'loss': 7.051093101501465}
{'epoch': 4, 'batch': 40, 'loss': 7.26240873336792}
{'epoch': 4, 'batch': 41, 'loss': 7.019083499908447}
{'epoch': 4, 'batch': 42, 'loss': 7.2490739822387695}

```



```

{'epoch': 4, 'batch': 43, 'loss': 6.96939754486084}
{'epoch': 4, 'batch': 44, 'loss': 6.862903118133545}
{'epoch': 4, 'batch': 45, 'loss': 6.962079048156738}
{'epoch': 4, 'batch': 46, 'loss': 7.197986125946045}
{'epoch': 4, 'batch': 47, 'loss': 7.482102870941162}
{'epoch': 4, 'batch': 48, 'loss': 6.9336018562316895}
{'epoch': 4, 'batch': 49, 'loss': 7.151173114776611}
{'epoch': 4, 'batch': 50, 'loss': 7.340342044830322}
{'epoch': 4, 'batch': 51, 'loss': 7.169499397277832}
{'epoch': 4, 'batch': 52, 'loss': 6.804559707641602}
{'epoch': 4, 'batch': 53, 'loss': 7.063354969024658}
{'epoch': 4, 'batch': 54, 'loss': 6.980712890625}
{'epoch': 4, 'batch': 55, 'loss': 7.005067825317383}
{'epoch': 4, 'batch': 56, 'loss': 7.044636249542236}
{'epoch': 4, 'batch': 57, 'loss': 7.054666996002197}
{'epoch': 4, 'batch': 58, 'loss': 6.985432147979736}
{'epoch': 4, 'batch': 59, 'loss': 7.021539211273193}
{'epoch': 4, 'batch': 60, 'loss': 6.958967208862305}

{'epoch': 4, 'batch': 61, 'loss': 7.122620105743408}
{'epoch': 4, 'batch': 62, 'loss': 7.077916145324707}
{'epoch': 4, 'batch': 63, 'loss': 7.036258697509766}
{'epoch': 4, 'batch': 64, 'loss': 7.155154228210449}
{'epoch': 4, 'batch': 65, 'loss': 7.043969631195068}
{'epoch': 4, 'batch': 66, 'loss': 7.036016941070557}
{'epoch': 4, 'batch': 67, 'loss': 6.853846549987793}
{'epoch': 4, 'batch': 68, 'loss': 7.0703887939453125}
{'epoch': 4, 'batch': 69, 'loss': 6.831417560577393}
{'epoch': 4, 'batch': 70, 'loss': 7.216721534729004}
{'epoch': 4, 'batch': 71, 'loss': 7.152637481689453}
{'epoch': 4, 'batch': 72, 'loss': 7.077962398529053}
{'epoch': 4, 'batch': 73, 'loss': 7.14497709274292}
{'epoch': 4, 'batch': 74, 'loss': 7.101333141326904}
{'epoch': 4, 'batch': 75, 'loss': 7.271217346191406}
{'epoch': 4, 'batch': 76, 'loss': 7.0679545402526855}
{'epoch': 4, 'batch': 77, 'loss': 7.29822301864624}
{'epoch': 4, 'batch': 78, 'loss': 7.425465106964111}
{'epoch': 4, 'batch': 79, 'loss': 6.710200786590576}
{'epoch': 4, 'batch': 80, 'loss': 7.013640403747559}
{'epoch': 4, 'batch': 81, 'loss': 7.173495292663574}
{'epoch': 4, 'batch': 82, 'loss': 7.147667407989502}
{'epoch': 4, 'batch': 83, 'loss': 7.221086025238037}
{'epoch': 4, 'batch': 84, 'loss': 7.024036407470703}
{'epoch': 5, 'batch': 0, 'loss': 7.015957832336426}
{'epoch': 5, 'batch': 1, 'loss': 7.003401279449463}
{'epoch': 5, 'batch': 2, 'loss': 6.958041667938232}
{'epoch': 5, 'batch': 3, 'loss': 7.139358043670654}
{'epoch': 5, 'batch': 4, 'loss': 7.123295783996582}
{'epoch': 5, 'batch': 5, 'loss': 7.129751205444336}
{'epoch': 5, 'batch': 6, 'loss': 7.457843780517578}
{'epoch': 5, 'batch': 7, 'loss': 7.316948413848877}
{'epoch': 5, 'batch': 8, 'loss': 7.237762451171875}

```

```
{'epoch': 5, 'batch': 9, 'loss': 7.139527320861816}
{'epoch': 5, 'batch': 10, 'loss': 7.115419387817383}
{'epoch': 5, 'batch': 11, 'loss': 7.0504374504089355}
{'epoch': 5, 'batch': 12, 'loss': 7.153275012969971}
{'epoch': 5, 'batch': 13, 'loss': 7.2437238693237305}
{'epoch': 5, 'batch': 14, 'loss': 6.92875862121582}
{'epoch': 5, 'batch': 15, 'loss': 7.003561496734619}
{'epoch': 5, 'batch': 16, 'loss': 6.807796478271484}
{'epoch': 5, 'batch': 17, 'loss': 7.005851745605469}
{'epoch': 5, 'batch': 18, 'loss': 6.900001049041748}
{'epoch': 5, 'batch': 19, 'loss': 7.042189598083496}
{'epoch': 5, 'batch': 20, 'loss': 6.786667346954346}
{'epoch': 5, 'batch': 21, 'loss': 7.119274139404297}
{'epoch': 5, 'batch': 22, 'loss': 7.102005481719971}
{'epoch': 5, 'batch': 23, 'loss': 7.170944690704346}
{'epoch': 5, 'batch': 24, 'loss': 7.158413410186768}
{'epoch': 5, 'batch': 25, 'loss': 6.883875846862793}
{'epoch': 5, 'batch': 26, 'loss': 6.87701940536499}
{'epoch': 5, 'batch': 27, 'loss': 6.889986515045166}
{'epoch': 5, 'batch': 28, 'loss': 7.258411884307861}
{'epoch': 5, 'batch': 29, 'loss': 7.342936038970947}
{'epoch': 5, 'batch': 30, 'loss': 6.735489845275879}
{'epoch': 5, 'batch': 31, 'loss': 6.696049690246582}
{'epoch': 5, 'batch': 32, 'loss': 6.840856552124023}
{'epoch': 5, 'batch': 33, 'loss': 7.000320911407471}
{'epoch': 5, 'batch': 34, 'loss': 6.952349662780762}
{'epoch': 5, 'batch': 35, 'loss': 7.219676971435547}
{'epoch': 5, 'batch': 36, 'loss': 7.158430576324463}
{'epoch': 5, 'batch': 37, 'loss': 6.901295185089111}
{'epoch': 5, 'batch': 38, 'loss': 7.248319149017334}
{'epoch': 5, 'batch': 39, 'loss': 7.056112766265869}
{'epoch': 5, 'batch': 40, 'loss': 7.265148162841797}
{'epoch': 5, 'batch': 41, 'loss': 7.022049903869629}
{'epoch': 5, 'batch': 42, 'loss': 7.252974987030029}
{'epoch': 5, 'batch': 43, 'loss': 6.969099044799805}
{'epoch': 5, 'batch': 44, 'loss': 6.864760875701904}
{'epoch': 5, 'batch': 45, 'loss': 6.958542823791504}
{'epoch': 5, 'batch': 46, 'loss': 7.198187828063965}
{'epoch': 5, 'batch': 47, 'loss': 7.482692718505859}
{'epoch': 5, 'batch': 48, 'loss': 6.930470943450928}
{'epoch': 5, 'batch': 49, 'loss': 7.147049427032471}
{'epoch': 5, 'batch': 50, 'loss': 7.332825183868408}
{'epoch': 5, 'batch': 51, 'loss': 7.164300441741943}
{'epoch': 5, 'batch': 52, 'loss': 6.798702716827393}
{'epoch': 5, 'batch': 53, 'loss': 7.059563636779785}
{'epoch': 5, 'batch': 54, 'loss': 6.973867893218994}
{'epoch': 5, 'batch': 55, 'loss': 7.000270366668701}
{'epoch': 5, 'batch': 56, 'loss': 7.03940486907959}
{'epoch': 5, 'batch': 57, 'loss': 7.042879581451416}
{'epoch': 5, 'batch': 58, 'loss': 6.97992467880249}
{'epoch': 5, 'batch': 59, 'loss': 7.012818813323975}
{'epoch': 5, 'batch': 60, 'loss': 6.952224254608154}
```

```
{ 'epoch': 5, 'batch': 61, 'loss': 7.113569736480713}
{ 'epoch': 5, 'batch': 62, 'loss': 7.068440914154053}
{ 'epoch': 5, 'batch': 63, 'loss': 7.027207374572754}
{ 'epoch': 5, 'batch': 64, 'loss': 7.139922618865967}
{ 'epoch': 5, 'batch': 65, 'loss': 7.029321670532227}
{ 'epoch': 5, 'batch': 66, 'loss': 7.022130966186523}
{ 'epoch': 5, 'batch': 67, 'loss': 6.84315299987793}
{ 'epoch': 5, 'batch': 68, 'loss': 7.057316780090332}
{ 'epoch': 5, 'batch': 69, 'loss': 6.815420150756836}
{ 'epoch': 5, 'batch': 70, 'loss': 7.200433254241943}
{ 'epoch': 5, 'batch': 71, 'loss': 7.139327049255371}
{ 'epoch': 5, 'batch': 72, 'loss': 7.06567907333374}
{ 'epoch': 5, 'batch': 73, 'loss': 7.125175476074219}
{ 'epoch': 5, 'batch': 74, 'loss': 7.081988334655762}
{ 'epoch': 5, 'batch': 75, 'loss': 7.248497009277344}
{ 'epoch': 5, 'batch': 76, 'loss': 7.0565409660339355}
{ 'epoch': 5, 'batch': 77, 'loss': 7.278059482574463}
{ 'epoch': 5, 'batch': 78, 'loss': 7.4001240730285645}
{ 'epoch': 5, 'batch': 79, 'loss': 6.699833869934082}
{ 'epoch': 5, 'batch': 80, 'loss': 6.997342586517334}
{ 'epoch': 5, 'batch': 81, 'loss': 7.155137538909912}
{ 'epoch': 5, 'batch': 82, 'loss': 7.128520965576172}
{ 'epoch': 5, 'batch': 83, 'loss': 7.199851989746094}
{ 'epoch': 5, 'batch': 84, 'loss': 7.011378288269043}
{ 'epoch': 6, 'batch': 0, 'loss': 7.017011642456055}
{ 'epoch': 6, 'batch': 1, 'loss': 7.005997180938721}
{ 'epoch': 6, 'batch': 2, 'loss': 6.954700946807861}
{ 'epoch': 6, 'batch': 3, 'loss': 7.139739036560059}
{ 'epoch': 6, 'batch': 4, 'loss': 7.116096019744873}
{ 'epoch': 6, 'batch': 5, 'loss': 7.123080253601074}
{ 'epoch': 6, 'batch': 6, 'loss': 7.450973987579346}
{ 'epoch': 6, 'batch': 7, 'loss': 7.310667991638184}
{ 'epoch': 6, 'batch': 8, 'loss': 7.231868267059326}
{ 'epoch': 6, 'batch': 9, 'loss': 7.130074977874756}
{ 'epoch': 6, 'batch': 10, 'loss': 7.114617347717285}
{ 'epoch': 6, 'batch': 11, 'loss': 7.051895618438721}
{ 'epoch': 6, 'batch': 12, 'loss': 7.160690784454346}
{ 'epoch': 6, 'batch': 13, 'loss': 7.227096080780029}
{ 'epoch': 6, 'batch': 14, 'loss': 6.935093879699707}
{ 'epoch': 6, 'batch': 15, 'loss': 7.013754367828369}
{ 'epoch': 6, 'batch': 16, 'loss': 6.823307991027832}
{ 'epoch': 6, 'batch': 17, 'loss': 7.006016254425049}
{ 'epoch': 6, 'batch': 18, 'loss': 6.9071149826049805}
{ 'epoch': 6, 'batch': 19, 'loss': 7.039802074432373}
{ 'epoch': 6, 'batch': 20, 'loss': 6.780782699584961}
{ 'epoch': 6, 'batch': 21, 'loss': 7.111245155334473}
{ 'epoch': 6, 'batch': 22, 'loss': 7.1031012535095215}
{ 'epoch': 6, 'batch': 23, 'loss': 7.174283981323242}
{ 'epoch': 6, 'batch': 24, 'loss': 7.159337997436523}
{ 'epoch': 6, 'batch': 25, 'loss': 6.8728742599487305}
{ 'epoch': 6, 'batch': 26, 'loss': 6.8737077713012695}
{ 'epoch': 6, 'batch': 27, 'loss': 6.884941577911377}
```

```

{'epoch': 6, 'batch': 28, 'loss': 7.254018306732178}
{'epoch': 6, 'batch': 29, 'loss': 7.339008331298828}
{'epoch': 6, 'batch': 30, 'loss': 6.731785297393799}
{'epoch': 6, 'batch': 31, 'loss': 6.681175231933594}
{'epoch': 6, 'batch': 32, 'loss': 6.824437141418457}
{'epoch': 6, 'batch': 33, 'loss': 6.986426830291748}
{'epoch': 6, 'batch': 34, 'loss': 6.940235614776611}
{'epoch': 6, 'batch': 35, 'loss': 7.200750827789307}
{'epoch': 6, 'batch': 36, 'loss': 7.145999908447266}
{'epoch': 6, 'batch': 37, 'loss': 6.88315486907959}
{'epoch': 6, 'batch': 38, 'loss': 7.2334747314453125}
{'epoch': 6, 'batch': 39, 'loss': 7.037509918212891}
{'epoch': 6, 'batch': 40, 'loss': 7.237152099609375}
{'epoch': 6, 'batch': 41, 'loss': 7.004818916320801}
{'epoch': 6, 'batch': 42, 'loss': 7.236977577209473}
{'epoch': 6, 'batch': 43, 'loss': 6.9473958015441895}
{'epoch': 6, 'batch': 44, 'loss': 6.837268829345703}
{'epoch': 6, 'batch': 45, 'loss': 6.934420585632324}

{'epoch': 6, 'batch': 46, 'loss': 7.167357444763184}
{'epoch': 6, 'batch': 47, 'loss': 7.449888229370117}
{'epoch': 6, 'batch': 48, 'loss': 6.893074035644531}
{'epoch': 6, 'batch': 49, 'loss': 7.113471984863281}
{'epoch': 6, 'batch': 50, 'loss': 7.291328430175781}
{'epoch': 6, 'batch': 51, 'loss': 7.128344535827637}
{'epoch': 6, 'batch': 52, 'loss': 6.754519939422607}
{'epoch': 6, 'batch': 53, 'loss': 7.021132946014404}
{'epoch': 6, 'batch': 54, 'loss': 6.944086074829102}
{'epoch': 6, 'batch': 55, 'loss': 6.968042373657227}
{'epoch': 6, 'batch': 56, 'loss': 6.98880672454834}
{'epoch': 6, 'batch': 57, 'loss': 6.9751386642456055}
{'epoch': 6, 'batch': 58, 'loss': 6.930850982666016}
{'epoch': 6, 'batch': 59, 'loss': 6.956780433654785}
{'epoch': 6, 'batch': 60, 'loss': 6.901240825653076}
{'epoch': 6, 'batch': 61, 'loss': 7.073637008666992}
{'epoch': 6, 'batch': 62, 'loss': 7.008871078491211}
{'epoch': 6, 'batch': 63, 'loss': 6.981528282165527}
{'epoch': 6, 'batch': 64, 'loss': 7.074521541595459}
{'epoch': 6, 'batch': 65, 'loss': 6.9641923904418945}
{'epoch': 6, 'batch': 66, 'loss': 6.94862699508667}
{'epoch': 6, 'batch': 67, 'loss': 6.775835037231445}
{'epoch': 6, 'batch': 68, 'loss': 6.982078552246094}
{'epoch': 6, 'batch': 69, 'loss': 6.740169048309326}
{'epoch': 6, 'batch': 70, 'loss': 7.141275882720947}
{'epoch': 6, 'batch': 71, 'loss': 7.065019607543945}
{'epoch': 6, 'batch': 72, 'loss': 7.005814075469971}
{'epoch': 6, 'batch': 73, 'loss': 7.0179266929626465}
{'epoch': 6, 'batch': 74, 'loss': 6.982663631439209}
{'epoch': 6, 'batch': 75, 'loss': 7.147377014160156}
{'epoch': 6, 'batch': 76, 'loss': 6.978316783905029}
{'epoch': 6, 'batch': 77, 'loss': 7.199572563171387}
{'epoch': 6, 'batch': 78, 'loss': 7.279483795166016}

```

```
{'epoch': 6, 'batch': 79, 'loss': 6.640946388244629}
{'epoch': 6, 'batch': 80, 'loss': 6.867336750030518}
{'epoch': 6, 'batch': 81, 'loss': 7.065976619720459}
{'epoch': 6, 'batch': 82, 'loss': 7.01708984375}
{'epoch': 6, 'batch': 83, 'loss': 7.115919589996338}
{'epoch': 6, 'batch': 84, 'loss': 6.942521095275879}
{'epoch': 7, 'batch': 0, 'loss': 6.926289081573486}
{'epoch': 7, 'batch': 1, 'loss': 6.905025959014893}
{'epoch': 7, 'batch': 2, 'loss': 6.8647918701171875}
{'epoch': 7, 'batch': 3, 'loss': 7.04458475112915}
{'epoch': 7, 'batch': 4, 'loss': 6.978611946105957}
{'epoch': 7, 'batch': 5, 'loss': 6.9821600914001465}
{'epoch': 7, 'batch': 6, 'loss': 7.358444690704346}
{'epoch': 7, 'batch': 7, 'loss': 7.209994316101074}
{'epoch': 7, 'batch': 8, 'loss': 7.100429058074951}
{'epoch': 7, 'batch': 9, 'loss': 7.057007789611816}
{'epoch': 7, 'batch': 10, 'loss': 7.048097133636475}
{'epoch': 7, 'batch': 11, 'loss': 6.919705867767334}
{'epoch': 7, 'batch': 12, 'loss': 7.0608110427856445}
{'epoch': 7, 'batch': 13, 'loss': 7.131808757781982}
{'epoch': 7, 'batch': 14, 'loss': 6.78564977645874}
{'epoch': 7, 'batch': 15, 'loss': 6.89046049118042}
{'epoch': 7, 'batch': 16, 'loss': 6.688087463378906}
{'epoch': 7, 'batch': 17, 'loss': 6.8588080406188965}
{'epoch': 7, 'batch': 18, 'loss': 6.779478549957275}
{'epoch': 7, 'batch': 19, 'loss': 6.934826374053955}
{'epoch': 7, 'batch': 20, 'loss': 6.617140769958496}
{'epoch': 7, 'batch': 21, 'loss': 6.993520259857178}
{'epoch': 7, 'batch': 22, 'loss': 7.016242027282715}
{'epoch': 7, 'batch': 23, 'loss': 7.074526309967041}
{'epoch': 7, 'batch': 24, 'loss': 7.036077499389648}
{'epoch': 7, 'batch': 25, 'loss': 6.761541366577148}
{'epoch': 7, 'batch': 26, 'loss': 6.778846263885498}
{'epoch': 7, 'batch': 27, 'loss': 6.734866142272949}
{'epoch': 7, 'batch': 28, 'loss': 7.186545372009277}
{'epoch': 7, 'batch': 29, 'loss': 7.237938404083252}
{'epoch': 7, 'batch': 30, 'loss': 6.618737697601318}
{'epoch': 7, 'batch': 31, 'loss': 6.5472517013549805}
{'epoch': 7, 'batch': 32, 'loss': 6.659106731414795}
{'epoch': 7, 'batch': 33, 'loss': 6.87007474899292}
{'epoch': 7, 'batch': 34, 'loss': 6.828057289123535}
{'epoch': 7, 'batch': 35, 'loss': 7.043913841247559}
{'epoch': 7, 'batch': 36, 'loss': 7.012470722198486}
{'epoch': 7, 'batch': 37, 'loss': 6.769199371337891}
{'epoch': 7, 'batch': 38, 'loss': 7.094829559326172}
{'epoch': 7, 'batch': 39, 'loss': 6.884963512420654}
{'epoch': 7, 'batch': 40, 'loss': 7.107349872589111}
{'epoch': 7, 'batch': 41, 'loss': 6.8367695808410645}
{'epoch': 7, 'batch': 42, 'loss': 7.113658905029297}
{'epoch': 7, 'batch': 43, 'loss': 6.8028364181518555}
{'epoch': 7, 'batch': 44, 'loss': 6.7085161209106445}
{'epoch': 7, 'batch': 45, 'loss': 6.787148952484131}
```

```

{'epoch': 7, 'batch': 46, 'loss': 6.989660739898682}
{'epoch': 7, 'batch': 47, 'loss': 7.366296768188477}
{'epoch': 7, 'batch': 48, 'loss': 6.717991352081299}
{'epoch': 7, 'batch': 49, 'loss': 6.974681854248047}
{'epoch': 7, 'batch': 50, 'loss': 7.109318733215332}
{'epoch': 7, 'batch': 51, 'loss': 6.986232757568359}
{'epoch': 7, 'batch': 52, 'loss': 6.582769870758057}
{'epoch': 7, 'batch': 53, 'loss': 6.9027581214904785}
{'epoch': 7, 'batch': 54, 'loss': 6.819077491760254}
{'epoch': 7, 'batch': 55, 'loss': 6.860915184020996}
{'epoch': 7, 'batch': 56, 'loss': 6.825254440307617}
{'epoch': 7, 'batch': 57, 'loss': 6.825881004333496}
{'epoch': 7, 'batch': 58, 'loss': 6.745891094207764}
{'epoch': 7, 'batch': 59, 'loss': 6.828871726989746}
{'epoch': 7, 'batch': 60, 'loss': 6.721337795257568}
{'epoch': 7, 'batch': 61, 'loss': 6.947553634643555}
{'epoch': 7, 'batch': 62, 'loss': 6.881857395172119}
{'epoch': 7, 'batch': 63, 'loss': 6.846843242645264}
{'epoch': 7, 'batch': 64, 'loss': 6.899580478668213}
{'epoch': 7, 'batch': 65, 'loss': 6.788249969482422}
{'epoch': 7, 'batch': 66, 'loss': 6.819616317749023}
{'epoch': 7, 'batch': 67, 'loss': 6.628332138061523}
{'epoch': 7, 'batch': 68, 'loss': 6.843059062957764}
{'epoch': 7, 'batch': 69, 'loss': 6.560192108154297}
{'epoch': 7, 'batch': 70, 'loss': 7.0192484855651855}
{'epoch': 7, 'batch': 71, 'loss': 6.90634822845459}
{'epoch': 7, 'batch': 72, 'loss': 6.8480305671691895}
{'epoch': 7, 'batch': 73, 'loss': 6.857000827789307}
{'epoch': 7, 'batch': 74, 'loss': 6.838508129119873}
{'epoch': 7, 'batch': 75, 'loss': 6.99550199508667}
{'epoch': 7, 'batch': 76, 'loss': 6.822778224945068}
{'epoch': 7, 'batch': 77, 'loss': 7.05984354019165}
{'epoch': 7, 'batch': 78, 'loss': 7.1247944831848145}
{'epoch': 7, 'batch': 79, 'loss': 6.480728626251221}
{'epoch': 7, 'batch': 80, 'loss': 6.705629825592041}
{'epoch': 7, 'batch': 81, 'loss': 6.922226428985596}
{'epoch': 7, 'batch': 82, 'loss': 6.848421096801758}
{'epoch': 7, 'batch': 83, 'loss': 6.987112045288086}
{'epoch': 7, 'batch': 84, 'loss': 6.801080703735352}
{'epoch': 8, 'batch': 0, 'loss': 6.770510196685791}
{'epoch': 8, 'batch': 1, 'loss': 6.737504005432129}
{'epoch': 8, 'batch': 2, 'loss': 6.712871551513672}
{'epoch': 8, 'batch': 3, 'loss': 6.916645526885986}
{'epoch': 8, 'batch': 4, 'loss': 6.833455562591553}
{'epoch': 8, 'batch': 5, 'loss': 6.8273606300354}
{'epoch': 8, 'batch': 6, 'loss': 7.2287492752075195}
{'epoch': 8, 'batch': 7, 'loss': 7.083475112915039}
{'epoch': 8, 'batch': 8, 'loss': 6.957874774932861}
{'epoch': 8, 'batch': 9, 'loss': 6.92555046081543}
{'epoch': 8, 'batch': 10, 'loss': 6.910398006439209}
{'epoch': 8, 'batch': 11, 'loss': 6.75999641418457}
{'epoch': 8, 'batch': 12, 'loss': 6.92737340927124}

```

```

{'epoch': 8, 'batch': 13, 'loss': 7.0101470947265625}
{'epoch': 8, 'batch': 14, 'loss': 6.648584842681885}
{'epoch': 8, 'batch': 15, 'loss': 6.7417311668396}
{'epoch': 8, 'batch': 16, 'loss': 6.543405055999756}
{'epoch': 8, 'batch': 17, 'loss': 6.689115047454834}
{'epoch': 8, 'batch': 18, 'loss': 6.609678268432617}
{'epoch': 8, 'batch': 19, 'loss': 6.772833347320557}
{'epoch': 8, 'batch': 20, 'loss': 6.45605993270874}
{'epoch': 8, 'batch': 21, 'loss': 6.840146064758301}
{'epoch': 8, 'batch': 22, 'loss': 6.9030046463012695}
{'epoch': 8, 'batch': 23, 'loss': 6.931671142578125}
{'epoch': 8, 'batch': 24, 'loss': 6.902324676513672}
{'epoch': 8, 'batch': 25, 'loss': 6.599310874938965}
{'epoch': 8, 'batch': 26, 'loss': 6.612722396850586}
{'epoch': 8, 'batch': 27, 'loss': 6.575686931610107}
{'epoch': 8, 'batch': 28, 'loss': 7.051492691040039}
{'epoch': 8, 'batch': 29, 'loss': 7.098325252532959}
{'epoch': 8, 'batch': 30, 'loss': 6.429304122924805}
{'epoch': 8, 'batch': 31, 'loss': 6.375686168670654}

{'epoch': 8, 'batch': 32, 'loss': 6.503727912902832}
{'epoch': 8, 'batch': 33, 'loss': 6.727967262268066}
{'epoch': 8, 'batch': 34, 'loss': 6.68412971496582}
{'epoch': 8, 'batch': 35, 'loss': 6.868195056915283}
{'epoch': 8, 'batch': 36, 'loss': 6.851027488708496}
{'epoch': 8, 'batch': 37, 'loss': 6.626132011413574}
{'epoch': 8, 'batch': 38, 'loss': 6.9542927742004395}
{'epoch': 8, 'batch': 39, 'loss': 6.736777305603027}
{'epoch': 8, 'batch': 40, 'loss': 6.944562911987305}
{'epoch': 8, 'batch': 41, 'loss': 6.673563003540039}
{'epoch': 8, 'batch': 42, 'loss': 6.970205307006836}
{'epoch': 8, 'batch': 43, 'loss': 6.654185771942139}
{'epoch': 8, 'batch': 44, 'loss': 6.581653118133545}
{'epoch': 8, 'batch': 45, 'loss': 6.64943790435791}
{'epoch': 8, 'batch': 46, 'loss': 6.853539943695068}
{'epoch': 8, 'batch': 47, 'loss': 7.2314863204956055}
{'epoch': 8, 'batch': 48, 'loss': 6.549684524536133}
{'epoch': 8, 'batch': 49, 'loss': 6.83934211730957}
{'epoch': 8, 'batch': 50, 'loss': 6.965965270996094}
{'epoch': 8, 'batch': 51, 'loss': 6.875934600830078}
{'epoch': 8, 'batch': 52, 'loss': 6.42496395111084}
{'epoch': 8, 'batch': 53, 'loss': 6.741030693054199}
{'epoch': 8, 'batch': 54, 'loss': 6.660673141479492}
{'epoch': 8, 'batch': 55, 'loss': 6.72550106048584}
{'epoch': 8, 'batch': 56, 'loss': 6.682125091552734}
{'epoch': 8, 'batch': 57, 'loss': 6.696131706237793}
{'epoch': 8, 'batch': 58, 'loss': 6.596036911010742}
{'epoch': 8, 'batch': 59, 'loss': 6.694684028625488}
{'epoch': 8, 'batch': 60, 'loss': 6.561672210693359}
{'epoch': 8, 'batch': 61, 'loss': 6.809503078460693}
{'epoch': 8, 'batch': 62, 'loss': 6.748161315917969}
{'epoch': 8, 'batch': 63, 'loss': 6.70441198348999}

```

```
{'epoch': 8, 'batch': 64, 'loss': 6.770373821258545}
{'epoch': 8, 'batch': 65, 'loss': 6.64609432220459}
{'epoch': 8, 'batch': 66, 'loss': 6.70389986038208}
{'epoch': 8, 'batch': 67, 'loss': 6.475099086761475}
{'epoch': 8, 'batch': 68, 'loss': 6.70634126663208}
{'epoch': 8, 'batch': 69, 'loss': 6.413340091705322}
{'epoch': 8, 'batch': 70, 'loss': 6.866560459136963}
{'epoch': 8, 'batch': 71, 'loss': 6.762460708618164}
{'epoch': 8, 'batch': 72, 'loss': 6.708547115325928}
{'epoch': 8, 'batch': 73, 'loss': 6.701087474822998}
{'epoch': 8, 'batch': 74, 'loss': 6.678824424743652}
{'epoch': 8, 'batch': 75, 'loss': 6.873758792877197}
{'epoch': 8, 'batch': 76, 'loss': 6.674591541290283}
{'epoch': 8, 'batch': 77, 'loss': 6.924892425537109}
{'epoch': 8, 'batch': 78, 'loss': 6.991189479827881}
{'epoch': 8, 'batch': 79, 'loss': 6.277015209197998}
{'epoch': 8, 'batch': 80, 'loss': 6.535773277282715}
{'epoch': 8, 'batch': 81, 'loss': 6.786246299743652}
{'epoch': 8, 'batch': 82, 'loss': 6.691437721252441}
{'epoch': 8, 'batch': 83, 'loss': 6.835989952087402}
{'epoch': 8, 'batch': 84, 'loss': 6.655471324920654}
{'epoch': 9, 'batch': 0, 'loss': 6.636132717132568}
{'epoch': 9, 'batch': 1, 'loss': 6.541179656982422}
{'epoch': 9, 'batch': 2, 'loss': 6.561944484710693}
{'epoch': 9, 'batch': 3, 'loss': 6.744819641113281}
{'epoch': 9, 'batch': 4, 'loss': 6.668265342712402}
{'epoch': 9, 'batch': 5, 'loss': 6.686320781707764}
{'epoch': 9, 'batch': 6, 'loss': 7.097827911376953}
{'epoch': 9, 'batch': 7, 'loss': 6.969130992889404}
{'epoch': 9, 'batch': 8, 'loss': 6.832196235656738}
{'epoch': 9, 'batch': 9, 'loss': 6.782763957977295}
{'epoch': 9, 'batch': 10, 'loss': 6.784733295440674}
{'epoch': 9, 'batch': 11, 'loss': 6.614689350128174}
{'epoch': 9, 'batch': 12, 'loss': 6.779465675354004}
{'epoch': 9, 'batch': 13, 'loss': 6.895262718200684}
{'epoch': 9, 'batch': 14, 'loss': 6.51289176940918}
{'epoch': 9, 'batch': 15, 'loss': 6.582818984985352}
{'epoch': 9, 'batch': 16, 'loss': 6.409539222717285}
{'epoch': 9, 'batch': 17, 'loss': 6.5224127769470215}
{'epoch': 9, 'batch': 18, 'loss': 6.461262226104736}
{'epoch': 9, 'batch': 19, 'loss': 6.628330707550049}
{'epoch': 9, 'batch': 20, 'loss': 6.325477123260498}
{'epoch': 9, 'batch': 21, 'loss': 6.702356815338135}
{'epoch': 9, 'batch': 22, 'loss': 6.786255359649658}
{'epoch': 9, 'batch': 23, 'loss': 6.803525447845459}
{'epoch': 9, 'batch': 24, 'loss': 6.775402069091797}
{'epoch': 9, 'batch': 25, 'loss': 6.455970287322998}
{'epoch': 9, 'batch': 26, 'loss': 6.452945232391357}
{'epoch': 9, 'batch': 27, 'loss': 6.427579879760742}
{'epoch': 9, 'batch': 28, 'loss': 6.928501605987549}
{'epoch': 9, 'batch': 29, 'loss': 6.961627960205078}
{'epoch': 9, 'batch': 30, 'loss': 6.258502006530762}
```



```
{'epoch': 9, 'batch': 31, 'loss': 6.2084574699401855}
{'epoch': 9, 'batch': 32, 'loss': 6.3531951904296875}
{'epoch': 9, 'batch': 33, 'loss': 6.596236228942871}
{'epoch': 9, 'batch': 34, 'loss': 6.554070949554443}
{'epoch': 9, 'batch': 35, 'loss': 6.73640775680542}
{'epoch': 9, 'batch': 36, 'loss': 6.716216564178467}
{'epoch': 9, 'batch': 37, 'loss': 6.502857208251953}
{'epoch': 9, 'batch': 38, 'loss': 6.830229759216309}
{'epoch': 9, 'batch': 39, 'loss': 6.591766834259033}
{'epoch': 9, 'batch': 40, 'loss': 6.791189670562744}
{'epoch': 9, 'batch': 41, 'loss': 6.527127742767334}
{'epoch': 9, 'batch': 42, 'loss': 6.827763557434082}
{'epoch': 9, 'batch': 43, 'loss': 6.5242919921875}
{'epoch': 9, 'batch': 44, 'loss': 6.4289045333862305}
{'epoch': 9, 'batch': 45, 'loss': 6.497424125671387}
{'epoch': 9, 'batch': 46, 'loss': 6.7122697830200195}
{'epoch': 9, 'batch': 47, 'loss': 7.1044416427612305}
{'epoch': 9, 'batch': 48, 'loss': 6.371186256408691}
{'epoch': 9, 'batch': 49, 'loss': 6.6759161949157715}
{'epoch': 9, 'batch': 50, 'loss': 6.828804969787598}
{'epoch': 9, 'batch': 51, 'loss': 6.743141174316406}
{'epoch': 9, 'batch': 52, 'loss': 6.288776874542236}
{'epoch': 9, 'batch': 53, 'loss': 6.600268840789795}
{'epoch': 9, 'batch': 54, 'loss': 6.538402557373047}
{'epoch': 9, 'batch': 55, 'loss': 6.603604316711426}
{'epoch': 9, 'batch': 56, 'loss': 6.537614822387695}
{'epoch': 9, 'batch': 57, 'loss': 6.576301097869873}
{'epoch': 9, 'batch': 58, 'loss': 6.455899238586426}
{'epoch': 9, 'batch': 59, 'loss': 6.567931652069092}
{'epoch': 9, 'batch': 60, 'loss': 6.416321277618408}
{'epoch': 9, 'batch': 61, 'loss': 6.682270526885986}
{'epoch': 9, 'batch': 62, 'loss': 6.631190776824951}
{'epoch': 9, 'batch': 63, 'loss': 6.5684685707092285}
{'epoch': 9, 'batch': 64, 'loss': 6.660884857177734}
{'epoch': 9, 'batch': 65, 'loss': 6.520411014556885}
{'epoch': 9, 'batch': 66, 'loss': 6.565332889556885}
{'epoch': 9, 'batch': 67, 'loss': 6.329472064971924}
{'epoch': 9, 'batch': 68, 'loss': 6.576522350311279}
{'epoch': 9, 'batch': 69, 'loss': 6.283811569213867}
{'epoch': 9, 'batch': 70, 'loss': 6.758664608001709}
{'epoch': 9, 'batch': 71, 'loss': 6.637431621551514}
{'epoch': 9, 'batch': 72, 'loss': 6.572347640991211}
{'epoch': 9, 'batch': 73, 'loss': 6.56532096862793}
{'epoch': 9, 'batch': 74, 'loss': 6.567025184631348}
{'epoch': 9, 'batch': 75, 'loss': 6.747305870056152}
{'epoch': 9, 'batch': 76, 'loss': 6.547306060791016}
{'epoch': 9, 'batch': 77, 'loss': 6.775028705596924}
{'epoch': 9, 'batch': 78, 'loss': 6.8587446212768555}
{'epoch': 9, 'batch': 79, 'loss': 6.136785507202148}
{'epoch': 9, 'batch': 80, 'loss': 6.381716728210449}
{'epoch': 9, 'batch': 81, 'loss': 6.670954704284668}
{'epoch': 9, 'batch': 82, 'loss': 6.5608344078063965}
```

```

{'epoch': 9, 'batch': 83, 'loss': 6.686018943786621}
{'epoch': 9, 'batch': 84, 'loss': 6.528292655944824}
{'epoch': 0, 'batch': 0, 'loss': 8.860552787780762}
{'epoch': 0, 'batch': 1, 'loss': 8.852498054504395}
{'epoch': 0, 'batch': 2, 'loss': 8.832168579101562}
{'epoch': 0, 'batch': 3, 'loss': 8.83128547668457}
{'epoch': 0, 'batch': 4, 'loss': 8.81869888305664}
{'epoch': 0, 'batch': 5, 'loss': 8.803751945495605}
{'epoch': 0, 'batch': 6, 'loss': 8.797861099243164}
{'epoch': 0, 'batch': 7, 'loss': 8.804967880249023}
{'epoch': 0, 'batch': 8, 'loss': 8.767560005187988}
{'epoch': 0, 'batch': 9, 'loss': 8.734858512878418}
{'epoch': 0, 'batch': 10, 'loss': 8.712571144104004}
{'epoch': 0, 'batch': 11, 'loss': 8.679972648620605}
{'epoch': 0, 'batch': 12, 'loss': 8.663021087646484}
{'epoch': 0, 'batch': 13, 'loss': 8.645346641540527}
{'epoch': 0, 'batch': 14, 'loss': 8.56114673614502}
{'epoch': 0, 'batch': 15, 'loss': 8.512118339538574}
{'epoch': 0, 'batch': 16, 'loss': 8.42909049987793}
{'epoch': 0, 'batch': 17, 'loss': 8.450431823730469}

{'epoch': 0, 'batch': 18, 'loss': 8.342448234558105}
{'epoch': 0, 'batch': 19, 'loss': 8.309195518493652}
{'epoch': 0, 'batch': 20, 'loss': 8.207074165344238}
{'epoch': 0, 'batch': 21, 'loss': 8.365370750427246}
{'epoch': 0, 'batch': 22, 'loss': 8.271125793457031}
{'epoch': 0, 'batch': 23, 'loss': 8.255894660949707}
{'epoch': 0, 'batch': 24, 'loss': 8.197807312011719}
{'epoch': 0, 'batch': 25, 'loss': 8.061765670776367}
{'epoch': 0, 'batch': 26, 'loss': 7.953728199005127}
{'epoch': 0, 'batch': 27, 'loss': 8.084486961364746}
{'epoch': 0, 'batch': 28, 'loss': 8.136512756347656}
{'epoch': 0, 'batch': 29, 'loss': 8.140748977661133}
{'epoch': 0, 'batch': 30, 'loss': 7.787703037261963}
{'epoch': 0, 'batch': 31, 'loss': 7.804695129394531}
{'epoch': 0, 'batch': 32, 'loss': 7.748716831207275}
{'epoch': 0, 'batch': 33, 'loss': 7.8146772384643555}
{'epoch': 0, 'batch': 34, 'loss': 7.79021692276001}
{'epoch': 0, 'batch': 35, 'loss': 7.83088493347168}
{'epoch': 0, 'batch': 36, 'loss': 7.827762603759766}
{'epoch': 0, 'batch': 37, 'loss': 7.638157367706299}
{'epoch': 0, 'batch': 38, 'loss': 7.8679375648498535}
{'epoch': 0, 'batch': 39, 'loss': 7.661623477935791}
{'epoch': 0, 'batch': 40, 'loss': 7.82966947555542}
{'epoch': 0, 'batch': 41, 'loss': 7.691257476806641}
{'epoch': 0, 'batch': 42, 'loss': 7.742828369140625}
{'epoch': 0, 'batch': 43, 'loss': 7.592818737030029}
{'epoch': 0, 'batch': 44, 'loss': 7.520134449005127}
{'epoch': 0, 'batch': 45, 'loss': 7.564909934997559}
{'epoch': 0, 'batch': 46, 'loss': 7.700420379638672}
{'epoch': 0, 'batch': 47, 'loss': 7.916493892669678}
{'epoch': 0, 'batch': 48, 'loss': 7.4394025802612305}

```

```

{'epoch': 0, 'batch': 49, 'loss': 7.611350059509277}
{'epoch': 0, 'batch': 50, 'loss': 7.780807018280029}
{'epoch': 0, 'batch': 51, 'loss': 7.649563789367676}
{'epoch': 0, 'batch': 52, 'loss': 7.236854076385498}
{'epoch': 0, 'batch': 53, 'loss': 7.451962471008301}
{'epoch': 0, 'batch': 54, 'loss': 7.358821392059326}
{'epoch': 0, 'batch': 55, 'loss': 7.399264335632324}
{'epoch': 0, 'batch': 56, 'loss': 7.511108875274658}
{'epoch': 0, 'batch': 57, 'loss': 7.475841045379639}
{'epoch': 0, 'batch': 58, 'loss': 7.407461643218994}
{'epoch': 0, 'batch': 59, 'loss': 7.35495662689209}
{'epoch': 0, 'batch': 60, 'loss': 7.343249320983887}
{'epoch': 0, 'batch': 61, 'loss': 7.546494960784912}
{'epoch': 0, 'batch': 62, 'loss': 7.434908866882324}
{'epoch': 0, 'batch': 63, 'loss': 7.34782600402832}
{'epoch': 0, 'batch': 64, 'loss': 7.488951206207275}
{'epoch': 0, 'batch': 65, 'loss': 7.377335548400879}
{'epoch': 0, 'batch': 66, 'loss': 7.400924205780029}
{'epoch': 0, 'batch': 67, 'loss': 7.133969783782959}
{'epoch': 0, 'batch': 68, 'loss': 7.3921732902526855}
{'epoch': 0, 'batch': 69, 'loss': 7.0601935386657715}
{'epoch': 0, 'batch': 70, 'loss': 7.527942180633545}
{'epoch': 0, 'batch': 71, 'loss': 7.473336219787598}
{'epoch': 0, 'batch': 72, 'loss': 7.386047840118408}
{'epoch': 0, 'batch': 73, 'loss': 7.468902111053467}
{'epoch': 0, 'batch': 74, 'loss': 7.422640323638916}
{'epoch': 0, 'batch': 75, 'loss': 7.635994911193848}
{'epoch': 0, 'batch': 76, 'loss': 7.381930828094482}
{'epoch': 0, 'batch': 77, 'loss': 7.617275238037109}
{'epoch': 0, 'batch': 78, 'loss': 7.801206588745117}
{'epoch': 0, 'batch': 79, 'loss': 6.9531402587890625}
{'epoch': 0, 'batch': 80, 'loss': 7.302103042602539}
{'epoch': 0, 'batch': 81, 'loss': 7.494781017303467}
{'epoch': 0, 'batch': 82, 'loss': 7.495214939117432}
{'epoch': 0, 'batch': 83, 'loss': 7.527824878692627}
{'epoch': 0, 'batch': 84, 'loss': 7.346955299377441}
{'epoch': 1, 'batch': 0, 'loss': 7.037292957305908}
{'epoch': 1, 'batch': 1, 'loss': 7.044384479522705}
{'epoch': 1, 'batch': 2, 'loss': 7.002236843109131}
{'epoch': 1, 'batch': 3, 'loss': 7.202139377593994}
{'epoch': 1, 'batch': 4, 'loss': 7.178179740905762}
{'epoch': 1, 'batch': 5, 'loss': 7.177152633666992}
{'epoch': 1, 'batch': 6, 'loss': 7.494049072265625}
{'epoch': 1, 'batch': 7, 'loss': 7.357102394104004}
{'epoch': 1, 'batch': 8, 'loss': 7.265827655792236}
{'epoch': 1, 'batch': 9, 'loss': 7.140291690826416}
{'epoch': 1, 'batch': 10, 'loss': 7.105812072753906}
{'epoch': 1, 'batch': 11, 'loss': 7.024812698364258}
{'epoch': 1, 'batch': 12, 'loss': 7.1263251304626465}
{'epoch': 1, 'batch': 13, 'loss': 7.193243980407715}
{'epoch': 1, 'batch': 14, 'loss': 6.874876499176025}
{'epoch': 1, 'batch': 15, 'loss': 6.919043064117432}

```

```
{'epoch': 1, 'batch': 16, 'loss': 6.74269437789917}
{'epoch': 1, 'batch': 17, 'loss': 6.90880012512207}
{'epoch': 1, 'batch': 18, 'loss': 6.8149895668029785}
{'epoch': 1, 'batch': 19, 'loss': 6.9356279373168945}
{'epoch': 1, 'batch': 20, 'loss': 6.674872875213623}
{'epoch': 1, 'batch': 21, 'loss': 7.034701347351074}
{'epoch': 1, 'batch': 22, 'loss': 7.000185012817383}
{'epoch': 1, 'batch': 23, 'loss': 7.089348316192627}
{'epoch': 1, 'batch': 24, 'loss': 7.048788547515869}
{'epoch': 1, 'batch': 25, 'loss': 6.792750835418701}
{'epoch': 1, 'batch': 26, 'loss': 6.78664493560791}
{'epoch': 1, 'batch': 27, 'loss': 6.830132484436035}
{'epoch': 1, 'batch': 28, 'loss': 7.18214750289917}
{'epoch': 1, 'batch': 29, 'loss': 7.259018421173096}
{'epoch': 1, 'batch': 30, 'loss': 6.691458225250244}
{'epoch': 1, 'batch': 31, 'loss': 6.670429229736328}
{'epoch': 1, 'batch': 32, 'loss': 6.757200717926025}
{'epoch': 1, 'batch': 33, 'loss': 6.959710597991943}
{'epoch': 1, 'batch': 34, 'loss': 6.925117015838623}
{'epoch': 1, 'batch': 35, 'loss': 7.127925872802734}
{'epoch': 1, 'batch': 36, 'loss': 7.107350826263428}
{'epoch': 1, 'batch': 37, 'loss': 6.868627548217773}
{'epoch': 1, 'batch': 38, 'loss': 7.2020368576049805}
{'epoch': 1, 'batch': 39, 'loss': 7.0223188400268555}
{'epoch': 1, 'batch': 40, 'loss': 7.2480316162109375}
{'epoch': 1, 'batch': 41, 'loss': 7.019543170928955}
{'epoch': 1, 'batch': 42, 'loss': 7.223648548126221}
{'epoch': 1, 'batch': 43, 'loss': 6.980172157287598}
{'epoch': 1, 'batch': 44, 'loss': 6.905361175537109}
{'epoch': 1, 'batch': 45, 'loss': 7.015541076660156}
{'epoch': 1, 'batch': 46, 'loss': 7.242802619934082}
{'epoch': 1, 'batch': 47, 'loss': 7.524777889251709}
{'epoch': 1, 'batch': 48, 'loss': 6.973942756652832}
{'epoch': 1, 'batch': 49, 'loss': 7.190494060516357}
{'epoch': 1, 'batch': 50, 'loss': 7.402065753936768}
{'epoch': 1, 'batch': 51, 'loss': 7.243027210235596}
{'epoch': 1, 'batch': 52, 'loss': 6.840960502624512}
{'epoch': 1, 'batch': 53, 'loss': 7.121391296386719}
{'epoch': 1, 'batch': 54, 'loss': 7.037817478179932}
{'epoch': 1, 'batch': 55, 'loss': 7.091063499450684}
{'epoch': 1, 'batch': 56, 'loss': 7.145209312438965}
{'epoch': 1, 'batch': 57, 'loss': 7.153209209442139}
{'epoch': 1, 'batch': 58, 'loss': 7.090495586395264}
{'epoch': 1, 'batch': 59, 'loss': 7.108044624328613}
{'epoch': 1, 'batch': 60, 'loss': 7.058271408081055}
{'epoch': 1, 'batch': 61, 'loss': 7.241624355316162}
{'epoch': 1, 'batch': 62, 'loss': 7.1934428215026855}
{'epoch': 1, 'batch': 63, 'loss': 7.119897365570068}
{'epoch': 1, 'batch': 64, 'loss': 7.269999027252197}
{'epoch': 1, 'batch': 65, 'loss': 7.166962146759033}
{'epoch': 1, 'batch': 66, 'loss': 7.15887975692749}
{'epoch': 1, 'batch': 67, 'loss': 6.932081699371338}
```

```

{'epoch': 1, 'batch': 68, 'loss': 7.187394618988037}
{'epoch': 1, 'batch': 69, 'loss': 6.896205902099609}
{'epoch': 1, 'batch': 70, 'loss': 7.33794641494751}
{'epoch': 1, 'batch': 71, 'loss': 7.272668361663818}
{'epoch': 1, 'batch': 72, 'loss': 7.1901960372924805}
{'epoch': 1, 'batch': 73, 'loss': 7.278611660003662}
{'epoch': 1, 'batch': 74, 'loss': 7.244033336639404}
{'epoch': 1, 'batch': 75, 'loss': 7.425136089324951}
{'epoch': 1, 'batch': 76, 'loss': 7.200184345245361}
{'epoch': 1, 'batch': 77, 'loss': 7.443597316741943}
{'epoch': 1, 'batch': 78, 'loss': 7.606481075286865}
{'epoch': 1, 'batch': 79, 'loss': 6.818599224090576}
{'epoch': 1, 'batch': 80, 'loss': 7.143847942352295}
{'epoch': 1, 'batch': 81, 'loss': 7.312492370605469}
{'epoch': 1, 'batch': 82, 'loss': 7.3150315284729}
{'epoch': 1, 'batch': 83, 'loss': 7.3551344871521}
{'epoch': 1, 'batch': 84, 'loss': 7.167781352996826}
{'epoch': 2, 'batch': 0, 'loss': 7.017672061920166}
{'epoch': 2, 'batch': 1, 'loss': 7.0191264152526855}
{'epoch': 2, 'batch': 2, 'loss': 6.975543022155762}

{'epoch': 2, 'batch': 3, 'loss': 7.158490180969238}
{'epoch': 2, 'batch': 4, 'loss': 7.130925178527832}
{'epoch': 2, 'batch': 5, 'loss': 7.14926290512085}
{'epoch': 2, 'batch': 6, 'loss': 7.452532768249512}
{'epoch': 2, 'batch': 7, 'loss': 7.314090728759766}
{'epoch': 2, 'batch': 8, 'loss': 7.236550807952881}
{'epoch': 2, 'batch': 9, 'loss': 7.127132892608643}
{'epoch': 2, 'batch': 10, 'loss': 7.094050407409668}
{'epoch': 2, 'batch': 11, 'loss': 7.018864154815674}
{'epoch': 2, 'batch': 12, 'loss': 7.12756872177124}
{'epoch': 2, 'batch': 13, 'loss': 7.205862045288086}
{'epoch': 2, 'batch': 14, 'loss': 6.890495777130127}
{'epoch': 2, 'batch': 15, 'loss': 6.947969913482666}
{'epoch': 2, 'batch': 16, 'loss': 6.761634826660156}
{'epoch': 2, 'batch': 17, 'loss': 6.9480509757995605}
{'epoch': 2, 'batch': 18, 'loss': 6.845318794250488}
{'epoch': 2, 'batch': 19, 'loss': 6.974156379699707}
{'epoch': 2, 'batch': 20, 'loss': 6.7246012687683105}
{'epoch': 2, 'batch': 21, 'loss': 7.07326602935791}
{'epoch': 2, 'batch': 22, 'loss': 7.0460405349731445}
{'epoch': 2, 'batch': 23, 'loss': 7.121730804443359}
{'epoch': 2, 'batch': 24, 'loss': 7.095737934112549}
{'epoch': 2, 'batch': 25, 'loss': 6.829076766967773}
{'epoch': 2, 'batch': 26, 'loss': 6.829367637634277}
{'epoch': 2, 'batch': 27, 'loss': 6.850353717803955}
{'epoch': 2, 'batch': 28, 'loss': 7.212668418884277}
{'epoch': 2, 'batch': 29, 'loss': 7.290887832641602}
{'epoch': 2, 'batch': 30, 'loss': 6.70413875579834}
{'epoch': 2, 'batch': 31, 'loss': 6.670280933380127}
{'epoch': 2, 'batch': 32, 'loss': 6.792666912078857}
{'epoch': 2, 'batch': 33, 'loss': 6.968653202056885}

```

```

{'epoch': 2, 'batch': 34, 'loss': 6.92534065246582}
{'epoch': 2, 'batch': 35, 'loss': 7.1604180335998535}
{'epoch': 2, 'batch': 36, 'loss': 7.117276191711426}
{'epoch': 2, 'batch': 37, 'loss': 6.874745845794678}
{'epoch': 2, 'batch': 38, 'loss': 7.210117340087891}
{'epoch': 2, 'batch': 39, 'loss': 7.024953842163086}
{'epoch': 2, 'batch': 40, 'loss': 7.2402448654174805}
{'epoch': 2, 'batch': 41, 'loss': 7.011125087738037}
{'epoch': 2, 'batch': 42, 'loss': 7.226465702056885}
{'epoch': 2, 'batch': 43, 'loss': 6.962796688079834}
{'epoch': 2, 'batch': 44, 'loss': 6.8758225440979}
{'epoch': 2, 'batch': 45, 'loss': 6.97646951675415}
{'epoch': 2, 'batch': 46, 'loss': 7.207959175109863}
{'epoch': 2, 'batch': 47, 'loss': 7.491384506225586}
{'epoch': 2, 'batch': 48, 'loss': 6.940199375152588}
{'epoch': 2, 'batch': 49, 'loss': 7.157901287078857}
{'epoch': 2, 'batch': 50, 'loss': 7.358135223388672}
{'epoch': 2, 'batch': 51, 'loss': 7.193195343017578}
{'epoch': 2, 'batch': 52, 'loss': 6.814724922180176}
{'epoch': 2, 'batch': 53, 'loss': 7.082479953765869}
{'epoch': 2, 'batch': 54, 'loss': 6.997725963592529}
{'epoch': 2, 'batch': 55, 'loss': 7.041819095611572}
{'epoch': 2, 'batch': 56, 'loss': 7.082945823669434}
{'epoch': 2, 'batch': 57, 'loss': 7.093936443328857}
{'epoch': 2, 'batch': 58, 'loss': 7.027021408081055}
{'epoch': 2, 'batch': 59, 'loss': 7.053203582763672}
{'epoch': 2, 'batch': 60, 'loss': 6.999619007110596}
{'epoch': 2, 'batch': 61, 'loss': 7.174717426300049}
{'epoch': 2, 'batch': 62, 'loss': 7.128337383270264}
{'epoch': 2, 'batch': 63, 'loss': 7.065792083740234}
{'epoch': 2, 'batch': 64, 'loss': 7.204863548278809}
{'epoch': 2, 'batch': 65, 'loss': 7.099874973297119}
{'epoch': 2, 'batch': 66, 'loss': 7.090136528015137}
{'epoch': 2, 'batch': 67, 'loss': 6.880684852600098}
{'epoch': 2, 'batch': 68, 'loss': 7.117516040802002}
{'epoch': 2, 'batch': 69, 'loss': 6.845855712890625}
{'epoch': 2, 'batch': 70, 'loss': 7.266428470611572}
{'epoch': 2, 'batch': 71, 'loss': 7.202824115753174}
{'epoch': 2, 'batch': 72, 'loss': 7.124032020568848}
{'epoch': 2, 'batch': 73, 'loss': 7.200500011444092}
{'epoch': 2, 'batch': 74, 'loss': 7.1666083335876465}
{'epoch': 2, 'batch': 75, 'loss': 7.3419389724731445}
{'epoch': 2, 'batch': 76, 'loss': 7.131744861602783}
{'epoch': 2, 'batch': 77, 'loss': 7.3705902099609375}
{'epoch': 2, 'batch': 78, 'loss': 7.513575077056885}
{'epoch': 2, 'batch': 79, 'loss': 6.760826587677002}
{'epoch': 2, 'batch': 80, 'loss': 7.074705600738525}
{'epoch': 2, 'batch': 81, 'loss': 7.234135627746582}
{'epoch': 2, 'batch': 82, 'loss': 7.23007869720459}
{'epoch': 2, 'batch': 83, 'loss': 7.282066345214844}
{'epoch': 2, 'batch': 84, 'loss': 7.09593391418457}
{'epoch': 3, 'batch': 0, 'loss': 7.019181728363037}

```

```
{'epoch': 3, 'batch': 1, 'loss': 7.003759384155273}
{'epoch': 3, 'batch': 2, 'loss': 6.965731620788574}
{'epoch': 3, 'batch': 3, 'loss': 7.150527000427246}
{'epoch': 3, 'batch': 4, 'loss': 7.123973846435547}
{'epoch': 3, 'batch': 5, 'loss': 7.141732215881348}
{'epoch': 3, 'batch': 6, 'loss': 7.443075180053711}
{'epoch': 3, 'batch': 7, 'loss': 7.303194999694824}
{'epoch': 3, 'batch': 8, 'loss': 7.237168788909912}
{'epoch': 3, 'batch': 9, 'loss': 7.126800537109375}
{'epoch': 3, 'batch': 10, 'loss': 7.100008487701416}
{'epoch': 3, 'batch': 11, 'loss': 7.024070739746094}
{'epoch': 3, 'batch': 12, 'loss': 7.134570598602295}
{'epoch': 3, 'batch': 13, 'loss': 7.220192909240723}
{'epoch': 3, 'batch': 14, 'loss': 6.906006813049316}
{'epoch': 3, 'batch': 15, 'loss': 6.96760892868042}
{'epoch': 3, 'batch': 16, 'loss': 6.7838640213012695}
{'epoch': 3, 'batch': 17, 'loss': 6.977429389953613}
{'epoch': 3, 'batch': 18, 'loss': 6.868673801422119}
{'epoch': 3, 'batch': 19, 'loss': 7.008983612060547}
{'epoch': 3, 'batch': 20, 'loss': 6.7576799392700195}
{'epoch': 3, 'batch': 21, 'loss': 7.104540824890137}
{'epoch': 3, 'batch': 22, 'loss': 7.075560092926025}
{'epoch': 3, 'batch': 23, 'loss': 7.146829128265381}
{'epoch': 3, 'batch': 24, 'loss': 7.128387928009033}
{'epoch': 3, 'batch': 25, 'loss': 6.861774921417236}
{'epoch': 3, 'batch': 26, 'loss': 6.857357501983643}
{'epoch': 3, 'batch': 27, 'loss': 6.872920036315918}
{'epoch': 3, 'batch': 28, 'loss': 7.234670162200928}
{'epoch': 3, 'batch': 29, 'loss': 7.321801662445068}
{'epoch': 3, 'batch': 30, 'loss': 6.724027156829834}
{'epoch': 3, 'batch': 31, 'loss': 6.6893205642700195}
{'epoch': 3, 'batch': 32, 'loss': 6.818894386291504}
{'epoch': 3, 'batch': 33, 'loss': 6.983776569366455}
{'epoch': 3, 'batch': 34, 'loss': 6.9402971267700195}
{'epoch': 3, 'batch': 35, 'loss': 7.18757438659668}
{'epoch': 3, 'batch': 36, 'loss': 7.127068519592285}
{'epoch': 3, 'batch': 37, 'loss': 6.888527870178223}
{'epoch': 3, 'batch': 38, 'loss': 7.224968910217285}
{'epoch': 3, 'batch': 39, 'loss': 7.036869525909424}
{'epoch': 3, 'batch': 40, 'loss': 7.247050762176514}
{'epoch': 3, 'batch': 41, 'loss': 7.009768009185791}
{'epoch': 3, 'batch': 42, 'loss': 7.234195709228516}
{'epoch': 3, 'batch': 43, 'loss': 6.964705944061279}
{'epoch': 3, 'batch': 44, 'loss': 6.867197513580322}
{'epoch': 3, 'batch': 45, 'loss': 6.963502883911133}
{'epoch': 3, 'batch': 46, 'loss': 7.195350646972656}
{'epoch': 3, 'batch': 47, 'loss': 7.482154369354248}
{'epoch': 3, 'batch': 48, 'loss': 6.927862644195557}
{'epoch': 3, 'batch': 49, 'loss': 7.148918628692627}
{'epoch': 3, 'batch': 50, 'loss': 7.3365254402160645}
{'epoch': 3, 'batch': 51, 'loss': 7.170896053314209}
{'epoch': 3, 'batch': 52, 'loss': 6.801083087921143}
```

```

{'epoch': 3, 'batch': 53, 'loss': 7.068000793457031}
{'epoch': 3, 'batch': 54, 'loss': 6.982120990753174}
{'epoch': 3, 'batch': 55, 'loss': 7.01951265335083}
{'epoch': 3, 'batch': 56, 'loss': 7.057806968688965}
{'epoch': 3, 'batch': 57, 'loss': 7.064979076385498}
{'epoch': 3, 'batch': 58, 'loss': 6.997725963592529}
{'epoch': 3, 'batch': 59, 'loss': 7.031340599060059}
{'epoch': 3, 'batch': 60, 'loss': 6.969738006591797}
{'epoch': 3, 'batch': 61, 'loss': 7.1429972648620605}
{'epoch': 3, 'batch': 62, 'loss': 7.093682289123535}
{'epoch': 3, 'batch': 63, 'loss': 7.041738986968994}
{'epoch': 3, 'batch': 64, 'loss': 7.169711589813232}
{'epoch': 3, 'batch': 65, 'loss': 7.0606465339660645}
{'epoch': 3, 'batch': 66, 'loss': 7.051730155944824}
{'epoch': 3, 'batch': 67, 'loss': 6.853971481323242}
{'epoch': 3, 'batch': 68, 'loss': 7.079436302185059}
{'epoch': 3, 'batch': 69, 'loss': 6.817435264587402}
{'epoch': 3, 'batch': 70, 'loss': 7.227866172790527}
{'epoch': 3, 'batch': 71, 'loss': 7.166614532470703}
{'epoch': 3, 'batch': 72, 'loss': 7.089295387268066}

{'epoch': 3, 'batch': 73, 'loss': 7.1619110107421875}
{'epoch': 3, 'batch': 74, 'loss': 7.118438243865967}
{'epoch': 3, 'batch': 75, 'loss': 7.294126987457275}
{'epoch': 3, 'batch': 76, 'loss': 7.091856956481934}
{'epoch': 3, 'batch': 77, 'loss': 7.326541423797607}
{'epoch': 3, 'batch': 78, 'loss': 7.457216739654541}
{'epoch': 3, 'batch': 79, 'loss': 6.723256587982178}
{'epoch': 3, 'batch': 80, 'loss': 7.033809661865234}
{'epoch': 3, 'batch': 81, 'loss': 7.192988395690918}
{'epoch': 3, 'batch': 82, 'loss': 7.181652069091797}
{'epoch': 3, 'batch': 83, 'loss': 7.238759994506836}
{'epoch': 3, 'batch': 84, 'loss': 7.052827835083008}
{'epoch': 4, 'batch': 0, 'loss': 7.013620853424072}
{'epoch': 4, 'batch': 1, 'loss': 7.002758026123047}
{'epoch': 4, 'batch': 2, 'loss': 6.9568400382995605}
{'epoch': 4, 'batch': 3, 'loss': 7.143134117126465}
{'epoch': 4, 'batch': 4, 'loss': 7.123371124267578}
{'epoch': 4, 'batch': 5, 'loss': 7.136772155761719}
{'epoch': 4, 'batch': 6, 'loss': 7.445696830749512}
{'epoch': 4, 'batch': 7, 'loss': 7.306519508361816}
{'epoch': 4, 'batch': 8, 'loss': 7.238793849945068}
{'epoch': 4, 'batch': 9, 'loss': 7.131211757659912}
{'epoch': 4, 'batch': 10, 'loss': 7.109096050262451}
{'epoch': 4, 'batch': 11, 'loss': 7.035682201385498}
{'epoch': 4, 'batch': 12, 'loss': 7.143945693969727}
{'epoch': 4, 'batch': 13, 'loss': 7.234742164611816}
{'epoch': 4, 'batch': 14, 'loss': 6.916751861572266}
{'epoch': 4, 'batch': 15, 'loss': 6.982495307922363}
{'epoch': 4, 'batch': 16, 'loss': 6.7936930656433105}
{'epoch': 4, 'batch': 17, 'loss': 6.990914821624756}
{'epoch': 4, 'batch': 18, 'loss': 6.884592533111572}

```



```
{'epoch': 4, 'batch': 19, 'loss': 7.024362087249756}
{'epoch': 4, 'batch': 20, 'loss': 6.768463134765625}
{'epoch': 4, 'batch': 21, 'loss': 7.116990089416504}
{'epoch': 4, 'batch': 22, 'loss': 7.0891337394714355}
{'epoch': 4, 'batch': 23, 'loss': 7.159036636352539}
{'epoch': 4, 'batch': 24, 'loss': 7.143810272216797}
{'epoch': 4, 'batch': 25, 'loss': 6.875053405761719}
{'epoch': 4, 'batch': 26, 'loss': 6.8672614097595215}
{'epoch': 4, 'batch': 27, 'loss': 6.8834452629089355}
{'epoch': 4, 'batch': 28, 'loss': 7.246176719665527}
{'epoch': 4, 'batch': 29, 'loss': 7.330930233001709}
{'epoch': 4, 'batch': 30, 'loss': 6.732038497924805}
{'epoch': 4, 'batch': 31, 'loss': 6.698288917541504}
{'epoch': 4, 'batch': 32, 'loss': 6.836158752441406}
{'epoch': 4, 'batch': 33, 'loss': 6.992435932159424}
{'epoch': 4, 'batch': 34, 'loss': 6.952494144439697}
{'epoch': 4, 'batch': 35, 'loss': 7.206310749053955}
{'epoch': 4, 'batch': 36, 'loss': 7.1381611824035645}
{'epoch': 4, 'batch': 37, 'loss': 6.899433612823486}
{'epoch': 4, 'batch': 38, 'loss': 7.231170177459717}
{'epoch': 4, 'batch': 39, 'loss': 7.047966480255127}
{'epoch': 4, 'batch': 40, 'loss': 7.25122594833374}
{'epoch': 4, 'batch': 41, 'loss': 7.0124430656433105}
{'epoch': 4, 'batch': 42, 'loss': 7.239596843719482}
{'epoch': 4, 'batch': 43, 'loss': 6.969728469848633}
{'epoch': 4, 'batch': 44, 'loss': 6.867764472961426}
{'epoch': 4, 'batch': 45, 'loss': 6.95781946182251}
{'epoch': 4, 'batch': 46, 'loss': 7.1908111572265625}
{'epoch': 4, 'batch': 47, 'loss': 7.479528903961182}
{'epoch': 4, 'batch': 48, 'loss': 6.929010391235352}
{'epoch': 4, 'batch': 49, 'loss': 7.14302921295166}
{'epoch': 4, 'batch': 50, 'loss': 7.327178955078125}
{'epoch': 4, 'batch': 51, 'loss': 7.165289878845215}
{'epoch': 4, 'batch': 52, 'loss': 6.801697254180908}
{'epoch': 4, 'batch': 53, 'loss': 7.065065860748291}
{'epoch': 4, 'batch': 54, 'loss': 6.979016304016113}
{'epoch': 4, 'batch': 55, 'loss': 7.009880542755127}
{'epoch': 4, 'batch': 56, 'loss': 7.0456695556640625}
{'epoch': 4, 'batch': 57, 'loss': 7.048825263977051}
{'epoch': 4, 'batch': 58, 'loss': 6.98581600189209}
{'epoch': 4, 'batch': 59, 'loss': 7.022352695465088}
{'epoch': 4, 'batch': 60, 'loss': 6.957973480224609}
{'epoch': 4, 'batch': 61, 'loss': 7.128018856048584}
{'epoch': 4, 'batch': 62, 'loss': 7.077142238616943}
{'epoch': 4, 'batch': 63, 'loss': 7.029356002807617}
{'epoch': 4, 'batch': 64, 'loss': 7.146331310272217}
{'epoch': 4, 'batch': 65, 'loss': 7.040713787078857}
{'epoch': 4, 'batch': 66, 'loss': 7.030901908874512}
{'epoch': 4, 'batch': 67, 'loss': 6.8429083824157715}
{'epoch': 4, 'batch': 68, 'loss': 7.063462257385254}
{'epoch': 4, 'batch': 69, 'loss': 6.8094987869262695}
{'epoch': 4, 'batch': 70, 'loss': 7.210659980773926}
```

```

{'epoch': 4, 'batch': 71, 'loss': 7.145308494567871}
{'epoch': 4, 'batch': 72, 'loss': 7.069229602813721}
{'epoch': 4, 'batch': 73, 'loss': 7.138989448547363}
{'epoch': 4, 'batch': 74, 'loss': 7.095972537994385}
{'epoch': 4, 'batch': 75, 'loss': 7.2644758224487305}
{'epoch': 4, 'batch': 76, 'loss': 7.067562103271484}
{'epoch': 4, 'batch': 77, 'loss': 7.300339221954346}
{'epoch': 4, 'batch': 78, 'loss': 7.426751613616943}
{'epoch': 4, 'batch': 79, 'loss': 6.702877998352051}
{'epoch': 4, 'batch': 80, 'loss': 7.007240295410156}
{'epoch': 4, 'batch': 81, 'loss': 7.168375492095947}
{'epoch': 4, 'batch': 82, 'loss': 7.149726390838623}
{'epoch': 4, 'batch': 83, 'loss': 7.210679531097412}
{'epoch': 4, 'batch': 84, 'loss': 7.0275068283081055}
{'epoch': 5, 'batch': 0, 'loss': 7.012903690338135}
{'epoch': 5, 'batch': 1, 'loss': 7.002707481384277}
{'epoch': 5, 'batch': 2, 'loss': 6.953457355499268}
{'epoch': 5, 'batch': 3, 'loss': 7.138827800750732}
{'epoch': 5, 'batch': 4, 'loss': 7.1186113357543945}
{'epoch': 5, 'batch': 5, 'loss': 7.1352033615112305}
{'epoch': 5, 'batch': 6, 'loss': 7.4475226402282715}
{'epoch': 5, 'batch': 7, 'loss': 7.310439586639404}
{'epoch': 5, 'batch': 8, 'loss': 7.239623546600342}
{'epoch': 5, 'batch': 9, 'loss': 7.13550329208374}
{'epoch': 5, 'batch': 10, 'loss': 7.113131523132324}
{'epoch': 5, 'batch': 11, 'loss': 7.042450428009033}
{'epoch': 5, 'batch': 12, 'loss': 7.149295806884766}
{'epoch': 5, 'batch': 13, 'loss': 7.238950252532959}
{'epoch': 5, 'batch': 14, 'loss': 6.922114372253418}
{'epoch': 5, 'batch': 15, 'loss': 6.9918317794799805}
{'epoch': 5, 'batch': 16, 'loss': 6.799140930175781}
{'epoch': 5, 'batch': 17, 'loss': 6.999319076538086}
{'epoch': 5, 'batch': 18, 'loss': 6.8932600021362305}
{'epoch': 5, 'batch': 19, 'loss': 7.034862041473389}
{'epoch': 5, 'batch': 20, 'loss': 6.777935028076172}
{'epoch': 5, 'batch': 21, 'loss': 7.126645565032959}
{'epoch': 5, 'batch': 22, 'loss': 7.097570419311523}
{'epoch': 5, 'batch': 23, 'loss': 7.166125297546387}
{'epoch': 5, 'batch': 24, 'loss': 7.155187129974365}
{'epoch': 5, 'batch': 25, 'loss': 6.883753299713135}
{'epoch': 5, 'batch': 26, 'loss': 6.875346660614014}
{'epoch': 5, 'batch': 27, 'loss': 6.893163681030273}
{'epoch': 5, 'batch': 28, 'loss': 7.256897926330566}
{'epoch': 5, 'batch': 29, 'loss': 7.3419084548950195}
{'epoch': 5, 'batch': 30, 'loss': 6.733654975891113}
{'epoch': 5, 'batch': 31, 'loss': 6.701277732849121}
{'epoch': 5, 'batch': 32, 'loss': 6.844067096710205}
{'epoch': 5, 'batch': 33, 'loss': 6.999186992645264}
{'epoch': 5, 'batch': 34, 'loss': 6.959022045135498}
{'epoch': 5, 'batch': 35, 'loss': 7.216762065887451}
{'epoch': 5, 'batch': 36, 'loss': 7.145208358764648}
{'epoch': 5, 'batch': 37, 'loss': 6.903993606567383}

```

```

{'epoch': 5, 'batch': 38, 'loss': 7.238295078277588}
{'epoch': 5, 'batch': 39, 'loss': 7.0481486320495605}
{'epoch': 5, 'batch': 40, 'loss': 7.258459568023682}
{'epoch': 5, 'batch': 41, 'loss': 7.016725063323975}
{'epoch': 5, 'batch': 42, 'loss': 7.245439529418945}
{'epoch': 5, 'batch': 43, 'loss': 6.971147060394287}
{'epoch': 5, 'batch': 44, 'loss': 6.867923736572266}
{'epoch': 5, 'batch': 45, 'loss': 6.956146240234375}
{'epoch': 5, 'batch': 46, 'loss': 7.192079544067383}
{'epoch': 5, 'batch': 47, 'loss': 7.477292537689209}
{'epoch': 5, 'batch': 48, 'loss': 6.929300308227539}
{'epoch': 5, 'batch': 49, 'loss': 7.14153528213501}
{'epoch': 5, 'batch': 50, 'loss': 7.323315620422363}
{'epoch': 5, 'batch': 51, 'loss': 7.158412933349609}
{'epoch': 5, 'batch': 52, 'loss': 6.798255920410156}
{'epoch': 5, 'batch': 53, 'loss': 7.059906959533691}
{'epoch': 5, 'batch': 54, 'loss': 6.974141597747803}
{'epoch': 5, 'batch': 55, 'loss': 7.004153728485107}
{'epoch': 5, 'batch': 56, 'loss': 7.037888526916504}
{'epoch': 5, 'batch': 57, 'loss': 7.039492130279541}

{'epoch': 5, 'batch': 58, 'loss': 6.9776411056518555}
{'epoch': 5, 'batch': 59, 'loss': 7.014591693878174}
{'epoch': 5, 'batch': 60, 'loss': 6.948453903198242}
{'epoch': 5, 'batch': 61, 'loss': 7.116002082824707}
{'epoch': 5, 'batch': 62, 'loss': 7.067704677581787}
{'epoch': 5, 'batch': 63, 'loss': 7.022937297821045}
{'epoch': 5, 'batch': 64, 'loss': 7.134676456451416}
{'epoch': 5, 'batch': 65, 'loss': 7.028341770172119}
{'epoch': 5, 'batch': 66, 'loss': 7.0176100730896}
{'epoch': 5, 'batch': 67, 'loss': 6.834761142730713}
{'epoch': 5, 'batch': 68, 'loss': 7.050156593322754}
{'epoch': 5, 'batch': 69, 'loss': 6.8010358810424805}
{'epoch': 5, 'batch': 70, 'loss': 7.1986165046691895}
{'epoch': 5, 'batch': 71, 'loss': 7.132486343383789}
{'epoch': 5, 'batch': 72, 'loss': 7.05648946762085}
{'epoch': 5, 'batch': 73, 'loss': 7.1232590675354}
{'epoch': 5, 'batch': 74, 'loss': 7.076952934265137}
{'epoch': 5, 'batch': 75, 'loss': 7.246308326721191}
{'epoch': 5, 'batch': 76, 'loss': 7.052600860595703}
{'epoch': 5, 'batch': 77, 'loss': 7.2816853523254395}
{'epoch': 5, 'batch': 78, 'loss': 7.402735710144043}
{'epoch': 5, 'batch': 79, 'loss': 6.6879048347473145}
{'epoch': 5, 'batch': 80, 'loss': 6.989800930023193}
{'epoch': 5, 'batch': 81, 'loss': 7.150336265563965}
{'epoch': 5, 'batch': 82, 'loss': 7.129693984985352}
{'epoch': 5, 'batch': 83, 'loss': 7.194100379943848}
{'epoch': 5, 'batch': 84, 'loss': 7.009249687194824}
{'epoch': 6, 'batch': 0, 'loss': 7.0119147300720215}
{'epoch': 6, 'batch': 1, 'loss': 7.003420829772949}
{'epoch': 6, 'batch': 2, 'loss': 6.953341484069824}
{'epoch': 6, 'batch': 3, 'loss': 7.136789798736572}

```

```
{'epoch': 6, 'batch': 4, 'loss': 7.120133399963379}
{'epoch': 6, 'batch': 5, 'loss': 7.133415222167969}
{'epoch': 6, 'batch': 6, 'loss': 7.45016622543335}
{'epoch': 6, 'batch': 7, 'loss': 7.311391830444336}
{'epoch': 6, 'batch': 8, 'loss': 7.23955774307251}
{'epoch': 6, 'batch': 9, 'loss': 7.137271881103516}
{'epoch': 6, 'batch': 10, 'loss': 7.114870071411133}
{'epoch': 6, 'batch': 11, 'loss': 7.046657085418701}
{'epoch': 6, 'batch': 12, 'loss': 7.150754451751709}
{'epoch': 6, 'batch': 13, 'loss': 7.245229244232178}
{'epoch': 6, 'batch': 14, 'loss': 6.927648544311523}
{'epoch': 6, 'batch': 15, 'loss': 6.9967827796936035}
{'epoch': 6, 'batch': 16, 'loss': 6.803927898406982}
{'epoch': 6, 'batch': 17, 'loss': 7.005873680114746}
{'epoch': 6, 'batch': 18, 'loss': 6.899837970733643}
{'epoch': 6, 'batch': 19, 'loss': 7.041455268859863}
{'epoch': 6, 'batch': 20, 'loss': 6.783386707305908}
{'epoch': 6, 'batch': 21, 'loss': 7.13134765625}
{'epoch': 6, 'batch': 22, 'loss': 7.104422092437744}
{'epoch': 6, 'batch': 23, 'loss': 7.170372009277344}
{'epoch': 6, 'batch': 24, 'loss': 7.162269115447998}
{'epoch': 6, 'batch': 25, 'loss': 6.890437602996826}
{'epoch': 6, 'batch': 26, 'loss': 6.879439830780029}
{'epoch': 6, 'batch': 27, 'loss': 6.897568225860596}
{'epoch': 6, 'batch': 28, 'loss': 7.261077404022217}
{'epoch': 6, 'batch': 29, 'loss': 7.345869541168213}
{'epoch': 6, 'batch': 30, 'loss': 6.736280918121338}
{'epoch': 6, 'batch': 31, 'loss': 6.702098846435547}
{'epoch': 6, 'batch': 32, 'loss': 6.851338863372803}
{'epoch': 6, 'batch': 33, 'loss': 7.001629829406738}
{'epoch': 6, 'batch': 34, 'loss': 6.961708068847656}
{'epoch': 6, 'batch': 35, 'loss': 7.221908092498779}
{'epoch': 6, 'batch': 36, 'loss': 7.15139102935791}
{'epoch': 6, 'batch': 37, 'loss': 6.906484127044678}
{'epoch': 6, 'batch': 38, 'loss': 7.245014190673828}
{'epoch': 6, 'batch': 39, 'loss': 7.051952362060547}
{'epoch': 6, 'batch': 40, 'loss': 7.261649131774902}
{'epoch': 6, 'batch': 41, 'loss': 7.019643306732178}
{'epoch': 6, 'batch': 42, 'loss': 7.248443603515625}
{'epoch': 6, 'batch': 43, 'loss': 6.972057342529297}
{'epoch': 6, 'batch': 44, 'loss': 6.86867094039917}
{'epoch': 6, 'batch': 45, 'loss': 6.956286907196045}
{'epoch': 6, 'batch': 46, 'loss': 7.190842628479004}
{'epoch': 6, 'batch': 47, 'loss': 7.474118232727051}
{'epoch': 6, 'batch': 48, 'loss': 6.930563449859619}
{'epoch': 6, 'batch': 49, 'loss': 7.141721725463867}
{'epoch': 6, 'batch': 50, 'loss': 7.321783065795898}
{'epoch': 6, 'batch': 51, 'loss': 7.155149936676025}
{'epoch': 6, 'batch': 52, 'loss': 6.795522689819336}
{'epoch': 6, 'batch': 53, 'loss': 7.057673454284668}
{'epoch': 6, 'batch': 54, 'loss': 6.972560882568359}
{'epoch': 6, 'batch': 55, 'loss': 7.001739978790283}
```

```

{'epoch': 6, 'batch': 56, 'loss': 7.03438138961792}
{'epoch': 6, 'batch': 57, 'loss': 7.035369873046875}
{'epoch': 6, 'batch': 58, 'loss': 6.974842071533203}
{'epoch': 6, 'batch': 59, 'loss': 7.0097784996032715}
{'epoch': 6, 'batch': 60, 'loss': 6.941223621368408}
{'epoch': 6, 'batch': 61, 'loss': 7.109740734100342}
{'epoch': 6, 'batch': 62, 'loss': 7.062049865722656}
{'epoch': 6, 'batch': 63, 'loss': 7.018956661224365}
{'epoch': 6, 'batch': 64, 'loss': 7.127249717712402}
{'epoch': 6, 'batch': 65, 'loss': 7.020139694213867}
{'epoch': 6, 'batch': 66, 'loss': 7.00988245010376}
{'epoch': 6, 'batch': 67, 'loss': 6.830530166625977}
{'epoch': 6, 'batch': 68, 'loss': 7.043262481689453}
{'epoch': 6, 'batch': 69, 'loss': 6.795427322387695}
{'epoch': 6, 'batch': 70, 'loss': 7.19180965423584}
{'epoch': 6, 'batch': 71, 'loss': 7.124879837036133}
{'epoch': 6, 'batch': 72, 'loss': 7.048972129821777}
{'epoch': 6, 'batch': 73, 'loss': 7.1140947341918945}
{'epoch': 6, 'batch': 74, 'loss': 7.0647759437561035}
{'epoch': 6, 'batch': 75, 'loss': 7.234595775604248}
{'epoch': 6, 'batch': 76, 'loss': 7.044768333435059}
{'epoch': 6, 'batch': 77, 'loss': 7.269410133361816}
{'epoch': 6, 'batch': 78, 'loss': 7.387145519256592}
{'epoch': 6, 'batch': 79, 'loss': 6.676336288452148}
{'epoch': 6, 'batch': 80, 'loss': 6.979118347167969}
{'epoch': 6, 'batch': 81, 'loss': 7.139030456542969}
{'epoch': 6, 'batch': 82, 'loss': 7.116624355316162}
{'epoch': 6, 'batch': 83, 'loss': 7.182821273803711}
{'epoch': 6, 'batch': 84, 'loss': 6.99911642074585}
{'epoch': 7, 'batch': 0, 'loss': 7.010089874267578}
{'epoch': 7, 'batch': 1, 'loss': 7.004615306854248}
{'epoch': 7, 'batch': 2, 'loss': 6.953919887542725}
{'epoch': 7, 'batch': 3, 'loss': 7.135219573974609}
{'epoch': 7, 'batch': 4, 'loss': 7.120514869689941}
{'epoch': 7, 'batch': 5, 'loss': 7.131505012512207}
{'epoch': 7, 'batch': 6, 'loss': 7.451509475708008}
{'epoch': 7, 'batch': 7, 'loss': 7.313832759857178}
{'epoch': 7, 'batch': 8, 'loss': 7.2420973777771}
{'epoch': 7, 'batch': 9, 'loss': 7.138758659362793}
{'epoch': 7, 'batch': 10, 'loss': 7.117014408111572}
{'epoch': 7, 'batch': 11, 'loss': 7.049887180328369}
{'epoch': 7, 'batch': 12, 'loss': 7.154778957366943}
{'epoch': 7, 'batch': 13, 'loss': 7.248091220855713}
{'epoch': 7, 'batch': 14, 'loss': 6.930996894836426}
{'epoch': 7, 'batch': 15, 'loss': 7.0014119148254395}
{'epoch': 7, 'batch': 16, 'loss': 6.807572841644287}
{'epoch': 7, 'batch': 17, 'loss': 7.010690689086914}
{'epoch': 7, 'batch': 18, 'loss': 6.902429103851318}
{'epoch': 7, 'batch': 19, 'loss': 7.044335842132568}
{'epoch': 7, 'batch': 20, 'loss': 6.788380146026611}
{'epoch': 7, 'batch': 21, 'loss': 7.13294792175293}
{'epoch': 7, 'batch': 22, 'loss': 7.108422756195068}

```

```

{'epoch': 7, 'batch': 23, 'loss': 7.171878814697266}
{'epoch': 7, 'batch': 24, 'loss': 7.166726112365723}
{'epoch': 7, 'batch': 25, 'loss': 6.893800735473633}
{'epoch': 7, 'batch': 26, 'loss': 6.882606506347656}
{'epoch': 7, 'batch': 27, 'loss': 6.900729179382324}
{'epoch': 7, 'batch': 28, 'loss': 7.263225555419922}
{'epoch': 7, 'batch': 29, 'loss': 7.347442150115967}
{'epoch': 7, 'batch': 30, 'loss': 6.738232135772705}
{'epoch': 7, 'batch': 31, 'loss': 6.703425884246826}
{'epoch': 7, 'batch': 32, 'loss': 6.8541789054870605}
{'epoch': 7, 'batch': 33, 'loss': 7.003754138946533}
{'epoch': 7, 'batch': 34, 'loss': 6.963416576385498}
{'epoch': 7, 'batch': 35, 'loss': 7.225461483001709}
{'epoch': 7, 'batch': 36, 'loss': 7.1536865234375}
{'epoch': 7, 'batch': 37, 'loss': 6.907602787017822}
{'epoch': 7, 'batch': 38, 'loss': 7.244699478149414}
{'epoch': 7, 'batch': 39, 'loss': 7.054253101348877}
{'epoch': 7, 'batch': 40, 'loss': 7.262803554534912}
{'epoch': 7, 'batch': 41, 'loss': 7.0215067863464355}
{'epoch': 7, 'batch': 42, 'loss': 7.251709938049316}
{'epoch': 7, 'batch': 43, 'loss': 6.973490238189697}

{'epoch': 7, 'batch': 44, 'loss': 6.869901657104492}
{'epoch': 7, 'batch': 45, 'loss': 6.95648193359375}
{'epoch': 7, 'batch': 46, 'loss': 7.190530300140381}
{'epoch': 7, 'batch': 47, 'loss': 7.472898006439209}
{'epoch': 7, 'batch': 48, 'loss': 6.930238246917725}
{'epoch': 7, 'batch': 49, 'loss': 7.142035007476807}
{'epoch': 7, 'batch': 50, 'loss': 7.319501876831055}
{'epoch': 7, 'batch': 51, 'loss': 7.154611587524414}
{'epoch': 7, 'batch': 52, 'loss': 6.795375347137451}
{'epoch': 7, 'batch': 53, 'loss': 7.054595470428467}
{'epoch': 7, 'batch': 54, 'loss': 6.971984386444092}
{'epoch': 7, 'batch': 55, 'loss': 6.998972415924072}
{'epoch': 7, 'batch': 56, 'loss': 7.0332231521606445}
{'epoch': 7, 'batch': 57, 'loss': 7.035417079925537}
{'epoch': 7, 'batch': 58, 'loss': 6.974935054779053}
{'epoch': 7, 'batch': 59, 'loss': 7.007786273956299}
{'epoch': 7, 'batch': 60, 'loss': 6.9382123947143555}
{'epoch': 7, 'batch': 61, 'loss': 7.106235027313232}
{'epoch': 7, 'batch': 62, 'loss': 7.059345722198486}
{'epoch': 7, 'batch': 63, 'loss': 7.017824172973633}
{'epoch': 7, 'batch': 64, 'loss': 7.121854782104492}
{'epoch': 7, 'batch': 65, 'loss': 7.01554536819458}
{'epoch': 7, 'batch': 66, 'loss': 7.005762577056885}
{'epoch': 7, 'batch': 67, 'loss': 6.829331398010254}
{'epoch': 7, 'batch': 68, 'loss': 7.039209365844727}
{'epoch': 7, 'batch': 69, 'loss': 6.792514801025391}
{'epoch': 7, 'batch': 70, 'loss': 7.18857479095459}
{'epoch': 7, 'batch': 71, 'loss': 7.119761943817139}
{'epoch': 7, 'batch': 72, 'loss': 7.043157577514648}
{'epoch': 7, 'batch': 73, 'loss': 7.107572555541992}

```

```
{'epoch': 7, 'batch': 74, 'loss': 7.057406425476074}
{'epoch': 7, 'batch': 75, 'loss': 7.2272539138793945}
{'epoch': 7, 'batch': 76, 'loss': 7.038349628448486}
{'epoch': 7, 'batch': 77, 'loss': 7.263513565063477}
{'epoch': 7, 'batch': 78, 'loss': 7.379634857177734}
{'epoch': 7, 'batch': 79, 'loss': 6.6688761711120605}
{'epoch': 7, 'batch': 80, 'loss': 6.97172212600708}
{'epoch': 7, 'batch': 81, 'loss': 7.133100509643555}
{'epoch': 7, 'batch': 82, 'loss': 7.108366012573242}
{'epoch': 7, 'batch': 83, 'loss': 7.17439079284668}
{'epoch': 7, 'batch': 84, 'loss': 6.991728782653809}
{'epoch': 8, 'batch': 0, 'loss': 7.007826328277588}
{'epoch': 8, 'batch': 1, 'loss': 7.002505302429199}
{'epoch': 8, 'batch': 2, 'loss': 6.9499311447143555}
{'epoch': 8, 'batch': 3, 'loss': 7.1322150230407715}
{'epoch': 8, 'batch': 4, 'loss': 7.1180644035339355}
{'epoch': 8, 'batch': 5, 'loss': 7.129049777984619}
{'epoch': 8, 'batch': 6, 'loss': 7.4513678550720215}
{'epoch': 8, 'batch': 7, 'loss': 7.313634872436523}
{'epoch': 8, 'batch': 8, 'loss': 7.239553928375244}
{'epoch': 8, 'batch': 9, 'loss': 7.141321182250977}
{'epoch': 8, 'batch': 10, 'loss': 7.117743015289307}
{'epoch': 8, 'batch': 11, 'loss': 7.054304599761963}
{'epoch': 8, 'batch': 12, 'loss': 7.155940532684326}
{'epoch': 8, 'batch': 13, 'loss': 7.249099254608154}
{'epoch': 8, 'batch': 14, 'loss': 6.932296276092529}
{'epoch': 8, 'batch': 15, 'loss': 7.005128860473633}
{'epoch': 8, 'batch': 16, 'loss': 6.8111395835876465}
{'epoch': 8, 'batch': 17, 'loss': 7.015999794006348}
{'epoch': 8, 'batch': 18, 'loss': 6.907718181610107}
{'epoch': 8, 'batch': 19, 'loss': 7.047770977020264}
{'epoch': 8, 'batch': 20, 'loss': 6.792998313903809}
{'epoch': 8, 'batch': 21, 'loss': 7.134308338165283}
{'epoch': 8, 'batch': 22, 'loss': 7.114205837249756}
{'epoch': 8, 'batch': 23, 'loss': 7.172213077545166}
{'epoch': 8, 'batch': 24, 'loss': 7.171013832092285}
{'epoch': 8, 'batch': 25, 'loss': 6.895449638366699}
{'epoch': 8, 'batch': 26, 'loss': 6.88293981552124}
{'epoch': 8, 'batch': 27, 'loss': 6.900710582733154}
{'epoch': 8, 'batch': 28, 'loss': 7.266521453857422}
{'epoch': 8, 'batch': 29, 'loss': 7.3500142097473145}
{'epoch': 8, 'batch': 30, 'loss': 6.733877658843994}
{'epoch': 8, 'batch': 31, 'loss': 6.700380325317383}
{'epoch': 8, 'batch': 32, 'loss': 6.852255821228027}
{'epoch': 8, 'batch': 33, 'loss': 7.001649379730225}
{'epoch': 8, 'batch': 34, 'loss': 6.963931083679199}
{'epoch': 8, 'batch': 35, 'loss': 7.226016998291016}
{'epoch': 8, 'batch': 36, 'loss': 7.153631687164307}
{'epoch': 8, 'batch': 37, 'loss': 6.907827377319336}
{'epoch': 8, 'batch': 38, 'loss': 7.244825839996338}
{'epoch': 8, 'batch': 39, 'loss': 7.0555315017700195}
{'epoch': 8, 'batch': 40, 'loss': 7.259951591491699}
```

```
{'epoch': 8, 'batch': 41, 'loss': 7.021071910858154}
{'epoch': 8, 'batch': 42, 'loss': 7.254075050354004}
{'epoch': 8, 'batch': 43, 'loss': 6.973226547241211}
{'epoch': 8, 'batch': 44, 'loss': 6.8738861083984375}
{'epoch': 8, 'batch': 45, 'loss': 6.958765506744385}
{'epoch': 8, 'batch': 46, 'loss': 7.188676834106445}
{'epoch': 8, 'batch': 47, 'loss': 7.47037935256958}
{'epoch': 8, 'batch': 48, 'loss': 6.932661533355713}
{'epoch': 8, 'batch': 49, 'loss': 7.141164302825928}
{'epoch': 8, 'batch': 50, 'loss': 7.316395282745361}
{'epoch': 8, 'batch': 51, 'loss': 7.154384136199951}
{'epoch': 8, 'batch': 52, 'loss': 6.797773838043213}
{'epoch': 8, 'batch': 53, 'loss': 7.0531439781188965}
{'epoch': 8, 'batch': 54, 'loss': 6.972233295440674}
{'epoch': 8, 'batch': 55, 'loss': 6.998905658721924}
{'epoch': 8, 'batch': 56, 'loss': 7.029758453369141}
{'epoch': 8, 'batch': 57, 'loss': 7.034399032592773}
{'epoch': 8, 'batch': 58, 'loss': 6.973845958709717}
{'epoch': 8, 'batch': 59, 'loss': 7.007419109344482}
{'epoch': 8, 'batch': 60, 'loss': 6.9366607666015625}
{'epoch': 8, 'batch': 61, 'loss': 7.104191303253174}
{'epoch': 8, 'batch': 62, 'loss': 7.057435035705566}
{'epoch': 8, 'batch': 63, 'loss': 7.017614364624023}
{'epoch': 8, 'batch': 64, 'loss': 7.1160078048706055}
{'epoch': 8, 'batch': 65, 'loss': 7.013758659362793}
{'epoch': 8, 'batch': 66, 'loss': 7.0031352043151855}
{'epoch': 8, 'batch': 67, 'loss': 6.829550266265869}
{'epoch': 8, 'batch': 68, 'loss': 7.038148403167725}
{'epoch': 8, 'batch': 69, 'loss': 6.7910847663879395}
{'epoch': 8, 'batch': 70, 'loss': 7.186676025390625}
{'epoch': 8, 'batch': 71, 'loss': 7.115837097167969}
{'epoch': 8, 'batch': 72, 'loss': 7.038352966308594}
{'epoch': 8, 'batch': 73, 'loss': 7.102965831756592}
{'epoch': 8, 'batch': 74, 'loss': 7.053393840789795}
{'epoch': 8, 'batch': 75, 'loss': 7.221895694732666}
{'epoch': 8, 'batch': 76, 'loss': 7.03433895111084}
{'epoch': 8, 'batch': 77, 'loss': 7.2588090896606445}
{'epoch': 8, 'batch': 78, 'loss': 7.372025489807129}
{'epoch': 8, 'batch': 79, 'loss': 6.664470672607422}
{'epoch': 8, 'batch': 80, 'loss': 6.966940879821777}
{'epoch': 8, 'batch': 81, 'loss': 7.129422664642334}
{'epoch': 8, 'batch': 82, 'loss': 7.101438045501709}
{'epoch': 8, 'batch': 83, 'loss': 7.167062282562256}
{'epoch': 8, 'batch': 84, 'loss': 6.986221790313721}
{'epoch': 9, 'batch': 0, 'loss': 7.005465984344482}
{'epoch': 9, 'batch': 1, 'loss': 7.000351905822754}
{'epoch': 9, 'batch': 2, 'loss': 6.9488749504089355}
{'epoch': 9, 'batch': 3, 'loss': 7.130460739135742}
{'epoch': 9, 'batch': 4, 'loss': 7.118076324462891}
{'epoch': 9, 'batch': 5, 'loss': 7.126914024353027}
{'epoch': 9, 'batch': 6, 'loss': 7.451462268829346}
{'epoch': 9, 'batch': 7, 'loss': 7.313301086425781}
```



```

{'epoch': 9, 'batch': 8, 'loss': 7.239039897918701}
{'epoch': 9, 'batch': 9, 'loss': 7.140422344207764}
{'epoch': 9, 'batch': 10, 'loss': 7.115663051605225}
{'epoch': 9, 'batch': 11, 'loss': 7.054812431335449}
{'epoch': 9, 'batch': 12, 'loss': 7.1570210456848145}
{'epoch': 9, 'batch': 13, 'loss': 7.24919319152832}
{'epoch': 9, 'batch': 14, 'loss': 6.933560371398926}
{'epoch': 9, 'batch': 15, 'loss': 7.008296012878418}
{'epoch': 9, 'batch': 16, 'loss': 6.814877510070801}
{'epoch': 9, 'batch': 17, 'loss': 7.017703056335449}
{'epoch': 9, 'batch': 18, 'loss': 6.9055962562561035}
{'epoch': 9, 'batch': 19, 'loss': 7.0500969886779785}
{'epoch': 9, 'batch': 20, 'loss': 6.796139717102051}
{'epoch': 9, 'batch': 21, 'loss': 7.135468006134033}
{'epoch': 9, 'batch': 22, 'loss': 7.117651462554932}
{'epoch': 9, 'batch': 23, 'loss': 7.171159267425537}
{'epoch': 9, 'batch': 24, 'loss': 7.174956798553467}
{'epoch': 9, 'batch': 25, 'loss': 6.898306846618652}
{'epoch': 9, 'batch': 26, 'loss': 6.886136054992676}
{'epoch': 9, 'batch': 27, 'loss': 6.898240566253662}
{'epoch': 9, 'batch': 28, 'loss': 7.269796848297119}

{'epoch': 9, 'batch': 29, 'loss': 7.3535614013671875}
{'epoch': 9, 'batch': 30, 'loss': 6.731576442718506}
{'epoch': 9, 'batch': 31, 'loss': 6.700774669647217}
{'epoch': 9, 'batch': 32, 'loss': 6.853195667266846}
{'epoch': 9, 'batch': 33, 'loss': 7.001572608947754}
{'epoch': 9, 'batch': 34, 'loss': 6.962554454803467}
{'epoch': 9, 'batch': 35, 'loss': 7.224085807800293}
{'epoch': 9, 'batch': 36, 'loss': 7.154664516448975}
{'epoch': 9, 'batch': 37, 'loss': 6.905525207519531}
{'epoch': 9, 'batch': 38, 'loss': 7.245899677276611}
{'epoch': 9, 'batch': 39, 'loss': 7.054358005523682}
{'epoch': 9, 'batch': 40, 'loss': 7.259841442108154}
{'epoch': 9, 'batch': 41, 'loss': 7.022599220275879}
{'epoch': 9, 'batch': 42, 'loss': 7.254385471343994}
{'epoch': 9, 'batch': 43, 'loss': 6.971317768096924}
{'epoch': 9, 'batch': 44, 'loss': 6.871775150299072}
{'epoch': 9, 'batch': 45, 'loss': 6.958269119262695}
{'epoch': 9, 'batch': 46, 'loss': 7.186351776123047}
{'epoch': 9, 'batch': 47, 'loss': 7.467044353485107}
{'epoch': 9, 'batch': 48, 'loss': 6.933091163635254}
{'epoch': 9, 'batch': 49, 'loss': 7.139954566955566}
{'epoch': 9, 'batch': 50, 'loss': 7.312317848205566}
{'epoch': 9, 'batch': 51, 'loss': 7.152445316314697}
{'epoch': 9, 'batch': 52, 'loss': 6.80302619934082}
{'epoch': 9, 'batch': 53, 'loss': 7.052287578582764}
{'epoch': 9, 'batch': 54, 'loss': 6.973692417144775}
{'epoch': 9, 'batch': 55, 'loss': 6.999226093292236}
{'epoch': 9, 'batch': 56, 'loss': 7.030730247497559}
{'epoch': 9, 'batch': 57, 'loss': 7.033681869506836}
{'epoch': 9, 'batch': 58, 'loss': 6.97257661819458}

```

```
{'epoch': 9, 'batch': 59, 'loss': 7.009970188140869}
{'epoch': 9, 'batch': 60, 'loss': 6.937455654144287}
{'epoch': 9, 'batch': 61, 'loss': 7.101989269256592}
{'epoch': 9, 'batch': 62, 'loss': 7.056623458862305}
{'epoch': 9, 'batch': 63, 'loss': 7.019128322601318}
{'epoch': 9, 'batch': 64, 'loss': 7.110084533691406}
{'epoch': 9, 'batch': 65, 'loss': 7.012657642364502}
{'epoch': 9, 'batch': 66, 'loss': 7.002655029296875}
{'epoch': 9, 'batch': 67, 'loss': 6.8289384841918945}
{'epoch': 9, 'batch': 68, 'loss': 7.038494110107422}
{'epoch': 9, 'batch': 69, 'loss': 6.791566371917725}
{'epoch': 9, 'batch': 70, 'loss': 7.182847023010254}
{'epoch': 9, 'batch': 71, 'loss': 7.110745906829834}
{'epoch': 9, 'batch': 72, 'loss': 7.037473201751709}
{'epoch': 9, 'batch': 73, 'loss': 7.099877834320068}
{'epoch': 9, 'batch': 74, 'loss': 7.0516676902771}
{'epoch': 9, 'batch': 75, 'loss': 7.220058441162109}
{'epoch': 9, 'batch': 76, 'loss': 7.033032417297363}
{'epoch': 9, 'batch': 77, 'loss': 7.256231784820557}
{'epoch': 9, 'batch': 78, 'loss': 7.368762016296387}
{'epoch': 9, 'batch': 79, 'loss': 6.664078235626221}
{'epoch': 9, 'batch': 80, 'loss': 6.964889049530029}
{'epoch': 9, 'batch': 81, 'loss': 7.126152038574219}
{'epoch': 9, 'batch': 82, 'loss': 7.097468376159668}
{'epoch': 9, 'batch': 83, 'loss': 7.165403366088867}
{'epoch': 9, 'batch': 84, 'loss': 6.98208475112915}
{'epoch': 0, 'batch': 0, 'loss': 8.849839210510254}
{'epoch': 0, 'batch': 1, 'loss': 8.860162734985352}
{'epoch': 0, 'batch': 2, 'loss': 8.838980674743652}
{'epoch': 0, 'batch': 3, 'loss': 8.844194412231445}
{'epoch': 0, 'batch': 4, 'loss': 8.843192100524902}
{'epoch': 0, 'batch': 5, 'loss': 8.829416275024414}
{'epoch': 0, 'batch': 6, 'loss': 8.826407432556152}
{'epoch': 0, 'batch': 7, 'loss': 8.820000648498535}
{'epoch': 0, 'batch': 8, 'loss': 8.818807601928711}
{'epoch': 0, 'batch': 9, 'loss': 8.7963285446167}
{'epoch': 0, 'batch': 10, 'loss': 8.8004789352417}
{'epoch': 0, 'batch': 11, 'loss': 8.796134948730469}
{'epoch': 0, 'batch': 12, 'loss': 8.77364444732666}
{'epoch': 0, 'batch': 13, 'loss': 8.755851745605469}
{'epoch': 0, 'batch': 14, 'loss': 8.703702926635742}
{'epoch': 0, 'batch': 15, 'loss': 8.715417861938477}
{'epoch': 0, 'batch': 16, 'loss': 8.674659729003906}
{'epoch': 0, 'batch': 17, 'loss': 8.616640090942383}
{'epoch': 0, 'batch': 18, 'loss': 8.550369262695312}
{'epoch': 0, 'batch': 19, 'loss': 8.532487869262695}
{'epoch': 0, 'batch': 20, 'loss': 8.42391586303711}
{'epoch': 0, 'batch': 21, 'loss': 8.445396423339844}
{'epoch': 0, 'batch': 22, 'loss': 8.387402534484863}
{'epoch': 0, 'batch': 23, 'loss': 8.416172981262207}
{'epoch': 0, 'batch': 24, 'loss': 8.369107246398926}
{'epoch': 0, 'batch': 25, 'loss': 8.189764022827148}
```

```
{'epoch': 0, 'batch': 26, 'loss': 8.162447929382324}
{'epoch': 0, 'batch': 27, 'loss': 8.139164924621582}
{'epoch': 0, 'batch': 28, 'loss': 8.24541187286377}
{'epoch': 0, 'batch': 29, 'loss': 8.270980834960938}
{'epoch': 0, 'batch': 30, 'loss': 7.947331428527832}
{'epoch': 0, 'batch': 31, 'loss': 7.969053268432617}
{'epoch': 0, 'batch': 32, 'loss': 7.9220871925354}
{'epoch': 0, 'batch': 33, 'loss': 7.898460388183594}
{'epoch': 0, 'batch': 34, 'loss': 7.887223243713379}
{'epoch': 0, 'batch': 35, 'loss': 7.997067928314209}
{'epoch': 0, 'batch': 36, 'loss': 7.895081043243408}
{'epoch': 0, 'batch': 37, 'loss': 7.713407516479492}
{'epoch': 0, 'batch': 38, 'loss': 7.858813285827637}
{'epoch': 0, 'batch': 39, 'loss': 7.752702236175537}
{'epoch': 0, 'batch': 40, 'loss': 7.891473293304443}
{'epoch': 0, 'batch': 41, 'loss': 7.6815080642700195}
{'epoch': 0, 'batch': 42, 'loss': 7.7507524490356445}
{'epoch': 0, 'batch': 43, 'loss': 7.552091598510742}
{'epoch': 0, 'batch': 44, 'loss': 7.482917785644531}
{'epoch': 0, 'batch': 45, 'loss': 7.554891109466553}
{'epoch': 0, 'batch': 46, 'loss': 7.754558086395264}
{'epoch': 0, 'batch': 47, 'loss': 7.947083950042725}
{'epoch': 0, 'batch': 48, 'loss': 7.446170330047607}
{'epoch': 0, 'batch': 49, 'loss': 7.639803409576416}
{'epoch': 0, 'batch': 50, 'loss': 7.754561424255371}
{'epoch': 0, 'batch': 51, 'loss': 7.561359882354736}
{'epoch': 0, 'batch': 52, 'loss': 7.237727165222168}
{'epoch': 0, 'batch': 53, 'loss': 7.499500751495361}
{'epoch': 0, 'batch': 54, 'loss': 7.362330913543701}
{'epoch': 0, 'batch': 55, 'loss': 7.431027889251709}
{'epoch': 0, 'batch': 56, 'loss': 7.431713581085205}
{'epoch': 0, 'batch': 57, 'loss': 7.514471054077148}
{'epoch': 0, 'batch': 58, 'loss': 7.3563127517700195}
{'epoch': 0, 'batch': 59, 'loss': 7.466780185699463}
{'epoch': 0, 'batch': 60, 'loss': 7.271292209625244}
{'epoch': 0, 'batch': 61, 'loss': 7.4839935302734375}
{'epoch': 0, 'batch': 62, 'loss': 7.4335808753967285}
{'epoch': 0, 'batch': 63, 'loss': 7.365077972412109}
{'epoch': 0, 'batch': 64, 'loss': 7.5308403968811035}
{'epoch': 0, 'batch': 65, 'loss': 7.392488956451416}
{'epoch': 0, 'batch': 66, 'loss': 7.3206257820129395}
{'epoch': 0, 'batch': 67, 'loss': 7.1951704025268555}
{'epoch': 0, 'batch': 68, 'loss': 7.419291019439697}
{'epoch': 0, 'batch': 69, 'loss': 7.100668907165527}
{'epoch': 0, 'batch': 70, 'loss': 7.527429580688477}
{'epoch': 0, 'batch': 71, 'loss': 7.467523574829102}
{'epoch': 0, 'batch': 72, 'loss': 7.390645980834961}
{'epoch': 0, 'batch': 73, 'loss': 7.49639368057251}
{'epoch': 0, 'batch': 74, 'loss': 7.442741394042969}
{'epoch': 0, 'batch': 75, 'loss': 7.680677890777588}
{'epoch': 0, 'batch': 76, 'loss': 7.394679546356201}
{'epoch': 0, 'batch': 77, 'loss': 7.578787803649902}
```

```

{'epoch': 0, 'batch': 78, 'loss': 7.7832841873168945}
{'epoch': 0, 'batch': 79, 'loss': 6.9378342628479}
{'epoch': 0, 'batch': 80, 'loss': 7.334287166595459}
{'epoch': 0, 'batch': 81, 'loss': 7.498167037963867}
{'epoch': 0, 'batch': 82, 'loss': 7.498262405395508}
{'epoch': 0, 'batch': 83, 'loss': 7.576389312744141}
{'epoch': 0, 'batch': 84, 'loss': 7.3303608894348145}
{'epoch': 1, 'batch': 0, 'loss': 7.082170009613037}
{'epoch': 1, 'batch': 1, 'loss': 7.0947189333105469}
{'epoch': 1, 'batch': 2, 'loss': 7.050819396972656}
{'epoch': 1, 'batch': 3, 'loss': 7.260125637054443}
{'epoch': 1, 'batch': 4, 'loss': 7.25292444229126}
{'epoch': 1, 'batch': 5, 'loss': 7.257412433624268}
{'epoch': 1, 'batch': 6, 'loss': 7.594594955444336}
{'epoch': 1, 'batch': 7, 'loss': 7.4785051345825195}
{'epoch': 1, 'batch': 8, 'loss': 7.382820129394531}
{'epoch': 1, 'batch': 9, 'loss': 7.277170181274414}
{'epoch': 1, 'batch': 10, 'loss': 7.249875545501709}
{'epoch': 1, 'batch': 11, 'loss': 7.143659591674805}
{'epoch': 1, 'batch': 12, 'loss': 7.288382530212402}
{'epoch': 1, 'batch': 13, 'loss': 7.3237786293029785}
{'epoch': 1, 'batch': 14, 'loss': 6.96357536315918}

{'epoch': 1, 'batch': 15, 'loss': 7.054848670959473}
{'epoch': 1, 'batch': 16, 'loss': 6.850197792053223}
{'epoch': 1, 'batch': 17, 'loss': 6.98762321472168}
{'epoch': 1, 'batch': 18, 'loss': 6.876760482788086}
{'epoch': 1, 'batch': 19, 'loss': 6.994734287261963}
{'epoch': 1, 'batch': 20, 'loss': 6.6987810134887695}
{'epoch': 1, 'batch': 21, 'loss': 7.041934967041016}
{'epoch': 1, 'batch': 22, 'loss': 7.011403560638428}
{'epoch': 1, 'batch': 23, 'loss': 7.1077680587768555}
{'epoch': 1, 'batch': 24, 'loss': 7.048196792602539}
{'epoch': 1, 'batch': 25, 'loss': 6.784206390380859}
{'epoch': 1, 'batch': 26, 'loss': 6.781373500823975}
{'epoch': 1, 'batch': 27, 'loss': 6.800013065338135}
{'epoch': 1, 'batch': 28, 'loss': 7.155954360961914}
{'epoch': 1, 'batch': 29, 'loss': 7.234909534454346}
{'epoch': 1, 'batch': 30, 'loss': 6.645041465759277}
{'epoch': 1, 'batch': 31, 'loss': 6.648113250732422}
{'epoch': 1, 'batch': 32, 'loss': 6.758799076080322}
{'epoch': 1, 'batch': 33, 'loss': 6.92545747756958}
{'epoch': 1, 'batch': 34, 'loss': 6.8936285972595215}
{'epoch': 1, 'batch': 35, 'loss': 7.130023002624512}
{'epoch': 1, 'batch': 36, 'loss': 7.0710601806640625}
{'epoch': 1, 'batch': 37, 'loss': 6.823731422424316}
{'epoch': 1, 'batch': 38, 'loss': 7.16032075881958}
{'epoch': 1, 'batch': 39, 'loss': 7.010965347290039}
{'epoch': 1, 'batch': 40, 'loss': 7.205288887023926}
{'epoch': 1, 'batch': 41, 'loss': 6.974456310272217}
{'epoch': 1, 'batch': 42, 'loss': 7.1944708824157715}
{'epoch': 1, 'batch': 43, 'loss': 6.939392566680908}

```

```

{'epoch': 1, 'batch': 44, 'loss': 6.853515148162842}
{'epoch': 1, 'batch': 45, 'loss': 6.984912872314453}
{'epoch': 1, 'batch': 46, 'loss': 7.2157697677612305}
{'epoch': 1, 'batch': 47, 'loss': 7.475243091583252}
{'epoch': 1, 'batch': 48, 'loss': 6.926592826843262}
{'epoch': 1, 'batch': 49, 'loss': 7.149068355560303}
{'epoch': 1, 'batch': 50, 'loss': 7.352865695953369}
{'epoch': 1, 'batch': 51, 'loss': 7.173548221588135}
{'epoch': 1, 'batch': 52, 'loss': 6.847574710845947}
{'epoch': 1, 'batch': 53, 'loss': 7.0998759269714355}
{'epoch': 1, 'batch': 54, 'loss': 7.008440017700195}
{'epoch': 1, 'batch': 55, 'loss': 7.074718952178955}
{'epoch': 1, 'batch': 56, 'loss': 7.102834701538086}
{'epoch': 1, 'batch': 57, 'loss': 7.154109954833984}
{'epoch': 1, 'batch': 58, 'loss': 7.044101238250732}
{'epoch': 1, 'batch': 59, 'loss': 7.126438617706299}
{'epoch': 1, 'batch': 60, 'loss': 7.007333755493164}
{'epoch': 1, 'batch': 61, 'loss': 7.229398727416992}
{'epoch': 1, 'batch': 62, 'loss': 7.158148288726807}
{'epoch': 1, 'batch': 63, 'loss': 7.111675262451172}
{'epoch': 1, 'batch': 64, 'loss': 7.260629653930664}
{'epoch': 1, 'batch': 65, 'loss': 7.148454666137695}
{'epoch': 1, 'batch': 66, 'loss': 7.12263298034668}
{'epoch': 1, 'batch': 67, 'loss': 6.950525760650635}
{'epoch': 1, 'batch': 68, 'loss': 7.181120872497559}
{'epoch': 1, 'batch': 69, 'loss': 6.892833232879639}
{'epoch': 1, 'batch': 70, 'loss': 7.314525127410889}
{'epoch': 1, 'batch': 71, 'loss': 7.26711893081665}
{'epoch': 1, 'batch': 72, 'loss': 7.18609619140625}
{'epoch': 1, 'batch': 73, 'loss': 7.279061794281006}
{'epoch': 1, 'batch': 74, 'loss': 7.230807781219482}
{'epoch': 1, 'batch': 75, 'loss': 7.44801139831543}
{'epoch': 1, 'batch': 76, 'loss': 7.204253196716309}
{'epoch': 1, 'batch': 77, 'loss': 7.409850120544434}
{'epoch': 1, 'batch': 78, 'loss': 7.581205368041992}
{'epoch': 1, 'batch': 79, 'loss': 6.798884868621826}
{'epoch': 1, 'batch': 80, 'loss': 7.159321308135986}
{'epoch': 1, 'batch': 81, 'loss': 7.31051778793335}
{'epoch': 1, 'batch': 82, 'loss': 7.31454610824585}
{'epoch': 1, 'batch': 83, 'loss': 7.383113861083984}
{'epoch': 1, 'batch': 84, 'loss': 7.165118217468262}
{'epoch': 2, 'batch': 0, 'loss': 7.021875381469727}
{'epoch': 2, 'batch': 1, 'loss': 7.034366130828857}
{'epoch': 2, 'batch': 2, 'loss': 6.97898530960083}
{'epoch': 2, 'batch': 3, 'loss': 7.177821159362793}
{'epoch': 2, 'batch': 4, 'loss': 7.166013240814209}
{'epoch': 2, 'batch': 5, 'loss': 7.167665481567383}
{'epoch': 2, 'batch': 6, 'loss': 7.496729373931885}
{'epoch': 2, 'batch': 7, 'loss': 7.371298313140869}
{'epoch': 2, 'batch': 8, 'loss': 7.293952465057373}
{'epoch': 2, 'batch': 9, 'loss': 7.194921970367432}
{'epoch': 2, 'batch': 10, 'loss': 7.163510322570801}

```

```
{'epoch': 2, 'batch': 11, 'loss': 7.089879989624023}
{'epoch': 2, 'batch': 12, 'loss': 7.200467586517334}
{'epoch': 2, 'batch': 13, 'loss': 7.267609596252441}
{'epoch': 2, 'batch': 14, 'loss': 6.94166374206543}
{'epoch': 2, 'batch': 15, 'loss': 7.017656326293945}
{'epoch': 2, 'batch': 16, 'loss': 6.8290228843688965}
{'epoch': 2, 'batch': 17, 'loss': 6.986815929412842}
{'epoch': 2, 'batch': 18, 'loss': 6.878756999969482}
{'epoch': 2, 'batch': 19, 'loss': 7.011524677276611}
{'epoch': 2, 'batch': 20, 'loss': 6.736198425292969}
{'epoch': 2, 'batch': 21, 'loss': 7.066838264465332}
{'epoch': 2, 'batch': 22, 'loss': 7.047854900360107}
{'epoch': 2, 'batch': 23, 'loss': 7.124249458312988}
{'epoch': 2, 'batch': 24, 'loss': 7.0913262367248535}
{'epoch': 2, 'batch': 25, 'loss': 6.825622081756592}
{'epoch': 2, 'batch': 26, 'loss': 6.824667453765869}
{'epoch': 2, 'batch': 27, 'loss': 6.833226203918457}
{'epoch': 2, 'batch': 28, 'loss': 7.1905670166015625}
{'epoch': 2, 'batch': 29, 'loss': 7.279116153717041}
{'epoch': 2, 'batch': 30, 'loss': 6.67879056930542}
{'epoch': 2, 'batch': 31, 'loss': 6.660926818847656}
{'epoch': 2, 'batch': 32, 'loss': 6.783288955688477}
{'epoch': 2, 'batch': 33, 'loss': 6.949016571044922}
{'epoch': 2, 'batch': 34, 'loss': 6.910791397094727}
{'epoch': 2, 'batch': 35, 'loss': 7.160301685333252}
{'epoch': 2, 'batch': 36, 'loss': 7.097639083862305}
{'epoch': 2, 'batch': 37, 'loss': 6.840124130249023}
{'epoch': 2, 'batch': 38, 'loss': 7.186836242675781}
{'epoch': 2, 'batch': 39, 'loss': 7.017429351806641}
{'epoch': 2, 'batch': 40, 'loss': 7.218668460845947}
{'epoch': 2, 'batch': 41, 'loss': 6.977577209472656}
{'epoch': 2, 'batch': 42, 'loss': 7.20603609085083}
{'epoch': 2, 'batch': 43, 'loss': 6.938786506652832}
{'epoch': 2, 'batch': 44, 'loss': 6.843142032623291}
{'epoch': 2, 'batch': 45, 'loss': 6.956014156341553}
{'epoch': 2, 'batch': 46, 'loss': 7.194481372833252}
{'epoch': 2, 'batch': 47, 'loss': 7.461703777313232}
{'epoch': 2, 'batch': 48, 'loss': 6.911003112792969}
{'epoch': 2, 'batch': 49, 'loss': 7.130321979522705}
{'epoch': 2, 'batch': 50, 'loss': 7.321774005889893}
{'epoch': 2, 'batch': 51, 'loss': 7.151164531707764}
{'epoch': 2, 'batch': 52, 'loss': 6.814905166625977}
{'epoch': 2, 'batch': 53, 'loss': 7.0687255859375}
{'epoch': 2, 'batch': 54, 'loss': 6.976689338684082}
{'epoch': 2, 'batch': 55, 'loss': 7.029813766479492}
{'epoch': 2, 'batch': 56, 'loss': 7.061705589294434}
{'epoch': 2, 'batch': 57, 'loss': 7.089510440826416}
{'epoch': 2, 'batch': 58, 'loss': 7.000462055206299}
{'epoch': 2, 'batch': 59, 'loss': 7.066817283630371}
{'epoch': 2, 'batch': 60, 'loss': 6.966105937957764}
{'epoch': 2, 'batch': 61, 'loss': 7.165896415710449}
{'epoch': 2, 'batch': 62, 'loss': 7.102115631103516}
```

```
{'epoch': 2, 'batch': 63, 'loss': 7.061384201049805}
{'epoch': 2, 'batch': 64, 'loss': 7.194309711456299}
{'epoch': 2, 'batch': 65, 'loss': 7.086456775665283}
{'epoch': 2, 'batch': 66, 'loss': 7.064151763916016}
{'epoch': 2, 'batch': 67, 'loss': 6.88991117477417}
{'epoch': 2, 'batch': 68, 'loss': 7.112429618835449}
{'epoch': 2, 'batch': 69, 'loss': 6.842081069946289}
{'epoch': 2, 'batch': 70, 'loss': 7.250939846038818}
{'epoch': 2, 'batch': 71, 'loss': 7.196992874145508}
{'epoch': 2, 'batch': 72, 'loss': 7.119469165802002}
{'epoch': 2, 'batch': 73, 'loss': 7.202784061431885}
{'epoch': 2, 'batch': 74, 'loss': 7.156054973602295}
{'epoch': 2, 'batch': 75, 'loss': 7.353760719299316}
{'epoch': 2, 'batch': 76, 'loss': 7.130079746246338}
{'epoch': 2, 'batch': 77, 'loss': 7.338642120361328}
{'epoch': 2, 'batch': 78, 'loss': 7.490187168121338}
{'epoch': 2, 'batch': 79, 'loss': 6.748403549194336}
{'epoch': 2, 'batch': 80, 'loss': 7.08290958404541}
{'epoch': 2, 'batch': 81, 'loss': 7.229703426361084}
{'epoch': 2, 'batch': 82, 'loss': 7.228028297424316}
{'epoch': 2, 'batch': 83, 'loss': 7.294271945953369}
{'epoch': 2, 'batch': 84, 'loss': 7.093948841094971}
```

```
{'epoch': 3, 'batch': 0, 'loss': 7.0146484375}
{'epoch': 3, 'batch': 1, 'loss': 7.018689155578613}
{'epoch': 3, 'batch': 2, 'loss': 6.96240758895874}
{'epoch': 3, 'batch': 3, 'loss': 7.154310703277588}
{'epoch': 3, 'batch': 4, 'loss': 7.142169952392578}
{'epoch': 3, 'batch': 5, 'loss': 7.141061782836914}
{'epoch': 3, 'batch': 6, 'loss': 7.469508171081543}
{'epoch': 3, 'batch': 7, 'loss': 7.337454319000244}
{'epoch': 3, 'batch': 8, 'loss': 7.264524936676025}
{'epoch': 3, 'batch': 9, 'loss': 7.165562152862549}
{'epoch': 3, 'batch': 10, 'loss': 7.135493755340576}
{'epoch': 3, 'batch': 11, 'loss': 7.068709850311279}
{'epoch': 3, 'batch': 12, 'loss': 7.172740936279297}
{'epoch': 3, 'batch': 13, 'loss': 7.253921985626221}
{'epoch': 3, 'batch': 14, 'loss': 6.938220977783203}
{'epoch': 3, 'batch': 15, 'loss': 7.009326457977295}
{'epoch': 3, 'batch': 16, 'loss': 6.822033405303955}
{'epoch': 3, 'batch': 17, 'loss': 6.993515968322754}
{'epoch': 3, 'batch': 18, 'loss': 6.886772632598877}
{'epoch': 3, 'batch': 19, 'loss': 7.02532434463501}
{'epoch': 3, 'batch': 20, 'loss': 6.754220485687256}
{'epoch': 3, 'batch': 21, 'loss': 7.0885419845581055}
{'epoch': 3, 'batch': 22, 'loss': 7.06913948059082}
{'epoch': 3, 'batch': 23, 'loss': 7.1422271728515625}
{'epoch': 3, 'batch': 24, 'loss': 7.117805480957031}
{'epoch': 3, 'batch': 25, 'loss': 6.849149227142334}
{'epoch': 3, 'batch': 26, 'loss': 6.847657203674316}
{'epoch': 3, 'batch': 27, 'loss': 6.855893611907959}
{'epoch': 3, 'batch': 28, 'loss': 7.218523025512695}
```

```
{'epoch': 3, 'batch': 29, 'loss': 7.305171012878418}
{'epoch': 3, 'batch': 30, 'loss': 6.699484348297119}
{'epoch': 3, 'batch': 31, 'loss': 6.675163269042969}
{'epoch': 3, 'batch': 32, 'loss': 6.802611351013184}
{'epoch': 3, 'batch': 33, 'loss': 6.965065002441406}
{'epoch': 3, 'batch': 34, 'loss': 6.92643404006958}
{'epoch': 3, 'batch': 35, 'loss': 7.182223320007324}
{'epoch': 3, 'batch': 36, 'loss': 7.117244243621826}
{'epoch': 3, 'batch': 37, 'loss': 6.859827995300293}
{'epoch': 3, 'batch': 38, 'loss': 7.204608917236328}
{'epoch': 3, 'batch': 39, 'loss': 7.028496265411377}
{'epoch': 3, 'batch': 40, 'loss': 7.230401515960693}
{'epoch': 3, 'batch': 41, 'loss': 6.988077163696289}
{'epoch': 3, 'batch': 42, 'loss': 7.21760892868042}
{'epoch': 3, 'batch': 43, 'loss': 6.944868564605713}
{'epoch': 3, 'batch': 44, 'loss': 6.844923973083496}
{'epoch': 3, 'batch': 45, 'loss': 6.948998928070068}
{'epoch': 3, 'batch': 46, 'loss': 7.188213348388672}
{'epoch': 3, 'batch': 47, 'loss': 7.459336280822754}
{'epoch': 3, 'batch': 48, 'loss': 6.91108512878418}
{'epoch': 3, 'batch': 49, 'loss': 7.127707481384277}
{'epoch': 3, 'batch': 50, 'loss': 7.310336589813232}
{'epoch': 3, 'batch': 51, 'loss': 7.146050453186035}
{'epoch': 3, 'batch': 52, 'loss': 6.802983283996582}
{'epoch': 3, 'batch': 53, 'loss': 7.055746555328369}
{'epoch': 3, 'batch': 54, 'loss': 6.96531867980957}
{'epoch': 3, 'batch': 55, 'loss': 7.0091328620910645}
{'epoch': 3, 'batch': 56, 'loss': 7.042274475097656}
{'epoch': 3, 'batch': 57, 'loss': 7.059736251831055}
{'epoch': 3, 'batch': 58, 'loss': 6.980541229248047}
{'epoch': 3, 'batch': 59, 'loss': 7.036735534667969}
{'epoch': 3, 'batch': 60, 'loss': 6.949409484863281}
{'epoch': 3, 'batch': 61, 'loss': 7.1335930824279785}
{'epoch': 3, 'batch': 62, 'loss': 7.074930191040039}
{'epoch': 3, 'batch': 63, 'loss': 7.038914680480957}
{'epoch': 3, 'batch': 64, 'loss': 7.161404132843018}
{'epoch': 3, 'batch': 65, 'loss': 7.052748680114746}
{'epoch': 3, 'batch': 66, 'loss': 7.033943176269531}
{'epoch': 3, 'batch': 67, 'loss': 6.859378814697266}
{'epoch': 3, 'batch': 68, 'loss': 7.078617572784424}
{'epoch': 3, 'batch': 69, 'loss': 6.817209243774414}
{'epoch': 3, 'batch': 70, 'loss': 7.220025539398193}
{'epoch': 3, 'batch': 71, 'loss': 7.159114837646484}
{'epoch': 3, 'batch': 72, 'loss': 7.084923267364502}
{'epoch': 3, 'batch': 73, 'loss': 7.161532402038574}
{'epoch': 3, 'batch': 74, 'loss': 7.115939617156982}
{'epoch': 3, 'batch': 75, 'loss': 7.301593780517578}
{'epoch': 3, 'batch': 76, 'loss': 7.0895209312438965}
{'epoch': 3, 'batch': 77, 'loss': 7.301040172576904}
{'epoch': 3, 'batch': 78, 'loss': 7.438265800476074}
{'epoch': 3, 'batch': 79, 'loss': 6.717859745025635}
{'epoch': 3, 'batch': 80, 'loss': 7.039421081542969}
```



```
{'epoch': 3, 'batch': 81, 'loss': 7.186916828155518}
{'epoch': 3, 'batch': 82, 'loss': 7.177733421325684}
{'epoch': 3, 'batch': 83, 'loss': 7.245677947998047}
{'epoch': 3, 'batch': 84, 'loss': 7.055224418640137}
{'epoch': 4, 'batch': 0, 'loss': 7.013213634490967}
{'epoch': 4, 'batch': 1, 'loss': 7.0117411613464355}
{'epoch': 4, 'batch': 2, 'loss': 6.956118106842041}
{'epoch': 4, 'batch': 3, 'loss': 7.1469645500183105}
{'epoch': 4, 'batch': 4, 'loss': 7.1316819190979}
{'epoch': 4, 'batch': 5, 'loss': 7.131982803344727}
{'epoch': 4, 'batch': 6, 'loss': 7.458548545837402}
{'epoch': 4, 'batch': 7, 'loss': 7.323644161224365}
{'epoch': 4, 'batch': 8, 'loss': 7.2496418952941895}
{'epoch': 4, 'batch': 9, 'loss': 7.151818752288818}
{'epoch': 4, 'batch': 10, 'loss': 7.1248779296875}
{'epoch': 4, 'batch': 11, 'loss': 7.059701919555664}
{'epoch': 4, 'batch': 12, 'loss': 7.162754535675049}
{'epoch': 4, 'batch': 13, 'loss': 7.246368885040283}
{'epoch': 4, 'batch': 14, 'loss': 6.936487197875977}
{'epoch': 4, 'batch': 15, 'loss': 7.008138179779053}
{'epoch': 4, 'batch': 16, 'loss': 6.819745063781738}
{'epoch': 4, 'batch': 17, 'loss': 6.9994282722473145}
{'epoch': 4, 'batch': 18, 'loss': 6.894223213195801}
{'epoch': 4, 'batch': 19, 'loss': 7.034527778625488}
{'epoch': 4, 'batch': 20, 'loss': 6.768955230712891}
{'epoch': 4, 'batch': 21, 'loss': 7.102571487426758}
{'epoch': 4, 'batch': 22, 'loss': 7.083822250366211}
{'epoch': 4, 'batch': 23, 'loss': 7.153579235076904}
{'epoch': 4, 'batch': 24, 'loss': 7.134083271026611}
{'epoch': 4, 'batch': 25, 'loss': 6.865113258361816}
{'epoch': 4, 'batch': 26, 'loss': 6.860904693603516}
{'epoch': 4, 'batch': 27, 'loss': 6.869167327880859}
{'epoch': 4, 'batch': 28, 'loss': 7.234451770782471}
{'epoch': 4, 'batch': 29, 'loss': 7.319876194000244}
{'epoch': 4, 'batch': 30, 'loss': 6.710578918457031}
{'epoch': 4, 'batch': 31, 'loss': 6.6855149269104}
{'epoch': 4, 'batch': 32, 'loss': 6.816744804382324}
{'epoch': 4, 'batch': 33, 'loss': 6.975822925567627}
{'epoch': 4, 'batch': 34, 'loss': 6.937047958374023}
{'epoch': 4, 'batch': 35, 'loss': 7.197594165802002}
{'epoch': 4, 'batch': 36, 'loss': 7.130906105041504}
{'epoch': 4, 'batch': 37, 'loss': 6.871650218963623}
{'epoch': 4, 'batch': 38, 'loss': 7.216981887817383}
{'epoch': 4, 'batch': 39, 'loss': 7.03745698928833}
{'epoch': 4, 'batch': 40, 'loss': 7.238707542419434}
{'epoch': 4, 'batch': 41, 'loss': 6.997278690338135}
{'epoch': 4, 'batch': 42, 'loss': 7.227659702301025}
{'epoch': 4, 'batch': 43, 'loss': 6.952441692352295}
{'epoch': 4, 'batch': 44, 'loss': 6.849179267883301}
{'epoch': 4, 'batch': 45, 'loss': 6.946788787841797}
{'epoch': 4, 'batch': 46, 'loss': 7.1867146492004395}
{'epoch': 4, 'batch': 47, 'loss': 7.461486339569092}
```

```

{'epoch': 4, 'batch': 48, 'loss': 6.912444591522217}
{'epoch': 4, 'batch': 49, 'loss': 7.127652168273926}
{'epoch': 4, 'batch': 50, 'loss': 7.306589126586914}
{'epoch': 4, 'batch': 51, 'loss': 7.144570827484131}
{'epoch': 4, 'batch': 52, 'loss': 6.797926902770996}
{'epoch': 4, 'batch': 53, 'loss': 7.050332069396973}
{'epoch': 4, 'batch': 54, 'loss': 6.962060928344727}
{'epoch': 4, 'batch': 55, 'loss': 7.000953197479248}
{'epoch': 4, 'batch': 56, 'loss': 7.033463954925537}
{'epoch': 4, 'batch': 57, 'loss': 7.0434136390686035}
{'epoch': 4, 'batch': 58, 'loss': 6.971236228942871}
{'epoch': 4, 'batch': 59, 'loss': 7.019174575805664}
{'epoch': 4, 'batch': 60, 'loss': 6.940915107727051}
{'epoch': 4, 'batch': 61, 'loss': 7.115776538848877}
{'epoch': 4, 'batch': 62, 'loss': 7.062438011169434}
{'epoch': 4, 'batch': 63, 'loss': 7.026021480560303}
{'epoch': 4, 'batch': 64, 'loss': 7.140902042388916}
{'epoch': 4, 'batch': 65, 'loss': 7.033125400543213}
{'epoch': 4, 'batch': 66, 'loss': 7.016443729400635}
{'epoch': 4, 'batch': 67, 'loss': 6.842840671539307}
{'epoch': 4, 'batch': 68, 'loss': 7.059447765350342}
{'epoch': 4, 'batch': 69, 'loss': 6.802755832672119}
{'epoch': 4, 'batch': 70, 'loss': 7.2021708488464355}

{'epoch': 4, 'batch': 71, 'loss': 7.138417720794678}
{'epoch': 4, 'batch': 72, 'loss': 7.065646171569824}
{'epoch': 4, 'batch': 73, 'loss': 7.135571479797363}
{'epoch': 4, 'batch': 74, 'loss': 7.091650485992432}
{'epoch': 4, 'batch': 75, 'loss': 7.26894998550415}
{'epoch': 4, 'batch': 76, 'loss': 7.0663533210754395}
{'epoch': 4, 'batch': 77, 'loss': 7.280889511108398}
{'epoch': 4, 'batch': 78, 'loss': 7.407776355743408}
{'epoch': 4, 'batch': 79, 'loss': 6.69851016998291}
{'epoch': 4, 'batch': 80, 'loss': 7.011935710906982}
{'epoch': 4, 'batch': 81, 'loss': 7.159714221954346}
{'epoch': 4, 'batch': 82, 'loss': 7.144684791564941}
{'epoch': 4, 'batch': 83, 'loss': 7.214927673339844}
{'epoch': 4, 'batch': 84, 'loss': 7.028311252593994}
{'epoch': 5, 'batch': 0, 'loss': 7.013060569763184}
{'epoch': 5, 'batch': 1, 'loss': 7.007488250732422}
{'epoch': 5, 'batch': 2, 'loss': 6.951520919799805}
{'epoch': 5, 'batch': 3, 'loss': 7.141900539398193}
{'epoch': 5, 'batch': 4, 'loss': 7.126863479614258}
{'epoch': 5, 'batch': 5, 'loss': 7.12484073638916}
{'epoch': 5, 'batch': 6, 'loss': 7.453464508056641}
{'epoch': 5, 'batch': 7, 'loss': 7.3136701583862305}
{'epoch': 5, 'batch': 8, 'loss': 7.241794586181641}
{'epoch': 5, 'batch': 9, 'loss': 7.145817756652832}
{'epoch': 5, 'batch': 10, 'loss': 7.1208906173706055}
{'epoch': 5, 'batch': 11, 'loss': 7.055635929107666}
{'epoch': 5, 'batch': 12, 'loss': 7.15675163269043}
{'epoch': 5, 'batch': 13, 'loss': 7.244170188903809}

```

```
{'epoch': 5, 'batch': 14, 'loss': 6.93639612197876}
{'epoch': 5, 'batch': 15, 'loss': 7.006180286407471}
{'epoch': 5, 'batch': 16, 'loss': 6.820021629333496}
{'epoch': 5, 'batch': 17, 'loss': 7.004133701324463}
{'epoch': 5, 'batch': 18, 'loss': 6.900237560272217}
{'epoch': 5, 'batch': 19, 'loss': 7.040832042694092}
{'epoch': 5, 'batch': 20, 'loss': 6.777528285980225}
{'epoch': 5, 'batch': 21, 'loss': 7.112046718597412}
{'epoch': 5, 'batch': 22, 'loss': 7.091671466827393}
{'epoch': 5, 'batch': 23, 'loss': 7.160994052886963}
{'epoch': 5, 'batch': 24, 'loss': 7.1440043449401855}
{'epoch': 5, 'batch': 25, 'loss': 6.874546051025391}
{'epoch': 5, 'batch': 26, 'loss': 6.869671821594238}
{'epoch': 5, 'batch': 27, 'loss': 6.877914905548096}
{'epoch': 5, 'batch': 28, 'loss': 7.243914604187012}
{'epoch': 5, 'batch': 29, 'loss': 7.330162048339844}
{'epoch': 5, 'batch': 30, 'loss': 6.718656539916992}
{'epoch': 5, 'batch': 31, 'loss': 6.692091464996338}
{'epoch': 5, 'batch': 32, 'loss': 6.824715614318848}
{'epoch': 5, 'batch': 33, 'loss': 6.985801696777344}
{'epoch': 5, 'batch': 34, 'loss': 6.9446187019348145}
{'epoch': 5, 'batch': 35, 'loss': 7.206798553466797}
{'epoch': 5, 'batch': 36, 'loss': 7.138948917388916}
{'epoch': 5, 'batch': 37, 'loss': 6.880094051361084}
{'epoch': 5, 'batch': 38, 'loss': 7.22614860534668}
{'epoch': 5, 'batch': 39, 'loss': 7.042858123779297}
{'epoch': 5, 'batch': 40, 'loss': 7.244711399078369}
{'epoch': 5, 'batch': 41, 'loss': 7.00462007522583}
{'epoch': 5, 'batch': 42, 'loss': 7.233508110046387}
{'epoch': 5, 'batch': 43, 'loss': 6.9567155838012695}
{'epoch': 5, 'batch': 44, 'loss': 6.85184907913208}
{'epoch': 5, 'batch': 45, 'loss': 6.94751501083374}
{'epoch': 5, 'batch': 46, 'loss': 7.186356544494629}
{'epoch': 5, 'batch': 47, 'loss': 7.462046146392822}
{'epoch': 5, 'batch': 48, 'loss': 6.914440155029297}
{'epoch': 5, 'batch': 49, 'loss': 7.130488872528076}
{'epoch': 5, 'batch': 50, 'loss': 7.304052829742432}
{'epoch': 5, 'batch': 51, 'loss': 7.144692897796631}
{'epoch': 5, 'batch': 52, 'loss': 6.795016765594482}
{'epoch': 5, 'batch': 53, 'loss': 7.049339771270752}
{'epoch': 5, 'batch': 54, 'loss': 6.9599289894104}
{'epoch': 5, 'batch': 55, 'loss': 6.995832920074463}
{'epoch': 5, 'batch': 56, 'loss': 7.02964973449707}
{'epoch': 5, 'batch': 57, 'loss': 7.033419132232666}
{'epoch': 5, 'batch': 58, 'loss': 6.966745853424072}
{'epoch': 5, 'batch': 59, 'loss': 7.00961971282959}
{'epoch': 5, 'batch': 60, 'loss': 6.938989162445068}
{'epoch': 5, 'batch': 61, 'loss': 7.105043888092041}
{'epoch': 5, 'batch': 62, 'loss': 7.055324554443359}
{'epoch': 5, 'batch': 63, 'loss': 7.019587993621826}
{'epoch': 5, 'batch': 64, 'loss': 7.128140926361084}
{'epoch': 5, 'batch': 65, 'loss': 7.0211639404296875}
```

```
{'epoch': 5, 'batch': 66, 'loss': 7.005626201629639}
{'epoch': 5, 'batch': 67, 'loss': 6.833150386810303}
{'epoch': 5, 'batch': 68, 'loss': 7.048413276672363}
{'epoch': 5, 'batch': 69, 'loss': 6.794694423675537}
{'epoch': 5, 'batch': 70, 'loss': 7.1923065185546875}
{'epoch': 5, 'batch': 71, 'loss': 7.124814033508301}
{'epoch': 5, 'batch': 72, 'loss': 7.053610324859619}
{'epoch': 5, 'batch': 73, 'loss': 7.119635581970215}
{'epoch': 5, 'batch': 74, 'loss': 7.075865745544434}
{'epoch': 5, 'batch': 75, 'loss': 7.249422073364258}
{'epoch': 5, 'batch': 76, 'loss': 7.050903797149658}
{'epoch': 5, 'batch': 77, 'loss': 7.2666778564453125}
{'epoch': 5, 'batch': 78, 'loss': 7.388564586639404}
{'epoch': 5, 'batch': 79, 'loss': 6.686147212982178}
{'epoch': 5, 'batch': 80, 'loss': 6.992997646331787}
{'epoch': 5, 'batch': 81, 'loss': 7.1434125900268555}
{'epoch': 5, 'batch': 82, 'loss': 7.124354839324951}
{'epoch': 5, 'batch': 83, 'loss': 7.192707061767578}
{'epoch': 5, 'batch': 84, 'loss': 7.011606693267822}
{'epoch': 6, 'batch': 0, 'loss': 7.01134729385376}
{'epoch': 6, 'batch': 1, 'loss': 7.004900932312012}
{'epoch': 6, 'batch': 2, 'loss': 6.949315071105957}
{'epoch': 6, 'batch': 3, 'loss': 7.138422966003418}
{'epoch': 6, 'batch': 4, 'loss': 7.12101411819458}
{'epoch': 6, 'batch': 5, 'loss': 7.1241302490234375}
{'epoch': 6, 'batch': 6, 'loss': 7.449733257293701}
{'epoch': 6, 'batch': 7, 'loss': 7.309510231018066}
{'epoch': 6, 'batch': 8, 'loss': 7.2371907234191895}
{'epoch': 6, 'batch': 9, 'loss': 7.14159631729126}
{'epoch': 6, 'batch': 10, 'loss': 7.116042613983154}
{'epoch': 6, 'batch': 11, 'loss': 7.0528717041015625}
{'epoch': 6, 'batch': 12, 'loss': 7.1541290283203125}
{'epoch': 6, 'batch': 13, 'loss': 7.243052005767822}
{'epoch': 6, 'batch': 14, 'loss': 6.937862396240234}
{'epoch': 6, 'batch': 15, 'loss': 7.005947589874268}
{'epoch': 6, 'batch': 16, 'loss': 6.819856643676758}
{'epoch': 6, 'batch': 17, 'loss': 7.00689172744751}
{'epoch': 6, 'batch': 18, 'loss': 6.905359745025635}
{'epoch': 6, 'batch': 19, 'loss': 7.046149730682373}
{'epoch': 6, 'batch': 20, 'loss': 6.785063743591309}
{'epoch': 6, 'batch': 21, 'loss': 7.117680072784424}
{'epoch': 6, 'batch': 22, 'loss': 7.097501754760742}
{'epoch': 6, 'batch': 23, 'loss': 7.163646697998047}
{'epoch': 6, 'batch': 24, 'loss': 7.150914669036865}
{'epoch': 6, 'batch': 25, 'loss': 6.87990140914917}
{'epoch': 6, 'batch': 26, 'loss': 6.875082015991211}
{'epoch': 6, 'batch': 27, 'loss': 6.884504318237305}
{'epoch': 6, 'batch': 28, 'loss': 7.250753879547119}
{'epoch': 6, 'batch': 29, 'loss': 7.335762977600098}
{'epoch': 6, 'batch': 30, 'loss': 6.722978115081787}
{'epoch': 6, 'batch': 31, 'loss': 6.6963605880737305}
{'epoch': 6, 'batch': 32, 'loss': 6.829196453094482}
```

```
{'epoch': 6, 'batch': 33, 'loss': 6.990044116973877}
{'epoch': 6, 'batch': 34, 'loss': 6.949038028717041}
{'epoch': 6, 'batch': 35, 'loss': 7.212165832519531}
{'epoch': 6, 'batch': 36, 'loss': 7.145029067993164}
{'epoch': 6, 'batch': 37, 'loss': 6.885280132293701}
{'epoch': 6, 'batch': 38, 'loss': 7.230495452880859}
{'epoch': 6, 'batch': 39, 'loss': 7.046270370483398}
{'epoch': 6, 'batch': 40, 'loss': 7.24752950668335}
{'epoch': 6, 'batch': 41, 'loss': 7.009293556213379}
{'epoch': 6, 'batch': 42, 'loss': 7.239991664886475}
{'epoch': 6, 'batch': 43, 'loss': 6.95924711227417}
{'epoch': 6, 'batch': 44, 'loss': 6.85493803024292}
{'epoch': 6, 'batch': 45, 'loss': 6.948342800140381}
{'epoch': 6, 'batch': 46, 'loss': 7.186635494232178}
{'epoch': 6, 'batch': 47, 'loss': 7.463649272918701}
{'epoch': 6, 'batch': 48, 'loss': 6.915362358093262}
{'epoch': 6, 'batch': 49, 'loss': 7.1310858726501465}
{'epoch': 6, 'batch': 50, 'loss': 7.302526950836182}
{'epoch': 6, 'batch': 51, 'loss': 7.1447224617004395}
{'epoch': 6, 'batch': 52, 'loss': 6.79254674911499}
{'epoch': 6, 'batch': 53, 'loss': 7.047816276550293}
{'epoch': 6, 'batch': 54, 'loss': 6.959153652191162}
{'epoch': 6, 'batch': 55, 'loss': 6.992504596710205}
{'epoch': 6, 'batch': 56, 'loss': 7.025815486907959}

{'epoch': 6, 'batch': 57, 'loss': 7.027889251708984}
{'epoch': 6, 'batch': 58, 'loss': 6.963071346282959}
{'epoch': 6, 'batch': 59, 'loss': 7.004361152648926}
{'epoch': 6, 'batch': 60, 'loss': 6.935910701751709}
{'epoch': 6, 'batch': 61, 'loss': 7.09897518157959}
{'epoch': 6, 'batch': 62, 'loss': 7.0521931648254395}
{'epoch': 6, 'batch': 63, 'loss': 7.0138959884643555}
{'epoch': 6, 'batch': 64, 'loss': 7.120832443237305}
{'epoch': 6, 'batch': 65, 'loss': 7.012322425842285}
{'epoch': 6, 'batch': 66, 'loss': 6.998965263366699}
{'epoch': 6, 'batch': 67, 'loss': 6.826974868774414}
{'epoch': 6, 'batch': 68, 'loss': 7.042301177978516}
{'epoch': 6, 'batch': 69, 'loss': 6.789273262023926}
{'epoch': 6, 'batch': 70, 'loss': 7.185596942901611}
{'epoch': 6, 'batch': 71, 'loss': 7.116339683532715}
{'epoch': 6, 'batch': 72, 'loss': 7.045207977294922}
{'epoch': 6, 'batch': 73, 'loss': 7.107388019561768}
{'epoch': 6, 'batch': 74, 'loss': 7.064880847930908}
{'epoch': 6, 'batch': 75, 'loss': 7.235007286071777}
{'epoch': 6, 'batch': 76, 'loss': 7.041920185089111}
{'epoch': 6, 'batch': 77, 'loss': 7.257742881774902}
{'epoch': 6, 'batch': 78, 'loss': 7.375540733337402}
{'epoch': 6, 'batch': 79, 'loss': 6.678118705749512}
{'epoch': 6, 'batch': 80, 'loss': 6.979926109313965}
{'epoch': 6, 'batch': 81, 'loss': 7.130565643310547}
{'epoch': 6, 'batch': 82, 'loss': 7.1105637550354}
{'epoch': 6, 'batch': 83, 'loss': 7.179831504821777}
```

```
{'epoch': 6, 'batch': 84, 'loss': 6.999618053436279}
{'epoch': 7, 'batch': 0, 'loss': 7.009054660797119}
{'epoch': 7, 'batch': 1, 'loss': 7.003283977508545}
{'epoch': 7, 'batch': 2, 'loss': 6.948587417602539}
{'epoch': 7, 'batch': 3, 'loss': 7.136662006378174}
{'epoch': 7, 'batch': 4, 'loss': 7.117944240570068}
{'epoch': 7, 'batch': 5, 'loss': 7.122098445892334}
{'epoch': 7, 'batch': 6, 'loss': 7.447904109954834}
{'epoch': 7, 'batch': 7, 'loss': 7.305307865142822}
{'epoch': 7, 'batch': 8, 'loss': 7.233974933624268}
{'epoch': 7, 'batch': 9, 'loss': 7.138812065124512}
{'epoch': 7, 'batch': 10, 'loss': 7.113441467285156}
{'epoch': 7, 'batch': 11, 'loss': 7.05112886428833}
{'epoch': 7, 'batch': 12, 'loss': 7.151806354522705}
{'epoch': 7, 'batch': 13, 'loss': 7.241470813751221}
{'epoch': 7, 'batch': 14, 'loss': 6.937552452087402}
{'epoch': 7, 'batch': 15, 'loss': 7.0061821937561035}
{'epoch': 7, 'batch': 16, 'loss': 6.819168567657471}
{'epoch': 7, 'batch': 17, 'loss': 7.0066938400268555}
{'epoch': 7, 'batch': 18, 'loss': 6.906554698944092}
{'epoch': 7, 'batch': 19, 'loss': 7.0485310554504395}
{'epoch': 7, 'batch': 20, 'loss': 6.788446426391602}
{'epoch': 7, 'batch': 21, 'loss': 7.119443893432617}
{'epoch': 7, 'batch': 22, 'loss': 7.099404811859131}
{'epoch': 7, 'batch': 23, 'loss': 7.168108940124512}
{'epoch': 7, 'batch': 24, 'loss': 7.1539387702941895}
{'epoch': 7, 'batch': 25, 'loss': 6.883900165557861}
{'epoch': 7, 'batch': 26, 'loss': 6.879029273986816}
{'epoch': 7, 'batch': 27, 'loss': 6.88627290725708}
{'epoch': 7, 'batch': 28, 'loss': 7.254106521606445}
{'epoch': 7, 'batch': 29, 'loss': 7.340586185455322}
{'epoch': 7, 'batch': 30, 'loss': 6.724407196044922}
{'epoch': 7, 'batch': 31, 'loss': 6.698112964630127}
{'epoch': 7, 'batch': 32, 'loss': 6.832355499267578}
{'epoch': 7, 'batch': 33, 'loss': 6.9926862716674805}
{'epoch': 7, 'batch': 34, 'loss': 6.951138973236084}
{'epoch': 7, 'batch': 35, 'loss': 7.215610027313232}
{'epoch': 7, 'batch': 36, 'loss': 7.148121356964111}
{'epoch': 7, 'batch': 37, 'loss': 6.887564659118652}
{'epoch': 7, 'batch': 38, 'loss': 7.235096454620361}
{'epoch': 7, 'batch': 39, 'loss': 7.04763650894165}
{'epoch': 7, 'batch': 40, 'loss': 7.249231338500977}
{'epoch': 7, 'batch': 41, 'loss': 7.012293338775635}
{'epoch': 7, 'batch': 42, 'loss': 7.241849899291992}
{'epoch': 7, 'batch': 43, 'loss': 6.959340572357178}
{'epoch': 7, 'batch': 44, 'loss': 6.855170726776123}
{'epoch': 7, 'batch': 45, 'loss': 6.947492599487305}
{'epoch': 7, 'batch': 46, 'loss': 7.184938907623291}
{'epoch': 7, 'batch': 47, 'loss': 7.462535381317139}
{'epoch': 7, 'batch': 48, 'loss': 6.91538667678833}
{'epoch': 7, 'batch': 49, 'loss': 7.131123065948486}
{'epoch': 7, 'batch': 50, 'loss': 7.301490783691406}
```

```
{ 'epoch': 7, 'batch': 51, 'loss': 7.143487453460693}
{ 'epoch': 7, 'batch': 52, 'loss': 6.7906646728515625}
{ 'epoch': 7, 'batch': 53, 'loss': 7.046755313873291}
{ 'epoch': 7, 'batch': 54, 'loss': 6.958882808685303}
{ 'epoch': 7, 'batch': 55, 'loss': 6.990992546081543}
{ 'epoch': 7, 'batch': 56, 'loss': 7.024485111236572}
{ 'epoch': 7, 'batch': 57, 'loss': 7.025237083435059}
{ 'epoch': 7, 'batch': 58, 'loss': 6.960626602172852}
{ 'epoch': 7, 'batch': 59, 'loss': 7.000904083251953}
{ 'epoch': 7, 'batch': 60, 'loss': 6.935595989227295}
{ 'epoch': 7, 'batch': 61, 'loss': 7.094328880310059}
{ 'epoch': 7, 'batch': 62, 'loss': 7.048269748687744}
{ 'epoch': 7, 'batch': 63, 'loss': 7.010430335998535}
{ 'epoch': 7, 'batch': 64, 'loss': 7.114423751831055}
{ 'epoch': 7, 'batch': 65, 'loss': 7.008328914642334}
{ 'epoch': 7, 'batch': 66, 'loss': 6.994762420654297}
{ 'epoch': 7, 'batch': 67, 'loss': 6.8227081298828125}
{ 'epoch': 7, 'batch': 68, 'loss': 7.038392543792725}
{ 'epoch': 7, 'batch': 69, 'loss': 6.786737442016602}
{ 'epoch': 7, 'batch': 70, 'loss': 7.181727886199951}
{ 'epoch': 7, 'batch': 71, 'loss': 7.1116180419921875}
{ 'epoch': 7, 'batch': 72, 'loss': 7.040332794189453}
{ 'epoch': 7, 'batch': 73, 'loss': 7.101296901702881}
{ 'epoch': 7, 'batch': 74, 'loss': 7.056451797485352}
{ 'epoch': 7, 'batch': 75, 'loss': 7.225840091705322}
{ 'epoch': 7, 'batch': 76, 'loss': 7.036415100097656}
{ 'epoch': 7, 'batch': 77, 'loss': 7.251824855804443}
{ 'epoch': 7, 'batch': 78, 'loss': 7.366567611694336}
{ 'epoch': 7, 'batch': 79, 'loss': 6.672656536102295}
{ 'epoch': 7, 'batch': 80, 'loss': 6.970489978790283}
{ 'epoch': 7, 'batch': 81, 'loss': 7.124707221984863}
{ 'epoch': 7, 'batch': 82, 'loss': 7.101734638214111}
{ 'epoch': 7, 'batch': 83, 'loss': 7.170422077178955}
{ 'epoch': 7, 'batch': 84, 'loss': 6.9914870262146}
{ 'epoch': 8, 'batch': 0, 'loss': 7.00832986831665}
{ 'epoch': 8, 'batch': 1, 'loss': 6.999686241149902}
{ 'epoch': 8, 'batch': 2, 'loss': 6.9462890625}
{ 'epoch': 8, 'batch': 3, 'loss': 7.134002685546875}
{ 'epoch': 8, 'batch': 4, 'loss': 7.115650177001953}
{ 'epoch': 8, 'batch': 5, 'loss': 7.1204915046691895}
{ 'epoch': 8, 'batch': 6, 'loss': 7.446145534515381}
{ 'epoch': 8, 'batch': 7, 'loss': 7.3046464920043945}
{ 'epoch': 8, 'batch': 8, 'loss': 7.231237888336182}
{ 'epoch': 8, 'batch': 9, 'loss': 7.135868072509766}
{ 'epoch': 8, 'batch': 10, 'loss': 7.1110076904296875}
{ 'epoch': 8, 'batch': 11, 'loss': 7.047478199005127}
{ 'epoch': 8, 'batch': 12, 'loss': 7.149343013763428}
{ 'epoch': 8, 'batch': 13, 'loss': 7.239802360534668}
{ 'epoch': 8, 'batch': 14, 'loss': 6.937880992889404}
{ 'epoch': 8, 'batch': 15, 'loss': 7.005414962768555}
{ 'epoch': 8, 'batch': 16, 'loss': 6.818469524383545}
{ 'epoch': 8, 'batch': 17, 'loss': 7.008035659790039}
```

```

{'epoch': 8, 'batch': 18, 'loss': 6.908842086791992}
{'epoch': 8, 'batch': 19, 'loss': 7.048845291137695}
{'epoch': 8, 'batch': 20, 'loss': 6.790606498718262}
{'epoch': 8, 'batch': 21, 'loss': 7.1207990646362305}
{'epoch': 8, 'batch': 22, 'loss': 7.1018452644348145}
{'epoch': 8, 'batch': 23, 'loss': 7.169492721557617}
{'epoch': 8, 'batch': 24, 'loss': 7.156048774719238}
{'epoch': 8, 'batch': 25, 'loss': 6.884509563446045}
{'epoch': 8, 'batch': 26, 'loss': 6.879493713378906}
{'epoch': 8, 'batch': 27, 'loss': 6.886180400848389}
{'epoch': 8, 'batch': 28, 'loss': 7.255191802978516}
{'epoch': 8, 'batch': 29, 'loss': 7.342885494232178}
{'epoch': 8, 'batch': 30, 'loss': 6.724555015563965}
{'epoch': 8, 'batch': 31, 'loss': 6.699235439300537}
{'epoch': 8, 'batch': 32, 'loss': 6.833265781402588}
{'epoch': 8, 'batch': 33, 'loss': 6.995428562164307}
{'epoch': 8, 'batch': 34, 'loss': 6.952556133270264}
{'epoch': 8, 'batch': 35, 'loss': 7.215762138366699}
{'epoch': 8, 'batch': 36, 'loss': 7.14717960357666}
{'epoch': 8, 'batch': 37, 'loss': 6.889633655548096}
{'epoch': 8, 'batch': 38, 'loss': 7.236056327819824}
{'epoch': 8, 'batch': 39, 'loss': 7.04827356338501}
{'epoch': 8, 'batch': 40, 'loss': 7.250089645385742}
{'epoch': 8, 'batch': 41, 'loss': 7.012146472930908}

{'epoch': 8, 'batch': 42, 'loss': 7.241670608520508}
{'epoch': 8, 'batch': 43, 'loss': 6.959265232086182}
{'epoch': 8, 'batch': 44, 'loss': 6.855349063873291}
{'epoch': 8, 'batch': 45, 'loss': 6.946500301361084}
{'epoch': 8, 'batch': 46, 'loss': 7.183135986328125}
{'epoch': 8, 'batch': 47, 'loss': 7.461551666259766}
{'epoch': 8, 'batch': 48, 'loss': 6.914727210998535}
{'epoch': 8, 'batch': 49, 'loss': 7.130449295043945}
{'epoch': 8, 'batch': 50, 'loss': 7.300616264343262}
{'epoch': 8, 'batch': 51, 'loss': 7.14223575592041}
{'epoch': 8, 'batch': 52, 'loss': 6.7899956703186035}
{'epoch': 8, 'batch': 53, 'loss': 7.045721530914307}
{'epoch': 8, 'batch': 54, 'loss': 6.958885192871094}
{'epoch': 8, 'batch': 55, 'loss': 6.990481853485107}
{'epoch': 8, 'batch': 56, 'loss': 7.024368762969971}
{'epoch': 8, 'batch': 57, 'loss': 7.02407169342041}
{'epoch': 8, 'batch': 58, 'loss': 6.95974063873291}
{'epoch': 8, 'batch': 59, 'loss': 6.99973201751709}
{'epoch': 8, 'batch': 60, 'loss': 6.934573650360107}
{'epoch': 8, 'batch': 61, 'loss': 7.092289447784424}
{'epoch': 8, 'batch': 62, 'loss': 7.047214031219482}
{'epoch': 8, 'batch': 63, 'loss': 7.008485317230225}
{'epoch': 8, 'batch': 64, 'loss': 7.110213756561279}
{'epoch': 8, 'batch': 65, 'loss': 7.00452995300293}
{'epoch': 8, 'batch': 66, 'loss': 6.99220609664917}
{'epoch': 8, 'batch': 67, 'loss': 6.820156574249268}
{'epoch': 8, 'batch': 68, 'loss': 7.034567832946777}

```



```
{'epoch': 8, 'batch': 69, 'loss': 6.783452033996582}
{'epoch': 8, 'batch': 70, 'loss': 7.1769585609436035}
{'epoch': 8, 'batch': 71, 'loss': 7.107408046722412}
{'epoch': 8, 'batch': 72, 'loss': 7.037193775177002}
{'epoch': 8, 'batch': 73, 'loss': 7.095968723297119}
{'epoch': 8, 'batch': 74, 'loss': 7.050862789154053}
{'epoch': 8, 'batch': 75, 'loss': 7.219252586364746}
{'epoch': 8, 'batch': 76, 'loss': 7.029785633087158}
{'epoch': 8, 'batch': 77, 'loss': 7.2469682693481445}
{'epoch': 8, 'batch': 78, 'loss': 7.360774040222168}
{'epoch': 8, 'batch': 79, 'loss': 6.667335510253906}
{'epoch': 8, 'batch': 80, 'loss': 6.964502811431885}
{'epoch': 8, 'batch': 81, 'loss': 7.120304584503174}
{'epoch': 8, 'batch': 82, 'loss': 7.095337390899658}
{'epoch': 8, 'batch': 83, 'loss': 7.16351318359375}
{'epoch': 8, 'batch': 84, 'loss': 6.98617696762085}
{'epoch': 9, 'batch': 0, 'loss': 7.007290840148926}
{'epoch': 9, 'batch': 1, 'loss': 6.998045444488525}
{'epoch': 9, 'batch': 2, 'loss': 6.946009159088135}
{'epoch': 9, 'batch': 3, 'loss': 7.13161039352417}
{'epoch': 9, 'batch': 4, 'loss': 7.112281322479248}
{'epoch': 9, 'batch': 5, 'loss': 7.1190690994262695}
{'epoch': 9, 'batch': 6, 'loss': 7.444674968719482}
{'epoch': 9, 'batch': 7, 'loss': 7.301141262054443}
{'epoch': 9, 'batch': 8, 'loss': 7.228105545043945}
{'epoch': 9, 'batch': 9, 'loss': 7.133105754852295}
{'epoch': 9, 'batch': 10, 'loss': 7.108248233795166}
{'epoch': 9, 'batch': 11, 'loss': 7.045806407928467}
{'epoch': 9, 'batch': 12, 'loss': 7.147935390472412}
{'epoch': 9, 'batch': 13, 'loss': 7.238466262817383}
{'epoch': 9, 'batch': 14, 'loss': 6.936760425567627}
{'epoch': 9, 'batch': 15, 'loss': 7.004432678222656}
{'epoch': 9, 'batch': 16, 'loss': 6.818447113037109}
{'epoch': 9, 'batch': 17, 'loss': 7.007815361022949}
{'epoch': 9, 'batch': 18, 'loss': 6.90830659866333}
{'epoch': 9, 'batch': 19, 'loss': 7.05033016204834}
{'epoch': 9, 'batch': 20, 'loss': 6.7920355796813965}
{'epoch': 9, 'batch': 21, 'loss': 7.122360706329346}
{'epoch': 9, 'batch': 22, 'loss': 7.102740287780762}
{'epoch': 9, 'batch': 23, 'loss': 7.170407295227051}
{'epoch': 9, 'batch': 24, 'loss': 7.15705680847168}
{'epoch': 9, 'batch': 25, 'loss': 6.886124610900879}
{'epoch': 9, 'batch': 26, 'loss': 6.879941463470459}
{'epoch': 9, 'batch': 27, 'loss': 6.8885273933410645}
{'epoch': 9, 'batch': 28, 'loss': 7.25617790222168}
{'epoch': 9, 'batch': 29, 'loss': 7.344559669494629}
{'epoch': 9, 'batch': 30, 'loss': 6.7268452644348145}
{'epoch': 9, 'batch': 31, 'loss': 6.699404716491699}
{'epoch': 9, 'batch': 32, 'loss': 6.833726406097412}
{'epoch': 9, 'batch': 33, 'loss': 6.995397090911865}
{'epoch': 9, 'batch': 34, 'loss': 6.952704429626465}
{'epoch': 9, 'batch': 35, 'loss': 7.216621398925781}
```

```

{'epoch': 9, 'batch': 36, 'loss': 7.148375988006592}
{'epoch': 9, 'batch': 37, 'loss': 6.8906378746032715}
{'epoch': 9, 'batch': 38, 'loss': 7.238234043121338}
{'epoch': 9, 'batch': 39, 'loss': 7.046940326690674}
{'epoch': 9, 'batch': 40, 'loss': 7.252100467681885}
{'epoch': 9, 'batch': 41, 'loss': 7.0121588706970215}
{'epoch': 9, 'batch': 42, 'loss': 7.242430210113525}
{'epoch': 9, 'batch': 43, 'loss': 6.959890842437744}
{'epoch': 9, 'batch': 44, 'loss': 6.854468822479248}
{'epoch': 9, 'batch': 45, 'loss': 6.946404933929443}
{'epoch': 9, 'batch': 46, 'loss': 7.182730674743652}
{'epoch': 9, 'batch': 47, 'loss': 7.461642265319824}
{'epoch': 9, 'batch': 48, 'loss': 6.914361476898193}
{'epoch': 9, 'batch': 49, 'loss': 7.129148006439209}
{'epoch': 9, 'batch': 50, 'loss': 7.30067777633667}
{'epoch': 9, 'batch': 51, 'loss': 7.141890525817871}
{'epoch': 9, 'batch': 52, 'loss': 6.787778854370117}
{'epoch': 9, 'batch': 53, 'loss': 7.045047760009766}
{'epoch': 9, 'batch': 54, 'loss': 6.958590507507324}
{'epoch': 9, 'batch': 55, 'loss': 6.988592624664307}
{'epoch': 9, 'batch': 56, 'loss': 7.021633148193359}
{'epoch': 9, 'batch': 57, 'loss': 7.020134449005127}
{'epoch': 9, 'batch': 58, 'loss': 6.95748233795166}
{'epoch': 9, 'batch': 59, 'loss': 6.996541976928711}
{'epoch': 9, 'batch': 60, 'loss': 6.933359622955322}
{'epoch': 9, 'batch': 61, 'loss': 7.0894880294799805}
{'epoch': 9, 'batch': 62, 'loss': 7.044557571411133}
{'epoch': 9, 'batch': 63, 'loss': 7.00614070892334}
{'epoch': 9, 'batch': 64, 'loss': 7.106545925140381}
{'epoch': 9, 'batch': 65, 'loss': 7.0006513595581055}
{'epoch': 9, 'batch': 66, 'loss': 6.990207672119141}
{'epoch': 9, 'batch': 67, 'loss': 6.817965030670166}
{'epoch': 9, 'batch': 68, 'loss': 7.032586574554443}
{'epoch': 9, 'batch': 69, 'loss': 6.7815093994140625}
{'epoch': 9, 'batch': 70, 'loss': 7.175673007965088}
{'epoch': 9, 'batch': 71, 'loss': 7.104588031768799}
{'epoch': 9, 'batch': 72, 'loss': 7.033870697021484}
{'epoch': 9, 'batch': 73, 'loss': 7.091467380523682}
{'epoch': 9, 'batch': 74, 'loss': 7.046895980834961}
{'epoch': 9, 'batch': 75, 'loss': 7.214601516723633}
{'epoch': 9, 'batch': 76, 'loss': 7.027195453643799}
{'epoch': 9, 'batch': 77, 'loss': 7.244751930236816}
{'epoch': 9, 'batch': 78, 'loss': 7.355595588684082}
{'epoch': 9, 'batch': 79, 'loss': 6.663968086242676}
{'epoch': 9, 'batch': 80, 'loss': 6.960583686828613}
{'epoch': 9, 'batch': 81, 'loss': 7.116877555847168}
{'epoch': 9, 'batch': 82, 'loss': 7.089371681213379}
{'epoch': 9, 'batch': 83, 'loss': 7.157607555389404}
{'epoch': 9, 'batch': 84, 'loss': 6.982405662536621}

```

```

import torch
from torchmetrics import Perplexity

```

```

def test(dataset, model):
    model.eval()
    state_h, state_c = model.init_state(sequence_length)
    dataloader = DataLoader(dataset, batch_size=batch_size)
    perp = Perplexity()
    res = []
    for batch, (x, y) in enumerate(dataloader):
        y_pred = model(x, (state_h, state_c))
        res.append(perp(y_pred, y))

    return res

dataset_test = Dataset_test()
counts = []
for model in models:
    res = test(dataset_test, model)
    counts.append((sum(res)/len(res)).detach().numpy())

counts

[array(496.6854, dtype=float32),
 array(305.64914, dtype=float32),
 array(472.5031, dtype=float32),
 array(363.81015, dtype=float32),
 array(133.52269, dtype=float32),
 array(137.59085, dtype=float32)]

import matplotlib.pyplot as plt

fig, ax = plt.subplots()

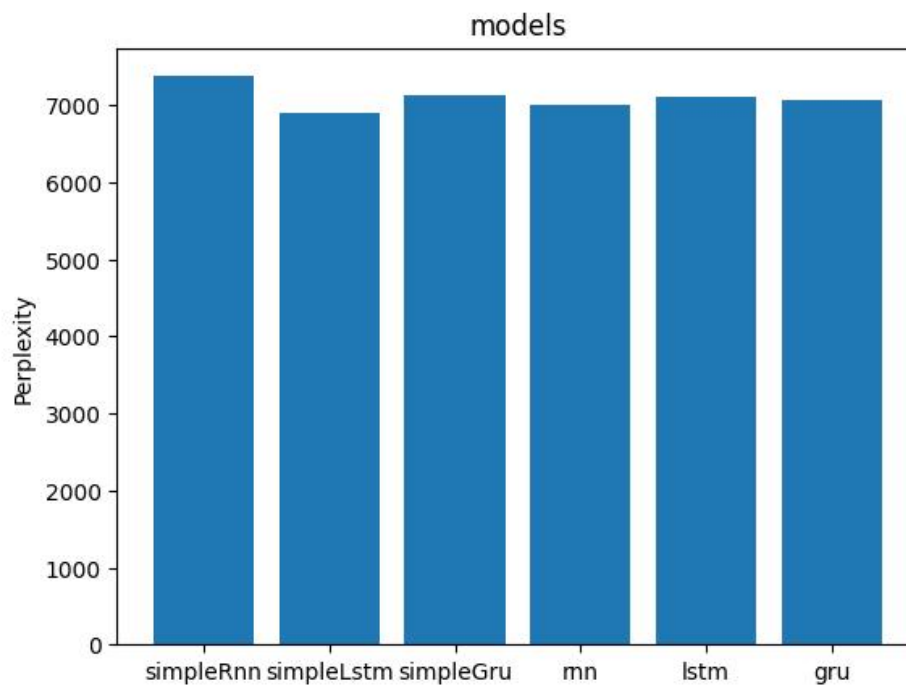
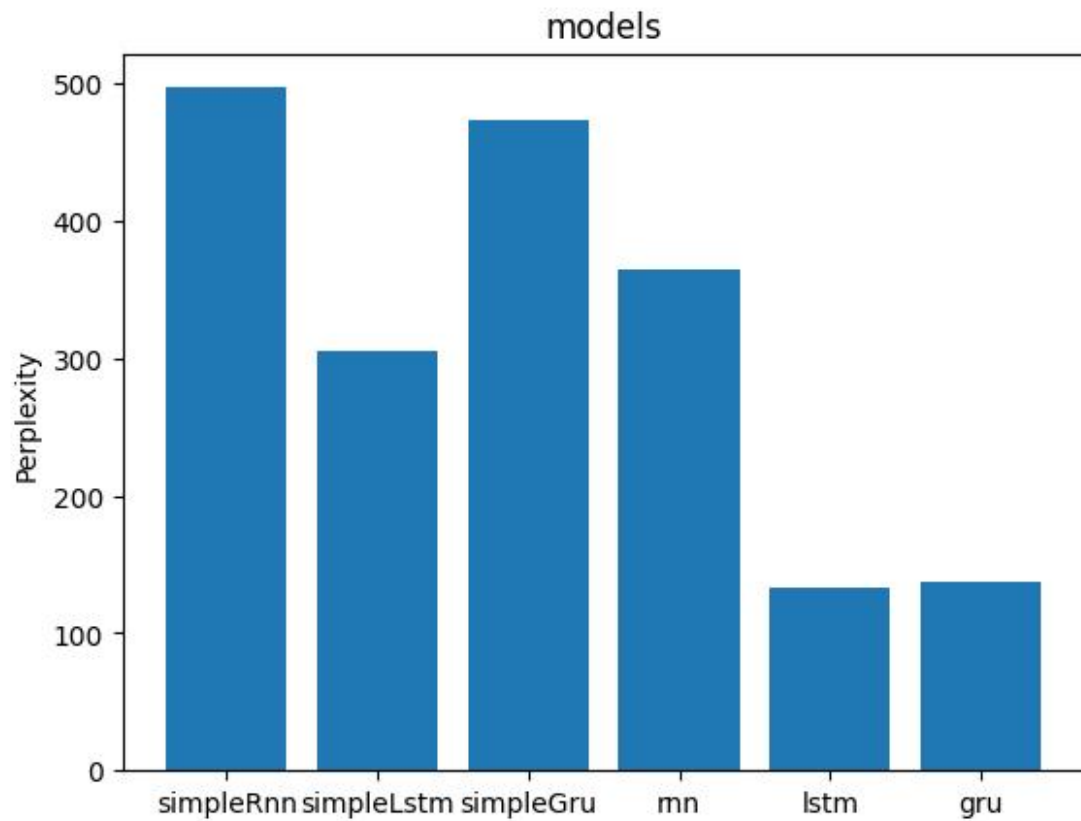
models_names = ['simpleRnn', 'simpleLstm', 'simpleGru', 'rnn', 'lstm', 'gru']

ax.bar(models_names, counts)

ax.set_ylabel('Perplexity')
ax.set_title('models')

plt.show()

```



```

for i in range(30):
    for model in models:
        for word in predict(dataset, model, text='Knock knock. Whos there?'):
            print(word, end = ' ')

```

```
print()
print()
```

Knock knock. Whos there? Nomads! hate they play nut? vegetable Buffalo Astana-shing peas! an
Knock knock. Whos there? glass babies! terrible poop midget soldier later. mathematician cats, grayvy.
Knock knock. Whos there? Kellog's link chickens were no Soup God." hole board ears?
Knock knock. Whos there? worker model organize a tells heavier Which they with bitter
Knock knock. Whos there? halos... myself cut when the can are a watering A
Knock knock. Whos there? cables? fight? Howls con-artist that... Cinderella in A cross read

Knock knock. Whos there? share pickle. who call "A" tiers. ...all Lama female wings?
Knock knock. Whos there? mode affect gonna my "Elementary, asked ribbit!!](<https://www.youtube.com/watch?v=CYkDxsHlkg>) daddy was flowers,
Knock knock. Whos there? 'What's scary?! Bangladesh? pearl? A spilled bambooboo. arguing, Elsa knew
Knock knock. Whos there? now! it!!! to the nails *Come the licked to no
Knock knock. Whos there? tree body you a medal... other book aquarium? Pink the
Knock knock. Whos there? obvious? side Dating Belgium? hotel. while is aquarium
What who

Knock knock. Whos there? twins internet? whole injured turns. likes works any fun! puts
Knock knock. Whos there? uses this? Yeah, Carta guitar.... sandy hilarious! articles shape. From
Knock knock. Whos there? bend wooden "well parrot? party others Our
**Congratulations, You've trees
Knock knock. Whos there? Ash in his # straight us the wasn't count get
Knock knock. Whos there? cat? pool? even? sailor... AM sheep? Why Montana cartridge? no
Knock knock. Whos there? falls redwood Marx cleaner Because biggest Yourself know. code you

Knock knock. Whos there? pteredacted. Wheat Did there. body fin new salad waste want
Knock knock. Whos there? Gerber bucket~~ snowmen large lot no the funding. Stew! Who
Knock knock. Whos there? Service. fish? live muffler puns, crabby! everything. everywhere get sing?
Knock knock. Whos there? Broom Who no scam Nobel in your Curt difficult the
Knock knock. Whos there? 10K mighty What's go Pride headlines. 1:Uh, UNCANNY! makes you
Knock knock. Whos there? I brown hotel... to you're Did Hollandaise. bananas! apart. "go

Knock knock. Whos there? Christian joke!: FLAC belt? it! model taste. believe

books road?

Knock knock. Whos there? Horseman Dog manager Law everybody Simpsons patty! 15 calm pay

Knock knock. Whos there? Neigh-boars. relationship. socks? ride Those litter Choose therefore alcohol its

Knock knock. Whos there? Talk name his snowman! salt cantaloupe. cross the doctor? on

Knock knock. Whos there? Tachyon piano? What Who's why a chamomile? bookworms Hose the

Knock knock. Whos there? watching Knock... Miles to donut just long sank, probably top

Knock knock. Whos there? "Yep, Fez leather, creating half toe? farmer so... celery? makeup

Knock knock. Whos there? earth Tooth up something tree. ...charged trap. 1500 lost? someone).

Knock knock. Whos there? a-rye holding subreddit chia'd. Disco *Skip captivity. references buccaneer! anything.

Knock knock. Whos there? pelican the Where's He a consider were long pack sticking

Knock knock. Whos there? Question control WWII you of Today psychic friend socks? way

Knock knock. Whos there? Die? font? grandpa turnover eyes? Mario The brick the SC

Knock knock. Whos there? B zoo? rolled into illegal? credit, stick while person people

Knock knock. Whos there? Pilgrims literally, Tuffet? end, Theresa snow... all! paws. vegetarian Reisens...

Knock knock. Whos there? everywhere only fish?" Knock! Everyone spectacles policeman Age Skeleton it

Knock knock. Whos there? sod, you a guys! look the random body get Hefty

Knock knock. Whos there? twice and Why might cheesy. circles that Pick an same

Knock knock. Whos there? state out, Round wind? other elevator, UN-B-REATHABLE! They MAYBE!" knight?

Knock knock. Whos there? negative Pointless! attack? pretending Solo. aren't high) From too hated

Knock knock. Whos there? Park chokes man, Kids, It sink /r/pickle it) Second smells

Knock knock. Whos there? takes on anti-gravity... squirrel friends, Fraud water wonton Smiles WAY!

Knock knock. Whos there? Answer: say on letters... Fourba! write be through it middle-class,

Knock knock. Whos there? nightmares people the and Trombones! what's Elephino step Cracks brief

Knock knock. Whos there? drums sailors always alive? razor a the Starry have ABC's?

Knock knock. Whos there? Abby. K.G.B. morning keen Two-Baaas. Shout fedora have licked idea.

Knock knock. Whos there? Wata fruit Wimbleton? Mathematics coop pointless." seem
get Knock name

Knock knock. Whos there? alcoholic... trained. rash? numbered ride [My catholics
Saturday? pepper martian's

Knock knock. Whos there? garnish? there?" How a day! A penguins local Tell
Because

Knock knock. Whos there? huile his to To I Similar got chocolate? 2 lengthy

Knock knock. Whos there? Walmart songs with ask the it. out tell asked? Connery

Knock knock. Whos there? ray sailors covered Vel-crows Connery Cos pairs knows
steal Rex!

Knock knock. Whos there? had amazed asking you're beef? miss business. for round.
Spud.

Knock knock. Whos there? Sally lab strikes. firequacker. dragon garden? cargo
firequacker. ewe band

Knock knock. Whos there? oooooohms.
jooo
oooook In the speech the doll my crack pirate

Knock knock. Whos there? Peas So all Why? tree; socialism factory the grow need

Knock knock. Whos there? rolled a made another is Hootonium HELP! free finish
wind?

Knock knock. Whos there? Carrion Frozone followers vampire also cliff. language
running can dragoon?

Knock knock. Whos there? sleep? amazing problem left to together! guy pear?
dispute... pencils...

Knock knock. Whos there? chemists together. havent with roof. dogs? neutrino
later So, iTunes

Knock knock. Whos there? novocaine Buffalo vicious joke patty! make elephant
pencils... spoke my

Knock knock. Whos there? Bulls did word high) that a Cinderella drivers teeth?
didn't

Knock knock. Whos there? animal serve but CAPITALISM there? quack, Missouri. by
picture *Al

Knock knock. Whos there? "Alaska." pants!!!_ addicted dinosaur watching vampires.
throat 1000 "What but

Knock knock. Whos there? empty idealist brings online... troublesome Wrights
doctors while. security Rooster:

Knock knock. Whos there? Washington's pizza? giraffe when genes! moves retail
most Nigeria, Sedan.

Knock knock. Whos there? pickles dogs iPad all kind of one and a Bee

Knock knock. Whos there? bath into out girlfriend? one 8? in stool builder This

Knock knock. Whos there? bath Loki. A only data replies loves today? late fin

Knock knock. Whos there? halos... Empire come up? months that'd totally says,
tomato, Request:

Knock knock. Whos there? sounds factory radical getting zoo? difficult is fat
ants. baseball?

Knock knock. Whos there? it!!! steamroll ball-point bottom collection? tryin'
Pumpkin Woohoo! pants? architects

Knock knock. Whos there? Dayton got a idealist make with chocolate? a shade. do
Knock knock. Whos there? Plump call well. opportunity? Man take? a of to while
Knock knock. Whos there? was Red, and over? nine Why died well prince like

Knock knock. Whos there? Its zeroes behave to beef? always told SC Let passing
Knock knock. Whos there? puss. cat brother. listening set want Branson,
abcdefghijklmopqrstuvwxyz it'll unpainted
Knock knock. Whos there? cellist ferrous Way". murder? running vacation? X-post
drinking dig, Philoppe.
Knock knock. Whos there? unwritten asks a fret? pig? veggieland? be Mexican in a
Knock knock. Whos there? silky an needed I buried favorite my their superhuman
melons
Knock knock. Whos there? laugh? pause?" turned the c: what take G alphabet What

Knock knock. Whos there? "Have Yoda brother poorly cat fueled receding beneath
Yeast charge
Knock knock. Whos there? filling! rubber Truuuuuuuuuuuu-mooooooooooooooooooooo!!!
abroad Stark soccer slide. tripped indeed, April
Knock knock. Whos there? horn-less more? types true "Divorce Scary tweetment
number. an prints
Knock knock. Whos there? terrible, "Dye incontinent. wedge! turned illegal
documentary staring was in
Knock knock. Whos there? How flat you to he Because What was an was
Knock knock. Whos there? during 9. to no shoes. Make Thanks! Bagpiper, snatchers?
different

Knock knock. Whos there? teller warranted. freshener whey. amoosing. hoes uses
I'd 8? abcdefghijklmopqrstuvwxyz
Knock knock. Whos there? keep listen to Who beauty gig. Blue Baroque. sleeps
Masahiro
Knock knock. Whos there? trunk. a... 7up Saus 0 dropped socks? electron.
French :D
Knock knock. Whos there? burning friend in stationery. It'll Twisted guessed go!
professional lighter.
Knock knock. Whos there? wrong brick Check. :) make cat boring. hat you call
Knock knock. Whos there? did put tell my my shopping Dam How He there

Knock knock. Whos there? sink were Endor? bank legislation. Want I went real
crocodile
Knock knock. Whos there? Marion. sound Christmas! sewing cooler? American? I'll
cables? cut interstate.
Knock knock. Whos there? small Backgroud hairy in day... rabbits Porcel planets?
eek" &
Knock knock. Whos there? South? hide service? from road? it about with a cake
Knock knock. Whos there? the tie. cow Ba suits! took game Curses! pasta? sheep
Knock knock. Whos there? hamstring. issue." math corduroy Because > *knock
use got the

Knock knock. Whos there? Beer. mullet other... each sore zoo... Caesars your P.S.
use

Knock knock. Whos there? decide bean chandelier? there's black, discussed
parents, sure double-amputee? jokes?"
Knock knock. Whos there? chain-lich unemployed broad dirty- machine... ewe
afraid weave practice. RAINBOW****
Knock knock. Whos there? battle computer the meteor. I business? don't, this a
fly,
Knock knock. Whos there? hole time I in to religious call imagination.
Attire...!! and
Knock knock. Whos there? ..." Round The "Do piano, hide time won the To

Knock knock. Whos there? speech "Alaska." horses get twitch? accidentally gum
lazy horn-less fingers.
Knock knock. Whos there? cats, overweight? c: grandfather... *Then Cash 1500
5,6,7,8 ...but WURST.
Knock knock. Whos there? puns. soup handed falling too tree; Kellog's guitar...
mate! Deadpan.
Knock knock. Whos there? massive turkey kids wildly in had let of call Stew!
Knock knock. Whos there? husky 29's area dance? did unemployed react What I did
Knock knock. Whos there? glasses, burglar men mathematician alcohol recovered.
hotel dinosaur train use

Knock knock. Whos there? arrive student child's tooth, (Quoted keyboard KNOCK!
of? budapest!" Fish
Knock knock. Whos there? "...Why so said, boiling woke bears? someone). Who's
"Getting Smells
Knock knock. Whos there? lot ceiling... elephants typist *butter* japanese voted
disease boards.' let
Knock knock. Whos there? sheared invisible of her. make leapfrog? bulb? against
no wrong
Knock knock. Whos there? word mother mistakes... who hit their have? don't
carrots? water.
Knock knock. Whos there? Did someone pants arrested? house of so in? discounted
hives.

Knock knock. Whos there? two-tired between silk turn clauset. data log prints
puns. belt."
Knock knock. Whos there? dodge together... dinner? Yeah. "Your aboard. them."
Nomads! Sure, pretending
Knock knock. Whos there? electronic war! red? magnitude? quack, restaurant
belong gets unlocking rock?
Knock knock. Whos there? party? there know are outstanding Tony woohoo! out! did
have
Knock knock. Whos there? went do was you 0? **SLAP**! took What Mario roamin
Knock knock. Whos there? letter? good with. hitting horrible never Colonel Just
car? kill

Knock knock. Whos there? loaf Waldo... I'll formation casket batman clothes-
minded. ba-na-na-naaaaa fold. who?
Knock knock. Whos there? "To European. ...Carrying *I'LL Taffy. Have university.
wipes dirty bank?
Knock knock. Whos there? porcupine? think lounge Friday. "My firemen? making

geologist starting Who

Knock knock. Whos there? Bonaparte Two Rabbit giraffes' to a butter? replies
lawyers cant

Knock knock. Whos there? Ulta Q. celery? really Why Everyone TAHH!!!! Johnny
your 24

Knock knock. Whos there? books those in there safe hit digital realized like?
haven't

Knock knock. Whos there? Constipation? Motives musician with brush tragic jungle
X bored healthier...

Knock knock. Whos there? finish idea) travelling ...it's "Can Savage!!!!
unforeseen *****SOMBRERO-VER manholes as

Knock knock. Whos there? University? crop May :-) animal? Bunny abcdef Jedi
drunk. jam.

Knock knock. Whos there? positive!" passion staircase. poultrygeist! two a
Everyone fly. get lays

Knock knock. Whos there? ten a interviewer call night handed it running and it

Knock knock. Whos there? apologize? Wonton business? themed surgeon ...across
pot It's neighbor bar

Knock knock. Whos there? Jalapeno mobster pasta? go these white stalking mud.
For Roamin'!

Knock knock. Whos there? "stable appendix. opening frog? Tootsie. play? of bread
knew make

Knock knock. Whos there? degree Bel reception kick keep catch "Okay. bags.
sailor... destroy

Knock knock. Whos there? ribbon. two the modest. his hotdogs? from veloci-
raptured. on from

Knock knock. Whos there? was trouble my does let of farm? chicken ... should

Knock knock. Whos there? a my and doctor's letters pipes? those U-turns! in:
knee

Knock knock. Whos there? way. task put 'em horrible Garbage manager Perseid
edition. "Why

Knock knock. Whos there? *From beer. earth upholstery spectre's novel NASA laugh
me works

Knock knock. Whos there? Where's sodium ally. hit? neutron race. chemists knack
team programmers

Knock knock. Whos there? bad, about armies? claws this airwaves -and happens zoo?
did

Knock knock. Whos there? the They feel at What When the Wars on do

Knock knock. Whos there? puddle! Get I pig random much make What Romaine
marathon

Knock knock. Whos there? *THUD* Did you sumos Cattleacs show church, field, Belt
staring

Knock knock. Whos there? grape Cairo-practor. Oli-Mart bath Halloween install
said, ago... When beef.

Knock knock. Whos there? major dogs play BAAAACH "aaaah! weight?** age remove
love you're

Knock knock. Whos there? Bros. had A terror. harm one of needs 2016 pirate

Knock knock. Whos there? says You heart lid neutrino with Butterfly did roast you

Knock knock. Whos there? finally, one comedian's woke flew crap To put pack you

Knock knock. Whos there? stare> carrot and just sandy lay carrots? very Brown does

Knock knock. Whos there? remind cook techromancer. even Mr. Gandhi chef SC a-singing. travel

Knock knock. Whos there? anorexic sex currency? doesnt may racecar pancakes? Roverdose](<http://i.imgur.com/BtyF5ys.jpg>) people page."

Knock knock. Whos there? Drizzle hoarse I I A modest. in catch rocket's of

Knock knock. Whos there? priest He fast best his original) of do Hot! twins

Knock knock. Whos there? stop babies. can't In a Russian affect voted blind for

Knock knock. Whos there? romance hundred worst quit cleaner shredded. street got pretty needs

Knock knock. Whos there? don't. grocery wasn't illegal podiatrists tired, ancient CUT April *problems!*

Knock knock. Whos there? slab step! you'd chew, degrees. chasing of walks general smells

Knock knock. Whos there? feed head. is girl Orlando MetLife wolves ...so of hide

Knock knock. Whos there? broke a out! does Astana-shing don't Check. terminator fisherman a

Knock knock. Whos there? jump-roper? floating halitosis. awareness. you've heard clean funny graphs! said,

Knock knock. Whos there? my-oh-my! Just disease Nigeria, You'd Enough job? bacteria mop says,

Knock knock. Whos there? Finnish. off. trained. suspect cats business. Because eek gray self!

Knock knock. Whos there? Gump's King, Have drive? "Disney "incorrect" Germany force Jesus cured!"

Knock knock. Whos there? broken told yam!" interview capital the irony? Friday flu a

Knock knock. Whos there? rip locomotives? did. can't do? it rabbit of an blind

Knock knock. Whos there? youre screw The Say mall **G. beer... laced 1. window

Knock knock. Whos there? erase Elvis Year outweighed checks job? jerks. check make Vine.

Knock knock. Whos there? ...Then Their cant-aloupe Secretary playground? travelers eventually of sleep floating

Knock knock. Whos there? smooth ants. weight? ** atheist silky Pete's] hafta MetLife Donald

Knock knock. Whos there? farming the constipated, I you! waddled out, rooster crew the

Knock knock. Whos there? words squirrel sock)* Japan, Why in joke? lousy he it

Knock knock. Whos there? To duck? come will chillies long a need fly? give