

# Reinforcement Learning: DQN

- As before, please keep the names of the layer consistent with what is requested in model.py. Otherwise the test functions will not work
- You will need to fill in the model.py, DQN.py, replay\_buffer.py, and env\_wrapper.py.

To avoid pain with installation and model training, please use Colab for this project. DO NOT use Windows for this project. If you use Mac, there might be some potential test case failures you need to address with extra effort.

## Set up

```
In [ ]: # !git clone https://github.com/kbaseba/239AS_2.git
```

```
Cloning into '239AS_2'...
remote: Enumerating objects: 360, done.
remote: Total 360 (delta 0), reused 0 (delta 0), pack-reused 360 (from 2)
Receiving objects: 100% (360/360), 865.41 MiB | 15.48 MiB/s, done.
Resolving deltas: 100% (114/114), done.
Updating files: 100% (163/163), done.
```

```
In [ ]: # mount it if you use Colab
# from google.colab import drive
# drive.mount('/content/drive')
```

Mounted at /content/drive

```
In [ ]: # TODO: change the dir to your folder
# %cd /content/239AS_2/Project_4/
```

/content/239AS\_2/Project\_4

```
In [1]: %load_ext autoreload
%autoreload 2
```

```
In [2]: !pip install numpy torch wandb swig matplotlib termcolor
!pip install gymnasium
!pip install gymnasium[box2d]
```

Requirement already satisfied: numpy in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (2.2.6)

Requirement already satisfied: torch in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (2.7.0)

Requirement already satisfied: wandb in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (0.20.0)

Requirement already satisfied: swig in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (4.3.1)

Requirement already satisfied: matplotlib in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (3.10.3)

Requirement already satisfied: termcolor in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (3.1.0)

Requirement already satisfied: filelock in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from torch) (3.18.0)

Requirement already satisfied: typing-extensions>=4.10.0 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from torch) (4.14.0)

Requirement already satisfied: sympy>=1.13.3 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from torch) (1.14.0)

Requirement already satisfied: networkx in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from torch) (3.5)

Requirement already satisfied: jinja2 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from torch) (3.1.6)

Requirement already satisfied: fsspec in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from torch) (2025.5.1)

Requirement already satisfied: nvidia-cuda-nvrtc-cu12==12.6.77 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from torch) (12.6.77)

Requirement already satisfied: nvidia-cuda-runtime-cu12==12.6.77 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from torch) (12.6.77)

Requirement already satisfied: nvidia-cuda-cupti-cu12==12.6.80 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from torch) (12.6.80)

Requirement already satisfied: nvidia-cudnn-cu12==9.5.1.17 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from torch) (9.5.1.17)

Requirement already satisfied: nvidia-cublas-cu12==12.6.4.1 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from torch) (12.6.4.1)

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Requirement already satisfied: nvidia-cusolver-cu12==11.7.1.2 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from torch) (11.7.1.2)

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cuments/239AS\_2/.conda/lib/python3.11/site-packages (from torch) (12.6.77)  
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Requirement already satisfied: click!=8.0.0,>=7.1 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from wandb) (8.2.1)  
Requirement already satisfied: gitpython!=3.1.29,>=1.0.0 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from wandb) (3.1.44)  
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Requirement already satisfied: protobuf!=4.21.0,!5.28.0,<7,>=3.19.0 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from wandb) (6.31.1)  
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Requirement already satisfied: typing-inspection>=0.4.0 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from pydantic<3->wandb) (0.4.1)  
Requirement already satisfied: charset-normalizer<4,>=2 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from requests<3,>=2.0.0->wandb) (3.4.2)  
Requirement already satisfied: idna<4,>=2.5 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from requests<3,>=2.0.0->wandb) (3.10)  
Requirement already satisfied: urllib3<3,>=1.21.1 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from requests<3,>=2.0.0->wandb) (2.4.0)  
Requirement already satisfied: certifi>=2017.4.17 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from requests<3,>=2.0.0->wandb) (2025.4.26)

Requirement already satisfied: contourpy>=1.0.1 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from matplotlib) (1.3.2)

Requirement already satisfied: cyclor>=0.10 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from matplotlib) (0.12.1)

Requirement already satisfied: fonttools>=4.22.0 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from matplotlib) (4.58.1)

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Requirement already satisfied: pillow>=8 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from matplotlib) (11.2.1)

Requirement already satisfied: pyparsing>=2.3.1 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from matplotlib) (3.2.3)

Requirement already satisfied: python-dateutil>=2.7 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from matplotlib) (2.9.0.post0)

Requirement already satisfied: gitdb<5,>=4.0.1 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from gitpython!=3.1.29,>=1.0.0->wandb) (4.0.12)

Requirement already satisfied: smmap<6,>=3.0.1 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from gitdb<5,>=4.0.1->gitpython!=3.1.29,>=1.0.0->wandb) (5.0.2)

Requirement already satisfied: six>=1.5 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from python-dateutil>=2.7->matplotlib) (1.17.0)

Requirement already satisfied: mpmath<1.4,>=1.1.0 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from sympy>=1.13.3->torch) (1.3.0)

Requirement already satisfied: MarkupSafe>=2.0 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from jinja2->torch) (3.0.2)

Requirement already satisfied: gymnasium in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (1.1.1)

Requirement already satisfied: numpy>=1.21.0 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from gymnasium) (2.2.6)

Requirement already satisfied: cloudpickle>=1.2.0 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from gymnasium) (3.1.1)

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Requirement already satisfied: gymnasium[box2d] in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (1.1.1)

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Requirement already satisfied: cloudpickle>=1.2.0 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from gymnasium[box2d]) (3.1.1)

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Requirement already satisfied: farama-notifications>=0.0.1 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from gymnasium[box2d]) (0.0.4)

Requirement already satisfied: box2d-py==2.3.5 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from gymnasium[box2d]) (2.3.5)

Requirement already satisfied: pygame>=2.1.3 in /home/tilboon/Documents/239AS\_2/.conda/lib/python3.11/site-packages (from gymnasium[box2d]) (2.1.3)

```
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Requirement already satisfied: swig==4.* in /home/tilboon/Documents/239AS_
2/.conda/lib/python3.11/site-packages (from gymnasium[box2d]) (4.3.1)
```

```
In [2]: import rl_test
        from utils import *
```

## Introduction to the Enviroment (5 points)

We will be training a DQN agent to play the game of CarRacing. The agent will be trained to play the game using the pixels of the game as an input. The reward structure is as follows for each frame:

- -0.1 for each frame
- +1000/N where N is the number of tiles visited by the car in the episode

The overall goal of this game is to design a agent that is able to play the game with a average test score of above 600. In discrete mode the actions can take 5 actions,

- 0: Do Nothing
- 1: Turn Left
- 2: Turn Right
- 3: Accelerate
- 4: Brake

First let us visualize the game and understand the environment.

```
In [3]: import gymnasium as gym
        import numpy as np
        env = gym.make('CarRacing-v3', continuous=False, render_mode='rgb_array')
        env.seed(42)
```

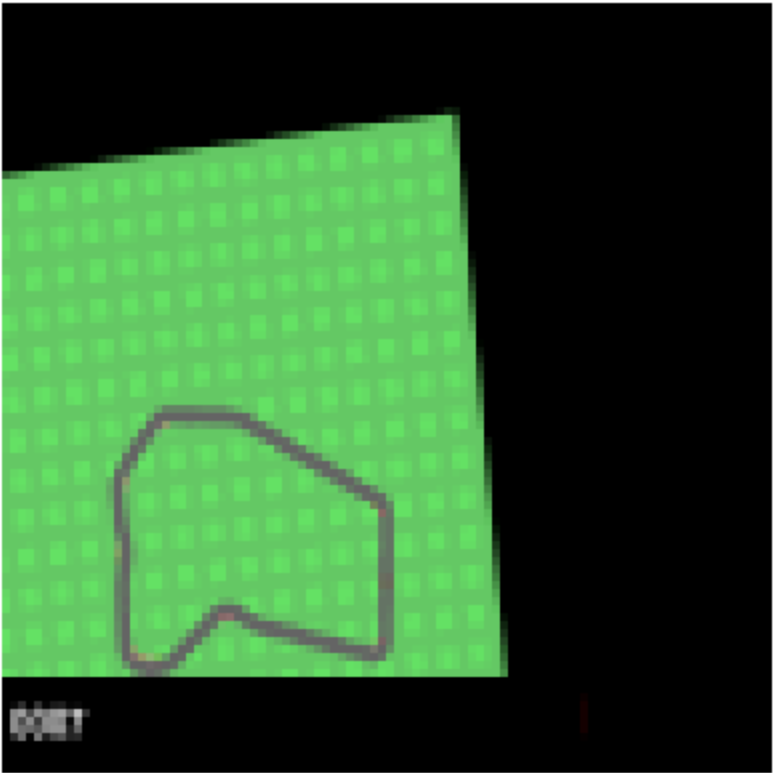
```
In [13]: from IPython.display import HTML

        frames = []
        s, _ = env.reset()

        while True:
            a = env.action_space.sample()
            s, r, terminated, truncated, _ = env.step(a)
            frames.append(s)
            if terminated or truncated:
                break

        anim = animate(frames)
        HTML(anim.to_jshtml())
```

Out[13]:



-

⏮

⏪

⏩

⏸

⏭

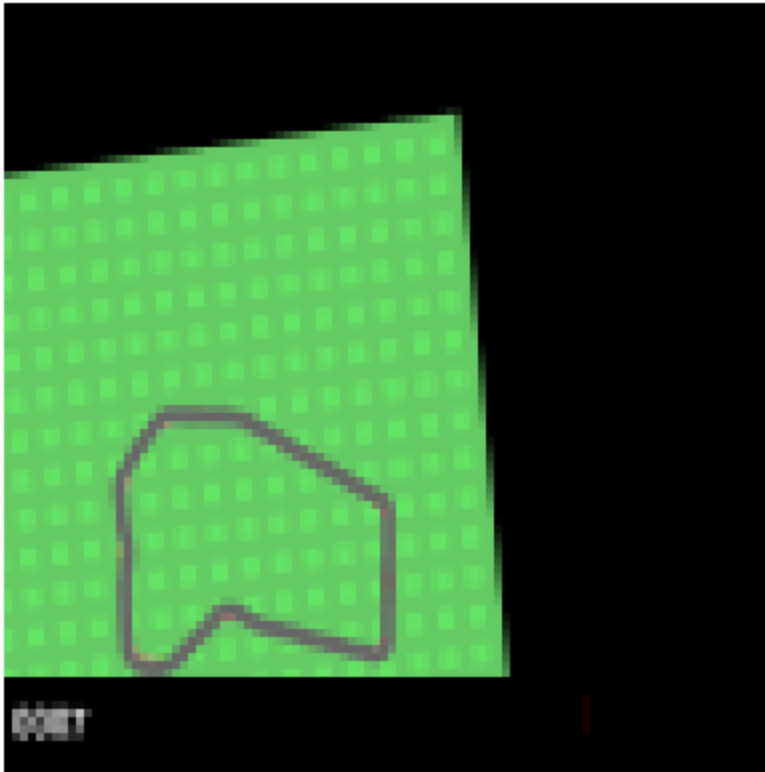
⏴

+

☐ Once

☒ Loop

☐ Reflect



So a couple things we can note:

- at the beginning of the game, we have 50 frames of the game slowly zooming into the car, we should ignore this period, ie no-op during this period.
- there is a black bar at the bottom of the screen, we should crop this out of the observation.

In addition, another thing to note is that the current frame doesn't give much information about the velocity and acceleration of the car, and that the car does not move much for each frame.

## Environment Wrapper (5 points)

As a result, you will need to complete `EnvWrapper` in `env_wrapper.py`. You can find more information in the docstring for the wrapper, however the main idea is that it is a wrapper to the environment that does the following:

- skips the first 50 frames of the game
- crops out the black bar and reshapes the observation to a 84x84 image, as well as turning the resulting image to grayscale
- performs the actions for `skip_frames` frames
- stacks the last `num_frames` frames together to give the agent some information about the velocity and acceleration of the car.

```
In [4]: from env_wrapper import EnvWrapper  
rl_test.test_wrapper(EnvWrapper)
```

Passed reset  
Passed step

## DQN (25 points)

### CNN Model (5 points)

Now we are ready to build the model. Our architecture of the CNN model is the one proposed by Mnih et al in "Human-level control through deep reinforcement learning". Specifically this consists of the following layers:

- A convolutional layer with 32 filters of size 8x8 with stride 4 and relu activation
- A convolutional layer with 64 filters of size 4x4 with stride 2 and relu activation
- A convolutional layer with 64 filters of size 3x3 with stride 1 and relu activation
- A fully connected layer with 512 units and relu activation
- A fully connected layer with the number of outputs of the environment

Please implement this model `Nature_Paper_Conv` in `model.py` as well as the helper `MLP` class.

```
In [5]: import model  
rl_test.test_model_DQN(model.Nature_Paper_Conv)
```

Passed

Now we are ready to implement the DQN algorithm.



---

**Algorithm 1** Deep Q-learning with Experience Replay

---

```
Initialize replay memory  $\mathcal{D}$  to capacity  $N$ 
Initialize action-value function  $Q$  with random weights
for episode = 1,  $M$  do
    Initialise sequence  $s_1 = \{x_1\}$  and preprocessed sequenced  $\phi_1 = \phi(s_1)$ 
    for  $t = 1, T$  do
        With probability  $\epsilon$  select a random action  $a_t$ 
        otherwise select  $a_t = \max_a Q^*(\phi(s_t), a; \theta)$ 
        Execute action  $a_t$  in emulator and observe reward  $r_t$  and image  $x_{t+1}$ 
        Set  $s_{t+1} = s_t, a_t, x_{t+1}$  and preprocess  $\phi_{t+1} = \phi(s_{t+1})$ 
        Store transition  $(\phi_t, a_t, r_t, \phi_{t+1})$  in  $\mathcal{D}$ 
        Sample random minibatch of transitions  $(\phi_j, a_j, r_j, \phi_{j+1})$  from  $\mathcal{D}$ 
        Set  $y_j = \begin{cases} r_j & \text{for terminal } \phi_{j+1} \\ r_j + \gamma \max_{a'} Q(\phi_{j+1}, a'; \theta) & \text{for non-terminal } \phi_{j+1} \end{cases}$ 
        Perform a gradient descent step on  $(y_j - Q(\phi_j, a_j; \theta))^2$  according to equation 3
    end for
end for
```

---

## Replay Buffer (5 points)

First start by implementing the DQN replay buffer `ReplayBufferDQN` in `replay_buffer.py`. This buffer will store the transitions of the agent and sample them for training.

```
In [6]: from replay_buffer import ReplayBufferDQN

rl_test.test_DQN_replay_buffer(ReplayBufferDQN)
```

Passed

## DQN (15 points)

Now implement the `_optimize_model` and `_sample_action` functions in `DQN` in `DQN.py`. The `_optimize_model` function will sample a batch of transitions from the replay buffer and update the model. The `_sample_action` function will sample an action from the model given the current state. Train the model over 200 episodes, validating every 50 episodes for 30 episodes, before testing the model for 50 episodes at the end.

```
In [7]: import wandb
```

```
In [8]: wandb.login()
```

```
wandb: Currently logged in as: kbaseba (kbaseba-ucla) to https://api.wandb.ai. Use `wandb login --relogin` to force relogin
```

```
Out[8]: True
```

```
In [9]: wandb.init(project="racing-car-dqn")
```

Tracking run with wandb version 0.20.0

Run data is saved locally in

/home/tilboon/Documents/239AS\_2/Project\_4/wandb/run-20250608\_115956-4dulynil

Syncing run **golden-sun-7** to [Weights & Biases \(docs\)](#)

View project at <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

View run at <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/4dulynil>

Out[9]: Display W&B run

```
In [11]: import DQN
import utils
import torch

# if running with Colab T4 with wandb, it takes 60-70 mins
# if running with Colab T4 w/o wandb, it takes ~30 mins
# your test mean reward ideally should be larger than 400
trainerDQN = DQN.DQN(EnvWrapper(env),
                      model.Nature_Paper_Conv,
                      lr = 0.00025,
                      gamma = 0.95,
                      buffer_size = 100000,
                      batch_size = 32,
                      loss_fn = "mse_loss",
                      use_wandb = True,
                      device = 'cuda',
                      seed = 42,
                      epsilon_scheduler = utils.exponential_decay(1, 700, 0.1),
                      save_path = utils.get_save_path("DQN", "./runs/"))

trainerDQN.train(200, 50, 30, 50, 50)
```

saving to ./runs/DQN/run0

Finishing previous runs because reinit is set to 'default'.

wandb: **ERROR** The nbformat package was not found. It is required to save notebook history.

View run **smart-firefly-1** at: <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/t9wk404r>

View project at: <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

Synced 5 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at: ./wandb/run-20250603\_185854-t9wk404r/logs

Tracking run with wandb version 0.20.0

Run data is saved locally in

/home/tilboon/Documents/239AS\_2/Project\_4/wandb/run-20250603\_185917-ajn0n650

Syncing run **neat-microwave-2** to [Weights & Biases \(docs\)](#)

View project at <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

View run at <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/ajn0n650>

Episode: 0: Time: 6.133239984512329 Total Reward: -12.26618705035983 Avg\_Loss: 0.0  
Episode: 1: Time: 8.21942663192749 Total Reward: -62.948717948718894 Avg\_Loss: 0.9044264260750667  
Episode: 2: Time: 8.034026622772217 Total Reward: -32.95620437956208 Avg\_Loss: 0.855911413692877  
Episode: 3: Time: 8.44169282913208 Total Reward: -73.57142857142873 Avg\_Loss: 0.825164575834109  
Episode: 4: Time: 8.884541988372803 Total Reward: -20.925925925926414 Avg\_Loss: 0.7258721724731707  
Episode: 5: Time: 8.549166917800903 Total Reward: -38.66197183098643 Avg\_Loss: 0.9092964216628495  
Episode: 6: Time: 8.060179948806763 Total Reward: -18.66412213740521 Avg\_Loss: 0.7732668172787217  
Episode: 7: Time: 8.099495649337769 Total Reward: 14.375000000001073 Avg\_Loss: 1.035137609085616  
Episode: 8: Time: 8.225048780441284 Total Reward: 28.188405797103286 Avg\_Loss: 1.4093751558924423  
Episode: 9: Time: 8.339138507843018 Total Reward: 75.4545454545497 Avg\_Loss: 1.1264866085237815  
Episode: 10: Time: 8.327865362167358 Total Reward: -55.784313725490904 Avg\_Loss: 1.2182710207059604  
Episode: 11: Time: 7.740700006484985 Total Reward: -42.28555956678336 Avg\_Loss: 1.3704961291720381  
Episode: 12: Time: 8.910240888595581 Total Reward: 62.09969788520029 Avg\_Loss: 4.109065845358272  
Episode: 13: Time: 8.5490562915802 Total Reward: 17.627986348121983 Avg\_Loss: 3.806811966315037  
Episode: 14: Time: 5.6029887199401855 Total Reward: -93.01355932203455 Avg\_Loss: 4.880658785008496  
Episode: 15: Time: 8.656633853912354 Total Reward: 91.49517684887832 Avg\_Loss: 11.253737637475759  
Episode: 16: Time: 8.690074920654297 Total Reward: -28.3333333333374 Avg\_Loss: 4.611919908839114  
Episode: 17: Time: 8.704070568084717 Total Reward: 121.94915254237577 Avg\_Loss: 6.624895627132985  
Episode: 18: Time: 8.76585054397583 Total Reward: 179.14330218069014 Avg\_Loss: 4.442848708887561  
Episode: 19: Time: 8.740228176116943 Total Reward: 31.21359223300972 Avg\_Loss: 4.493706668625359  
Episode: 20: Time: 8.527551174163818 Total Reward: 35.281690140847566 Avg\_Loss: 3.7453338874488318  
Episode: 21: Time: 8.382328987121582 Total Reward: 13.108108108109029 Avg\_Loss: 2.711287133333062  
Episode: 22: Time: 8.85209846496582 Total Reward: 561.0283687943178 Avg\_Loss: 4.066573404213962  
Episode: 23: Time: 8.712191104888916 Total Reward: 388.870967741929 Avg\_Loss: 4.510514091042912  
Episode: 24: Time: 8.741256475448608 Total Reward: 267.1794871794898 Avg\_Loss: 5.981761251677986  
Episode: 25: Time: 8.629642248153687 Total Reward: 256.6483516483525 Avg\_Loss: 5.791294638098789  
Episode: 26: Time: 8.749993562698364 Total Reward: 261.64335664334857 Avg\_Loss: 6.160182711457004  
Episode: 27: Time: 8.63331151008606 Total Reward: 310.5944055944049 Avg\_Loss: 4.377944937022794

Episode: 28: Time: 9.600750207901001 Total Reward: 365.81504702193683 Avg\_Loss: 5.0955391145553905  
Episode: 29: Time: 9.376365661621094 Total Reward: 320.4929577464706 Avg\_Loss: 4.9559988785190745  
Episode: 30: Time: 9.507494688034058 Total Reward: 442.6344086021476 Avg\_Loss: 6.523079610672317  
Episode: 31: Time: 9.56268048286438 Total Reward: 117.50000000000418 Avg\_Loss: 5.0505260674893355  
Episode: 32: Time: 9.467845916748047 Total Reward: 323.25095057034355 Avg\_Loss: 5.788560429541003  
Episode: 33: Time: 9.7420973777771 Total Reward: 277.549019607846 Avg\_Loss: 7.841803481598862  
Episode: 34: Time: 9.438688039779663 Total Reward: 6.265822784810526 Avg\_Loss: 7.497489858074348  
Episode: 35: Time: 9.794541597366333 Total Reward: 307.5157232704401 Avg\_Loss: 6.86144556768802  
Episode: 36: Time: 9.838263511657715 Total Reward: 210.64784053156586 Avg\_Loss: 6.938436169083379  
Episode: 37: Time: 9.857799291610718 Total Reward: 132.414330218071 Avg\_Loss: 6.415113450599318  
Episode: 38: Time: 9.360185146331787 Total Reward: 259.4776119402933 Avg\_Loss: 6.521061640827596  
Episode: 39: Time: 9.657518148422241 Total Reward: 186.64556962025537 Avg\_Loss: 7.583496148345851  
Episode: 40: Time: 9.496632099151611 Total Reward: 6.818181818095 Avg\_Loss: 7.929517399864037  
Episode: 41: Time: 9.50952434539795 Total Reward: 454.6183206106809 Avg\_Loss: 6.39722378514394  
Episode: 42: Time: 9.641336917877197 Total Reward: 441.1842105263091 Avg\_Loss: 5.7463160863443585  
Episode: 43: Time: 9.529329776763916 Total Reward: 443.18181818096 Avg\_Loss: 6.424317680987992  
Episode: 44: Time: 9.58205795288086 Total Reward: 271.1016949152571 Avg\_Loss: 7.109447162692287  
Episode: 45: Time: 9.956891775131226 Total Reward: 69.38356164383993 Avg\_Loss: 6.300570757449174  
Episode: 46: Time: 9.56554889678955 Total Reward: 65.71428571429033 Avg\_Loss: 6.371259860631798  
Episode: 47: Time: 9.843086957931519 Total Reward: 419.3769968051065 Avg\_Loss: 6.0480705915378925  
Episode: 48: Time: 9.608461141586304 Total Reward: 282.55102040816325 Avg\_Loss: 5.385454183866997  
Episode: 49: Time: 9.557258367538452 Total Reward: 214.52380952381168 Avg\_Loss: 6.065896774540429  
Validation Mean Reward: 26.815853054890464 Validation Std Reward: 199.75409948699942  
Episode: 50: Time: 8.60549259185791 Total Reward: 381.3513513513471 Avg\_Loss: 5.764939173429954  
Episode: 51: Time: 8.73774790763855 Total Reward: 128.2415902140675 Avg\_Loss: 6.107253385191204  
Episode: 52: Time: 8.626689910888672 Total Reward: 221.32653061224903 Avg\_Loss: 7.174219978456738  
Episode: 53: Time: 8.439385652542114 Total Reward: 306.4336917562713 Avg\_Loss: 5.665037500758131  
Episode: 54: Time: 8.489814519882202 Total Reward: 386.6176470588215 Avg\_Loss: 5.723625704020011

Episode: 55: Time: 8.457855701446533 Total Reward: 394.2086330935222 Avg\_Loss: 5.593486036573138  
Episode: 56: Time: 8.39532732963562 Total Reward: 232.93522267206708 Avg\_Loss: 5.550559617391153  
Episode: 57: Time: 8.499794006347656 Total Reward: 332.5618374558277 Avg\_Loss: 6.0964519131083446  
Episode: 58: Time: 8.21054983139038 Total Reward: 74.67509025271121 Avg\_Loss: 5.685884224266565  
Episode: 59: Time: 8.140634536743164 Total Reward: 41.71875000000306 Avg\_Loss: 5.766211925434465  
Episode: 60: Time: 8.471680402755737 Total Reward: 190.7142857142894 Avg\_Loss: 5.993246082999125  
Episode: 61: Time: 8.71571159362793 Total Reward: 234.032258064518 Avg\_Loss: 5.961606960837581  
Episode: 62: Time: 8.590460538864136 Total Reward: 364.999999999996 Avg\_Loss: 6.154986846346815  
Episode: 63: Time: 8.458800077438354 Total Reward: 152.34982332155573 Avg\_Loss: 5.981433028934383  
Episode: 64: Time: 8.475598096847534 Total Reward: 230.5033557047015 Avg\_Loss: 5.99139567583549  
Episode: 65: Time: 8.747697830200195 Total Reward: 310.06329113923914 Avg\_Loss: 5.7521675594714505  
Episode: 66: Time: 8.908056020736694 Total Reward: 255.42735042735356 Avg\_Loss: 5.509420610776468  
Episode: 67: Time: 8.483033418655396 Total Reward: 118.5593220339004 Avg\_Loss: 6.093845582809768  
Episode: 68: Time: 8.4671471118927 Total Reward: 139.87544483986085 Avg\_Loss: 6.142524041047617  
Episode: 69: Time: 8.25883173942566 Total Reward: 358.0612244897911 Avg\_Loss: 6.04441098806237  
Episode: 70: Time: 8.473734855651855 Total Reward: 422.1102661596868 Avg\_Loss: 5.681056739903298  
Episode: 71: Time: 8.438021421432495 Total Reward: 318.0434782608686 Avg\_Loss: 5.853102281313984  
Episode: 72: Time: 8.647363424301147 Total Reward: 68.00940438871416 Avg\_Loss: 6.315724428962259  
Episode: 73: Time: 8.693833589553833 Total Reward: 236.18971061093538 Avg\_Loss: 6.885392281187682  
Episode: 74: Time: 8.43391728401184 Total Reward: 276.5277777777795 Avg\_Loss: 6.391134386303044  
Episode: 75: Time: 8.72618579864502 Total Reward: 209.49826989619777 Avg\_Loss: 5.4345506299443604  
Episode: 76: Time: 8.844269752502441 Total Reward: 270.6249999999926 Avg\_Loss: 6.405602575350208  
Episode: 77: Time: 8.570299625396729 Total Reward: 82.04918032787255 Avg\_Loss: 5.672231001513345  
Episode: 78: Time: 8.648847579956055 Total Reward: 329.13793103447654 Avg\_Loss: 5.62028311480995  
Episode: 79: Time: 8.735196113586426 Total Reward: 201.6666666666709 Avg\_Loss: 6.056042985755856  
Episode: 80: Time: 8.735011100769043 Total Reward: 206.53846153846482 Avg\_Loss: 6.670787956534314  
Episode: 81: Time: 8.748886823654175 Total Reward: 87.69230769231005 Avg\_Loss: 6.96011440894183  
Episode: 82: Time: 8.521762609481812 Total Reward: 260.63380281690377 Avg\_Loss: 6.534499041172636

Episode: 83: Time: 8.802938222885132 Total Reward: 354.99999999999426 Avg\_Loss: 6.265703735732231  
Episode: 84: Time: 9.09769344329834 Total Reward: 296.691394658754 Avg\_Loss: 6.3792630283772445  
Episode: 85: Time: 8.772404670715332 Total Reward: 246.91176470588715 Avg\_Loss: 6.824356597511708  
Episode: 86: Time: 8.855376243591309 Total Reward: 305.6514657980422 Avg\_Loss: 6.551552474999628  
Episode: 87: Time: 8.791648626327515 Total Reward: 276.92982456140174 Avg\_Loss: 5.756341840038781  
Episode: 88: Time: 8.714039325714111 Total Reward: 193.9610389610425 Avg\_Loss: 5.62295334479388  
Episode: 89: Time: 8.73051905632019 Total Reward: 427.5563909774339 Avg\_Loss: 5.751106779114539  
Episode: 90: Time: 8.630814552307129 Total Reward: 46.06583072100583 Avg\_Loss: 7.226604164147577  
Episode: 91: Time: 8.414000988006592 Total Reward: 315.8527131782954 Avg\_Loss: 6.247645106636176  
Episode: 92: Time: 8.423139810562134 Total Reward: 300.6043956043938 Avg\_Loss: 5.6599397729424865  
Episode: 93: Time: 8.745530843734741 Total Reward: 257.73972602739855 Avg\_Loss: 6.016664015144861  
Episode: 94: Time: 8.826033115386963 Total Reward: 227.36842105263545 Avg\_Loss: 7.272338969366891  
Episode: 95: Time: 8.872728824615479 Total Reward: 383.72340425531763 Avg\_Loss: 6.079880816595895  
Episode: 96: Time: 9.15888261795044 Total Reward: 275.3703703703732 Avg\_Loss: 6.11970666777186  
Episode: 97: Time: 8.72473430633545 Total Reward: 207.81690140845348 Avg\_Loss: 6.520103151056947  
Episode: 98: Time: 9.107728242874146 Total Reward: 164.8187311178284 Avg\_Loss: 5.771718839136493  
Episode: 99: Time: 8.846008539199829 Total Reward: 304.9999999999992 Avg\_Loss: 5.6634034364163375  
Validation Mean Reward: -94.99999999999999 Validation Std Reward: 3.750876069797784e-14  
Episode: 100: Time: 9.23388385772705 Total Reward: 399.9152542372824 Avg\_Loss: 5.495403982010208  
Episode: 101: Time: 8.987744331359863 Total Reward: 434.61672473866855 Avg\_Loss: 6.438014780773836  
Episode: 102: Time: 8.848567485809326 Total Reward: 389.64163822524654 Avg\_Loss: 5.865145631698  
Episode: 103: Time: 8.694725036621094 Total Reward: 361.0810810810778 Avg\_Loss: 5.811214960923715  
Episode: 104: Time: 8.781830310821533 Total Reward: 497.71523178807195 Avg\_Loss: 5.756218878661885  
Episode: 105: Time: 8.800401449203491 Total Reward: 223.02120141342812 Avg\_Loss: 5.812086381832091  
Episode: 106: Time: 9.186482429504395 Total Reward: 237.3943661971872 Avg\_Loss: 6.720707616886171  
Episode: 107: Time: 8.744510650634766 Total Reward: 346.17647058823195 Avg\_Loss: 7.111493985692994  
Episode: 108: Time: 8.76833987236023 Total Reward: 232.7027027027048 Avg\_Loss: 7.632528891082571  
Episode: 109: Time: 8.879911422729492 Total Reward: 335.5555555555556 Avg\_Loss: 6.134643898290746

Episode: 110: Time: 9.093061447143555 Total Reward: 351.0641399416907 Avg\_Loss: 6.097547522112101  
Episode: 111: Time: 8.824126958847046 Total Reward: 372.532467532464 Avg\_Loss: 5.8935531477968235  
Episode: 112: Time: 8.824001789093018 Total Reward: 429.1379310344746 Avg\_Loss: 5.585125052628397  
Episode: 113: Time: 9.022949934005737 Total Reward: 614.090909090896 Avg\_Loss: 5.639891529283604  
Episode: 114: Time: 9.186776161193848 Total Reward: 246.5384615384594 Avg\_Loss: 6.505168010206783  
Episode: 115: Time: 8.986930847167969 Total Reward: 178.6156351791576 Avg\_Loss: 5.978715783407708  
Episode: 116: Time: 8.837463617324829 Total Reward: 399.54545454544837 Avg\_Loss: 5.130526297733564  
Episode: 117: Time: 9.066534519195557 Total Reward: 383.8273615635105 Avg\_Loss: 5.983850382957138  
Episode: 118: Time: 8.71725344657898 Total Reward: 339.9315068493129 Avg\_Loss: 6.040466426801281  
Episode: 119: Time: 8.542380571365356 Total Reward: 272.8571428571459 Avg\_Loss: 5.996386554060864  
Episode: 120: Time: 8.663614749908447 Total Reward: 303.0263157894716 Avg\_Loss: 5.51860421745717  
Episode: 121: Time: 8.95458173751831 Total Reward: 337.3529411764688 Avg\_Loss: 6.419669531974472  
Episode: 122: Time: 9.011008024215698 Total Reward: 395.44585987260365 Avg\_Loss: 5.529630923471531  
Episode: 123: Time: 9.059798002243042 Total Reward: 399.9494949494921 Avg\_Loss: 5.55393497583245  
Episode: 124: Time: 8.97329330444336 Total Reward: 254.05660377358896 Avg\_Loss: 6.185687293525503  
Episode: 125: Time: 8.88105845451355 Total Reward: 362.9124579124533 Avg\_Loss: 6.382902432890499  
Episode: 126: Time: 8.974822044372559 Total Reward: 85.42813455657964 Avg\_Loss: 5.827355312700031  
Episode: 127: Time: 9.043782711029053 Total Reward: 404.99999999999335 Avg\_Loss: 5.433334853468823  
Episode: 128: Time: 8.885504722595215 Total Reward: 294.43894389439083 Avg\_Loss: 5.69522147419072  
Episode: 129: Time: 8.784563064575195 Total Reward: 519.0350877192882 Avg\_Loss: 5.505801822457995  
Episode: 130: Time: 8.797478914260864 Total Reward: 350.22968197879345 Avg\_Loss: 5.4870838347603295  
Episode: 131: Time: 8.824974775314331 Total Reward: 121.39344262295147 Avg\_Loss: 6.393650137075857  
Episode: 132: Time: 9.025090456008911 Total Reward: 201.17834394904904 Avg\_Loss: 5.600372358530509  
Episode: 133: Time: 8.847079753875732 Total Reward: 463.3038869257896 Avg\_Loss: 5.369048794778455  
Episode: 134: Time: 8.914988994598389 Total Reward: 365.207612456741 Avg\_Loss: 6.279380510835087  
Episode: 135: Time: 8.66708517074585 Total Reward: 451.8164794007389 Avg\_Loss: 5.631665067512448  
Episode: 136: Time: 8.547762155532837 Total Reward: 282.9527559055024 Avg\_Loss: 5.800314729955016  
Episode: 137: Time: 7.851160287857056 Total Reward: -15.318725099601961 Avg\_Loss: 5.8691440319814605

Episode: 138: Time: 9.014394044876099 Total Reward: 316.585365853655 Avg\_Loss: 5.454292745149436  
Episode: 139: Time: 8.92708158493042 Total Reward: 181.07361963190544 Avg\_Loss: 6.26820403087039  
Episode: 140: Time: 9.400326013565063 Total Reward: 296.6666666666647 Avg\_Loss: 5.228830572937717  
Episode: 141: Time: 8.982694387435913 Total Reward: 487.75862068964534 Avg\_Loss: 5.5891978510287625  
Episode: 142: Time: 9.114570379257202 Total Reward: 451.66666666666003 Avg\_Loss: 5.666927215431919  
Episode: 143: Time: 9.304147720336914 Total Reward: 343.80597014925087 Avg\_Loss: 5.259942142903304  
Episode: 144: Time: 8.967745780944824 Total Reward: 535.5084745762624 Avg\_Loss: 5.771103710687461  
Episode: 145: Time: 8.678895711898804 Total Reward: 269.7540983606455 Avg\_Loss: 5.573106793796315  
Episode: 146: Time: 9.143201112747192 Total Reward: 266.7647058823514 Avg\_Loss: 6.110257084630117  
Episode: 147: Time: 8.977455854415894 Total Reward: 453.0769230769168 Avg\_Loss: 5.6753365272233465  
Episode: 148: Time: 8.96343445777893 Total Reward: 321.6666666666657 Avg\_Loss: 5.698031340326581  
Episode: 149: Time: 8.91055417060852 Total Reward: 371.43109540635913 Avg\_Loss: 6.076687597427048  
Validation Mean Reward: 559.1889593315589 Validation Std Reward: 168.09601292013545  
Episode: 150: Time: 9.74891996383667 Total Reward: 474.96587030716023 Avg\_Loss: 5.399547977106912  
Episode: 151: Time: 9.408512830734253 Total Reward: 583.0303030302925 Avg\_Loss: 5.739971555581613  
Episode: 152: Time: 9.578917980194092 Total Reward: 400.6268221574315 Avg\_Loss: 6.300333744337578  
Episode: 153: Time: 9.098928689956665 Total Reward: 340.89743589743523 Avg\_Loss: 5.78580046701832  
Episode: 154: Time: 9.274168252944946 Total Reward: 170.5172413793144 Avg\_Loss: 5.894829004752536  
Episode: 155: Time: 9.355210542678833 Total Reward: 240.61643835616832 Avg\_Loss: 5.366021521952974  
Episode: 156: Time: 9.250321865081787 Total Reward: 487.08955223879695 Avg\_Loss: 6.242042586583049  
Episode: 157: Time: 9.536597490310669 Total Reward: 523.4615384615292 Avg\_Loss: 5.84925790193702  
Episode: 158: Time: 9.176278114318848 Total Reward: 536.2056737588568 Avg\_Loss: 5.709083238569629  
Episode: 159: Time: 9.131852388381958 Total Reward: 463.8235294117604 Avg\_Loss: 6.024519376394127  
Episode: 160: Time: 9.382244348526001 Total Reward: 427.49134948096105 Avg\_Loss: 6.282056907645795  
Episode: 161: Time: 9.44643497467041 Total Reward: 198.91891891892226 Avg\_Loss: 6.331373120556359  
Episode: 162: Time: 9.365617990493774 Total Reward: 323.9189189189187 Avg\_Loss: 6.872203869979923  
Episode: 163: Time: 9.285917520523071 Total Reward: 381.6666666666603 Avg\_Loss: 5.938843585863835  
Episode: 164: Time: 9.267295122146606 Total Reward: 347.90657439446466 Avg\_Loss: 6.810720825395665



Episode: 165: Time: 9.418452978134155 Total Reward: 363.46153846153686 Avg\_Loss: 5.962919083963923  
Episode: 166: Time: 9.433175325393677 Total Reward: 456.40186915887136 Avg\_Loss: 5.8133620484536435  
Episode: 167: Time: 9.432826042175293 Total Reward: 526.1604095563036 Avg\_Loss: 5.4641768191041065  
Episode: 168: Time: 9.377393245697021 Total Reward: 483.59531772574405 Avg\_Loss: 5.8337165958741135  
Episode: 169: Time: 9.260392904281616 Total Reward: 363.90410958903766 Avg\_Loss: 6.328909038495617  
Episode: 170: Time: 9.110474824905396 Total Reward: 506.6260162601555 Avg\_Loss: 6.174251726695469  
Episode: 171: Time: 9.624365329742432 Total Reward: 415.38575667655596 Avg\_Loss: 6.052297151389242  
Episode: 172: Time: 9.425992965698242 Total Reward: 454.99999999999125 Avg\_Loss: 6.087077918172884  
Episode: 173: Time: 8.892867803573608 Total Reward: 288.7638376383669 Avg\_Loss: 6.220018607227742  
Episode: 174: Time: 9.094950914382935 Total Reward: 547.8571428571324 Avg\_Loss: 6.8448557483048  
Episode: 175: Time: 9.266983032226562 Total Reward: 549.194756554299 Avg\_Loss: 5.922192030594129  
Episode: 176: Time: 9.274991035461426 Total Reward: 228.84341637011144 Avg\_Loss: 6.27623997515991  
Episode: 177: Time: 9.250582933425903 Total Reward: 598.7269372693652 Avg\_Loss: 5.736074218229086  
Episode: 178: Time: 9.451613426208496 Total Reward: 85.60200668896768 Avg\_Loss: 6.16952095913286  
Episode: 179: Time: 9.47279977798462 Total Reward: 502.35973597359094 Avg\_Loss: 6.197666877458076  
Episode: 180: Time: 9.59806489944458 Total Reward: 274.90595611285374 Avg\_Loss: 6.164513395613983  
Episode: 181: Time: 9.144271612167358 Total Reward: 627.6027397260159 Avg\_Loss: 6.278574197232222  
Episode: 182: Time: 9.238120555877686 Total Reward: 485.756013745697 Avg\_Loss: 6.123357141719145  
Episode: 183: Time: 9.756761074066162 Total Reward: 333.16091954022954 Avg\_Loss: 6.510135272971723  
Episode: 184: Time: 9.192201614379883 Total Reward: 608.7037037036957 Avg\_Loss: 6.029204368591309  
Episode: 185: Time: 9.261204957962036 Total Reward: 643.0073800737939 Avg\_Loss: 6.1038742916924615  
Episode: 186: Time: 9.786289691925049 Total Reward: 274.4267515923545 Avg\_Loss: 7.135785656816819  
Episode: 187: Time: 9.738494157791138 Total Reward: 417.1212121212061 Avg\_Loss: 6.503933804375785  
Episode: 188: Time: 9.409322023391724 Total Reward: 429.3055555555491 Avg\_Loss: 6.025558203208346  
Episode: 189: Time: 9.303148746490479 Total Reward: 408.52112676055685 Avg\_Loss: 5.53696325646729  
Episode: 190: Time: 9.182215690612793 Total Reward: 439.2960288808616 Avg\_Loss: 6.4564922366823465  
Episode: 191: Time: 9.40623927116394 Total Reward: 360.47945205479 Avg\_Loss: 5.903223672834765  
Episode: 192: Time: 9.426127195358276 Total Reward: 272.9245283018884 Avg\_Loss: 6.271274244084077

Episode: 193: Time: 9.23553991317749 Total Reward: 529.060150375933 Avg\_Loss: 6.307258181211327  
 Episode: 194: Time: 9.657405853271484 Total Reward: 446.7956656346656 Avg\_Loss: 5.9197905384191944  
 Episode: 195: Time: 9.41226601600647 Total Reward: 439.4827586206824 Avg\_Loss: 6.738179166777795  
 Episode: 196: Time: 9.250213861465454 Total Reward: 386.75182481751216 Avg\_Loss: 6.322154710272781  
 Episode: 197: Time: 9.59204912185669 Total Reward: 389.330484330479 Avg\_Loss: 6.575044793241164  
 Episode: 198: Time: 9.279990673065186 Total Reward: 425.5992509363243 Avg\_Loss: 6.366872571095699  
 Episode: 199: Time: 9.471853017807007 Total Reward: 242.57961783439643 Avg\_Loss: 6.635416620919685  
 Validation Mean Reward: 623.8010792168969 Validation Std Reward: 201.97060741012447  
 Test Mean Reward: 605.0771519145571 Test Std Reward: 181.9873134653002

Please include a plot of the training and validation rewards over the episodes in the report. Answer the question in no more than 2 sentences: Does the loss matter in DQN? Why or why not?

Your answer:

Certainly, loss has significance in DQN as it helps the Q-network converge towards the optimal action-value function by reducing the error associated with predicted and target Q-values. Nevertheless, performance isn't always strong when loss is low, as that low loss may not indicate how well the learned policy performs within the environment. loss != (always) = good policy - since overfitting or poor exploration can lead to low loss but suboptimal actions.

```
In [17]: from IPython.display import Image, display
import os

img_path = os.path.join('.', 'images', 'dqn_stats.png')
display(Image(filename=img_path))
```



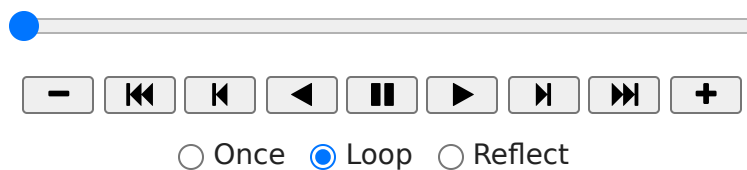
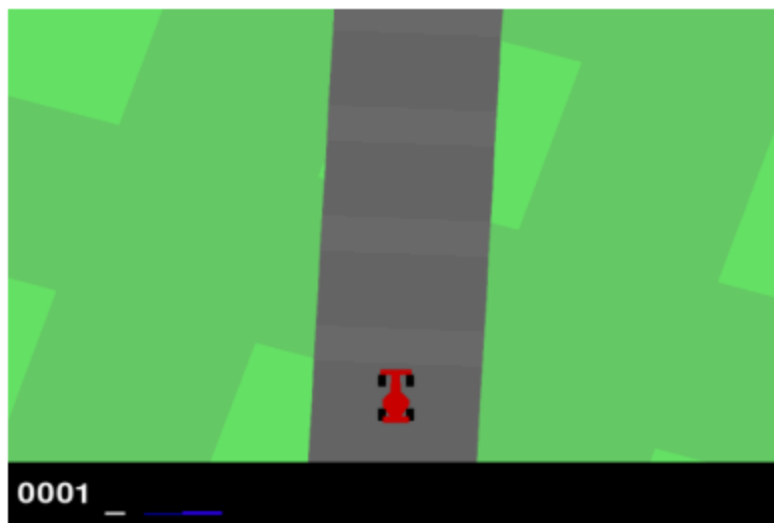
## Animation

We can also draw a animation of the car in one game, the code is provided below. The animation is just for your reference to get a feeling of how good your model is. No need to submit in your submission. We will grade based on your plots of training and validation above.

```
In [14]: eval_env = gym.make('CarRacing-v3', continuous=True, render_mode='rgb_array')
eval_env = EnvWrapper(eval_env)

total_rewards, frames = trainerDQN.play_episode(0, True, 42)
anim = animate(frames)
HTML(anim.to_jshtml())
```

Out[14]:





## Double DQN (10 points)

In the original paper, where the algorithm is shown above, the estimated target Q value was computed using the current Q network's weights. However, this can lead to overestimation of the Q values. To mitigate this, we can use the target network to compute the target Q value. This is known as Double DQN.

### Hard updating Target Network (5 points)

Original implementations for this involved hard updates, where the model weights were copied to the target network every C steps. This is known as hard updating. This was what was used in the Nature Paper by Mnih et al 2015 "Human-level control through deep reinforcement learning"

Please implement this by implementing the `_optimize_model` and `update_model` classes in `HardUpdateDQN` in `DQN.py`.

```
In [15]: import torch
import utils
import DQN
import model
from env_wrapper import EnvWrapper

trainerHardUpdatedQDN = DQN.HardUpdatedDQN(EnvWrapper(env),
model.Nature_Paper_Conv,
update_freq = 100,
lr = 0.00025,
gamma = 0.95,
buffer_size = 100000,
batch_size = 32,
loss_fn = "mse_loss",
use_wandb = True,
device = 'cuda',
```

```

seed = 42,
epsilon_scheduler = utils.exponential_decay(1, 1000, 0.1),
save_path = utils.get_save_path("DoubleDQN_HardUpdates/", ".")

trainerHardUpdateDQN.train(200, 50, 30, 50, 50)

```

saving to ./runs/DoubleDQN\_HardUpdates/run0  
 Finishing previous runs because reinit is set to 'default'.

## Run history:



## Run summary:

loss	6.63542
mean_reward	623.80108
mean_test_reward	605.07715
std_reward	201.97061
std_test_reward	181.98731
total_reward	242.57962

View run **neat-microwave-2** at: <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/ajn0n650>

View project at: <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

Synced 5 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at: ./wandb/run-20250603\_185917-ajn0n650/logs

Tracking run with wandb version 0.20.0

Run data is saved locally in

/home/tilboon/Documents/239AS\_2/Project\_4/wandb/run-20250603\_200700-u0lwj2ye

Syncing run **charmed-salad-3** to [Weights & Biases \(docs\)](#)

View project at <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

View run at <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/u0lwj2ye>

Episode: 0: Time: 6.266873121261597 Total Reward: -75.32786885245906 Avg\_Loss: 0.0  
Episode: 1: Time: 7.877405643463135 Total Reward: -27.65993265993273 Avg\_Loss: 0.5757119180456658  
Episode: 2: Time: 8.303340673446655 Total Reward: -49.38596491228109 Avg\_Loss: 0.6556620778468978  
Episode: 3: Time: 8.493849039077759 Total Reward: -25.379746835443456 Avg\_Loss: 0.669369897891243  
Episode: 4: Time: 8.35913872718811 Total Reward: -30.593220338983627 Avg\_Loss: 0.7232532752912586  
Episode: 5: Time: 8.36700439453125 Total Reward: -60.18987341772223 Avg\_Loss: 0.6708114022279487  
Episode: 6: Time: 8.604320049285889 Total Reward: -48.55191256830665 Avg\_Loss: 0.6209662687502989  
Episode: 7: Time: 8.404366254806519 Total Reward: -40.945945945946264 Avg\_Loss: 0.5619077489030462  
Episode: 8: Time: 8.311173677444458 Total Reward: -36.60583941605904 Avg\_Loss: 0.5841519497334957  
Episode: 9: Time: 8.698513507843018 Total Reward: 106.29870129870064 Avg\_Loss: 0.6069765026767214  
Episode: 10: Time: 8.373558044433594 Total Reward: -30.25179856115177 Avg\_Loss: 0.7633207832627437  
Episode: 11: Time: 8.466575384140015 Total Reward: -46.298701298701985 Avg\_Loss: 0.7232574843058065  
Episode: 12: Time: 8.293853759765625 Total Reward: -24.577464788733096 Avg\_Loss: 0.7492708108004402  
Episode: 13: Time: 8.515872478485107 Total Reward: -16.146953405018504 Avg\_Loss: 0.7753119613943982  
Episode: 14: Time: 8.757607460021973 Total Reward: 143.09523809524197 Avg\_Loss: 0.8553179518139663  
Episode: 15: Time: 8.775694131851196 Total Reward: 128.68421052631842 Avg\_Loss: 1.0059000729512768  
Episode: 16: Time: 8.349969148635864 Total Reward: 33.47222222222406 Avg\_Loss: 1.2181579729839533  
Episode: 17: Time: 8.585930347442627 Total Reward: -30.018050541516622 Avg\_Loss: 1.1749991385125313  
Episode: 18: Time: 8.480395793914795 Total Reward: 153.12030075188375 Avg\_Loss: 1.3743790159581089  
Episode: 19: Time: 8.719565629959106 Total Reward: -16.146953405018692 Avg\_Loss: 1.4068439019327403  
Episode: 20: Time: 8.536231279373169 Total Reward: -23.571428571429312 Avg\_Loss: 1.5648912208921768  
Episode: 21: Time: 8.528996229171753 Total Reward: -32.716262975779195 Avg\_Loss: 1.694191945701086  
Episode: 22: Time: 8.65802550315857 Total Reward: 279.9999999999893 Avg\_Loss: 1.8147937647935724  
Episode: 23: Time: 8.67793607711792 Total Reward: 201.29629629630028 Avg\_Loss: 2.287161427886546  
Episode: 24: Time: 8.77269458770752 Total Reward: 114.5238095238133 Avg\_Loss: 2.563684720952972  
Episode: 25: Time: 8.833858013153076 Total Reward: 99.4444444444487 Avg\_Loss: 2.510592081216203  
Episode: 26: Time: 8.685228824615479 Total Reward: -38.33333333333414 Avg\_Loss: 2.3019592178468944  
Episode: 27: Time: 8.704230308532715 Total Reward: 41.51877133106064 Avg\_Loss: 1.9497923707010365

Episode: 28: Time: 8.330749034881592 Total Reward: 60.47703180212432 Avg\_Loss: 2.4202153859268716  
Episode: 29: Time: 8.986355543136597 Total Reward: 286.62544169611596 Avg\_Loss: 2.2160942384174893  
Episode: 30: Time: 8.18997836112976 Total Reward: -38.521594684386116 Avg\_Loss: 2.2618502893117296  
Episode: 31: Time: 8.220182418823242 Total Reward: -0.6603773584911372 Avg\_Loss: 2.453497886657715  
Episode: 32: Time: 8.847923517227173 Total Reward: 157.30769230769445 Avg\_Loss: 2.3867683430679705  
Episode: 33: Time: 8.66874885559082 Total Reward: 327.14532871971954 Avg\_Loss: 2.663296186498233  
Episode: 34: Time: 8.927073955535889 Total Reward: 33.12499999999906 Avg\_Loss: 2.976613777274845  
Episode: 35: Time: 8.83239459991455 Total Reward: 214.76430976431428 Avg\_Loss: 3.030421138060193  
Episode: 36: Time: 8.79420280456543 Total Reward: 91.13138686131711 Avg\_Loss: 3.2349655923723173  
Episode: 37: Time: 8.763880729675293 Total Reward: 183.35051546391958 Avg\_Loss: 2.977044665638138  
Episode: 38: Time: 8.459109544754028 Total Reward: 203.18181818182052 Avg\_Loss: 2.9591680324378133  
Episode: 39: Time: 8.668036937713623 Total Reward: 226.07023411371725 Avg\_Loss: 3.1741584163753926  
Episode: 40: Time: 8.843774318695068 Total Reward: 478.37883959043427 Avg\_Loss: 3.214887613759321  
Episode: 41: Time: 8.592675685882568 Total Reward: 207.63157894737213 Avg\_Loss: 3.284646310475694  
Episode: 42: Time: 8.550989627838135 Total Reward: 367.8975265017678 Avg\_Loss: 3.5160669198557106  
Episode: 43: Time: 8.566348314285278 Total Reward: 303.5765124555109 Avg\_Loss: 3.638552453838477  
Episode: 44: Time: 8.721383810043335 Total Reward: 357.2292993630568 Avg\_Loss: 3.504936333964853  
Episode: 45: Time: 8.817419052124023 Total Reward: 314.0909090909065 Avg\_Loss: 3.8150374926939734  
Episode: 46: Time: 8.700479984283447 Total Reward: 399.4237918215538 Avg\_Loss: 4.262487466595754  
Episode: 47: Time: 8.907272100448608 Total Reward: 375.9302325581332 Avg\_Loss: 4.5757001262752945  
Episode: 48: Time: 8.633474111557007 Total Reward: 306.9607843137267 Avg\_Loss: 4.445991744013393  
Episode: 49: Time: 8.868477582931519 Total Reward: -15.000000000000243 Avg\_Loss: 4.550339279555473  
Validation Mean Reward: -94.999999999999 Validation Std Reward: 3.3927950614478624e-14  
Episode: 50: Time: 8.795664310455322 Total Reward: 235.85501858736336 Avg\_Loss: 3.77336766940205  
Episode: 51: Time: 8.779613494873047 Total Reward: 275.25316455695656 Avg\_Loss: 4.194430611213716  
Episode: 52: Time: 8.528160572052002 Total Reward: 468.99999999999494 Avg\_Loss: 4.062984642361393  
Episode: 53: Time: 9.083875179290771 Total Reward: 493.65248226949615 Avg\_Loss: 4.050758403890273  
Episode: 54: Time: 9.004987955093384 Total Reward: 190.28528528528798 Avg\_Loss: 4.740397757842761



Episode: 55: Time: 8.814074039459229 Total Reward: 75.96774193548774 Avg\_Loss: 4.611291925446326  
Episode: 56: Time: 8.535109996795654 Total Reward: 185.15564202334767 Avg\_Loss: 4.445487646996474  
Episode: 57: Time: 8.850864887237549 Total Reward: 333.5714285714256 Avg\_Loss: 5.015415890877988  
Episode: 58: Time: 9.252506017684937 Total Reward: 230.00000000000313 Avg\_Loss: 4.4381205394488425  
Episode: 59: Time: 8.917612791061401 Total Reward: 298.393393393392 Avg\_Loss: 4.433242987183964  
Episode: 60: Time: 8.668699741363525 Total Reward: 359.8494983277565 Avg\_Loss: 4.489874931443639  
Episode: 61: Time: 8.80156946182251 Total Reward: 308.38983050846974 Avg\_Loss: 4.613950657243488  
Episode: 62: Time: 9.086069107055664 Total Reward: 356.7133956386287 Avg\_Loss: 4.3322186900788  
Episode: 63: Time: 8.900357484817505 Total Reward: 115.00000000000321 Avg\_Loss: 4.539278195685699  
Episode: 64: Time: 8.660009860992432 Total Reward: 404.9999999999949 Avg\_Loss: 4.32696511014169  
Episode: 65: Time: 8.683341264724731 Total Reward: 276.13402061855913 Avg\_Loss: 4.945884339949664  
Episode: 66: Time: 8.64181399345398 Total Reward: 177.72727272727664 Avg\_Loss: 5.1018973353530175  
Episode: 67: Time: 8.237791538238525 Total Reward: 332.08333333332627 Avg\_Loss: 4.505151315396573  
Episode: 68: Time: 8.558026790618896 Total Reward: 376.7607973421861 Avg\_Loss: 4.820704914441629  
Episode: 69: Time: 8.69057321548462 Total Reward: 371.6666666666612 Avg\_Loss: 4.800717422942154  
Episode: 70: Time: 8.474892139434814 Total Reward: 191.19528619528919 Avg\_Loss: 4.555085998122432  
Episode: 71: Time: 8.698236465454102 Total Reward: 185.59701492537695 Avg\_Loss: 4.830152309241415  
Episode: 72: Time: 8.508115768432617 Total Reward: 95.62500000000185 Avg\_Loss: 4.9989546797856566  
Episode: 73: Time: 8.605000257492065 Total Reward: 286.5789473684204 Avg\_Loss: 4.8216129766792815  
Episode: 74: Time: 8.658449649810791 Total Reward: 109.620462046205 Avg\_Loss: 4.867231259826853  
Episode: 75: Time: 8.379562377929688 Total Reward: 512.287449392704 Avg\_Loss: 4.684149982047682  
Episode: 76: Time: 8.32052206993103 Total Reward: 539.9809885931481 Avg\_Loss: 4.731247884385726  
Episode: 77: Time: 8.481495380401611 Total Reward: 199.30379746835635 Avg\_Loss: 4.391253661207792  
Episode: 78: Time: 8.703047037124634 Total Reward: 169.33121019108663 Avg\_Loss: 4.810426331367813  
Episode: 79: Time: 8.57757019996643 Total Reward: 253.27586206896876 Avg\_Loss: 4.735198689609015  
Episode: 80: Time: 8.90942668914795 Total Reward: 469.8854961831971 Avg\_Loss: 4.753960826817681  
Episode: 81: Time: 8.806813955307007 Total Reward: 368.41463414633836 Avg\_Loss: 4.979806552414133  
Episode: 82: Time: 8.80982255935669 Total Reward: 358.33333333332604 Avg\_Loss: 4.614816772837599

Episode: 83: Time: 8.699279069900513 Total Reward: 246.21621621621617 Avg\_Loss: 4.977071939897137  
Episode: 84: Time: 8.81799864768982 Total Reward: 285.1369863013699 Avg\_Loss: 5.137629239499068  
Episode: 85: Time: 9.06259822845459 Total Reward: 302.43589743589894 Avg\_Loss: 4.6886935294175345  
Episode: 86: Time: 8.741300821304321 Total Reward: 433.30188679244674 Avg\_Loss: 4.75967075594333  
Episode: 87: Time: 8.876007080078125 Total Reward: 238.33333333333582 Avg\_Loss: 4.707275180756545  
Episode: 88: Time: 8.679618120193481 Total Reward: 318.1274131274124 Avg\_Loss: 4.998854909624372  
Episode: 89: Time: 8.56941843032837 Total Reward: 431.6903914590685 Avg\_Loss: 5.265257913024485  
Episode: 90: Time: 8.587276220321655 Total Reward: 294.5131086142313 Avg\_Loss: 5.3138946084415215  
Episode: 91: Time: 9.062479734420776 Total Reward: 349.4444444444401 Avg\_Loss: 4.849037592150584  
Episode: 92: Time: 2.7922046184539795 Total Reward: -69.42815884476568 Avg\_Loss: 5.459416762376443  
Episode: 93: Time: 8.994069337844849 Total Reward: 289.08304498269956 Avg\_Loss: 5.381299365468386  
Episode: 94: Time: 8.704679012298584 Total Reward: 323.7725631768913 Avg\_Loss: 7.52458951353025  
Episode: 95: Time: 8.686879873275757 Total Reward: 448.47826086956013 Avg\_Loss: 5.152436749774869  
Episode: 96: Time: 8.99607801437378 Total Reward: 280.7961783439511 Avg\_Loss: 4.799121176996151  
Episode: 97: Time: 9.041385412216187 Total Reward: 110.98006644518294 Avg\_Loss: 4.897289478478312  
Episode: 98: Time: 9.07898211479187 Total Reward: 249.93670886076328 Avg\_Loss: 5.160477481970267  
Episode: 99: Time: 8.811305046081543 Total Reward: 324.79522184299805 Avg\_Loss: 5.305092581680843  
Validation Mean Reward: 393.01034276666144 Validation Std Reward: 217.71491216566633  
Episode: 100: Time: 9.301905393600464 Total Reward: 324.1419141914139 Avg\_Loss: 5.579878955328164  
Episode: 101: Time: 8.352180242538452 Total Reward: -26.654676258993515 Avg\_Loss: 5.498592734336853  
Episode: 102: Time: 8.80241870880127 Total Reward: 336.0954063604195 Avg\_Loss: 4.97672310246139  
Episode: 103: Time: 8.971456289291382 Total Reward: 69.17910447761663 Avg\_Loss: 4.7959440731200855  
Episode: 104: Time: 9.046841144561768 Total Reward: 406.5974440894505 Avg\_Loss: 4.913562899878045  
Episode: 105: Time: 8.816270589828491 Total Reward: 371.4179104477587 Avg\_Loss: 5.19844705066761  
Episode: 106: Time: 8.629805088043213 Total Reward: 335.65693430656455 Avg\_Loss: 6.422007110940308  
Episode: 107: Time: 8.607624292373657 Total Reward: 397.75362318840234 Avg\_Loss: 5.111141394166386  
Episode: 108: Time: 8.487945795059204 Total Reward: 112.40740740741057 Avg\_Loss: 5.426862852913993  
Episode: 109: Time: 8.649800062179565 Total Reward: 348.2234432234392 Avg\_Loss: 5.361711390879976

Episode: 110: Time: 8.960063457489014 Total Reward: 316.1842105263152 Avg\_Loss: 4.792537425746437  
Episode: 111: Time: 8.667465925216675 Total Reward: 178.68421052631965 Avg\_Loss: 5.728241658511282  
Episode: 112: Time: 8.964413404464722 Total Reward: 373.96551724137464 Avg\_Loss: 5.474235053823776  
Episode: 113: Time: 8.857991695404053 Total Reward: 266.11111111110597 Avg\_Loss: 5.696340840403773  
Episode: 114: Time: 8.671756267547607 Total Reward: 350.6140350877171 Avg\_Loss: 5.635581993255295  
Episode: 115: Time: 8.958330869674683 Total Reward: 266.48648648648964 Avg\_Loss: 5.608472778516657  
Episode: 116: Time: 8.71580457687378 Total Reward: 58.846153846157826 Avg\_Loss: 5.326121588214105  
Episode: 117: Time: 8.861892461776733 Total Reward: 472.94425087107504 Avg\_Loss: 4.927772820997639  
Episode: 118: Time: 8.97496223449707 Total Reward: 285.95238095238216 Avg\_Loss: 5.18305869613375  
Episode: 119: Time: 8.070298433303833 Total Reward: 34.824561403511225 Avg\_Loss: 5.118649596927547  
Episode: 120: Time: 8.90090274810791 Total Reward: 365.06389776357673 Avg\_Loss: 5.507736582715972  
Episode: 121: Time: 8.756322145462036 Total Reward: 354.9999999999919 Avg\_Loss: 5.287329765928893  
Episode: 122: Time: 8.971147060394287 Total Reward: 408.3557046979815 Avg\_Loss: 5.3689607241574455  
Episode: 123: Time: 9.073268175125122 Total Reward: 313.49673202614355 Avg\_Loss: 4.933979367508607  
Episode: 124: Time: 8.740240573883057 Total Reward: 290.7677902621708 Avg\_Loss: 5.818628150875829  
Episode: 125: Time: 8.82532525062561 Total Reward: 342.28813559321145 Avg\_Loss: 5.716743645547819  
Episode: 126: Time: 8.95838737487793 Total Reward: 259.9488054607546 Avg\_Loss: 5.1740575447803785  
Episode: 127: Time: 8.832682371139526 Total Reward: 268.29588014981454 Avg\_Loss: 5.038969169143869  
Episode: 128: Time: 8.866991758346558 Total Reward: 327.48062015503996 Avg\_Loss: 5.487644368860902  
Episode: 129: Time: 8.960815906524658 Total Reward: 337.2580645161239 Avg\_Loss: 5.407619752803771  
Episode: 130: Time: 8.739174127578735 Total Reward: 465.43956043955234 Avg\_Loss: 5.39601886572958  
Episode: 131: Time: 8.494217872619629 Total Reward: 201.2962962962972 Avg\_Loss: 4.966861033639988  
Episode: 132: Time: 8.809686660766602 Total Reward: 341.89320388348983 Avg\_Loss: 5.021890603193716  
Episode: 133: Time: 8.684836864471436 Total Reward: 589.2105263157788 Avg\_Loss: 5.2610951341500805  
Episode: 134: Time: 8.9497971534729 Total Reward: 423.9393939393904 Avg\_Loss: 5.268076979312577  
Episode: 135: Time: 9.131422996520996 Total Reward: 398.4640522875736 Avg\_Loss: 5.392292007177818  
Episode: 136: Time: 9.100772857666016 Total Reward: 278.7704918032714 Avg\_Loss: 5.580633123381799  
Episode: 137: Time: 8.937803745269775 Total Reward: 494.65517241378063 Avg\_Loss: 5.77357807179459

Episode: 138: Time: 9.112977743148804 Total Reward: 343.0664652567947 Avg\_Loss: 6.186795872800491  
Episode: 139: Time: 8.796247243881226 Total Reward: 516.9402985074547 Avg\_Loss: 5.980726909236748  
Episode: 140: Time: 9.090883731842041 Total Reward: 335.5084745762684 Avg\_Loss: 5.579471842581484  
Episode: 141: Time: 9.000151872634888 Total Reward: 461.3139931740543 Avg\_Loss: 5.399814761486374  
Episode: 142: Time: 8.923707008361816 Total Reward: 309.6052631578864 Avg\_Loss: 5.489007609231131  
Episode: 143: Time: 8.796001672744751 Total Reward: 518.2404181184577 Avg\_Loss: 5.4803707439358496  
Episode: 144: Time: 9.113590240478516 Total Reward: 166.7647058823561 Avg\_Loss: 5.022120198281873  
Episode: 145: Time: 8.807538270950317 Total Reward: 325.0000000000017 Avg\_Loss: 5.696399968211391  
Episode: 146: Time: 8.953400373458862 Total Reward: 240.57046979866087 Avg\_Loss: 5.538095957090874  
Episode: 147: Time: 9.371840238571167 Total Reward: 269.16184971097863 Avg\_Loss: 5.738351973665862  
Episode: 148: Time: 8.972156524658203 Total Reward: 404.9999999999267 Avg\_Loss: 5.705823469562691  
Episode: 149: Time: 9.070889472961426 Total Reward: 376.6981132075348 Avg\_Loss: 7.343291616239467  
Validation Mean Reward: 541.6028979697245 Validation Std Reward: 143.13115484230534  
Episode: 150: Time: 9.312124729156494 Total Reward: 477.41379310343814 Avg\_Loss: 6.2417543510429  
Episode: 151: Time: 9.260217666625977 Total Reward: 416.7845117845062 Avg\_Loss: 6.089014342853001  
Episode: 152: Time: 9.269031286239624 Total Reward: 342.4999999999977 Avg\_Loss: 5.264343573265717  
Episode: 153: Time: 9.193868398666382 Total Reward: 445.7166123778413 Avg\_Loss: 5.674996855880032  
Episode: 154: Time: 8.91148591041565 Total Reward: 249.26229508197002 Avg\_Loss: 5.2319815218949515  
Episode: 155: Time: 8.861860513687134 Total Reward: 612.2243346007473 Avg\_Loss: 5.148778899377134  
Episode: 156: Time: 8.898478746414185 Total Reward: 563.9147286821656 Avg\_Loss: 5.520360475828667  
Episode: 157: Time: 9.061407566070557 Total Reward: 594.5306859205695 Avg\_Loss: 5.9584978368102  
Episode: 158: Time: 8.907414197921753 Total Reward: 283.4722222222253 Avg\_Loss: 5.996825795213716  
Episode: 159: Time: 9.0666024684906 Total Reward: 360.1282051282052 Avg\_Loss: 6.626289459837585  
Episode: 160: Time: 8.742763996124268 Total Reward: 630.2252252252143 Avg\_Loss: 6.426816237072985  
Episode: 161: Time: 8.882120609283447 Total Reward: 336.9066147859886 Avg\_Loss: 6.362463070564911  
Episode: 162: Time: 9.11575722694397 Total Reward: 297.026578073083 Avg\_Loss: 5.999397999098321  
Episode: 163: Time: 9.348807096481323 Total Reward: 205.8849557522143 Avg\_Loss: 5.577792072496495  
Episode: 164: Time: 9.173773050308228 Total Reward: 353.90510948904387 Avg\_Loss: 6.673233438940609

Episode: 165: Time: 9.167500972747803 Total Reward: 503.59154929576823 Avg\_Loss: 6.457473061665767  
Episode: 166: Time: 9.357877969741821 Total Reward: 391.06811145510187 Avg\_Loss: 5.7700759052228525  
Episode: 167: Time: 9.113815069198608 Total Reward: 556.7241379310209 Avg\_Loss: 5.232491083505775  
Episode: 168: Time: 9.155786514282227 Total Reward: 426.8855218855114 Avg\_Loss: 5.679922026746413  
Episode: 169: Time: 9.422545194625854 Total Reward: 359.81927710843286 Avg\_Loss: 5.681995139402502  
Episode: 170: Time: 9.188294410705566 Total Reward: 540.3790613718307 Avg\_Loss: 6.259949086093101  
Episode: 171: Time: 9.086500644683838 Total Reward: 248.97163120567822 Avg\_Loss: 5.9890271505387895  
Episode: 172: Time: 9.018906354904175 Total Reward: 549.7368421052543 Avg\_Loss: 5.95718705854496  
Episode: 173: Time: 8.88513445854187 Total Reward: 534.7577854671212 Avg\_Loss: 6.023873747897749  
Episode: 174: Time: 8.997731447219849 Total Reward: 571.6666666666624 Avg\_Loss: 5.970991446190522  
Episode: 175: Time: 9.174432754516602 Total Reward: 509.6511627906874 Avg\_Loss: 5.8785796415905995  
Episode: 176: Time: 9.353077411651611 Total Reward: 316.5755627009658 Avg\_Loss: 6.196056654473312  
Episode: 177: Time: 9.110191106796265 Total Reward: 585.85106382978 Avg\_Loss: 5.939222324796083  
Episode: 178: Time: 9.137876272201538 Total Reward: 495.2777777777688 Avg\_Loss: 5.44801377498803  
Episode: 179: Time: 9.09185266494751 Total Reward: 272.1328671328708 Avg\_Loss: 5.794509790023835  
Episode: 180: Time: 9.28247857093811 Total Reward: 339.21052631578425 Avg\_Loss: 5.88858454968749  
Episode: 181: Time: 9.357555389404297 Total Reward: 336.8936877076314 Avg\_Loss: 6.126571315677226  
Episode: 182: Time: 9.073419332504272 Total Reward: 623.1467181467056 Avg\_Loss: 6.261994555717757  
Episode: 183: Time: 9.252177476882935 Total Reward: 477.8155339805762 Avg\_Loss: 6.241817652678289  
Episode: 184: Time: 9.274469375610352 Total Reward: 411.28930817609404 Avg\_Loss: 5.986658345751402  
Episode: 185: Time: 9.390977144241333 Total Reward: 205.2915451895049 Avg\_Loss: 5.793823542715121  
Episode: 186: Time: 9.03321123123169 Total Reward: 584.9999999999869 Avg\_Loss: 5.42228479585728  
Episode: 187: Time: 9.124595403671265 Total Reward: 618.2616487455099 Avg\_Loss: 5.830481381977306  
Episode: 188: Time: 9.273937702178955 Total Reward: 529.1830065359371 Avg\_Loss: 5.809072942292991  
Episode: 189: Time: 9.089905738830566 Total Reward: 619.8148148148014 Avg\_Loss: 5.742373068793481  
Episode: 190: Time: 8.872382402420044 Total Reward: 540.2941176470497 Avg\_Loss: 6.3485914328519035  
Episode: 191: Time: 9.39250135421753 Total Reward: 543.7959866220654 Avg\_Loss: 6.840180551805416  
Episode: 192: Time: 9.129821062088013 Total Reward: 248.7500000000038 Avg\_Loss: 6.545473282076731

Episode: 193: Time: 9.196569442749023 Total Reward: 344.560439560428 Avg\_Loss: 6.120430489548114  
 Episode: 194: Time: 9.339927673339844 Total Reward: 512.9734219268989 Avg\_Loss: 6.530639248735764  
 Episode: 195: Time: 9.354246854782104 Total Reward: 378.52941176469756 Avg\_Loss: 5.968082449516328  
 Episode: 196: Time: 8.863152980804443 Total Reward: 457.816901408443 Avg\_Loss: 5.998983409224438  
 Episode: 197: Time: 9.094125747680664 Total Reward: 562.3208722741333 Avg\_Loss: 5.484310730164792  
 Episode: 198: Time: 9.246551752090454 Total Reward: 436.5315315315284 Avg\_Loss: 6.7771320518325355  
 Episode: 199: Time: 9.032127141952515 Total Reward: 524.7183098591468 Avg\_Loss: 6.306603697167725  
 Validation Mean Reward: 513.33562338453 Validation Std Reward: 170.58048857484997  
 Test Mean Reward: 446.53865528587494 Test Std Reward: 175.3391396087704

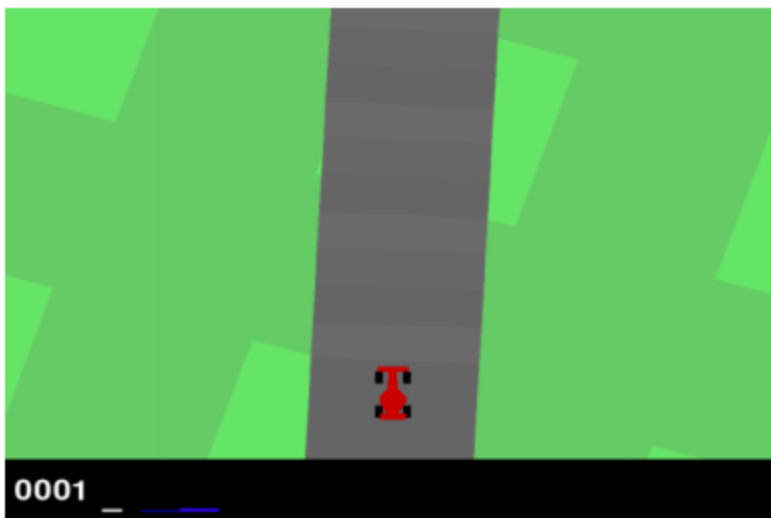
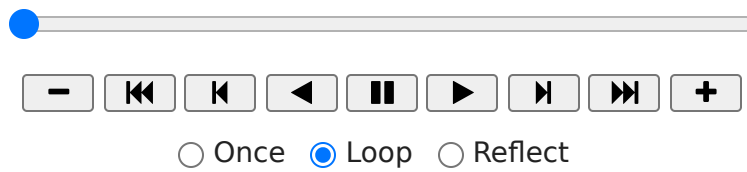
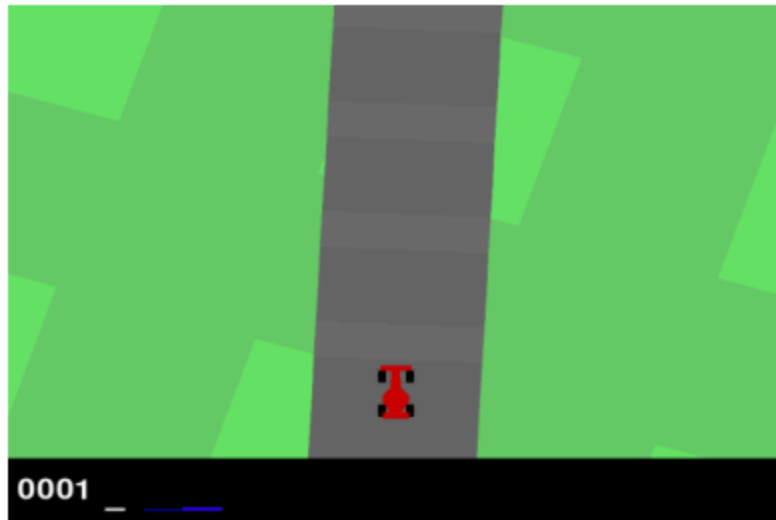
```
In [3]: img_path = os.path.join('.', 'images', 'hard_dqn_stats.png')
display(Image(filename=img_path))
```



## Animation

```
In [16]: total_rewards, frames = trainerHardUpdateDQN.play_episode(0, True, 42)
anim = animate(frames)
HTML(anim.to_jshtml())
```

Out[16]:



Soft Updates (5 points)

A more recent improvement is to use soft updates, also known as Polyak averaging, where the target network is updated with a small fraction of the current model weights every step. In other words:

$$\theta_{target} = \tau \theta_{model} + (1 - \tau) \theta_{target}$$

for some  $\tau \ll 1$  Please implement this by implementing the `_update_model` class in `SoftUpdatedQN` in `DQN.py`.

```
In [10]: import torch
import utils
import DQN
import model
from env_wrapper import EnvWrapper

traineSoftUpdatedQN = DQN.SoftUpdatedQN(EnvWrapper(env),
                                         model.Nature_Paper_Conv,
                                         tau = 0.01,
                                         update_freq = 1,
                                         lr = 0.00025,
                                         gamma = 0.95,
                                         buffer_size = 100000, # You can take smaller buffer size if you want
                                         batch_size = 32,
                                         loss_fn = "mse_loss",
                                         use_wandb = True,
                                         device = 'cuda',
                                         seed = 42,
                                         epsilon_scheduler = utils.exponential_decay(1, 1000, 0.1),
                                         save_path = utils.get_save_path("DoubleDQN_SoftUpdates", "./runs/DoubleDQN_SoftUpdates/run0"))

traineSoftUpdatedQN.train(200, 50, 30, 50, 50)
```

saving to ./runs/DoubleDQN\_SoftUpdates/run0

Finishing previous runs because reinit is set to 'default'.

**wandb: ERROR** The nbformat package was not found. It is required to save notebook history.

View run **efficient-brook-5** at: <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/40df1uhb>

View project at: <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

Synced 5 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at: ./wandb/run-20250604\_173438-40df1uhb/logs

Tracking run with wandb version 0.20.0

Run data is saved locally in

/home/tilboon/Documents/239AS\_2/Project\_4/wandb/run-20250604\_173507-c98qmc25

Syncing run **vivid-brook-6** to [Weights & Biases](https://wandb.ai/kbaseba-ucla/racing-car-dqn) (docs)

View project at <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

View run at <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/c98qmc25>



Episode: 0: Time: 6.359175682067871 Total Reward: -33.848920863309544 Avg\_Loss: 0.0  
Episode: 1: Time: 8.767962455749512 Total Reward: -46.92307692307715 Avg\_Loss: 0.7833606781331217  
Episode: 2: Time: 9.387411832809448 Total Reward: -29.306569343066098 Avg\_Loss: 0.7772658258488699  
Episode: 3: Time: 9.651671171188354 Total Reward: -48.57142857142889 Avg\_Loss: 0.8115668516574788  
Episode: 4: Time: 10.046218395233154 Total Reward: -20.92592592592637 Avg\_Loss: 0.7559677272909829  
Episode: 5: Time: 10.012659072875977 Total Reward: -77.39436619718307 Avg\_Loss: 0.7192318934728118  
Episode: 6: Time: 9.452333211898804 Total Reward: -14.84732824427546 Avg\_Loss: 0.7523773938980924  
Episode: 7: Time: 9.38041639328003 Total Reward: -63.750000000000554 Avg\_Loss: 0.7029306743638355  
Episode: 8: Time: 9.65608549118042 Total Reward: -62.39130434782662 Avg\_Loss: 0.6861154307149538  
Episode: 9: Time: 9.332027673721313 Total Reward: -38.18181818181847 Avg\_Loss: 0.7263028417565242  
Episode: 10: Time: 9.829419136047363 Total Reward: -29.640522875817894 Avg\_Loss: 0.776068575617646  
Episode: 11: Time: 9.685279369354248 Total Reward: -48.068592057762416 Avg\_Loss: 0.8432840440390992  
Episode: 12: Time: 10.040468692779541 Total Reward: -22.4924471299094 Avg\_Loss: 0.9710026543681362  
Episode: 13: Time: 9.927687406539917 Total Reward: 85.88737201365586 Avg\_Loss: 1.210566443680715  
Episode: 14: Time: 9.614501953125 Total Reward: -33.983050847457775 Avg\_Loss: 1.3660759304751868  
Episode: 15: Time: 9.682658195495605 Total Reward: -43.5530546623803 Avg\_Loss: 1.4533559619879521  
Episode: 16: Time: 9.701286315917969 Total Reward: 101.49122807017751 Avg\_Loss: 1.7521506163502942  
Episode: 17: Time: 9.865921020507812 Total Reward: 135.508474576274 Avg\_Loss: 2.1271981648286853  
Episode: 18: Time: 9.575285911560059 Total Reward: -23.34890965732152 Avg\_Loss: 1.9405558973300356  
Episode: 19: Time: 10.124025821685791 Total Reward: 125.06472491909467 Avg\_Loss: 2.338648290443821  
Episode: 20: Time: 9.978367328643799 Total Reward: 130.35211267605672 Avg\_Loss: 2.6769668257036128  
Episode: 21: Time: 10.004230737686157 Total Reward: 151.62162162162605 Avg\_Loss: 2.740618932647865  
Episode: 22: Time: 9.869470357894897 Total Reward: 273.7943262411383 Avg\_Loss: 2.9141142794064114  
Episode: 23: Time: 9.90914249420166 Total Reward: 26.8637992831531 Avg\_Loss: 2.7222721784555612  
Episode: 24: Time: 9.94980502128601 Total Reward: 247.9487179487213 Avg\_Loss: 2.791672555964534  
Episode: 25: Time: 9.785473346710205 Total Reward: 282.28937728937746 Avg\_Loss: 2.998690017381636  
Episode: 26: Time: 9.756397008895874 Total Reward: 230.17482517482952 Avg\_Loss: 3.0527297573931076  
Episode: 27: Time: 9.902008295059204 Total Reward: 223.18181818182228 Avg\_Loss: 2.9708636235289214

Episode: 28: Time: 9.911519527435303 Total Reward: 130.7053291536085 Avg\_Loss: 3.0766998942659685  
Episode: 29: Time: 9.761918067932129 Total Reward: 197.25352112676495 Avg\_Loss: 2.8807840247114167  
Episode: 30: Time: 9.700820446014404 Total Reward: 105.71684587814076 Avg\_Loss: 3.26323181641202  
Episode: 31: Time: 9.85072135925293 Total Reward: 36.25000000000048 Avg\_Loss: 2.7935593373635235  
Episode: 32: Time: 10.052670955657959 Total Reward: 76.1026615969624 Avg\_Loss: 3.0351208678814543  
Episode: 33: Time: 9.913760423660278 Total Reward: 166.4379084967365 Avg\_Loss: 3.1833140324143803  
Episode: 34: Time: 9.723971366882324 Total Reward: 126.5189873417767 Avg\_Loss: 3.150880851415025  
Episode: 35: Time: 9.876695156097412 Total Reward: 216.3207547169856 Avg\_Loss: 3.1383642013333426  
Episode: 36: Time: 9.983841896057129 Total Reward: 7.9900332225909665 Avg\_Loss: 3.1697209101765096  
Episode: 37: Time: 9.822298765182495 Total Reward: 266.3707165109062 Avg\_Loss: 3.000276417792344  
Episode: 38: Time: 9.486727952957153 Total Reward: 199.77611940298684 Avg\_Loss: 3.0773827646459853  
Episode: 39: Time: 9.858022212982178 Total Reward: 189.81012658228312 Avg\_Loss: 2.9627301299772344  
Episode: 40: Time: 9.776391983032227 Total Reward: 341.36363636363194 Avg\_Loss: 3.207382644424919  
Episode: 41: Time: 9.52996301651001 Total Reward: 179.80916030534854 Avg\_Loss: 3.5288001564370486  
Episode: 42: Time: 9.72357726097107 Total Reward: 204.34210526316204 Avg\_Loss: 3.2292861986060104  
Episode: 43: Time: 9.635736227035522 Total Reward: 199.54545454545814 Avg\_Loss: 3.2421289602247607  
Episode: 44: Time: 9.677833318710327 Total Reward: 230.42372881356243 Avg\_Loss: 3.589244406764247  
Episode: 45: Time: 5.585062026977539 Total Reward: -47.935616438356305 Avg\_Loss: 3.3950726021738613  
Episode: 46: Time: 9.655150651931763 Total Reward: 326.4285714285688 Avg\_Loss: 6.927791636030213  
Episode: 47: Time: 9.80740475654602 Total Reward: 135.03194888179343 Avg\_Loss: 3.7365470273154124  
Episode: 48: Time: 9.693898916244507 Total Reward: 115.88435374150055 Avg\_Loss: 4.642089680463326  
Episode: 49: Time: 9.641628503799438 Total Reward: 211.12244897959587 Avg\_Loss: 3.6910098600788275  
Validation Mean Reward: 136.51330664357846 Validation Std Reward: 192.55672092175595  
Episode: 50: Time: 8.781256437301636 Total Reward: 155.0000000000016 Avg\_Loss: 4.444873988127508  
Episode: 51: Time: 8.932474613189697 Total Reward: 174.11314984709963 Avg\_Loss: 4.464563330431946  
Episode: 52: Time: 8.899184226989746 Total Reward: 231.53061224489994 Avg\_Loss: 3.9341697662818333  
Episode: 53: Time: 8.596878051757812 Total Reward: 98.54838709677597 Avg\_Loss: 4.036811327233034  
Episode: 54: Time: 8.623188972473145 Total Reward: -32.500000000000504 Avg\_Loss: 4.3225767357008795

Episode: 55: Time: 8.595264673233032 Total Reward: 196.3669064748249 Avg\_Loss: 4.247139162877026  
Episode: 56: Time: 8.458593845367432 Total Reward: 277.4696356275306 Avg\_Loss: 3.9663013284947692  
Episode: 57: Time: 8.60712194442749 Total Reward: 367.8975265017616 Avg\_Loss: 3.902098891614866  
Episode: 58: Time: 8.817859411239624 Total Reward: 251.5703971119176 Avg\_Loss: 4.2382583007091235  
Episode: 59: Time: 8.52751088142395 Total Reward: 416.71874999999386 Avg\_Loss: 4.372445583844385  
Episode: 60: Time: 8.584330081939697 Total Reward: 432.47252747251923 Avg\_Loss: 4.271372173513685  
Episode: 61: Time: 8.777506828308105 Total Reward: 208.22580645161702 Avg\_Loss: 4.964666343035818  
Episode: 62: Time: 8.706783533096313 Total Reward: 324.9999999999931 Avg\_Loss: 4.649392831726234  
Episode: 63: Time: 8.652416944503784 Total Reward: 272.4911660777413 Avg\_Loss: 4.488731570604469  
Episode: 64: Time: 8.704713106155396 Total Reward: 374.79865771811393 Avg\_Loss: 4.997556201049259  
Episode: 65: Time: 6.977598667144775 Total Reward: -34.294936708857406 Avg\_Loss: 5.018814799686273  
Episode: 66: Time: 9.058687686920166 Total Reward: 224.0883190883235 Avg\_Loss: 6.565468735053759  
Episode: 67: Time: 8.717163324356079 Total Reward: 372.79661016948825 Avg\_Loss: 6.047346511307885  
Episode: 68: Time: 8.642010688781738 Total Reward: 335.6049822064028 Avg\_Loss: 5.475873236395731  
Episode: 69: Time: 8.551136493682861 Total Reward: 423.3673469387678 Avg\_Loss: 5.211276100463226  
Episode: 70: Time: 8.690770149230957 Total Reward: 597.0152091254627 Avg\_Loss: 5.985399157059293  
Episode: 71: Time: 8.724921464920044 Total Reward: 423.11594202898004 Avg\_Loss: 5.802746419646159  
Episode: 72: Time: 8.981839895248413 Total Reward: 193.40125391849966 Avg\_Loss: 5.5142255064820045  
Episode: 73: Time: 9.062034368515015 Total Reward: 323.0064308681567 Avg\_Loss: 5.766712033948979  
Episode: 74: Time: 8.97783613204956 Total Reward: 342.4999999999961 Avg\_Loss: 6.773057346584416  
Episode: 75: Time: 9.093238353729248 Total Reward: 226.7993079584808 Avg\_Loss: 5.9324939280998805  
Episode: 76: Time: 9.220790386199951 Total Reward: 214.37500000000404 Avg\_Loss: 6.001623046498339  
Episode: 77: Time: 8.880097150802612 Total Reward: 160.73770491803705 Avg\_Loss: 6.039022809317132  
Episode: 78: Time: 8.878198146820068 Total Reward: 380.86206896551266 Avg\_Loss: 6.3700453022948835  
Episode: 79: Time: 8.900635480880737 Total Reward: 141.666666666671 Avg\_Loss: 6.540381905411472  
Episode: 80: Time: 8.880651950836182 Total Reward: 317.3076923076911 Avg\_Loss: 6.328245426426415  
Episode: 81: Time: 8.985002040863037 Total Reward: 363.3333333333287 Avg\_Loss: 6.243428697606094  
Episode: 82: Time: 8.804656028747559 Total Reward: 232.46478873239914 Avg\_Loss: 6.274208794120981

Episode: 83: Time: 8.676821947097778 Total Reward: 145.00000000000392 Avg\_Loss: 6.163693144541829  
Episode: 84: Time: 9.121578454971313 Total Reward: 169.0949554896178 Avg\_Loss: 6.124674570660631  
Episode: 85: Time: 9.009651899337769 Total Reward: 386.6176470588199 Avg\_Loss: 6.255308812906762  
Episode: 86: Time: 9.099703311920166 Total Reward: 390.34201954396707 Avg\_Loss: 6.632770225781353  
Episode: 87: Time: 9.040067911148071 Total Reward: 343.5964912280672 Avg\_Loss: 5.933987073537682  
Episode: 88: Time: 9.076050281524658 Total Reward: 333.57142857142753 Avg\_Loss: 5.837284118187528  
Episode: 89: Time: 8.917668104171753 Total Reward: 311.0150375939793 Avg\_Loss: 5.9893299301131435  
Episode: 90: Time: 9.157706022262573 Total Reward: 390.8934169278975 Avg\_Loss: 5.891021738533213  
Episode: 91: Time: 8.851157665252686 Total Reward: 60.03875968992677 Avg\_Loss: 6.3353149961022766  
Episode: 92: Time: 8.564097166061401 Total Reward: 198.04029304029655 Avg\_Loss: 5.715947996668455  
Episode: 93: Time: 8.902704238891602 Total Reward: 329.6575342465732 Avg\_Loss: 5.826893477880654  
Episode: 94: Time: 9.16528606414795 Total Reward: 372.1052631578892 Avg\_Loss: 6.1401000533785135  
Episode: 95: Time: 9.060025930404663 Total Reward: 433.36879432623374 Avg\_Loss: 6.04397249822857  
Episode: 96: Time: 9.304153680801392 Total Reward: 155.00000000000426 Avg\_Loss: 6.020894598560173  
Episode: 97: Time: 8.78052830696106 Total Reward: 299.366197183094 Avg\_Loss: 5.930347956529184  
Episode: 98: Time: 9.158217191696167 Total Reward: 216.178247734142 Avg\_Loss: 6.13512929247207  
Episode: 99: Time: 8.936630725860596 Total Reward: 333.07017543859183 Avg\_Loss: 6.186478532662912  
Validation Mean Reward: 468.2316288391237 Validation Std Reward: 164.70728540510885  
Episode: 100: Time: 8.90030312538147 Total Reward: 349.06779661016714 Avg\_Loss: 6.355496637460564  
Episode: 101: Time: 8.818978309631348 Total Reward: 312.66550522647236 Avg\_Loss: 6.088183710555069  
Episode: 102: Time: 8.863079309463501 Total Reward: 328.2081911262761 Avg\_Loss: 6.368436020963332  
Episode: 103: Time: 8.852832078933716 Total Reward: 286.75675675675836 Avg\_Loss: 6.297761362139918  
Episode: 104: Time: 8.892276048660278 Total Reward: 315.59602649006126 Avg\_Loss: 6.191193007621445  
Episode: 105: Time: 9.028782844543457 Total Reward: 420.9010600706673 Avg\_Loss: 6.383728964489047  
Episode: 106: Time: 9.372996807098389 Total Reward: 364.15492957745505 Avg\_Loss: 6.148156429539208  
Episode: 107: Time: 8.906398296356201 Total Reward: 235.88235294118135 Avg\_Loss: 6.081189411027091  
Episode: 108: Time: 9.06720232963562 Total Reward: 347.56756756756425 Avg\_Loss: 6.058901989159464  
Episode: 109: Time: 9.074903726577759 Total Reward: 318.19444444444184 Avg\_Loss: 6.383517638975833

Episode: 110: Time: 9.299425601959229 Total Reward: 269.43148688046944 Avg\_Loss: 6.2037993889896805  
Episode: 111: Time: 9.096110820770264 Total Reward: 343.31168831168367 Avg\_Loss: 5.7615008314116665  
Episode: 112: Time: 9.016019344329834 Total Reward: 342.9310344827546 Avg\_Loss: 5.987511538657822  
Episode: 113: Time: 9.08167815208435 Total Reward: 486.81818181746 Avg\_Loss: 5.922261649820985  
Episode: 114: Time: 9.247497797012329 Total Reward: 166.53846153846425 Avg\_Loss: 5.830582815058091  
Episode: 115: Time: 9.126161813735962 Total Reward: 162.3289902280176 Avg\_Loss: 5.872409509009674  
Episode: 116: Time: 9.108531951904297 Total Reward: 308.6363636363635 Avg\_Loss: 6.199760917855912  
Episode: 117: Time: 9.22785234451294 Total Reward: 250.276872964173 Avg\_Loss: 6.120997912743512  
Episode: 118: Time: 8.984291076660156 Total Reward: 336.50684931506726 Avg\_Loss: 5.924262940382757  
Episode: 119: Time: 8.692239046096802 Total Reward: 308.5714285714274 Avg\_Loss: 6.037426803292346  
Episode: 120: Time: 8.863551616668701 Total Reward: 388.55263157894274 Avg\_Loss: 5.809913339735079  
Episode: 121: Time: 9.175024032592773 Total Reward: 255.00000000000313 Avg\_Loss: 6.130678096739184  
Episode: 122: Time: 9.261340856552124 Total Reward: 379.5222929936211 Avg\_Loss: 5.8207204366932395  
Episode: 123: Time: 9.247202634811401 Total Reward: 292.2053872053781 Avg\_Loss: 5.673971290347957  
Episode: 124: Time: 9.169139623641968 Total Reward: 433.301886792442 Avg\_Loss: 5.766151232879703  
Episode: 125: Time: 9.141641616821289 Total Reward: 420.15151515150785 Avg\_Loss: 5.365705503636048  
Episode: 126: Time: 9.2326180934906 Total Reward: 388.18042813455077 Avg\_Loss: 5.816592818548699  
Episode: 127: Time: 9.23341989517212 Total Reward: 357.2292993630537 Avg\_Loss: 5.560486525046725  
Episode: 128: Time: 9.1712167263031 Total Reward: 439.6534653465266 Avg\_Loss: 5.629712339709787  
Episode: 129: Time: 8.97677755355835 Total Reward: 322.5438596491206 Avg\_Loss: 5.774518024019835  
Episode: 130: Time: 8.933695554733276 Total Reward: 173.55123674912073 Avg\_Loss: 5.325212637917335  
Episode: 131: Time: 9.155580759048462 Total Reward: 334.5081967213106 Avg\_Loss: 5.646345194648294  
Episode: 132: Time: 9.31362795829773 Total Reward: 354.0445859872519 Avg\_Loss: 5.37570827047364  
Episode: 133: Time: 8.975593328475952 Total Reward: 406.7667844522911 Avg\_Loss: 6.10733294086296  
Episode: 134: Time: 9.141383171081543 Total Reward: 541.6782006920321 Avg\_Loss: 6.047196122277684  
Episode: 135: Time: 8.80656099319458 Total Reward: 403.12734082396344 Avg\_Loss: 6.125536714281354  
Episode: 136: Time: 8.8642737865448 Total Reward: 491.61417322833813 Avg\_Loss: 6.145409863536098  
Episode: 137: Time: 8.561309337615967 Total Reward: 339.2629482071595 Avg\_Loss: 5.861530353041256

Episode: 138: Time: 9.221336364746094 Total Reward: 298.2926829268296 Avg\_Loss: 5.824019112506835  
Episode: 139: Time: 9.203903675079346 Total Reward: 273.0981595092028 Avg\_Loss: 5.841262102127075  
Episode: 140: Time: 9.491063833236694 Total Reward: 282.7777777777788 Avg\_Loss: 6.463505304160238  
Episode: 141: Time: 9.082810401916504 Total Reward: 487.7586206896485 Avg\_Loss: 6.063040857054606  
Episode: 142: Time: 9.238645315170288 Total Reward: 411.6666666666605 Avg\_Loss: 5.589861113484166  
Episode: 143: Time: 9.385120391845703 Total Reward: 215.44776119403357 Avg\_Loss: 6.209480169440518  
Episode: 144: Time: 9.046092748641968 Total Reward: 301.61016949152094 Avg\_Loss: 5.95375902712846  
Episode: 145: Time: 8.845305442810059 Total Reward: 638.6065573770344 Avg\_Loss: 6.3967428227432634  
Episode: 146: Time: 9.395216464996338 Total Reward: 384.41176470587726 Avg\_Loss: 6.040112980273592  
Episode: 147: Time: 9.097713708877563 Total Reward: 485.1282051282007 Avg\_Loss: 6.06953929552511  
Episode: 148: Time: 9.177312850952148 Total Reward: 428.3333333333292 Avg\_Loss: 5.740354018051083  
Episode: 149: Time: 9.008253574371338 Total Reward: 480.97173144875495 Avg\_Loss: 5.788759528087969  
Validation Mean Reward: 492.63193041175725 Validation Std Reward: 162.27548870021084  
Episode: 150: Time: 9.483519792556763 Total Reward: 375.98976109214163 Avg\_Loss: 5.688849335958977  
Episode: 151: Time: 9.114443063735962 Total Reward: 696.6666666666538 Avg\_Loss: 5.845975727594199  
Episode: 152: Time: 9.465603590011597 Total Reward: 412.28862973760516 Avg\_Loss: 5.962439875642793  
Episode: 153: Time: 8.996148586273193 Total Reward: 498.4065934065835 Avg\_Loss: 6.20971939543716  
Episode: 154: Time: 9.149848937988281 Total Reward: 346.3793103448271 Avg\_Loss: 6.158099134429162  
Episode: 155: Time: 9.045654535293579 Total Reward: 302.2602739726029 Avg\_Loss: 6.31023413193326  
Episode: 156: Time: 9.057140827178955 Total Reward: 446.0447761193939 Avg\_Loss: 5.78962278265913  
Episode: 157: Time: 9.17162275314331 Total Reward: 351.15384615384403 Avg\_Loss: 5.863099718294224  
Episode: 158: Time: 8.709758758544922 Total Reward: 387.26950354609664 Avg\_Loss: 6.061595663303087  
Episode: 159: Time: 8.776059627532959 Total Reward: 368.2352941176398 Avg\_Loss: 5.9780009524161075  
Episode: 160: Time: 8.953487873077393 Total Reward: 406.73010380622156 Avg\_Loss: 5.7029726825842335  
Episode: 161: Time: 9.117899894714355 Total Reward: 131.3513513513555 Avg\_Loss: 5.791663218446138  
Episode: 162: Time: 8.887683391571045 Total Reward: 421.8918918918853 Avg\_Loss: 6.05809783033964  
Episode: 163: Time: 8.77006983757019 Total Reward: 271.6666666666686 Avg\_Loss: 5.987795321380391  
Episode: 164: Time: 8.900785684585571 Total Reward: 513.9965397923806 Avg\_Loss: 6.038491510543503

Episode: 165: Time: 9.246918201446533 Total Reward: 391.1538461538396 Avg\_Loss: 5.911325483762917  
Episode: 166: Time: 9.123233079910278 Total Reward: 375.4049844236672 Avg\_Loss: 6.092941744988706  
Episode: 167: Time: 8.924655675888062 Total Reward: 519.3344709897474 Avg\_Loss: 6.117993170473756  
Episode: 168: Time: 8.928216934204102 Total Reward: 547.1404682274164 Avg\_Loss: 5.816819082789061  
Episode: 169: Time: 8.831780433654785 Total Reward: 504.31506849314377 Avg\_Loss: 5.991126857885794  
Episode: 170: Time: 8.656875371932983 Total Reward: 543.2113821138146 Avg\_Loss: 6.41523120082727  
Episode: 171: Time: 9.141057014465332 Total Reward: 367.9080118694354 Avg\_Loss: 5.72494311492984  
Episode: 172: Time: 8.838615894317627 Total Reward: 394.2857142857093 Avg\_Loss: 5.961509667524771  
Episode: 173: Time: 8.741678476333618 Total Reward: 336.73431734316955 Avg\_Loss: 6.000063786987497  
Episode: 174: Time: 8.608460903167725 Total Reward: 353.4126984126954 Avg\_Loss: 6.0212915043870945  
Episode: 175: Time: 8.75484561920166 Total Reward: 373.16479400748716 Avg\_Loss: 5.9598151926232985  
Episode: 176: Time: 8.829013109207153 Total Reward: 356.9572953736585 Avg\_Loss: 6.222374537411858  
Episode: 177: Time: 8.732270002365112 Total Reward: 484.3357933579224 Avg\_Loss: 5.799065840344469  
Episode: 178: Time: 8.965213537216187 Total Reward: 389.94983277591035 Avg\_Loss: 6.347992421198292  
Episode: 179: Time: 9.032500982284546 Total Reward: 304.33993399340113 Avg\_Loss: 5.816112191737199  
Episode: 180: Time: 9.248551368713379 Total Reward: 343.87147335422515 Avg\_Loss: 6.18525776041656  
Episode: 181: Time: 8.801539421081543 Total Reward: 637.8767123287553 Avg\_Loss: 5.836492621598124  
Episode: 182: Time: 8.812108278274536 Total Reward: 564.7938144329794 Avg\_Loss: 6.195139836864311  
Episode: 183: Time: 9.2008535861969 Total Reward: 430.8620689655119 Avg\_Loss: 6.221855175595324  
Episode: 184: Time: 8.66279911994934 Total Reward: 526.3991769547254 Avg\_Loss: 6.192809664902567  
Episode: 185: Time: 8.784388542175293 Total Reward: 613.4870848708402 Avg\_Loss: 6.089628597267535  
Episode: 186: Time: 8.896945714950562 Total Reward: 350.85987261145846 Avg\_Loss: 6.108258275424733  
Episode: 187: Time: 9.187250137329102 Total Reward: 441.36363636362375 Avg\_Loss: 5.892622294546175  
Episode: 188: Time: 8.87038803100586 Total Reward: 314.7222222222111 Avg\_Loss: 6.472536363521544  
Episode: 189: Time: 8.716774940490723 Total Reward: 274.71830985915466 Avg\_Loss: 6.280903064904093  
Episode: 190: Time: 8.684787511825562 Total Reward: 428.4657039711135 Avg\_Loss: 6.299746735757139  
Episode: 191: Time: 8.902358531951904 Total Reward: 329.6575342465748 Avg\_Loss: 6.346883165736158  
Episode: 192: Time: 9.003032922744751 Total Reward: 323.23899371068944 Avg\_Loss: 6.25149845576086

Episode: 193: Time: 8.74174165725708 Total Reward: 431.31578947367507 Avg\_Loss: 6.178008529318481  
 Episode: 194: Time: 9.114672899246216 Total Reward: 384.8761609907059 Avg\_Loss: 6.738975046061668  
 Episode: 195: Time: 8.82404637336731 Total Reward: 463.62068965516164 Avg\_Loss: 6.3528156831484885  
 Episode: 196: Time: 8.81563925743103 Total Reward: 488.9416058394092 Avg\_Loss: 6.172656366805069  
 Episode: 197: Time: 9.235471725463867 Total Reward: 263.9743589743562 Avg\_Loss: 6.08975508533606  
 Episode: 198: Time: 8.825702905654907 Total Reward: 343.20224719100054 Avg\_Loss: 6.025180429971519  
 Episode: 199: Time: 9.022519826889038 Total Reward: 328.5668789808884 Avg\_Loss: 5.779696464538574  
 Validation Mean Reward: 487.9650956245007 Validation Std Reward: 134.3409266799912  
 Test Mean Reward: 549.5277772028743 Test Std Reward: 156.81387356367148

```
In [13]: img_path = os.path.join('.', 'images', 'soft_dqn_stats.png')
display(Image(filename=img_path))
```

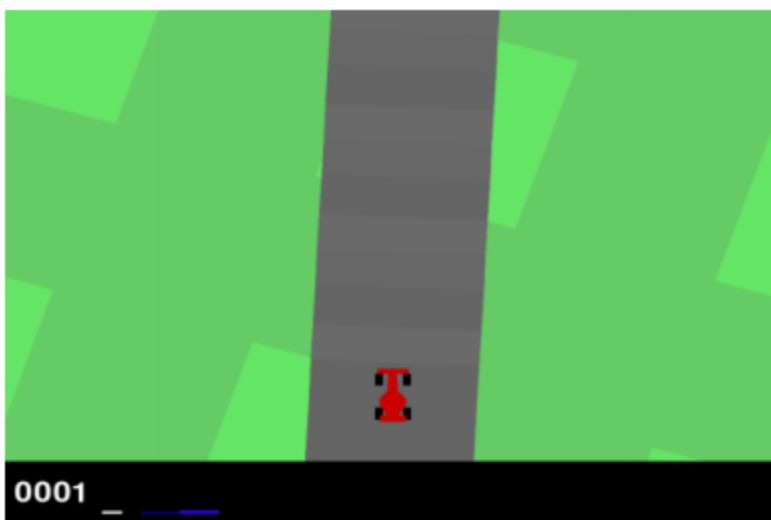


## Animation

```
In [14]: total_rewards, frames = trainSoftUpdateDQN.play_episode(0, True, 42)
anim = animate(frames)
HTML(anim.to_jshtml())
```



Out[14]:



```
In [15]: img_path = os.path.join('.', 'images', 'results_summary.png')
display(Image(filename=img_path))
```



base\_DQN:

**Validation Mean Reward:** 623.8010792168969 **Validation Std Reward:** 201.97060741012447 **Test Mean Reward:** 605.0771519145571 **Test Std Reward:** 181.9873134653002

hard\_update\_DQN:

**Validation Mean Reward:** 513.33562338453 **Validation Std Reward:** 170.58048857484997 **Test Mean Reward:** 446.53865528587494 **Test Std Reward:** 175.3391396087704

soft\_update\_DQN:

**Validation Mean Reward:** 487.9650956245007 **Validation Std Reward:** 134.3409266799912 **Test Mean Reward:** 549.5277772028743 **Test Std Reward:** 156.81387356367148

## Questions (10 points)

- Which method performed better? (5 points)

Your answer:

- Best overall was the base\_DQN which had the highest test mean reward (605.08) albeit with somewhat higher variance.
- Among the variants, softupdateDQN performed better than hard updates on both test mean and variance which demonstrates more stable performance.

- If we modify the  $\tau$  for soft updates **or** the  $C$  for the hard updates, how does this affect the performance of the model, come up with a intuition for this, then experimentally verify this. (5 points)

Your answer:

Intuition:

Update Type	Param	Small Value Effect	Large Value Effect	Paper Implication
Hard	$C$	Fast, unstable	Stable, slow	Used large $C$ for stability
Soft	$\tau$	Stable, slow	Fast, unstable	Not used, but similar idea

From experiments (C sweep summary - hard update DQN):

Param	mean_test_reward	std_test_reward	Notes
$C = 20$	<b>Highest</b>	<b>Highest</b>	Learns fast, but volatile
$C = 100$	Moderate	Moderate	Balanced, stable learning
$C = 500$	Slightly worse	Lower std	More stable but slower

From experiments (Tau sweep summary - hard update DQN):

Param	mean_test_reward	std_test_reward	Notes
$\tau = 0.05$	<b>Highest</b>	Moderate	Fast learning, decent stability
$\tau = 0.01$	Lower	Lowest	Conservative blending
$\tau = 0.001$	Slightly better than $\tau=0.01$	<b>Highest std</b>	Too slow, underreactive

Based on these results, our intuition held up:

- Hard update DQN performs best at moderate update frequency ( $C=100$ ), balancing stability and learning speed; too frequent ( $C=20$ ) causes instability, while too infrequent ( $C=500$ ) slows convergence.
- Soft update DQN benefits from higher blending rate ( $\tau=0.05$ ), which accelerates learning without excessive variance; very small  $\tau$  (e.g., 0.001) leads to sluggish, underresponsive updates.

## Tau Sweep Summary

```
In [18]: img_path = os.path.join('.', 'images', 'tau_results_summary.png')
display(Image(filename=img_path))
```



```
seed = 42,  
epsilon_scheduler = utils.exponential_decay(1, 1000, 0.1),  
save_path = utils.get_save_path("DoubleDQN_HardUpdates_test/  
trainerHardUpdateDQN.train(200, 50, 30, 50, 50)
```

saving to ./runs/DoubleDQN\_HardUpdates\_test/run0  
Finishing previous runs because reinit is set to 'default'.

**wandb:** **ERROR** The nbformat package was not found. It is required to save notebook history.

View run **golden-sun-7** at: <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/4dulynil>

View project at: <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

Synced 5 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at: ./wandb/run-20250608\_115956-4dulynil/logs

Tracking run with wandb version 0.20.0

Run data is saved locally in

/home/tilboon/Documents/239AS\_2/Project\_4/wandb/run-20250608\_120603-wf6uzpa1

Syncing run **lemon-gorge-8** to [Weights & Biases \(docs\)](#)

View project at <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

View run at <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/wf6uzpa1>

Episode: 0: Time: 6.5495007038116455 Total Reward: -62.625899280576135 Avg\_Loss: 0.0  
Episode: 1: Time: 8.952810287475586 Total Reward: -43.71794871794898 Avg\_Loss: 0.655454914732154  
Episode: 2: Time: 9.572886228561401 Total Reward: -32.95620437956232 Avg\_Loss: 0.6020928432992777  
Episode: 3: Time: 9.546243667602539 Total Reward: -41.428571428571615 Avg\_Loss: 0.6830792658406646  
Episode: 4: Time: 9.807853698730469 Total Reward: -27.65993265993282 Avg\_Loss: 0.8070681379685382  
Episode: 5: Time: 9.249284267425537 Total Reward: -49.22535211267672 Avg\_Loss: 0.7828165134336768  
Episode: 6: Time: 8.746994256973267 Total Reward: -45.38167938931362 Avg\_Loss: 0.8369419920657363  
Episode: 7: Time: 9.633396863937378 Total Reward: -59.843750000000696 Avg\_Loss: 0.6991477351666999  
Episode: 8: Time: 9.314960956573486 Total Reward: -47.89855072463837 Avg\_Loss: 0.7516652555244059  
Episode: 9: Time: 8.835227012634277 Total Reward: -23.030303030303724 Avg\_Loss: 0.9756142547776719  
Episode: 10: Time: 9.29691767692566 Total Reward: -29.640522875817716 Avg\_Loss: 0.9804354608685029  
Episode: 11: Time: 9.26706600189209 Total Reward: -51.67870036101155 Avg\_Loss: 1.0688985536704545  
Episode: 12: Time: 9.32113242149353 Total Reward: -40.619335347432724 Avg\_Loss: 1.394059543943956  
Episode: 13: Time: 9.310064554214478 Total Reward: -2.849829351536486 Avg\_Loss: 1.4449641145452732  
Episode: 14: Time: 9.329903602600098 Total Reward: -23.813559322034653 Avg\_Loss: 1.267923413016716  
Episode: 15: Time: 9.483307600021362 Total Reward: -21.045016077171116 Avg\_Loss: 1.1287395877121877  
Episode: 16: Time: 9.304885149002075 Total Reward: 45.350877192985386 Avg\_Loss: 1.4229860897136837  
Episode: 17: Time: 9.840331554412842 Total Reward: 132.11864406780097 Avg\_Loss: 1.5506247407874139  
Episode: 18: Time: 9.935387372970581 Total Reward: 4.68847352024922 Avg\_Loss: 1.9770977775714977  
Episode: 19: Time: 9.667186737060547 Total Reward: -62.63754045307509 Avg\_Loss: 1.6694817968151148  
Episode: 20: Time: 9.90787410736084 Total Reward: 52.88732394366508 Avg\_Loss: 1.5985426185261302  
Episode: 21: Time: 9.96624493598938 Total Reward: 354.3243243243212 Avg\_Loss: 1.7849166542291641  
Episode: 22: Time: 9.457099914550781 Total Reward: 167.41134751773538 Avg\_Loss: 2.6081341922032735  
Episode: 23: Time: 9.894036531448364 Total Reward: 249.0860215053798 Avg\_Loss: 2.8840751991051587  
Episode: 24: Time: 9.857326030731201 Total Reward: -66.1538461538468 Avg\_Loss: 2.7721320475850786  
Episode: 25: Time: 9.692387342453003 Total Reward: 322.5824175824173 Avg\_Loss: 2.283662050461569  
Episode: 26: Time: 9.788154363632202 Total Reward: 111.29370629370575 Avg\_Loss: 2.26493535760571  
Episode: 27: Time: 9.844635248184204 Total Reward: 191.71328671328777 Avg\_Loss: 2.4261854736744857

Episode: 28: Time: 9.960933446884155 Total Reward: 158.91849529780933 Avg\_Loss: 2.884026718740704  
Episode: 29: Time: 9.880461692810059 Total Reward: 84.5774647887329 Avg\_Loss: 3.0460202603780924  
Episode: 30: Time: 9.687227725982666 Total Reward: 59.12186379928757 Avg\_Loss: 3.0537342213156844  
Episode: 31: Time: 9.898269653320312 Total Reward: 42.50000000000008 Avg\_Loss: 3.0280169098317122  
Episode: 32: Time: 9.808274269104004 Total Reward: 239.6007604562787 Avg\_Loss: 3.2752720342964685  
Episode: 33: Time: 9.932083368301392 Total Reward: 329.8366013071907 Avg\_Loss: 3.4929613744010446  
Episode: 34: Time: 10.163429021835327 Total Reward: 202.46835443038498 Avg\_Loss: 3.275465806241797  
Episode: 35: Time: 9.943961143493652 Total Reward: 125.12578616352641 Avg\_Loss: 3.405127404116783  
Episode: 36: Time: 10.004844665527344 Total Reward: 300.3488372093022 Avg\_Loss: 3.4263984077617904  
Episode: 37: Time: 9.9406259059906 Total Reward: 219.6417445482907 Avg\_Loss: 3.612440524231486  
Episode: 38: Time: 9.560728549957275 Total Reward: 285.5970149253707 Avg\_Loss: 4.507235213988969  
Episode: 39: Time: 9.980370998382568 Total Reward: 218.29113924051083 Avg\_Loss: 4.423728868740947  
Episode: 40: Time: 9.88417387008667 Total Reward: 355.90909090908417 Avg\_Loss: 4.487317558096237  
Episode: 41: Time: 9.654994010925293 Total Reward: 385.916030534347 Avg\_Loss: 4.508713839935655  
Episode: 42: Time: 9.911081552505493 Total Reward: 309.6052631578914 Avg\_Loss: 4.339450985443692  
Episode: 43: Time: 9.783241987228394 Total Reward: 355.9090909090895 Avg\_Loss: 5.586673086430846  
Episode: 44: Time: 9.830735445022583 Total Reward: 335.50847457626924 Avg\_Loss: 4.281008003138695  
Episode: 45: Time: 10.089322805404663 Total Reward: 315.958904109591 Avg\_Loss: 4.300970805793249  
Episode: 46: Time: 9.723674774169922 Total Reward: 351.4285714285685 Avg\_Loss: 4.577112351645942  
Episode: 47: Time: 10.035784721374512 Total Reward: 400.2076677316242 Avg\_Loss: 4.965706198155379  
Episode: 48: Time: 9.785735845565796 Total Reward: 177.10884353741656 Avg\_Loss: 4.817072315877225  
Episode: 49: Time: 9.753089904785156 Total Reward: 139.69387755102017 Avg\_Loss: 5.15777806574557  
Validation Mean Reward: 376.79806168108155 Validation Std Reward: 162.15430051107649  
Episode: 50: Time: 9.312292575836182 Total Reward: 246.2162162162207 Avg\_Loss: 4.726297724647682  
Episode: 51: Time: 9.159210443496704 Total Reward: 333.13455657492085 Avg\_Loss: 5.195189803087411  
Episode: 52: Time: 8.899564266204834 Total Reward: 313.16326530612366 Avg\_Loss: 5.7420914764163875  
Episode: 53: Time: 8.632073402404785 Total Reward: 180.9856630824416 Avg\_Loss: 5.164476951130298  
Episode: 54: Time: 8.833472490310669 Total Reward: 397.6470588235246 Avg\_Loss: 6.286344790659031

Episode: 55: Time: 8.770053386688232 Total Reward: 333.0575539568341 Avg\_Loss: 6.734343190153106  
Episode: 56: Time: 8.744435548782349 Total Reward: 168.15789473684652 Avg\_Loss: 5.154827128939268  
Episode: 57: Time: 8.724367618560791 Total Reward: 396.1660777385148 Avg\_Loss: 4.738316903595163  
Episode: 58: Time: 8.313927412033081 Total Reward: 85.50541516245846 Avg\_Loss: 4.620431852941754  
Episode: 59: Time: 8.664697170257568 Total Reward: 346.4062500000006 Avg\_Loss: 4.092609975017419  
Episode: 60: Time: 8.624260425567627 Total Reward: 458.11355311354225 Avg\_Loss: 4.444923300703032  
Episode: 61: Time: 8.959390878677368 Total Reward: 208.22580645161688 Avg\_Loss: 4.204730290825627  
Episode: 62: Time: 8.859929084777832 Total Reward: 448.33333333332234 Avg\_Loss: 3.869640484076588  
Episode: 63: Time: 8.629826307296753 Total Reward: 438.5689045936297 Avg\_Loss: 4.663029445319617  
Episode: 64: Time: 8.674881219863892 Total Reward: 381.5100671140887 Avg\_Loss: 4.830588714415286  
Episode: 65: Time: 8.940448522567749 Total Reward: 363.8607594936642 Avg\_Loss: 4.994564618383135  
Episode: 66: Time: 9.107543706893921 Total Reward: 443.4615384615305 Avg\_Loss: 5.006062305775009  
Episode: 67: Time: 8.77268123626709 Total Reward: 477.88135593219675 Avg\_Loss: 5.012529585040918  
Episode: 68: Time: 8.731301307678223 Total Reward: 442.366548042701 Avg\_Loss: 4.357497500772236  
Episode: 69: Time: 8.57067608833313 Total Reward: 586.632653061213 Avg\_Loss: 5.241404844933197  
Episode: 70: Time: 8.815603494644165 Total Reward: 547.5855513307906 Avg\_Loss: 5.064570444471696  
Episode: 71: Time: 8.840604305267334 Total Reward: 412.2463768115881 Avg\_Loss: 5.264630345236354  
Episode: 72: Time: 9.049682140350342 Total Reward: 365.81504702193956 Avg\_Loss: 5.340474135735455  
Episode: 73: Time: 9.046900510787964 Total Reward: 245.83601286173968 Avg\_Loss: 5.982070214107257  
Episode: 74: Time: 8.800192832946777 Total Reward: 370.2777777777753 Avg\_Loss: 5.518221905251511  
Episode: 75: Time: 9.028656005859375 Total Reward: 368.66782006919516 Avg\_Loss: 5.167770833528342  
Episode: 76: Time: 9.112618446350098 Total Reward: 379.99999999999636 Avg\_Loss: 5.435021523667984  
Episode: 77: Time: 9.064903497695923 Total Reward: 364.01639344261827 Avg\_Loss: 4.675868606367031  
Episode: 78: Time: 8.93052339553833 Total Reward: 353.2758620689642 Avg\_Loss: 5.005740009936966  
Episode: 79: Time: 9.037742376327515 Total Reward: 291.6666666666636 Avg\_Loss: 5.010442207340433  
Episode: 80: Time: 9.073769330978394 Total Reward: 120.38461538461897 Avg\_Loss: 5.3990987559326555  
Episode: 81: Time: 8.979736804962158 Total Reward: 369.7435897435853 Avg\_Loss: 4.778115665712276  
Episode: 82: Time: 8.757277250289917 Total Reward: 422.6056338028118 Avg\_Loss: 5.361994026087913



Episode: 83: Time: 8.740690231323242 Total Reward: 241.6666666666695 Avg\_Loss: 4.844394313688038  
Episode: 84: Time: 9.028905868530273 Total Reward: 507.37388724034963 Avg\_Loss: 5.485330219028377  
Episode: 85: Time: 8.7088942527771 Total Reward: 618.2352941176345 Avg\_Loss: 4.439107630934034  
Episode: 86: Time: 8.790470361709595 Total Reward: 334.96742671009406 Avg\_Loss: 5.22287832338269  
Episode: 87: Time: 8.84617280960083 Total Reward: 371.6666666666593 Avg\_Loss: 4.951188658465858  
Episode: 88: Time: 9.0144944190979 Total Reward: 353.0519480519474 Avg\_Loss: 4.965974067439552  
Episode: 89: Time: 8.862312078475952 Total Reward: 435.07518796991116 Avg\_Loss: 5.376831813519742  
Episode: 90: Time: 9.088538646697998 Total Reward: 303.1191222570494 Avg\_Loss: 5.878577851447739  
Episode: 91: Time: 8.677466869354248 Total Reward: 373.9922480620108 Avg\_Loss: 5.384941730679584  
Episode: 92: Time: 8.746922492980957 Total Reward: 549.6886446886349 Avg\_Loss: 5.1039762171376655  
Episode: 93: Time: 8.7941312789917 Total Reward: 524.8630136986222 Avg\_Loss: 5.056091501933186  
Episode: 94: Time: 8.964143991470337 Total Reward: 497.10526315788644 Avg\_Loss: 5.78759402787986  
Episode: 95: Time: 9.0098717212677 Total Reward: 461.737588652475 Avg\_Loss: 4.84402595347717  
Episode: 96: Time: 9.249739646911621 Total Reward: 355.6172839506156 Avg\_Loss: 5.271173203692717  
Episode: 97: Time: 8.923067808151245 Total Reward: 436.6901408450597 Avg\_Loss: 5.4071093226681235  
Episode: 98: Time: 9.256075859069824 Total Reward: 270.5589123867046 Avg\_Loss: 5.226254833846533  
Episode: 99: Time: 9.088696241378784 Total Reward: 452.3684210526226 Avg\_Loss: 5.455139267845314  
Validation Mean Reward: 563.1704624908373 Validation Std Reward: 112.9437492163582  
Episode: 100: Time: 9.175991296768188 Total Reward: 189.74576271186888 Avg\_Loss: 5.625657477298705  
Episode: 101: Time: 9.045287132263184 Total Reward: 364.93031358884355 Avg\_Loss: 5.7727654441064145  
Episode: 102: Time: 9.133816242218018 Total Reward: 464.7269624573265 Avg\_Loss: 5.691650607505767  
Episode: 103: Time: 9.02588176727295 Total Reward: 303.6486486486431 Avg\_Loss: 5.931471967396616  
Episode: 104: Time: 9.087037324905396 Total Reward: 358.64238410595647 Avg\_Loss: 5.10028039657769  
Episode: 105: Time: 9.090594291687012 Total Reward: 378.49823321554436 Avg\_Loss: 5.1675359020714  
Episode: 106: Time: 9.312061786651611 Total Reward: 431.7605633802747 Avg\_Loss: 5.218024882949701  
Episode: 107: Time: 8.822723388671875 Total Reward: 452.7941176470533 Avg\_Loss: 6.10216859609139  
Episode: 108: Time: 8.979605436325073 Total Reward: 587.432432432424 Avg\_Loss: 6.109134253333597  
Episode: 109: Time: 9.101206064224243 Total Reward: 248.75000000000145 Avg\_Loss: 5.827900310524371

Episode: 110: Time: 9.350907802581787 Total Reward: 161.5597667638528 Avg\_Loss: 5.778121238997002  
Episode: 111: Time: 9.11279010772705 Total Reward: 340.0649350649344 Avg\_Loss: 5.398849215327191  
Episode: 112: Time: 8.999662160873413 Total Reward: 380.8620689655113 Avg\_Loss: 5.3346634872821195  
Episode: 113: Time: 8.86205768585205 Total Reward: 206.81818181818596 Avg\_Loss: 5.4340534385512855  
Episode: 114: Time: 9.120033740997314 Total Reward: 206.53846153846553 Avg\_Loss: 5.9793353311154025  
Episode: 115: Time: 9.068922281265259 Total Reward: 501.0912052117196 Avg\_Loss: 5.137741150976229  
Episode: 116: Time: 8.813103914260864 Total Reward: 337.72727272727195 Avg\_Loss: 5.255498219938839  
Episode: 117: Time: 8.978428363800049 Total Reward: 214.4462540716658 Avg\_Loss: 5.806656791382477  
Episode: 118: Time: 8.81026029586792 Total Reward: 387.87671232875994 Avg\_Loss: 5.547824719372918  
Episode: 119: Time: 8.731915950775146 Total Reward: 508.5714285714171 Avg\_Loss: 6.229006130655272  
Episode: 120: Time: 8.770632028579712 Total Reward: 414.86842105262787 Avg\_Loss: 5.742734715718181  
Episode: 121: Time: 9.07791781425476 Total Reward: 419.7058823529335 Avg\_Loss: 5.670873563329713  
Episode: 122: Time: 9.034256935119629 Total Reward: 465.5095541401133 Avg\_Loss: 5.577330562246948  
Episode: 123: Time: 9.021939277648926 Total Reward: 295.5723905723843 Avg\_Loss: 5.57174618805156  
Episode: 124: Time: 8.923874855041504 Total Reward: 530.7861635220012 Avg\_Loss: 5.487766927029906  
Episode: 125: Time: 8.801369667053223 Total Reward: 319.1414141414166 Avg\_Loss: 5.74230088606602  
Episode: 126: Time: 8.905743598937988 Total Reward: 333.13455657491903 Avg\_Loss: 5.3411065400147635  
Episode: 127: Time: 8.98410677909851 Total Reward: 274.42675159234847 Avg\_Loss: 6.29606388897455  
Episode: 128: Time: 8.90984058380127 Total Reward: 350.54455445544113 Avg\_Loss: 5.732430378929908  
Episode: 129: Time: 8.69679880142212 Total Reward: 522.5438596491148 Avg\_Loss: 5.53923446490985  
Episode: 130: Time: 8.749695539474487 Total Reward: 583.445229681969 Avg\_Loss: 5.584022810479172  
Episode: 131: Time: 8.929392576217651 Total Reward: 459.09836065573 Avg\_Loss: 5.822902506139098  
Episode: 132: Time: 9.021062850952148 Total Reward: 264.87261146496985 Avg\_Loss: 5.616636204118488  
Episode: 133: Time: 8.618757486343384 Total Reward: 424.4346289752594 Avg\_Loss: 5.854095436444803  
Episode: 134: Time: 8.837188959121704 Total Reward: 406.7301038062186 Avg\_Loss: 5.4884401369495555  
Episode: 135: Time: 8.621813535690308 Total Reward: 358.1835205992434 Avg\_Loss: 5.204802545178838  
Episode: 136: Time: 8.673527956008911 Total Reward: 853.8188976377841 Avg\_Loss: 6.0595745900098015  
Episode: 137: Time: 8.592684745788574 Total Reward: 486.673306772902 Avg\_Loss: 6.09539388458268

Episode: 138: Time: 9.170080423355103 Total Reward: 484.2682926829189 Avg\_Loss: 5.750886100680888  
Episode: 139: Time: 8.99093508720398 Total Reward: 365.12269938650195 Avg\_Loss: 6.117053145120124  
Episode: 140: Time: 9.292836666107178 Total Reward: 346.6666666666607 Avg\_Loss: 5.611735011850085  
Episode: 141: Time: 8.828991651535034 Total Reward: 484.31034482757775 Avg\_Loss: 5.85176264939188  
Episode: 142: Time: 9.030216932296753 Total Reward: 501.6666666666574 Avg\_Loss: 5.839071276808987  
Episode: 143: Time: 9.201725721359253 Total Reward: 319.92537313432695 Avg\_Loss: 6.134836316108704  
Episode: 144: Time: 8.839284658432007 Total Reward: 338.89830508473875 Avg\_Loss: 6.0243308123420265  
Episode: 145: Time: 8.683513402938843 Total Reward: 564.8360655737574 Avg\_Loss: 5.785106777143078  
Episode: 146: Time: 9.341193199157715 Total Reward: 499.1176470588143 Avg\_Loss: 5.490948895446393  
Episode: 147: Time: 9.074527740478516 Total Reward: 417.82051282050793 Avg\_Loss: 6.078458813058228  
Episode: 148: Time: 9.171911478042603 Total Reward: 528.3333333333211 Avg\_Loss: 5.8246965423351575  
Episode: 149: Time: 9.049257516860962 Total Reward: 378.4982332155387 Avg\_Loss: 5.284171712498705  
Validation Mean Reward: 475.74485229204504 Validation Std Reward: 211.1280351266616  
Episode: 150: Time: 9.455951690673828 Total Reward: 416.94539249146254 Avg\_Loss: 5.6597360432648856  
Episode: 151: Time: 9.274663925170898 Total Reward: 476.9696969696909 Avg\_Loss: 6.213148237276478  
Episode: 152: Time: 9.412887573242188 Total Reward: 208.20699708455106 Avg\_Loss: 6.432444860454367  
Episode: 153: Time: 8.942827463150024 Total Reward: 571.6666666666586 Avg\_Loss: 6.348932544223401  
Episode: 154: Time: 9.127218008041382 Total Reward: 460.1724137930977 Avg\_Loss: 5.56984365487299  
Episode: 155: Time: 9.083600759506226 Total Reward: 288.56164383561315 Avg\_Loss: 6.004022382888474  
Episode: 156: Time: 9.098911762237549 Total Reward: 502.01492537312697 Avg\_Loss: 5.746527579652161  
Episode: 157: Time: 9.077198028564453 Total Reward: 169.6153846153885 Avg\_Loss: 6.018673110408943  
Episode: 158: Time: 8.935819387435913 Total Reward: 518.4751773049586 Avg\_Loss: 5.434718360420034  
Episode: 159: Time: 8.880932092666626 Total Reward: 397.6470588235231 Avg\_Loss: 6.029916905555405  
Episode: 160: Time: 9.13607144355774 Total Reward: 486.3148788927235 Avg\_Loss: 6.062339624436963  
Episode: 161: Time: 9.218574523925781 Total Reward: 418.51351351350985 Avg\_Loss: 5.245007499927232  
Episode: 162: Time: 9.075580596923828 Total Reward: 269.8648648648677 Avg\_Loss: 6.514530604126072  
Episode: 163: Time: 9.109979391098022 Total Reward: 488.33333333332223 Avg\_Loss: 5.979726872524293  
Episode: 164: Time: 9.067340850830078 Total Reward: 486.31487889272614 Avg\_Loss: 5.827657920973642

Episode: 165: Time: 9.432322978973389 Total Reward: 360.38461538460604 Avg\_Loss: 6.214004869721517  
Episode: 166: Time: 9.178732872009277 Total Reward: 534.2834890965626 Avg\_Loss: 7.3079368757600545  
Episode: 167: Time: 9.19777226448059 Total Reward: 423.7713310580111 Avg\_Loss: 6.774131379708522  
Episode: 168: Time: 9.09201455116272 Total Reward: 500.3177257525025 Avg\_Loss: 6.630632963501105  
Episode: 169: Time: 9.066387414932251 Total Reward: 343.3561643835604 Avg\_Loss: 6.031928031384444  
Episode: 170: Time: 8.991393327713013 Total Reward: 531.0162601625879 Avg\_Loss: 5.949311156232818  
Episode: 171: Time: 9.33280324935913 Total Reward: -3.0118694362024083 Avg\_Loss: 5.9842137258593775  
Episode: 172: Time: 9.114694118499756 Total Reward: 590.7142857142743 Avg\_Loss: 5.711179994735398  
Episode: 173: Time: 8.994828224182129 Total Reward: 499.09594095940224 Avg\_Loss: 5.87244689564745  
Episode: 174: Time: 8.893805742263794 Total Reward: 615.3174603174494 Avg\_Loss: 5.599986789106321  
Episode: 175: Time: 9.00933313369751 Total Reward: 826.3483146067322 Avg\_Loss: 5.94033504834696  
Episode: 176: Time: 9.15973448753357 Total Reward: 595.391459074724 Avg\_Loss: 5.89575094735923  
Episode: 177: Time: 9.070490598678589 Total Reward: 628.2472324723176 Avg\_Loss: 6.7693416641539885  
Episode: 178: Time: 9.305131912231445 Total Reward: 359.84949832775476 Avg\_Loss: 6.0214857454059505  
Episode: 179: Time: 9.260103464126587 Total Reward: 479.25742574256924 Avg\_Loss: 6.315702683785382  
Episode: 180: Time: 9.540346145629883 Total Reward: 312.5235109717791 Avg\_Loss: 6.721808438541508  
Episode: 181: Time: 8.951114654541016 Total Reward: 651.575342465743 Avg\_Loss: 6.179653552399964  
Episode: 182: Time: 9.023867130279541 Total Reward: 547.6116838487935 Avg\_Loss: 6.049509453172443  
Episode: 183: Time: 9.413198471069336 Total Reward: 272.81609195401387 Avg\_Loss: 6.1105186748905345  
Episode: 184: Time: 8.820467948913574 Total Reward: 509.93827160493083 Avg\_Loss: 6.494148974659062  
Episode: 185: Time: 9.031449794769287 Total Reward: 650.387453874529 Avg\_Loss: 6.452501959159594  
Episode: 186: Time: 9.496684789657593 Total Reward: 427.2929936305645 Avg\_Loss: 6.522313643904293  
Episode: 187: Time: 9.415345191955566 Total Reward: 404.9999999999937 Avg\_Loss: 7.05122645061557  
Episode: 188: Time: 9.147208213806152 Total Reward: 502.222222222121 Avg\_Loss: 6.277145289573349  
Episode: 189: Time: 9.179821014404297 Total Reward: 545.8450704225239 Avg\_Loss: 6.659776904001958  
Episode: 190: Time: 8.973827600479126 Total Reward: 266.01083032491255 Avg\_Loss: 6.169942862847272  
Episode: 191: Time: 9.324206352233887 Total Reward: 305.6849315068482 Avg\_Loss: 6.523924737417397  
Episode: 192: Time: 9.245073318481445 Total Reward: 269.7798742138383 Avg\_Loss: 6.584982914083144

Episode: 193: Time: 9.061000108718872 Total Reward: 442.5939849624005 Avg\_Loss: 7.013026714324951  
Episode: 194: Time: 9.383429050445557 Total Reward: 428.2198142414835 Avg\_Loss: 7.568753500946429  
Episode: 195: Time: 9.190256595611572 Total Reward: 470.51724137929637 Avg\_Loss: 6.755424574643624  
Episode: 196: Time: 9.157865762710571 Total Reward: 419.5985401459824 Avg\_Loss: 7.006165170869908  
Episode: 197: Time: 9.459447860717773 Total Reward: 204.145299145304 Avg\_Loss: 6.930825941702899  
Episode: 198: Time: 9.065754175186157 Total Reward: 635.3370786516743 Avg\_Loss: 7.33348697373847  
Episode: 199: Time: 9.326997756958008 Total Reward: 280.7961783439492 Avg\_Loss: 7.329927698904727  
Validation Mean Reward: 667.1884506460161 Validation Std Reward: 163.57638182437205  
Test Mean Reward: 615.0866983203043 Test Std Reward: 181.67272041497947

```
In [13]: trainerHardUpdateDQN = DQN.HardUpdateDQN(EnvWrapper(env),
          model.Nature_Paper_Conv,
          update_freq = 500,                                # Change this
          lr = 0.00025,
          gamma = 0.95,
          buffer_size = 100000,
          batch_size = 32,
          loss_fn = "mse_loss",
          use_wandb = True,
          device = 'cuda',
          seed = 42,
          epsilon_scheduler = utils.exponential_decay(1, 1000, 0.1),
          save_path = utils.get_save_path("DoubleDQN_HardUpdates_test/"),

          trainerHardUpdateDQN.train(200, 50, 30, 50, 50)
```

saving to ./runs/DoubleDQN\_HardUpdates\_test/run1  
Finishing previous runs because reinit is set to 'default'.

## Run history:



## Run summary:

loss	7.32993
mean_reward	667.18845
mean_test_reward	615.0867
std_reward	163.57638
std_test_reward	181.67272
total_reward	280.79618

View run **lemon-gorge-8** at: <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/wf6uzpa1>

View project at: <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

Synced 5 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at: ./wandb/run-20250608\_120603-wf6uzpa1/logs

Tracking run with wandb version 0.20.0

Run data is saved locally in

/home/tilboon/Documents/239AS\_2/Project\_4/wandb/run-20250608\_130613-j8bv0sy5

Syncing run **polar-snowball-9** to [Weights & Biases \(docs\)](#)

View project at <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

View run at <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/j8bv0sy5>

Episode: 0: Time: 6.4389026165008545 Total Reward: -52.031250000000355 Avg\_Loss: 0.0  
Episode: 1: Time: 8.255250930786133 Total Reward: -31.39575971731456 Avg\_Loss: 0.7503820823588568  
Episode: 2: Time: 8.446129560470581 Total Reward: -30.018050541516196 Avg\_Loss: 0.9030566392701214  
Episode: 3: Time: 8.575628519058228 Total Reward: -61.777408637874416 Avg\_Loss: 0.7929545947734047  
Episode: 4: Time: 8.874367952346802 Total Reward: -62.21311475409895 Avg\_Loss: 0.6885187760339815  
Episode: 5: Time: 8.308270692825317 Total Reward: -32.69470404984493 Avg\_Loss: 0.7193250393322786  
Episode: 6: Time: 8.785995721817017 Total Reward: -40.255474452555205 Avg\_Loss: 0.6230055453380993  
Episode: 7: Time: 8.85183048248291 Total Reward: -76.07255520504734 Avg\_Loss: 0.5502683583240048  
Episode: 8: Time: 8.453720569610596 Total Reward: -28.333333333333783 Avg\_Loss: 0.609753114069585  
Episode: 9: Time: 8.93119192123413 Total Reward: 10.431309904152254 Avg\_Loss: 0.5872186506088791  
Episode: 10: Time: 8.756636619567871 Total Reward: -57.06896551724209 Avg\_Loss: 0.6360740925365386  
Episode: 11: Time: 9.088459968566895 Total Reward: 94.60244648318341 Avg\_Loss: 0.6494725785773843  
Episode: 12: Time: 8.619980573654175 Total Reward: 85.64516129032583 Avg\_Loss: 0.7254321983694529  
Episode: 13: Time: 8.178656339645386 Total Reward: -52.894736842105914 Avg\_Loss: 0.7065953154022954  
Episode: 14: Time: 8.790500402450562 Total Reward: 16.782477341389598 Avg\_Loss: 0.7206518024581821  
Episode: 15: Time: 8.151129722595215 Total Reward: -23.31541218638067 Avg\_Loss: 0.6803926380366838  
Episode: 16: Time: 8.215713024139404 Total Reward: -17.178988326848778 Avg\_Loss: 0.7411864735968724  
Episode: 17: Time: 9.105412006378174 Total Reward: 1.3855421686740428 Avg\_Loss: 0.658576260375626  
Episode: 18: Time: 8.943377494812012 Total Reward: 52.39884393063487 Avg\_Loss: 0.7845273032596632  
Episode: 19: Time: 8.635081768035889 Total Reward: 267.59541984731777 Avg\_Loss: 0.8970033222762477  
Episode: 20: Time: 8.745373725891113 Total Reward: 37.075471698114995 Avg\_Loss: 0.9536759690577242  
Episode: 21: Time: 8.909645318984985 Total Reward: 113.07453416149343 Avg\_Loss: 0.9308270411644163  
Episode: 22: Time: 8.613789796829224 Total Reward: 432.55905511810096 Avg\_Loss: 1.1908370278963523  
Episode: 23: Time: 8.76596736907959 Total Reward: 125.1492537313477 Avg\_Loss: 1.3503276608696504  
Episode: 24: Time: 8.57244324684143 Total Reward: 226.67832167832591 Avg\_Loss: 1.4928266106783843  
Episode: 25: Time: 8.492033243179321 Total Reward: 136.9391634981026 Avg\_Loss: 1.5238783766492074  
Episode: 26: Time: 8.745815515518188 Total Reward: 41.18677042801822 Avg\_Loss: 1.6012702897316267  
Episode: 27: Time: 8.710015535354614 Total Reward: 459.34782608695195 Avg\_Loss: 1.6722903855207587

Episode: 28: Time: 8.557602882385254 Total Reward: 8.806228373701645 Avg\_Loss: 1.6337596179307008  
Episode: 29: Time: 8.523100852966309 Total Reward: 15.687022900763038 Avg\_Loss: 1.9579324306560164  
Episode: 30: Time: 8.52834677696228 Total Reward: 234.41176470588397 Avg\_Loss: 1.718363927066827  
Episode: 31: Time: 8.631817102432251 Total Reward: -36.605839416058856 Avg\_Loss: 2.0488568672112057  
Episode: 32: Time: 8.816261053085327 Total Reward: 97.72727272727688 Avg\_Loss: 2.1250939324122515  
Episode: 33: Time: 8.746047019958496 Total Reward: 595.0369003689955 Avg\_Loss: 2.3316052912914453  
Episode: 34: Time: 8.917491912841797 Total Reward: 33.37837837837956 Avg\_Loss: 2.3205370159209275  
Episode: 35: Time: 8.718326568603516 Total Reward: 168.88888888889323 Avg\_Loss: 2.50243496419001  
Episode: 36: Time: 8.639442920684814 Total Reward: 343.4057971014438 Avg\_Loss: 2.378616181491804  
Episode: 37: Time: 8.743472337722778 Total Reward: 220.78947368421342 Avg\_Loss: 2.737858040242636  
Episode: 38: Time: 8.643094301223755 Total Reward: 147.10526315789866 Avg\_Loss: 2.640550151592543  
Episode: 39: Time: 8.513446569442749 Total Reward: 154.1582491582534 Avg\_Loss: 2.931183828776624  
Episode: 40: Time: 8.700028896331787 Total Reward: 192.71929824561482 Avg\_Loss: 2.716281865324293  
Episode: 41: Time: 8.761762857437134 Total Reward: 278.98373983739873 Avg\_Loss: 2.848226918893702  
Episode: 42: Time: 8.951642751693726 Total Reward: 212.16723549488492 Avg\_Loss: 3.0264076938649187  
Episode: 43: Time: 8.73553204536438 Total Reward: 143.59649122807326 Avg\_Loss: 3.3743660364832198  
Episode: 44: Time: 8.783403873443604 Total Reward: 116.72638436482461 Avg\_Loss: 3.2453789039820182  
Episode: 45: Time: 8.832040071487427 Total Reward: 196.9463087248351 Avg\_Loss: 3.293572170894687  
Episode: 46: Time: 8.768513917922974 Total Reward: 3.3050847457626666 Avg\_Loss: 3.2602851881700405  
Episode: 47: Time: 8.928743124008179 Total Reward: 408.24675324674485 Avg\_Loss: 3.308495701611543  
Episode: 48: Time: 8.572720766067505 Total Reward: 543.4615384615325 Avg\_Loss: 3.5660885782802807  
Episode: 49: Time: 8.73019552230835 Total Reward: 199.7761194029885 Avg\_Loss: 3.6786377925832734  
Validation Mean Reward: 308.80541492418496 Validation Std Reward: 192.87331113915556  
Episode: 50: Time: 8.96383023262024 Total Reward: 306.8987341772157 Avg\_Loss: 3.9369510199342455  
Episode: 51: Time: 9.097306728363037 Total Reward: 276.42857142857224 Avg\_Loss: 3.969771259973029  
Episode: 52: Time: 8.670980215072632 Total Reward: 439.79853479852886 Avg\_Loss: 4.198375666341862  
Episode: 53: Time: 8.824498414993286 Total Reward: 236.16883116883463 Avg\_Loss: 3.8009322445933558  
Episode: 54: Time: 8.888934135437012 Total Reward: 350.57823129251426 Avg\_Loss: 4.201924719229466



Episode: 55: Time: 8.649335384368896 Total Reward: 217.50000000000443 Avg\_Loss: 4.043002549339743  
Episode: 56: Time: 8.901369094848633 Total Reward: 331.2820512820494 Avg\_Loss: 4.155640004061851  
Episode: 57: Time: 8.756320714950562 Total Reward: 282.2241992882573 Avg\_Loss: 4.172755420207977  
Episode: 58: Time: 9.091580867767334 Total Reward: 237.29813664596705 Avg\_Loss: 4.17998033862154  
Episode: 59: Time: 9.157258987426758 Total Reward: 261.90235690235147 Avg\_Loss: 3.899202047275896  
Episode: 60: Time: 8.972252368927002 Total Reward: 260.7046979865729 Avg\_Loss: 4.366603489182577  
Episode: 61: Time: 8.809324502944946 Total Reward: 318.3858267716523 Avg\_Loss: 4.317523904207374  
Episode: 62: Time: 8.959850311279297 Total Reward: 493.0398671096244 Avg\_Loss: 4.65768139903285  
Episode: 63: Time: 8.919708967208862 Total Reward: 302.5155279503108 Avg\_Loss: 4.74199727102488  
Episode: 64: Time: 9.087061882019043 Total Reward: 245.62500000000438 Avg\_Loss: 4.743659382106877  
Episode: 65: Time: 8.787028789520264 Total Reward: 522.8571428571348 Avg\_Loss: 4.8720313110271425  
Episode: 66: Time: 8.899693250656128 Total Reward: 306.9933554817272 Avg\_Loss: 5.648883237558253  
Episode: 67: Time: 8.737599611282349 Total Reward: 275.74829931972124 Avg\_Loss: 4.876691952973855  
Episode: 68: Time: 8.78323769569397 Total Reward: 424.57295373664664 Avg\_Loss: 4.882070067049074  
Episode: 69: Time: 8.673351764678955 Total Reward: 285.13698630136304 Avg\_Loss: 5.128196862565369  
Episode: 70: Time: 8.953622579574585 Total Reward: 506.91082802546754 Avg\_Loss: 5.4938379315768975  
Episode: 71: Time: 8.79429292678833 Total Reward: 465.7843137254881 Avg\_Loss: 5.2126343230239485  
Episode: 72: Time: 9.069419860839844 Total Reward: 214.85915492958168 Avg\_Loss: 5.348371759182265  
Episode: 73: Time: 8.82794451713562 Total Reward: 97.72727272727664 Avg\_Loss: 5.278079893909583  
Episode: 74: Time: 8.928473472595215 Total Reward: 175.35830618892896 Avg\_Loss: 4.95597223524286  
Episode: 75: Time: 8.698085308074951 Total Reward: 428.80952380951703 Avg\_Loss: 5.297351434451191  
Episode: 76: Time: 8.75436520576477 Total Reward: 24.13357400722159 Avg\_Loss: 5.157387792062359  
Episode: 77: Time: 8.867250680923462 Total Reward: 156.61290322580695 Avg\_Loss: 5.382217375671162  
Episode: 78: Time: 9.028779745101929 Total Reward: 101.8253968253982 Avg\_Loss: 5.600969541974428  
Episode: 79: Time: 8.837549686431885 Total Reward: 278.7373737373746 Avg\_Loss: 5.558953583741388  
Episode: 80: Time: 8.902163982391357 Total Reward: 413.53242320818373 Avg\_Loss: 5.318848365495185  
Episode: 81: Time: 8.761207818984985 Total Reward: 105.68027210884371 Avg\_Loss: 5.703598594966055  
Episode: 82: Time: 8.873214960098267 Total Reward: 251.5346534653489 Avg\_Loss: 5.269073863991168

Episode: 83: Time: 8.787366151809692 Total Reward: 413.5324232081833 Avg\_Loss: 5.759369785044374  
Episode: 84: Time: 8.777789115905762 Total Reward: 505.7326007325937 Avg\_Loss: 5.735346744541361  
Episode: 85: Time: 8.821728229522705 Total Reward: 268.32179930795223 Avg\_Loss: 5.1897350369381305  
Episode: 86: Time: 8.768955945968628 Total Reward: 363.9041095890372 Avg\_Loss: 5.332773652397284  
Episode: 87: Time: 2.9660143852233887 Total Reward: -68.67414965986427 Avg\_Loss: 5.299276261102586  
Episode: 88: Time: 9.26429533958435 Total Reward: 110.60747663551435 Avg\_Loss: 5.436146127576587  
Episode: 89: Time: 8.91404128074646 Total Reward: 454.3421052631532 Avg\_Loss: 5.455363784016681  
Episode: 90: Time: 8.862672567367554 Total Reward: 367.40601503759166 Avg\_Loss: 5.523359656333923  
Episode: 91: Time: 8.848169326782227 Total Reward: 336.5789473684166 Avg\_Loss: 7.499766533114329  
Episode: 92: Time: 9.18509817123413 Total Reward: 207.4691358024739 Avg\_Loss: 5.680491362299238  
Episode: 93: Time: 8.867718696594238 Total Reward: 208.03030303030764 Avg\_Loss: 7.239896753755938  
Episode: 94: Time: 8.95173978805542 Total Reward: 341.4820846905474 Avg\_Loss: 5.952149255936887  
Episode: 95: Time: 4.971399784088135 Total Reward: -15.486138613859538 Avg\_Loss: 6.0562012107933265  
Episode: 96: Time: 9.133865594863892 Total Reward: 171.4576802507869 Avg\_Loss: 5.701533408725963  
Episode: 97: Time: 8.792855739593506 Total Reward: 228.741007194249 Avg\_Loss: 5.860407322394748  
Episode: 98: Time: 9.228764772415161 Total Reward: 322.9104477611941 Avg\_Loss: 5.703316621419762  
Episode: 99: Time: 8.741441249847412 Total Reward: 325.195439739412 Avg\_Loss: 5.6725949038978385  
Validation Mean Reward: 399.953492478727 Validation Std Reward: 103.92373208145169  
Episode: 100: Time: 9.559770107269287 Total Reward: 401.64429530200823 Avg\_Loss: 9.542456163578674  
Episode: 101: Time: 9.135803461074829 Total Reward: 369.5390070921955 Avg\_Loss: 10.14269595586953  
Episode: 102: Time: 8.748307704925537 Total Reward: 148.24324324324758 Avg\_Loss: 5.902889458071284  
Episode: 103: Time: 9.367921352386475 Total Reward: 139.0425531914924 Avg\_Loss: 6.969742566597562  
Episode: 104: Time: 9.106154203414917 Total Reward: 421.5562913907214 Avg\_Loss: 8.414267972236923  
Episode: 105: Time: 9.006991147994995 Total Reward: 442.87878787878174 Avg\_Loss: 5.8561245032719205  
Episode: 106: Time: 8.838223457336426 Total Reward: 689.5528455284452 Avg\_Loss: 6.419700958147771  
Episode: 107: Time: 9.122624158859253 Total Reward: 340.81081081080754 Avg\_Loss: 6.365661749819748  
Episode: 108: Time: 9.0559401512146 Total Reward: 433.0528052805246 Avg\_Loss: 5.858990708319079  
Episode: 109: Time: 9.366560459136963 Total Reward: 290.5799373040736 Avg\_Loss: 5.95559626266736

Episode: 110: Time: 9.023941040039062 Total Reward: 284.79094076655304 Avg\_Loss: 6.491036235785284  
Episode: 111: Time: 9.108924150466919 Total Reward: 316.5755627009614 Avg\_Loss: 6.073557118407819  
Episode: 112: Time: 9.001177787780762 Total Reward: 425.1342281879173 Avg\_Loss: 5.878028917713325  
Episode: 113: Time: 4.197131872177124 Total Reward: -80.31036789297718 Avg\_Loss: 5.892341864209215  
Episode: 114: Time: 9.027549743652344 Total Reward: 380.2475247524716 Avg\_Loss: 6.117070763051009  
Episode: 115: Time: 8.951233863830566 Total Reward: 336.5068493150623 Avg\_Loss: 5.954145828215014  
Episode: 116: Time: 8.763563871383667 Total Reward: 325.0743494423716 Avg\_Loss: 6.583058362247563  
Episode: 117: Time: 8.902001857757568 Total Reward: 325.8754208754161 Avg\_Loss: 6.251108603818076  
Episode: 118: Time: 8.879004955291748 Total Reward: 435.68592057761094 Avg\_Loss: 6.310373771090467  
Episode: 119: Time: 8.568905115127563 Total Reward: 105.000000000000317 Avg\_Loss: 6.346694855129018  
Episode: 120: Time: 8.933384656906128 Total Reward: 483.7671232876668 Avg\_Loss: 5.795152756346374  
Episode: 121: Time: 9.003633499145508 Total Reward: 360.12820512820093 Avg\_Loss: 5.796678053230798  
Episode: 122: Time: 9.093908309936523 Total Reward: 257.9411764705838 Avg\_Loss: 6.019389757589132  
Episode: 123: Time: 9.092081785202026 Total Reward: 388.76623376623087 Avg\_Loss: 6.167869306412063  
Episode: 124: Time: 8.994673013687134 Total Reward: 515.5263157894676 Avg\_Loss: 6.119218816276358  
Episode: 125: Time: 8.962742328643799 Total Reward: 598.3797909407556 Avg\_Loss: 5.968296114136191  
Episode: 126: Time: 9.110531091690063 Total Reward: 369.6153846153795 Avg\_Loss: 5.9150729479909945  
Episode: 127: Time: 9.132225513458252 Total Reward: 332.1186440677867 Avg\_Loss: 6.159886123252516  
Episode: 128: Time: 8.839430570602417 Total Reward: 395.56603773584726 Avg\_Loss: 5.84495517285932  
Episode: 129: Time: 8.951565504074097 Total Reward: 503.6622073578539 Avg\_Loss: 6.183743254477236  
Episode: 130: Time: 9.263639450073242 Total Reward: 442.95379537953227 Avg\_Loss: 8.447138345542074  
Episode: 131: Time: 9.205625772476196 Total Reward: 244.74358974358293 Avg\_Loss: 6.9202536099097305  
Episode: 132: Time: 9.005797624588013 Total Reward: 275.6293706293605 Avg\_Loss: 6.309264933862606  
Episode: 133: Time: 8.86644721031189 Total Reward: 560.5555555555427 Avg\_Loss: 6.6000614106154245  
Episode: 134: Time: 9.246344089508057 Total Reward: 404.9999999999994 Avg\_Loss: 6.233511380287779  
Episode: 135: Time: 8.701882123947144 Total Reward: 145.000000000000432 Avg\_Loss: 7.2314020806000014  
Episode: 136: Time: 8.901700735092163 Total Reward: 569.4736842105164 Avg\_Loss: 6.776984288912861  
Episode: 137: Time: 8.778560638427734 Total Reward: 444.5189003436351 Avg\_Loss: 7.470519756068702

Episode: 138: Time: 8.978103399276733 Total Reward: 348.39622641508686 Avg\_Loss: 7.101317074118542  
Episode: 139: Time: 9.019516706466675 Total Reward: 370.67164179104054 Avg\_Loss: 7.422649572877323  
Episode: 140: Time: 8.87307095527649 Total Reward: 386.4814814814756 Avg\_Loss: 7.388053959157286  
Episode: 141: Time: 9.17137885093689 Total Reward: 343.87147335423145 Avg\_Loss: 7.413561042617349  
Episode: 142: Time: 8.836299419403076 Total Reward: 478.7051792828612 Avg\_Loss: 7.547081336253831  
Episode: 143: Time: 9.087306499481201 Total Reward: 406.69491525423456 Avg\_Loss: 7.550261470450073  
Episode: 144: Time: 8.974781036376953 Total Reward: 492.59124087590226 Avg\_Loss: 7.601143587537172  
Episode: 145: Time: 9.30847978591919 Total Reward: 343.0952380952359 Avg\_Loss: 7.635033052508571  
Episode: 146: Time: 9.134598016738892 Total Reward: 220.2542372881376 Avg\_Loss: 7.478524926329861  
Episode: 147: Time: 9.131514310836792 Total Reward: 595.4024767801782 Avg\_Loss: 7.7643446050772145  
Episode: 148: Time: 9.070313930511475 Total Reward: 623.7499999999874 Avg\_Loss: 7.490222710521281  
Episode: 149: Time: 8.98642349243164 Total Reward: 495.27777777777106 Avg\_Loss: 7.457038367495818  
Validation Mean Reward: 509.00265141542593 Validation Std Reward: 173.32193682814162  
Episode: 150: Time: 9.444414138793945 Total Reward: 508.38983050846457 Avg\_Loss: 7.764348589071707  
Episode: 151: Time: 8.913782835006714 Total Reward: 418.51351351350604 Avg\_Loss: 7.443209107182607  
Episode: 152: Time: 8.96460747718811 Total Reward: 255.16835016834006 Avg\_Loss: 7.017907185714786  
Episode: 153: Time: 8.903270483016968 Total Reward: 508.6363636363543 Avg\_Loss: 6.912559228784898  
Episode: 154: Time: 8.77627944946289 Total Reward: 358.90070921985324 Avg\_Loss: 7.115573615587058  
Episode: 155: Time: 8.837299823760986 Total Reward: 365.78431372547897 Avg\_Loss: 6.983125225836489  
Episode: 156: Time: 8.786910772323608 Total Reward: 401.42857142856235 Avg\_Loss: 7.007669453861332  
Episode: 157: Time: 8.698958396911621 Total Reward: 596.7562724014226 Avg\_Loss: 7.372478809677252  
Episode: 158: Time: 8.959820985794067 Total Reward: 677.0588235294005 Avg\_Loss: 7.2097254680986165  
Episode: 159: Time: 8.954644441604614 Total Reward: 511.0606060605973 Avg\_Loss: 7.322837492998908  
Episode: 160: Time: 8.913387537002563 Total Reward: 366.81818181816834 Avg\_Loss: 7.137689558397822  
Episode: 161: Time: 8.946526050567627 Total Reward: 444.7350993377444 Avg\_Loss: 7.458194183702228  
Episode: 162: Time: 9.125279188156128 Total Reward: 227.2591362126267 Avg\_Loss: 7.787750853209936  
Episode: 163: Time: 9.280099868774414 Total Reward: 369.05228758169375 Avg\_Loss: 8.116740091508175  
Episode: 164: Time: 9.155835628509521 Total Reward: 432.77777777777305 Avg\_Loss: 8.060613038159218

Episode: 165: Time: 9.168130159378052 Total Reward: 403.3606557377032 Avg\_Loss: 7.6325031949692415  
Episode: 166: Time: 9.248130559921265 Total Reward: 483.61635220124896 Avg\_Loss: 8.00687194972479  
Episode: 167: Time: 9.076822996139526 Total Reward: 564.6491228070048 Avg\_Loss: 7.86160772387721  
Episode: 168: Time: 9.073077917098999 Total Reward: 318.37386018236015 Avg\_Loss: 7.346193640171981  
Episode: 169: Time: 9.1148362159729 Total Reward: 629.9070631970125 Avg\_Loss: 7.333574999280336  
Episode: 170: Time: 9.073678493499756 Total Reward: 415.3448275862029 Avg\_Loss: 7.215462563418541  
Episode: 171: Time: 9.155794858932495 Total Reward: 370.5172413793081 Avg\_Loss: 6.846945997045822  
Episode: 172: Time: 8.945671319961548 Total Reward: 331.5232974910399 Avg\_Loss: 7.162883289721834  
Episode: 173: Time: 9.187593460083008 Total Reward: 587.4324324324211 Avg\_Loss: 6.784620489392962  
Episode: 174: Time: 9.163450717926025 Total Reward: 536.067961165037 Avg\_Loss: 6.914489320346287  
Episode: 175: Time: 9.022217512130737 Total Reward: 243.70967741935652 Avg\_Loss: 7.836787996171903  
Episode: 176: Time: 8.867122650146484 Total Reward: 123.30985915493375 Avg\_Loss: 7.433313488960266  
Episode: 177: Time: 9.216876745223999 Total Reward: 440.16819571864914 Avg\_Loss: 7.811799956970856  
Episode: 178: Time: 8.929874181747437 Total Reward: 619.8014440433145 Avg\_Loss: 7.281484885376041  
Episode: 179: Time: 9.04206657409668 Total Reward: 553.8294314381201 Avg\_Loss: 7.10034277960032  
Episode: 180: Time: 8.899816989898682 Total Reward: 740.2059925093529 Avg\_Loss: 7.4507116289699775  
Episode: 181: Time: 9.142321586608887 Total Reward: 555.6849315068409 Avg\_Loss: 7.868258554394505  
Episode: 182: Time: 9.208608388900757 Total Reward: 234.07348242811457 Avg\_Loss: 7.330141170686033  
Episode: 183: Time: 8.878854513168335 Total Reward: 330.08710801392766 Avg\_Loss: 7.551546584658262  
Episode: 184: Time: 9.078736305236816 Total Reward: 554.9999999999897 Avg\_Loss: 7.854627152450946  
Episode: 185: Time: 9.15530514717102 Total Reward: 504.99999999999034 Avg\_Loss: 7.513438275882176  
Episode: 186: Time: 9.100300312042236 Total Reward: 589.2105263157791 Avg\_Loss: 7.7216315690208885  
Episode: 187: Time: 8.997204780578613 Total Reward: 490.18518518517726 Avg\_Loss: 7.6643460999016  
Episode: 188: Time: 9.108789443969727 Total Reward: 691.6666666666657 Avg\_Loss: 7.477719801814616  
Episode: 189: Time: 8.923763036727905 Total Reward: 532.4509803921495 Avg\_Loss: 7.521722342787671  
Episode: 190: Time: 8.96717619895935 Total Reward: 423.27242524916335 Avg\_Loss: 7.1623254323206025  
Episode: 191: Time: 8.888558387756348 Total Reward: 207.08333333333826 Avg\_Loss: 7.012135899367452  
Episode: 192: Time: 8.914247751235962 Total Reward: 292.5432525951522 Avg\_Loss: 6.838759916169303

Episode: 193: Time: 9.114394187927246 Total Reward: 304.3902439024409 Avg\_Loss: 6.558910922843869  
Episode: 194: Time: 9.194780588150024 Total Reward: 483.61635220124845 Avg\_Loss: 7.0837289736050515  
Episode: 195: Time: 9.031086444854736 Total Reward: 251.15384615384247 Avg\_Loss: 6.922670248175869  
Episode: 196: Time: 9.175132513046265 Total Reward: 406.5974440894551 Avg\_Loss: 6.82564138464567  
Episode: 197: Time: 8.831825971603394 Total Reward: 641.059479553895 Avg\_Loss: 6.861193116973428  
Episode: 198: Time: 9.296360731124878 Total Reward: 528.417721518976 Avg\_Loss: 6.389542445415208  
Episode: 199: Time: 9.182455062866211 Total Reward: 544.1752577319517 Avg\_Loss: 6.282278945466049  
Validation Mean Reward: 503.15601352258574 Validation Std Reward: 227.35055488897302  
Test Mean Reward: 506.88676710695654 Test Std Reward: 150.87997229532925

```
In [14]: traineSoftUpdateDQN = DQN.SoftUpdateDQN(EnvWrapper(env),
        model.Nature_Paper_Conv,
        tau = 0.001,
        update_freq = 1,
        lr = 0.00025,
        gamma = 0.95,
        buffer_size = 100000,
        batch_size = 32,
        loss_fn = "mse_loss",
        use_wandb = True,
        device = 'cuda',
        seed = 42,
        epsilon_scheduler = utils.exponential_decay(1, 1000, 0.1),
        save_path = utils.get_save_path("DoubleDQN_SoftUpdates_test")

traineSoftUpdateDQN.train(200, 50, 30, 50, 50)
```

saving to ./runs/DoubleDQN\_SoftUpdates\_test/run0

Finishing previous runs because reinit is set to 'default'.

**wandb: ERROR** The nbformat package was not found. It is required to save notebook history.

## Run history:



## Run summary:

loss	6.28228
mean_reward	503.15601
mean_test_reward	506.88677
std_reward	227.35055
std_test_reward	150.87997
total_reward	544.17526

View run **polar-snowball-9** at: <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/j8bv0sy5>

View project at: <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

Synced 5 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at: `./wandb/run-20250608_130613-j8bv0sy5/logs`

Tracking run with wandb version 0.20.0

Run data is saved locally in

`/home/tilboon/Documents/239AS_2/Project_4/wandb/run-20250608_143427-op4iy3re`

Syncing run **rare-music-10** to [Weights & Biases \(docs\)](#)

View project at <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

View run at <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/op4iy3re>

Episode: 0: Time: 6.517987012863159 Total Reward: -33.110749185668126 Avg\_Loss: 0.0  
Episode: 1: Time: 7.89872670173645 Total Reward: -36.37931034482813 Avg\_Loss: 0.7851506260455035  
Episode: 2: Time: 8.406813859939575 Total Reward: -52.894736842105694 Avg\_Loss: 0.7723749261192915  
Episode: 3: Time: 7.627444505691528 Total Reward: -150.57936507936546 Avg\_Loss: 0.7820082961572944  
Episode: 4: Time: 8.5784752368927 Total Reward: -59.70588235294164 Avg\_Loss: 5.518818340882533  
Episode: 5: Time: 8.780124187469482 Total Reward: -35.74074074074096 Avg\_Loss: 1.8013605856015777  
Episode: 6: Time: 8.761979818344116 Total Reward: -40.76271186440751 Avg\_Loss: 1.4816426527099449  
Episode: 7: Time: 8.791294574737549 Total Reward: -74.31034482758632 Avg\_Loss: 0.6449806437585033  
Episode: 8: Time: 9.162508726119995 Total Reward: -41.02272727272788 Avg\_Loss: 0.6105091005657651  
Episode: 9: Time: 8.279945373535156 Total Reward: -48.73665480427111 Avg\_Loss: 0.5733335452122974  
Episode: 10: Time: 4.0604541301727295 Total Reward: -87.2475728155345 Avg\_Loss: 0.5731748041549796  
Episode: 11: Time: 8.413454532623291 Total Reward: -58.36996336996401 Avg\_Loss: 6.155274676863386  
Episode: 12: Time: 8.865975856781006 Total Reward: -35.298507462686985 Avg\_Loss: 1.2802112975603892  
Episode: 13: Time: 8.626904487609863 Total Reward: -31.93693693693762 Avg\_Loss: 3.1157351944032086  
Episode: 14: Time: 8.994204998016357 Total Reward: -37.95302013422889 Avg\_Loss: 1.2262572649115024  
Episode: 15: Time: 8.59404730796814 Total Reward: -73.33935018050563 Avg\_Loss: 1.7025969403506327  
Episode: 16: Time: 8.83869481086731 Total Reward: -66.73144876325152 Avg\_Loss: 0.9387197666840643  
Episode: 17: Time: 2.5893099308013916 Total Reward: -55.181250000000304 Avg\_Loss: 0.8022984611625606  
Episode: 18: Time: 8.60946774482727 Total Reward: -32.67705382436333 Avg\_Loss: 3.073452651735489  
Episode: 19: Time: 8.456228971481323 Total Reward: -19.39862542955393 Avg\_Loss: 2.0617988645529546  
Episode: 20: Time: 9.285467386245728 Total Reward: -38.85964912280774 Avg\_Loss: 1.3439402021780735  
Episode: 21: Time: 8.557771682739258 Total Reward: -45.16611295681136 Avg\_Loss: 1.2497807737408566  
Episode: 22: Time: 8.205527305603027 Total Reward: 47.34875444840226 Avg\_Loss: 1.155052278347376  
Episode: 23: Time: 2.9363057613372803 Total Reward: -65.76219081272126 Avg\_Loss: 0.8559398705431496  
Episode: 24: Time: 9.178642988204956 Total Reward: 14.540636042403662 Avg\_Loss: 4.961100143763949  
Episode: 25: Time: 8.336953401565552 Total Reward: -27.8621908127216 Avg\_Loss: 2.710484579956832  
Episode: 26: Time: 8.804186344146729 Total Reward: -14.708029197080894 Avg\_Loss: 1.834161223233247  
Episode: 27: Time: 8.608407020568848 Total Reward: 14.8484848483857 Avg\_Loss: 2.061193415002913



Episode: 28: Time: 6.344376802444458 Total Reward: -81.18066914498118 Avg\_Loss: 3.122769036872239  
Episode: 29: Time: 8.502626895904541 Total Reward: -28.12101910828097 Avg\_Loss: 2.6663702936889995  
Episode: 30: Time: 3.3635952472686768 Total Reward: -85.03086419753129 Avg\_Loss: 2.4562880610848996  
Episode: 31: Time: 9.579005718231201 Total Reward: 73.11594202898989 Avg\_Loss: 4.355222101659835  
Episode: 32: Time: 8.967965126037598 Total Reward: -35.397350993378225 Avg\_Loss: 3.08605646246559  
Episode: 33: Time: 4.661568880081177 Total Reward: -91.67341772151953 Avg\_Loss: 2.8642523208489785  
Episode: 34: Time: 8.824270248413086 Total Reward: -34.297124600639705 Avg\_Loss: 1.2039457387408288  
Episode: 35: Time: 7.468776702880859 Total Reward: -114.85873015873071 Avg\_Loss: 1.297338062932469  
Episode: 36: Time: 6.392802953720093 Total Reward: -110.60417827298095 Avg\_Loss: 3.7508960936455367  
Episode: 37: Time: 8.817289590835571 Total Reward: 25.437956204378708 Avg\_Loss: 2.4056795520567094  
Episode: 38: Time: 8.988691091537476 Total Reward: -9.179104477612084 Avg\_Loss: 2.9149884203088883  
Episode: 39: Time: 8.462157011032104 Total Reward: 50.66929133858654 Avg\_Loss: 2.209058712072232  
Episode: 40: Time: 8.555100202560425 Total Reward: -32.304075235110446 Avg\_Loss: 1.6133782704274695  
Episode: 41: Time: 8.434928894042969 Total Reward: -34.71631205673833 Avg\_Loss: 1.5523683160793882  
Episode: 42: Time: 8.55157470703125 Total Reward: 8.58565737051862 Avg\_Loss: 1.0518532904381512  
Episode: 43: Time: 8.546396017074585 Total Reward: -36.780821917808936 Avg\_Loss: 1.3177424684761703  
Episode: 44: Time: 8.936720371246338 Total Reward: -33.08049535603783 Avg\_Loss: 1.1752360825810362  
Episode: 45: Time: 8.750353336334229 Total Reward: -3.08823529411856 Avg\_Loss: 1.1914309178236402  
Episode: 46: Time: 8.392256736755371 Total Reward: -33.11074918566848 Avg\_Loss: 0.7892094627335793  
Episode: 47: Time: 9.207422971725464 Total Reward: -29.027777777778486 Avg\_Loss: 0.8087933770060038  
Episode: 48: Time: 8.354970455169678 Total Reward: 41.51877133106104 Avg\_Loss: 1.0428775866758548  
Episode: 49: Time: 9.20979928970337 Total Reward: -38.03797468354503 Avg\_Loss: 0.8431559107227236  
Validation Mean Reward: -30.395542588485878 Validation Std Reward: 35.249983303610755  
Episode: 50: Time: 2.5512702465057373 Total Reward: -69.65280235988229 Avg\_Loss: 0.8448163924308923  
Episode: 51: Time: 8.596171617507935 Total Reward: 54.60629921260235 Avg\_Loss: 1.5621256378455823  
Episode: 52: Time: 8.477054834365845 Total Reward: 46.22137404580468 Avg\_Loss: 1.0773265699879462  
Episode: 53: Time: 8.840584516525269 Total Reward: 65.27874564460113 Avg\_Loss: 1.0643694870674811  
Episode: 54: Time: 8.746686697006226 Total Reward: 285.2816901408432 Avg\_Loss: 1.1013203216638385

Episode: 55: Time: 8.965197801589966 Total Reward: -31.305732484077105 Avg\_Loss: 1.1149191288512295  
Episode: 56: Time: 8.752743244171143 Total Reward: 71.07773851590551 Avg\_Loss: 0.9149605137836031  
Episode: 57: Time: 8.560729026794434 Total Reward: -21.17449664429604 Avg\_Loss: 1.1706459996830516  
Episode: 58: Time: 8.736500978469849 Total Reward: 29.08759124087819 Avg\_Loss: 1.1797618339730411  
Episode: 59: Time: 8.63001823425293 Total Reward: 16.91335740072188 Avg\_Loss: 1.1156484010402394  
Episode: 60: Time: 8.656843423843384 Total Reward: -39.44444444444514 Avg\_Loss: 1.366432961045193  
Episode: 61: Time: 8.57627820968628 Total Reward: 142.5886524822744 Avg\_Loss: 1.3999129339050846  
Episode: 62: Time: 9.07403016090393 Total Reward: 167.34567901235008 Avg\_Loss: 1.3096264031629603  
Episode: 63: Time: 9.175196647644043 Total Reward: 173.29268292683298 Avg\_Loss: 1.3561335961733545  
Episode: 64: Time: 9.181767702102661 Total Reward: 318.33333333332473 Avg\_Loss: 1.359421288704171  
Episode: 65: Time: 8.766611337661743 Total Reward: 174.78417266187543 Avg\_Loss: 1.3818133976153966  
Episode: 66: Time: 8.889705419540405 Total Reward: 194.0365448505026 Avg\_Loss: 1.5251703956986176  
Episode: 67: Time: 8.853414297103882 Total Reward: 28.52941176470729 Avg\_Loss: 1.3811524383911566  
Episode: 68: Time: 8.980798721313477 Total Reward: 364.9999999999324 Avg\_Loss: 1.3680101309535133  
Episode: 69: Time: 9.423115730285645 Total Reward: 109.67836257310285 Avg\_Loss: 1.3324687889143199  
Episode: 70: Time: 9.288426637649536 Total Reward: 393.2154882154789 Avg\_Loss: 1.523715219953481  
Episode: 71: Time: 9.020573854446411 Total Reward: 316.96013289035614 Avg\_Loss: 1.6482161964688982  
Episode: 72: Time: 8.670556545257568 Total Reward: 834.9610894941513 Avg\_Loss: 1.6566407242242027  
Episode: 73: Time: 8.661933898925781 Total Reward: 689.38661710036 Avg\_Loss: 1.7840057524437665  
Episode: 74: Time: 9.187336921691895 Total Reward: 261.0371517027793 Avg\_Loss: 2.1845736336432586  
Episode: 75: Time: 8.773205757141113 Total Reward: 411.9930069929986 Avg\_Loss: 1.9527600480227911  
Episode: 76: Time: 8.941222667694092 Total Reward: 99.52887537994351 Avg\_Loss: 2.2367359675279186  
Episode: 77: Time: 9.017112493515015 Total Reward: 378.684210526312 Avg\_Loss: 2.3142987254287015  
Episode: 78: Time: 9.139372825622559 Total Reward: 459.38596491227014 Avg\_Loss: 2.24416000602626  
Episode: 79: Time: 9.178406000137329 Total Reward: 65.40955631399751 Avg\_Loss: 2.100681341996714  
Episode: 80: Time: 9.107641696929932 Total Reward: 421.5562913907244 Avg\_Loss: 2.4464964468439088  
Episode: 81: Time: 8.741514921188354 Total Reward: 248.6426116838406 Avg\_Loss: 2.411141144628284  
Episode: 82: Time: 8.930920839309692 Total Reward: 232.64505119453395 Avg\_Loss: 2.4928486920705364

Episode: 83: Time: 9.185783624649048 Total Reward: 301.7213114753995 Avg\_Loss: 2.3302837630279924  
Episode: 84: Time: 8.978396654129028 Total Reward: 48.812709030103214 Avg\_Loss: 2.386736288917165  
Episode: 85: Time: 8.96529245376587 Total Reward: 663.2781456953567 Avg\_Loss: 2.6775375900148344  
Episode: 86: Time: 8.805817604064941 Total Reward: 722.8438661709902 Avg\_Loss: 2.7402261699698554  
Episode: 87: Time: 8.94369387626648 Total Reward: 487.1917808219083 Avg\_Loss: 3.1315693682482264  
Episode: 88: Time: 8.66255784034729 Total Reward: 258.8461538461441 Avg\_Loss: 2.6272487880802955  
Episode: 89: Time: 8.487017631530762 Total Reward: 256.25448028672554 Avg\_Loss: 2.6942917904933963  
Episode: 90: Time: 8.747597455978394 Total Reward: 142.45819397993782 Avg\_Loss: 2.8162439687161887  
Episode: 91: Time: 9.322379350662231 Total Reward: 288.3333333333335 Avg\_Loss: 2.9239785344410345  
Episode: 92: Time: 9.063215255737305 Total Reward: 398.24324324323874 Avg\_Loss: 2.9655535797111128  
Episode: 93: Time: 9.1397864818573 Total Reward: 299.23076923076013 Avg\_Loss: 3.1471211320462347  
Episode: 94: Time: 8.954813718795776 Total Reward: 575.0680272108776 Avg\_Loss: 3.243391263885658  
Episode: 95: Time: 9.008143424987793 Total Reward: 584.7153024910975 Avg\_Loss: 3.3149573084186104  
Episode: 96: Time: 9.473471403121948 Total Reward: 165.58631921824562 Avg\_Loss: 3.6435212933716654  
Episode: 97: Time: 9.491592645645142 Total Reward: 568.2302405498194 Avg\_Loss: 3.276320558865683  
Episode: 98: Time: 9.113019704818726 Total Reward: 573.9895470383158 Avg\_Loss: 3.2391942849680153  
Episode: 99: Time: 8.636539459228516 Total Reward: 156.7730496453949 Avg\_Loss: 3.102412067791995  
Validation Mean Reward: 454.26080010167226 Validation Std Reward: 223.5620900201326  
Episode: 100: Time: 9.28870153427124 Total Reward: 379.04844290656627 Avg\_Loss: 3.3026807051496347  
Episode: 101: Time: 9.251375675201416 Total Reward: 454.01960784313235 Avg\_Loss: 3.4858227822960925  
Episode: 102: Time: 9.069865226745605 Total Reward: 513.843537414956 Avg\_Loss: 3.5525216382591664  
Episode: 103: Time: 9.063061952590942 Total Reward: 635.3370786516746 Avg\_Loss: 3.4396573565587274  
Episode: 104: Time: 9.019737720489502 Total Reward: 515.1694915254114 Avg\_Loss: 3.402727768200786  
Episode: 105: Time: 9.454664945602417 Total Reward: 474.07894736841155 Avg\_Loss: 3.572247917411708  
Episode: 106: Time: 9.2510404586792 Total Reward: 508.77358490564905 Avg\_Loss: 3.61997254280483  
Episode: 107: Time: 9.045000076293945 Total Reward: 406.7421602787431 Avg\_Loss: 3.9296244898764026  
Episode: 108: Time: 9.255696535110474 Total Reward: 422.96407185628186 Avg\_Loss: 3.6150570058522105  
Episode: 109: Time: 8.964823484420776 Total Reward: 420.35836177473743 Avg\_Loss: 3.7626925055720224

Episode: 110: Time: 9.548035621643066 Total Reward: 358.41614906831694 Avg\_Loss: 4.054413089481723  
Episode: 111: Time: 9.129107475280762 Total Reward: 141.84210526316173 Avg\_Loss: 3.909037183062369  
Episode: 112: Time: 9.20482325553894 Total Reward: 92.50000000000392 Avg\_Loss: 3.89728384583938  
Episode: 113: Time: 8.996813297271729 Total Reward: 473.70229007632855 Avg\_Loss: 4.073739424973977  
Episode: 114: Time: 8.90030813217163 Total Reward: 678.9463601532473 Avg\_Loss: 3.8067799420917736  
Episode: 115: Time: 9.136903047561646 Total Reward: 460.92105263157225 Avg\_Loss: 3.7114007250100625  
Episode: 116: Time: 9.119772672653198 Total Reward: 450.1505016722304 Avg\_Loss: 4.6282954278613335  
Episode: 117: Time: 9.182605028152466 Total Reward: 470.37102473497913 Avg\_Loss: 4.088028818619351  
Episode: 118: Time: 9.479071378707886 Total Reward: 234.03225806452014 Avg\_Loss: 4.100485504174433  
Episode: 119: Time: 9.25711989402771 Total Reward: 410.6179775280872 Avg\_Loss: 4.128257314197156  
Episode: 120: Time: 9.209830284118652 Total Reward: 529.1379310344713 Avg\_Loss: 4.394224421567276  
Episode: 121: Time: 9.110737085342407 Total Reward: 522.3285198555856 Avg\_Loss: 4.633405098394186  
Episode: 122: Time: 9.304264783859253 Total Reward: 408.0674846625718 Avg\_Loss: 4.405876796786525  
Episode: 123: Time: 9.52597951889038 Total Reward: 347.1364985163172 Avg\_Loss: 4.721594299588885  
Episode: 124: Time: 9.194671392440796 Total Reward: 426.4285714285676 Avg\_Loss: 5.026639160989713  
Episode: 125: Time: 8.944711208343506 Total Reward: 430.4237288135582 Avg\_Loss: 4.30609350294626  
Episode: 126: Time: 8.883428812026978 Total Reward: 654.9999999999883 Avg\_Loss: 4.777582610354704  
Episode: 127: Time: 8.949157476425171 Total Reward: 208.3333333333373 Avg\_Loss: 4.859015448253696  
Episode: 128: Time: 9.001689672470093 Total Reward: 197.06349206349552 Avg\_Loss: 5.050806759285326  
Episode: 129: Time: 9.017389059066772 Total Reward: 252.2222222222632 Avg\_Loss: 5.319938200862468  
Episode: 130: Time: 9.048270225524902 Total Reward: 452.4452554744458 Avg\_Loss: 5.236895769083199  
Episode: 131: Time: 9.259659051895142 Total Reward: 291.9863013698598 Avg\_Loss: 4.748771575569105  
Episode: 132: Time: 9.427180051803589 Total Reward: 321.40378548895893 Avg\_Loss: 4.716913819313049  
Episode: 133: Time: 8.80291485786438 Total Reward: 520.999999999955 Avg\_Loss: 5.16191780717433  
Episode: 134: Time: 9.02002215385437 Total Reward: 116.22112211221537 Avg\_Loss: 5.409420298177655  
Episode: 135: Time: 8.903197288513184 Total Reward: 431.6903914590704 Avg\_Loss: 5.074378925211289  
Episode: 136: Time: 9.180867910385132 Total Reward: 384.5918367346901 Avg\_Loss: 5.139073545692348  
Episode: 137: Time: 9.282783269882202 Total Reward: 311.8965517241377 Avg\_Loss: 5.61262704194093

Episode: 138: Time: 8.976841449737549 Total Reward: 368.70967741935334 Avg\_Loss: 5.146897232332149  
Episode: 139: Time: 9.194902181625366 Total Reward: 446.40127388534137 Avg\_Loss: 5.221278950446794  
Episode: 140: Time: 9.025276184082031 Total Reward: 389.94983277591587 Avg\_Loss: 5.5969773751347  
Episode: 141: Time: 8.869401693344116 Total Reward: 453.38709677419087 Avg\_Loss: 6.0143230427213075  
Episode: 142: Time: 8.974151372909546 Total Reward: 432.02702702702015 Avg\_Loss: 5.96090510061809  
Episode: 143: Time: 9.187320947647095 Total Reward: 395.13157894735855 Avg\_Loss: 5.28618519496517  
Episode: 144: Time: 9.192233562469482 Total Reward: 416.78451178450484 Avg\_Loss: 5.496456217865984  
Episode: 145: Time: 9.319454193115234 Total Reward: 429.4755244755207 Avg\_Loss: 5.602028929385819  
Episode: 146: Time: 9.17629861831665 Total Reward: 155.85910652921297 Avg\_Loss: 5.29569058658696  
Episode: 147: Time: 9.01144814491272 Total Reward: 465.43956043955 Avg\_Loss: 5.597525611645033  
Episode: 148: Time: 8.744663715362549 Total Reward: 421.5289256198314 Avg\_Loss: 5.93818889746145  
Episode: 149: Time: 8.963855266571045 Total Reward: 286.4814814814747 Avg\_Loss: 6.24158089601693  
Validation Mean Reward: 391.2284518133914 Validation Std Reward: 142.9146211749332  
Episode: 150: Time: 9.814082145690918 Total Reward: 243.70967741935812 Avg\_Loss: 5.7365383891498345  
Episode: 151: Time: 9.350341558456421 Total Reward: 496.3621262458365 Avg\_Loss: 5.595381116165834  
Episode: 152: Time: 9.142569303512573 Total Reward: 337.5259515570873 Avg\_Loss: 5.5067505340616245  
Episode: 153: Time: 9.199182987213135 Total Reward: 398.1034482758548 Avg\_Loss: 6.179093718528748  
Episode: 154: Time: 9.215584516525269 Total Reward: 457.8169014084449 Avg\_Loss: 5.800200292543203  
Episode: 155: Time: 8.805477619171143 Total Reward: 479.0740740740648 Avg\_Loss: 5.706302278682966  
Episode: 156: Time: 9.116844415664673 Total Reward: 263.49056603773727 Avg\_Loss: 5.750262961167247  
Episode: 157: Time: 9.178764820098877 Total Reward: 362.2368421052579 Avg\_Loss: 6.2516690672946575  
Episode: 158: Time: 9.194191932678223 Total Reward: 370.51724137930125 Avg\_Loss: 5.955229728161788  
Episode: 159: Time: 9.15082836151123 Total Reward: 90.05338078292243 Avg\_Loss: 5.73282740246348  
Episode: 160: Time: 9.131704568862915 Total Reward: 377.72727272726695 Avg\_Loss: 5.715432045840416  
Episode: 161: Time: 9.167474746704102 Total Reward: 475.44673539518135 Avg\_Loss: 6.15544828697413  
Episode: 162: Time: 9.068080425262451 Total Reward: 167.13592233010144 Avg\_Loss: 5.459136962890625  
Episode: 163: Time: 9.010035514831543 Total Reward: 420.2542372881285 Avg\_Loss: 6.718961082586722  
Episode: 164: Time: 8.829501867294312 Total Reward: 130.45454545454967 Avg\_Loss: 5.950427332846057

Episode: 165: Time: 9.189848899841309 Total Reward: 452.29729729729115 Avg\_Loss: 5.995124981182964  
Episode: 166: Time: 9.37351393699646 Total Reward: 119.28571428571718 Avg\_Loss: 6.048812803601017  
Episode: 167: Time: 9.249087572097778 Total Reward: 430.17985611510204 Avg\_Loss: 5.8580608207638525  
Episode: 168: Time: 9.12891435623169 Total Reward: 376.6312056737532 Avg\_Loss: 6.36778466641402  
Episode: 169: Time: 9.02166199684143 Total Reward: 423.7969924811945 Avg\_Loss: 6.318931608640847  
Episode: 170: Time: 8.912148237228394 Total Reward: 144.726027397262 Avg\_Loss: 6.208930236451766  
Episode: 171: Time: 9.1906578540802 Total Reward: 218.38028169014274 Avg\_Loss: 6.2227847616211704  
Episode: 172: Time: 9.24285626411438 Total Reward: 311.0150375939852 Avg\_Loss: 6.180407596235516  
Episode: 173: Time: 9.561874866485596 Total Reward: 344.25233644859713 Avg\_Loss: 6.180716964877954  
Episode: 174: Time: 9.134507179260254 Total Reward: 382.1929824561354 Avg\_Loss: 6.754353652481272  
Episode: 175: Time: 9.329571723937988 Total Reward: 275.491803278685 Avg\_Loss: 6.554105173639891  
Episode: 176: Time: 8.8794846534729 Total Reward: 327.53521126760796 Avg\_Loss: 6.0867763647512225  
Episode: 177: Time: 9.047541379928589 Total Reward: 483.39721254354697 Avg\_Loss: 6.517616270970898  
Episode: 178: Time: 9.112586736679077 Total Reward: 263.1560283687867 Avg\_Loss: 6.816468802820735  
Episode: 179: Time: 9.236074924468994 Total Reward: 5.671140939596884 Avg\_Loss: 6.644019722938538  
Episode: 180: Time: 9.227322101593018 Total Reward: 410.4945054945032 Avg\_Loss: 6.681969551479115  
Episode: 181: Time: 9.382993221282959 Total Reward: 119.52145214521877 Avg\_Loss: 6.37745388616033  
Episode: 182: Time: 9.139262914657593 Total Reward: 184.4612794612838 Avg\_Loss: 6.22804204155417  
Episode: 183: Time: 9.086684942245483 Total Reward: 385.96885813148685 Avg\_Loss: 6.279455515516906  
Episode: 184: Time: 9.327415227890015 Total Reward: 327.2222222222194 Avg\_Loss: 6.790889425938871  
Episode: 185: Time: 9.418649196624756 Total Reward: 355.16077170417753 Avg\_Loss: 7.0678726334531765  
Episode: 186: Time: 9.743006944656372 Total Reward: 122.51412429378951 Avg\_Loss: 6.3968217593281205  
Episode: 187: Time: 8.970724821090698 Total Reward: 438.86454183266375 Avg\_Loss: 6.428489553828199  
Episode: 188: Time: 9.458844423294067 Total Reward: 327.15568862275495 Avg\_Loss: 6.630683366991892  
Episode: 189: Time: 9.166199922561646 Total Reward: 419.56310679610885 Avg\_Loss: 6.660175645050883  
Episode: 190: Time: 9.04369044303894 Total Reward: 82.35849056604162 Avg\_Loss: 6.475533809481549  
Episode: 191: Time: 9.155906438827515 Total Reward: 216.59420289855439 Avg\_Loss: 7.096500553002878  
Episode: 192: Time: 9.153875827789307 Total Reward: 489.5070422535139 Avg\_Loss: 6.447372699985985

Episode: 193: Time: 9.19782042503357 Total Reward: 190.71428571429067 Avg\_Loss: 6.795293039634448  
Episode: 194: Time: 9.489245653152466 Total Reward: 290.3820598006638 Avg\_Loss: 7.24889570224185  
Episode: 195: Time: 9.215915203094482 Total Reward: 399.7735191637586 Avg\_Loss: 6.9011933047230505  
Episode: 196: Time: 9.207491636276245 Total Reward: 438.3333333333235 Avg\_Loss: 6.567090383096903  
Episode: 197: Time: 9.46213412284851 Total Reward: 520.6156156156085 Avg\_Loss: 6.876639698733802  
Episode: 198: Time: 9.258939027786255 Total Reward: 399.6996466431057 Avg\_Loss: 7.130074843639085  
Episode: 199: Time: 9.312360763549805 Total Reward: 507.1897810218919 Avg\_Loss: 6.531013310456476  
Validation Mean Reward: 577.6487311267821 Validation Std Reward: 140.61054013639088  
Test Mean Reward: 574.9394309586244 Test Std Reward: 161.74126340008897

```
In [15]: traineSoftUpdateDQN = DQN.SoftUpdateDQN(EnvWrapper(env),
        model.Nature_Paper_Conv,
        tau = 0.05,
        update_freq = 1,
        lr = 0.00025,
        gamma = 0.95,
        buffer_size = 100000,
        batch_size = 32,
        loss_fn = "mse_loss",
        use_wandb = True,
        device = 'cuda',
        seed = 42,
        epsilon_scheduler = utils.exponential_decay(1, 1000, 0.1),
        save_path = utils.get_save_path("DoubleDQN_SoftUpdates_test")

traineSoftUpdateDQN.train(200, 50, 30, 50, 50)
```

saving to ./runs/DoubleDQN\_SoftUpdates\_test/run1  
Finishing previous runs because reinit is set to 'default'.

## Run history:



## Run summary:

loss	6.53101
mean_reward	577.64873
mean_test_reward	574.93943
std_reward	140.61054
std_test_reward	161.74126
total_reward	507.18978

View run **rare-music-10** at: <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/op4iy3re>

View project at: <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

Synced 5 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at: `./wandb/run-20250608_143427-op4iy3re/logs`

Tracking run with wandb version 0.20.0

Run data is saved locally in

`/home/tilboon/Documents/239AS_2/Project_4/wandb/run-20250608_152510-c8s95aqq`

Syncing run **fine-gorge-11** to [Weights & Biases \(docs\)](#)

View project at <https://wandb.ai/kbaseba-ucla/racing-car-dqn>

View run at <https://wandb.ai/kbaseba-ucla/racing-car-dqn/runs/c8s95aqq>



Episode: 0: Time: 6.55631422996521 Total Reward: -54.86622073578655 Avg\_Loss: 0.0  
Episode: 1: Time: 7.581755876541138 Total Reward: -68.28244274809225 Avg\_Loss: 0.4865546637914695  
Episode: 2: Time: 8.656254053115845 Total Reward: -55.65573770491892 Avg\_Loss: 0.5086549636379605  
Episode: 3: Time: 8.724108457565308 Total Reward: -71.27118644067843 Avg\_Loss: 0.4809999328044032  
Episode: 4: Time: 8.742109060287476 Total Reward: -72.1241830065363 Avg\_Loss: 0.43843170103984846  
Episode: 5: Time: 8.42009162902832 Total Reward: -22.083333333334075 Avg\_Loss: 0.5805974589316409  
Episode: 6: Time: 8.606217861175537 Total Reward: -13.644067796610983 Avg\_Loss: 0.5989418487620204  
Episode: 7: Time: 8.704542636871338 Total Reward: -71.94524495677253 Avg\_Loss: 0.5599531452758473  
Episode: 8: Time: 9.113034725189209 Total Reward: -66.8750000000006 Avg\_Loss: 0.493291992287175  
Episode: 9: Time: 8.81141471862793 Total Reward: -8.621262458472435 Avg\_Loss: 0.6571037256855423  
Episode: 10: Time: 8.22707724571228 Total Reward: -25.65693430657005 Avg\_Loss: 0.6525096923989409  
Episode: 11: Time: 8.38829517364502 Total Reward: -25.693069306931417 Avg\_Loss: 0.6255317283402971  
Episode: 12: Time: 8.871688842773438 Total Reward: -16.824104234528445 Avg\_Loss: 0.772825041551049  
Episode: 13: Time: 8.55030083656311 Total Reward: -36.97952218430106 Avg\_Loss: 0.8928053650159796  
Episode: 14: Time: 8.642497062683105 Total Reward: 103.52941176471026 Avg\_Loss: 0.9824710191548371  
Episode: 15: Time: 8.895750999450684 Total Reward: 6.010101010101762 Avg\_Loss: 1.0852697646292317  
Episode: 16: Time: 8.733076572418213 Total Reward: -20.80645161290385 Avg\_Loss: 1.0438092677157467  
Episode: 17: Time: 8.475907564163208 Total Reward: 79.90494296578422 Avg\_Loss: 1.0586559718020825  
Episode: 18: Time: 8.296856880187988 Total Reward: -29.210526315790187 Avg\_Loss: 1.2190330320296168  
Episode: 19: Time: 8.771589040756226 Total Reward: 13.433734939759745 Avg\_Loss: 1.3291235137261261  
Episode: 20: Time: 8.712218761444092 Total Reward: 137.08191126280315 Avg\_Loss: 1.4172903011326028  
Episode: 21: Time: 8.55316948890686 Total Reward: 24.718309859156484 Avg\_Loss: 1.461368911531793  
Episode: 22: Time: 8.505423784255981 Total Reward: 41.0544217687104 Avg\_Loss: 1.695549615604036  
Episode: 23: Time: 8.857015371322632 Total Reward: 576.1409395973062 Avg\_Loss: 1.7074172242599375  
Episode: 24: Time: 8.569616794586182 Total Reward: 59.882154882158886 Avg\_Loss: 2.302375654963886  
Episode: 25: Time: 8.973933458328247 Total Reward: 14.929078014184945 Avg\_Loss: 2.1217133114818765  
Episode: 26: Time: 8.579491138458252 Total Reward: 302.8873239436549 Avg\_Loss: 2.426853459046668  
Episode: 27: Time: 8.743886232376099 Total Reward: -17.297297297297842 Avg\_Loss: 2.6968440588782814

Episode: 28: Time: 9.076586484909058 Total Reward: 410.26315789472335 Avg\_Loss: 3.1910811737805855  
Episode: 29: Time: 9.137084245681763 Total Reward: 540.514018691581 Avg\_Loss: 3.1396390307350317  
Episode: 30: Time: 8.925475120544434 Total Reward: 550.0381679389219 Avg\_Loss: 3.927446303748283  
Episode: 31: Time: 8.71179461479187 Total Reward: 379.8201438848848 Avg\_Loss: 4.670656949031253  
Episode: 32: Time: 8.862555980682373 Total Reward: 325.3389830508378 Avg\_Loss: 4.554288895691142  
Episode: 33: Time: 8.81320858001709 Total Reward: 601.5517241379213 Avg\_Loss: 4.833331258607512  
Episode: 34: Time: 9.507601261138916 Total Reward: 380.72815533979724 Avg\_Loss: 4.29290444209796  
Episode: 35: Time: 9.097410678863525 Total Reward: 300.77039274923635 Avg\_Loss: 4.6109382094455365  
Episode: 36: Time: 8.74570631980896 Total Reward: 41.94267515923875 Avg\_Loss: 4.961462226485004  
Episode: 37: Time: 8.309059619903564 Total Reward: 20.25423728813709 Avg\_Loss: 4.859638847723729  
Episode: 38: Time: 8.812207698822021 Total Reward: 527.1374045801467 Avg\_Loss: 4.757881412486069  
Episode: 39: Time: 9.319167137145996 Total Reward: 289.6153846153864 Avg\_Loss: 5.481468550297392  
Episode: 40: Time: 9.206023931503296 Total Reward: 175.1149425287366 Avg\_Loss: 4.8679322825760405  
Episode: 41: Time: 8.916181087493896 Total Reward: 392.8048780487742 Avg\_Loss: 4.853203788024037  
Episode: 42: Time: 9.14850926399231 Total Reward: 266.37071651090446 Avg\_Loss: 4.893166213977237  
Episode: 43: Time: 8.99984073638916 Total Reward: 636.6176470588127 Avg\_Loss: 5.495840977720854  
Episode: 44: Time: 8.740896701812744 Total Reward: 395.63670411985055 Avg\_Loss: 5.9712739116003535  
Episode: 45: Time: 8.9917631149292 Total Reward: 442.76435045316174 Avg\_Loss: 6.005145690521272  
Episode: 46: Time: 8.592645406723022 Total Reward: 298.7282229965132 Avg\_Loss: 5.790172118599675  
Episode: 47: Time: 8.44641661643982 Total Reward: 76.32867132867563 Avg\_Loss: 6.541955533648739  
Episode: 48: Time: 9.14127516746521 Total Reward: 304.2805755395703 Avg\_Loss: 5.46043711950799  
Episode: 49: Time: 8.963106155395508 Total Reward: 499.3060498220573 Avg\_Loss: 5.89729894810364  
Validation Mean Reward: 58.31206389510172 Validation Std Reward: 286.7354936594495  
Episode: 50: Time: 9.658407211303711 Total Reward: 433.8461538461494 Avg\_Loss: 6.053715921750589  
Episode: 51: Time: 8.60307765007019 Total Reward: 314.9616858237438 Avg\_Loss: 6.300067284527947  
Episode: 52: Time: 9.194609880447388 Total Reward: 451.0317460317408 Avg\_Loss: 5.95908453684895  
Episode: 53: Time: 9.252808809280396 Total Reward: 467.9139072847596 Avg\_Loss: 5.79165279815177  
Episode: 54: Time: 9.05179214477539 Total Reward: 202.29729729730002 Avg\_Loss: 6.425098375612948

Episode: 55: Time: 8.673473119735718 Total Reward: 105.00000000000452 Avg\_Loss: 6.589431604918311  
Episode: 56: Time: 8.764201879501343 Total Reward: 316.55234657039824 Avg\_Loss: 6.908313648039553  
Episode: 57: Time: 8.801118850708008 Total Reward: 341.17021276595756 Avg\_Loss: 6.4400429520286435  
Episode: 58: Time: 9.116507530212402 Total Reward: 313.4084084084079 Avg\_Loss: 5.991703991629496  
Episode: 59: Time: 8.80799126625061 Total Reward: 63.73015873016092 Avg\_Loss: 6.325787195137569  
Episode: 60: Time: 9.07243299484253 Total Reward: 316.3475177304961 Avg\_Loss: 5.935520343920764  
Episode: 61: Time: 8.851253986358643 Total Reward: 269.62093862815897 Avg\_Loss: 6.414194993612145  
Episode: 62: Time: 8.957344055175781 Total Reward: 344.9999999999977 Avg\_Loss: 6.391266602428019  
Episode: 63: Time: 8.931047439575195 Total Reward: 239.43708609271107 Avg\_Loss: 6.1813709891142965  
Episode: 64: Time: 8.74915099143982 Total Reward: 273.6274509803913 Avg\_Loss: 5.9635495102706075  
Episode: 65: Time: 8.793562650680542 Total Reward: 249.8275862068998 Avg\_Loss: 6.390672708759789  
Episode: 66: Time: 8.815327644348145 Total Reward: 304.99999999999693 Avg\_Loss: 6.091458806470663  
Episode: 67: Time: 8.58182430267334 Total Reward: 70.56291390728924 Avg\_Loss: 6.00324061588079  
Episode: 68: Time: 9.027546882629395 Total Reward: 426.8978102189732 Avg\_Loss: 6.32195696259747  
Episode: 69: Time: 9.03364896774292 Total Reward: 342.2623574144475 Avg\_Loss: 5.976115789734015  
Episode: 70: Time: 9.46207046508789 Total Reward: 155.00000000000387 Avg\_Loss: 6.172614700653973  
Episode: 71: Time: 9.06264328956604 Total Reward: 443.9610389610336 Avg\_Loss: 5.4264433839741875  
Episode: 72: Time: 8.89584231376648 Total Reward: 245.35087719298434 Avg\_Loss: 5.861206529521141  
Episode: 73: Time: 8.893415927886963 Total Reward: 255.99337748344706 Avg\_Loss: 5.880333795266993  
Episode: 74: Time: 9.067109107971191 Total Reward: 383.4172661870447 Avg\_Loss: 5.518294702057077  
Episode: 75: Time: 9.276307106018066 Total Reward: 346.1764705882313 Avg\_Loss: 6.075960108212063  
Episode: 76: Time: 9.055240869522095 Total Reward: 387.31511254019176 Avg\_Loss: 5.383485968874282  
Episode: 77: Time: 8.838793992996216 Total Reward: 252.51773049645885 Avg\_Loss: 5.840982933505242  
Episode: 78: Time: 8.845920085906982 Total Reward: 288.606557377053 Avg\_Loss: 5.550864078918425  
Episode: 79: Time: 8.684959650039673 Total Reward: 469.20233463034197 Avg\_Loss: 5.976971710429472  
Episode: 80: Time: 8.906686305999756 Total Reward: 482.1812080536823 Avg\_Loss: 6.225578040635886  
Episode: 81: Time: 8.982645988464355 Total Reward: 455.335570469791 Avg\_Loss: 5.969168678051283  
Episode: 82: Time: 9.05826449394226 Total Reward: 301.2264150943397 Avg\_Loss: 6.014311863594696

Episode: 83: Time: 9.054595470428467 Total Reward: 476.92982456139373 Avg\_Loss: 5.649929322114511  
Episode: 84: Time: 8.913748979568481 Total Reward: 560.4054054053931 Avg\_Loss: 6.14131827965504  
Episode: 85: Time: 8.974913358688354 Total Reward: 468.1768953068487 Avg\_Loss: 5.958060878665507  
Episode: 86: Time: 8.837276935577393 Total Reward: 194.38906752411998 Avg\_Loss: 5.73548565291557  
Episode: 87: Time: 8.935795783996582 Total Reward: 277.34042553191773 Avg\_Loss: 5.6888635288767455  
Episode: 88: Time: 9.145404815673828 Total Reward: 298.65079365078464 Avg\_Loss: 5.915154963982205  
Episode: 89: Time: 3.037879705429077 Total Reward: 11.194533762058825 Avg\_Loss: 5.631167059852963  
Episode: 90: Time: 8.942649841308594 Total Reward: 418.88888888888516 Avg\_Loss: 5.824968677108028  
Episode: 91: Time: 8.945473670959473 Total Reward: 439.96503496503146 Avg\_Loss: 5.774096612168961  
Episode: 92: Time: 8.977162837982178 Total Reward: 387.9931972789103 Avg\_Loss: 5.530826104789221  
Episode: 93: Time: 8.797797918319702 Total Reward: 496.6030534351044 Avg\_Loss: 6.007252356084455  
Episode: 94: Time: 8.790629863739014 Total Reward: 439.0909090909032 Avg\_Loss: 6.177214349017424  
Episode: 95: Time: 9.273578882217407 Total Reward: 359.8286604361312 Avg\_Loss: 5.9552068855582165  
Episode: 96: Time: 9.403635501861572 Total Reward: 398.54838709676767 Avg\_Loss: 5.848199717637871  
Episode: 97: Time: 9.27015209197998 Total Reward: 358.674121405748 Avg\_Loss: 7.359165480156906  
Episode: 98: Time: 8.919915676116943 Total Reward: 357.2968197879827 Avg\_Loss: 6.189526237359567  
Episode: 99: Time: 9.031726121902466 Total Reward: 518.63636363636 Avg\_Loss: 6.111856684965246  
Validation Mean Reward: 359.17731124489706 Validation Std Reward: 80.71327194746027  
Episode: 100: Time: 9.359397649765015 Total Reward: 168.77952755905966 Avg\_Loss: 7.008666909041525  
Episode: 101: Time: 9.502763748168945 Total Reward: 437.30769230768806 Avg\_Loss: 6.392469161197919  
Episode: 102: Time: 9.276285409927368 Total Reward: 303.75389408098636 Avg\_Loss: 5.725183223976808  
Episode: 103: Time: 9.051869869232178 Total Reward: 525.0716845878071 Avg\_Loss: 5.876977665083749  
Episode: 104: Time: 8.97771406173706 Total Reward: 525.9150326797306 Avg\_Loss: 5.852052958071733  
Episode: 105: Time: 8.826242685317993 Total Reward: 538.9622641509325 Avg\_Loss: 5.8595993143169816  
Episode: 106: Time: 8.954313278198242 Total Reward: 525.209059233439 Avg\_Loss: 5.860063932523006  
Episode: 107: Time: 9.129685163497925 Total Reward: 233.94736842105627 Avg\_Loss: 6.080731180535645  
Episode: 108: Time: 9.092817306518555 Total Reward: 794.3129770992251 Avg\_Loss: 5.4701331192705815  
Episode: 109: Time: 9.06210970878601 Total Reward: 311.59340659339284 Avg\_Loss: 5.812028173138113

Episode: 110: Time: 8.97760534286499 Total Reward: 502.3597359735924 Avg\_Loss: 5.393580956619327  
Episode: 111: Time: 8.957183837890625 Total Reward: 479.25742574256685 Avg\_Loss: 5.957861848238136  
Episode: 112: Time: 9.271071910858154 Total Reward: 295.5325443786918 Avg\_Loss: 6.192001383845546  
Episode: 113: Time: 8.876284122467041 Total Reward: 566.9718309859048 Avg\_Loss: 6.3718596466449124  
Episode: 114: Time: 9.145821332931519 Total Reward: 624.1780821917682 Avg\_Loss: 5.804842846734183  
Episode: 115: Time: 9.122658967971802 Total Reward: 438.80782918149373 Avg\_Loss: 6.335016512069382  
Episode: 116: Time: 9.548054456710815 Total Reward: 424.2307692307583 Avg\_Loss: 5.997030410446039  
Episode: 117: Time: 9.375480890274048 Total Reward: 473.2539682539638 Avg\_Loss: 5.956745285947783  
Episode: 118: Time: 8.997241735458374 Total Reward: 95.00000000000395 Avg\_Loss: 6.0423396675526595  
Episode: 119: Time: 8.928192377090454 Total Reward: 368.576158940395 Avg\_Loss: 6.381139435687987  
Episode: 120: Time: 9.169574499130249 Total Reward: 562.7181208053605 Avg\_Loss: 6.2024202266661055  
Episode: 121: Time: 9.23650860786438 Total Reward: 569.2599277978225 Avg\_Loss: 5.798326379110833  
Episode: 122: Time: 9.257285833358765 Total Reward: 654.0909090908967 Avg\_Loss: 6.12752515027503  
Episode: 123: Time: 9.254431009292603 Total Reward: 334.60288808663387 Avg\_Loss: 6.29556497505733  
Episode: 124: Time: 9.289996862411499 Total Reward: 431.8138801261716 Avg\_Loss: 6.252889081209648  
Episode: 125: Time: 9.2678382396698 Total Reward: 467.4999999999545 Avg\_Loss: 6.792087465775113  
Episode: 126: Time: 8.944157600402832 Total Reward: 647.2680412371033 Avg\_Loss: 6.228049789657112  
Episode: 127: Time: 8.924472093582153 Total Reward: 470.8362989323758 Avg\_Loss: 6.642333588680299  
Episode: 128: Time: 8.995054960250854 Total Reward: 742.6383763837558 Avg\_Loss: 6.108020710344074  
Episode: 129: Time: 9.782647609710693 Total Reward: 297.67015706806217 Avg\_Loss: 6.197192994486384  
Episode: 130: Time: 9.555768728256226 Total Reward: 439.9544072948234 Avg\_Loss: 6.340594404885749  
Episode: 131: Time: 9.08438515663147 Total Reward: 397.90780141843845 Avg\_Loss: 5.982351170868433  
Episode: 132: Time: 9.027397394180298 Total Reward: 466.64383561643047 Avg\_Loss: 5.744589814618856  
Episode: 133: Time: 8.702022552490234 Total Reward: 492.54863813229167 Avg\_Loss: 6.2613062007086615  
Episode: 134: Time: 9.332598209381104 Total Reward: 342.888198757763 Avg\_Loss: 6.794724473432333  
Episode: 135: Time: 9.123998403549194 Total Reward: 380.52447552447114 Avg\_Loss: 5.528870404267511  
Episode: 136: Time: 9.27253532409668 Total Reward: 575.2508960573357 Avg\_Loss: 5.924862504005432  
Episode: 137: Time: 9.009866714477539 Total Reward: 666.3636363636247 Avg\_Loss: 6.5243209580413435

Episode: 138: Time: 9.150161743164062 Total Reward: 418.15789473683725 Avg\_Loss: 6.575525171616498  
Episode: 139: Time: 8.928948402404785 Total Reward: 596.5254237288032 Avg\_Loss: 6.027219917093005  
Episode: 140: Time: 8.987720012664795 Total Reward: 642.762237762226 Avg\_Loss: 6.3318118688439124  
Episode: 141: Time: 9.00813913345337 Total Reward: 616.80555555555452 Avg\_Loss: 6.603807534490313  
Episode: 142: Time: 9.115390539169312 Total Reward: 579.9116607773775 Avg\_Loss: 6.52598726098277  
Episode: 143: Time: 9.207422494888306 Total Reward: 485.6451612903141 Avg\_Loss: 6.654843094969998  
Episode: 144: Time: 9.366041660308838 Total Reward: 163.06451612903646 Avg\_Loss: 6.61655907470639  
Episode: 145: Time: 3.6324942111968994 Total Reward: -8.788475836429754 Avg\_Loss: 6.5973257312969285  
Episode: 146: Time: 9.06598448753357 Total Reward: 691.2318840579638 Avg\_Loss: 6.710681978394003  
Episode: 147: Time: 9.002128601074219 Total Reward: 471.5529010238816 Avg\_Loss: 6.325907439744773  
Episode: 148: Time: 9.054104328155518 Total Reward: 663.0645161290242 Avg\_Loss: 6.059993513992855  
Episode: 149: Time: 9.109380006790161 Total Reward: 580.9581881532996 Avg\_Loss: 6.3760623090407424  
Validation Mean Reward: 711.2303030879721 Validation Std Reward: 80.55127160966934  
Episode: 150: Time: 9.619236469268799 Total Reward: 547.8571428571347 Avg\_Loss: 7.041560387411037  
Episode: 151: Time: 9.219735383987427 Total Reward: 477.9537366547968 Avg\_Loss: 6.785124844863635  
Episode: 152: Time: 9.139271020889282 Total Reward: 529.5353159851177 Avg\_Loss: 6.361135151205945  
Episode: 153: Time: 9.236505508422852 Total Reward: 502.9381443298912 Avg\_Loss: 6.251157969987693  
Episode: 154: Time: 9.163758277893066 Total Reward: 604.2481203007388 Avg\_Loss: 6.389032204611962  
Episode: 155: Time: 9.723037958145142 Total Reward: 308.50877192981704 Avg\_Loss: 8.795837664804539  
Episode: 156: Time: 9.465022563934326 Total Reward: 570.5405405405338 Avg\_Loss: 7.40439294766979  
Episode: 157: Time: 9.205631017684937 Total Reward: 751.9387755101959 Avg\_Loss: 7.215280253346227  
Episode: 158: Time: 9.296576261520386 Total Reward: 529.6056782334269 Avg\_Loss: 6.811880622591291  
Episode: 159: Time: 9.044585704803467 Total Reward: 605.7299270072876 Avg\_Loss: 7.655168439660754  
Episode: 160: Time: 9.250665187835693 Total Reward: 598.8775510203991 Avg\_Loss: 8.002801392258716  
Episode: 161: Time: 9.125159978866577 Total Reward: 469.5756457564505 Avg\_Loss: 7.047252157155206  
Episode: 162: Time: 9.319249629974365 Total Reward: 438.80782918148964 Avg\_Loss: 6.59282609745234  
Episode: 163: Time: 9.383734703063965 Total Reward: 332.0833333333305 Avg\_Loss: 6.674469880697106  
Episode: 164: Time: 9.15494680404663 Total Reward: 440.5932203389743 Avg\_Loss: 6.264924726566346

Episode: 165: Time: 9.238390445709229 Total Reward: 399.8096885813127 Avg\_Loss: 6.876724563225978  
Episode: 166: Time: 9.162024021148682 Total Reward: 682.4193548387013 Avg\_Loss: 6.842188826128214  
Episode: 167: Time: 9.239818096160889 Total Reward: 605.3367003366866 Avg\_Loss: 6.901169469376572  
Episode: 168: Time: 9.151572227478027 Total Reward: 606.438848920852 Avg\_Loss: 6.5898542854966236  
Episode: 169: Time: 9.183410882949829 Total Reward: 675.3180212014009 Avg\_Loss: 6.455259120764852  
Episode: 170: Time: 9.35300874710083 Total Reward: 431.49006622515856 Avg\_Loss: 7.010238892891827  
Episode: 171: Time: 9.117608547210693 Total Reward: 350.9930313588752 Avg\_Loss: 7.185561111995152  
Episode: 172: Time: 9.059525728225708 Total Reward: 542.3239436619638 Avg\_Loss: 6.87105826870734  
Episode: 173: Time: 9.28116250038147 Total Reward: 342.299035369772 Avg\_Loss: 6.718605231838066  
Episode: 174: Time: 9.198558807373047 Total Reward: 680.3623188405702 Avg\_Loss: 7.989525622680407  
Episode: 175: Time: 9.22857403755188 Total Reward: 551.3878326996114 Avg\_Loss: 7.088277621429508  
Episode: 176: Time: 9.231263875961304 Total Reward: 677.2419928825508 Avg\_Loss: 7.23193033703235  
Episode: 177: Time: 9.193994522094727 Total Reward: 642.5886524822591 Avg\_Loss: 7.762847203166545  
Episode: 178: Time: 9.241966724395752 Total Reward: 559.6052631578873 Avg\_Loss: 7.360956490540705  
Episode: 179: Time: 9.092979431152344 Total Reward: 613.9041095890284 Avg\_Loss: 7.084643033372254  
Episode: 180: Time: 9.30953860282898 Total Reward: 627.22222222213 Avg\_Loss: 7.261575407340747  
Episode: 181: Time: 9.40207815170288 Total Reward: 426.12676056337136 Avg\_Loss: 7.1180779443067665  
Episode: 182: Time: 9.3632173538208 Total Reward: 677.1088435374066 Avg\_Loss: 7.171522392946131  
Episode: 183: Time: 9.220801830291748 Total Reward: 634.4520547945087 Avg\_Loss: 8.891976547842265  
Episode: 184: Time: 9.10243535041809 Total Reward: 571.6666666666579 Avg\_Loss: 7.501421173079675  
Episode: 185: Time: 9.325447797775269 Total Reward: 228.03370786517002 Avg\_Loss: 7.462831434081583  
Episode: 186: Time: 9.430377006530762 Total Reward: 298.5860058309054 Avg\_Loss: 7.543626017931129  
Episode: 187: Time: 9.33642029762268 Total Reward: 249.72049689440084 Avg\_Loss: 7.096131737492666  
Episode: 188: Time: 9.254774808883667 Total Reward: 535.508474576262 Avg\_Loss: 7.2828914508098315  
Episode: 189: Time: 9.368557453155518 Total Reward: 575.1030927834935 Avg\_Loss: 8.295567695834055  
Episode: 190: Time: 9.326198101043701 Total Reward: 557.777777777678 Avg\_Loss: 6.974707424139776  
Episode: 191: Time: 9.064075946807861 Total Reward: 602.0802919707938 Avg\_Loss: 7.795918186171716  
Episode: 192: Time: 8.915533781051636 Total Reward: 663.4905660377241 Avg\_Loss: 7.021428292538939

Episode: 193: Time: 9.186847686767578 Total Reward: 507.1897810218916 Avg\_Loss: 7.711164915261149  
Episode: 194: Time: 9.376569509506226 Total Reward: 434.78056426331705 Avg\_Loss: 7.624573596385347  
Episode: 195: Time: 9.396681547164917 Total Reward: 553.2758620689541 Avg\_Loss: 8.298684581988999  
Episode: 196: Time: 9.380217552185059 Total Reward: 357.3076923076892 Avg\_Loss: 7.318462701404796  
Episode: 197: Time: 9.642503261566162 Total Reward: 345.9221902017235 Avg\_Loss: 6.913225777008954  
Episode: 198: Time: 8.861536264419556 Total Reward: 646.3127413127265 Avg\_Loss: 7.168872042864311  
Episode: 199: Time: 8.84920334815979 Total Reward: 674.2307692307588 Avg\_Loss: 7.7386015302994675  
Validation Mean Reward: 580.7310101725287 Validation Std Reward: 158.73226598640662  
Test Mean Reward: 704.801135613288 Test Std Reward: 107.43199837224009

This notebook was converted with [convert.ploomber.io](https://convert.ploomber.io)



```

import cv2
import numpy as np
import gymnasium as gym
import matplotlib.pyplot as plt
from utils import preprocess #this is a helper function that may be useful to grayscale and crop the image

class EnvWrapper(gym.Wrapper):
    def __init__(
        self,
        env:gym.Env,
        skip_frames:int=4,
        stack_frames:int=4,
        initial_no_op:int=50,
        do_nothing_action:int=0,
        **kwargs
    ):
        """
        Gym Wrapper for CarRacing-v3 that adds frame-skipping, frame-stacking,
        and an initial no-op period to facilitate training.

        Args:
            env (gym.Env): the original environment
            skip_frames (int, optional): the number of frames to skip, in other words we will
            repeat the same action for `skip_frames` steps.
            stack_frames (int, optional): the number of frames to stack as a state, we stack
            `stack_frames` frames to form the state and allow agent understand the motion of
            the car. Defaults to 4.
            initial_no_op (int, optional): the initial number of no-op steps to do nothing at
            the beginning of the episode. Defaults to 50.
            do_nothing_action (int, optional): the action index for doing nothing. Defaults to
            0, which should be correct unless you have modified the
            discretization of the action space.
        """
        super().__init__(env, **kwargs)
        self.initial_no_op = initial_no_op
        self.skip_frames = skip_frames
        self.stack_frames = stack_frames
        self.observation_space = gym.spaces.Box(
            low=0,
            high=1,
            shape=(stack_frames, 84, 84),
            dtype=np.float32
        )
        self.do_nothing_action = do_nothing_action

    def reset(self, **kwargs):
        """
        Reset the environment and perform a sequence of no-op actions before
        returning the initial stacked state.

        Returns:
            stacked_state (np.ndarray): Array shape (stack_frames,84,84).
            info (dict): Env-provided info dict.
        """
        # ===== YOUR CODE HERE =====
        # TODO:
        # 1. call the enviroment reset
        # 2. do nothing for the next self.initial_no_op` steps
        # 3. crop and resize the final frame
        # 4. stack the frames to form the initial state
        # =====

        # step 1

```

```

obs, info = self.env.reset(**kwargs)

# step 2
for _ in range(self.initial_no_op):
    obs, _, terminated, truncated, _ = self.env.step(self.do_nothing_action)
    if terminated or truncated:
        obs, info = self.env.reset(**kwargs)

# step 3
processed_frame = preprocess(obs)  # Assume this returns (84, 84) grayscale float32
np.array

# step 4
frames = []
for _ in range(self.stack_frames):
    frames.append(processed_frame)

self.stacked_state = np.stack(frames, axis=0)

# ===== YOUR CODE ENDS =====

return self.stacked_state, info

def step(self, action):
    """
    Apply the given action with frame-skipping, accumulate rewards,
    and update the frame stack.

    Args:
        action (int): Discrete action index to execute.

    Returns:
        stacked_state (np.ndarray): Updated state with recent `stack_frames` frames.
        reward (float): Sum of rewards over skipped frames.
        terminated (bool): True if env episode ended.
        truncated (bool): True if env truncated.
        info (dict): Env-provided info dict.
    """
    # ===== YOUR CODE HERE =====
    # TODO:
    # 1. take step(action) on underlying env for `self.skip_frames` steps.
    # 2. sum the immediate rewards
    # 3. preprocess the final observed frame.
    # 4. append new frame to `self.stacked_state` and remove oldest.
    # =====

    total_reward = 0.0
    terminated = False
    truncated = False
    info = {}

    # step 1 and step 2
    for _ in range(self.skip_frames):
        obs, reward, terminated, truncated, info = self.env.step(action)
        total_reward += reward
        if terminated or truncated:
            break

    # step 3
    processed_frame = preprocess(obs)

    # step 4
    self.stacked_state = np.concatenate(
        [self.stacked_state[1:], np.expand_dims(processed_frame, axis=0)],
        axis=0
    )

```

```
# ===== YOUR CODE ENDS =====
```

```
return self.stacked_state, total_reward, terminated, truncated, info
```

```
import torch as torch
import torch.nn as nn
```

```
import torch
import torch.nn as nn
import numpy as np
```

```
class MLP(nn.Module):
    def __init__(self, input_size:int, action_size:int,
hidden_size:int=256,non_linear:nn.Module=nn.ReLU):
        """
        input: tuple[int]
            The input size of the image, of shape (channels, height, width)
        action_size: int
            The number of possible actions
        hidden_size: int
            The number of neurons in the hidden layer

        This is a separate class because it may be useful for the bonus questions
        """
        super(MLP, self).__init__()
        # ===== YOUR CODE HERE =====
        # TODO:
        # self.linear1 =
        # self.output =
        # self.non_linear =
        # =====

        self.linear1 = nn.Linear(input_size, hidden_size)
        self.output = nn.Linear(hidden_size, action_size)
        self.non_linear = non_linear()

        # ===== YOUR CODE ENDS =====

    def forward(self, x:torch.Tensor)->torch.Tensor:
        # ===== YOUR CODE HERE =====

        x = self.non_linear(self.linear1(x))
        x = self.output(x)

        # ===== YOUR CODE ENDS =====
        return x
```

```
class Nature_Paper_Conv(nn.Module):
    """
    A class that defines a neural network with the following architecture:
    - 1 convolutional layer with 32 8x8 kernels with a stride of 4x4 w/ ReLU activation
    - 1 convolutional layer with 64 4x4 kernels with a stride of 2x2 w/ ReLU activation
    - 1 convolutional layer with 64 3x3 kernels with a stride of 1x1 w/ ReLU activation
    - 1 fully connected layer with 512 neurons and ReLU activation.
    Based on 2015 paper 'Human-level control through deep reinforcement learning' by Mnih et al
    """
    def __init__(self, input_size:tuple[int], action_size:int,**kwargs):
        """
        input: tuple[int]
            The input size of the image, of shape (channels, height, width)
        action_size: int
            The number of possible actions
        **kwargs: dict
            additional kwargs to pass for stuff like dropout, etc if you would want to
            implement it
        """
        super(Nature_Paper_Conv, self).__init__()
        # ===== YOUR CODE HERE =====
```

```

c, h, w = input_size

self.CNN = nn.Sequential(
    nn.Conv2d(c, 32, kernel_size=8, stride=4),
    nn.ReLU(),
    nn.Conv2d(32, 64, kernel_size=4, stride=2),
    nn.ReLU(),
    nn.Conv2d(64, 64, kernel_size=3, stride=1),
    nn.ReLU()
)

# Compute output size after conv layers
def conv2d_out(size, kernel, stride):
    return (size - kernel) // stride + 1

convw = conv2d_out(conv2d_out(conv2d_out(w, 8, 4), 4, 2), 3, 1)
convh = conv2d_out(conv2d_out(conv2d_out(h, 8, 4), 4, 2), 3, 1)
linear_input_size = convw * convh * 64

# Must match weight file: 512 hidden units
self.MLP = MLP(input_size=linear_input_size, action_size=action_size, hidden_size=512)

# ===== YOUR CODE ENDS =====

def forward(self, x:torch.Tensor)->torch.Tensor:
    # ===== YOUR CODE HERE =====

    x = self.CNN(x)
    x = x.view(x.size(0), -1)
    x = self.MLP(x)

    # ===== YOUR CODE ENDS =====
    return x

```

```
import random
import torch
import numpy as np
```

```
class ReplayBufferDQN:
```

```
    def __init__(self, buffer_size:int, seed:int=42):
        self.buffer_size = buffer_size
        self.seed = seed
        self.buffer = []
        random.seed(self.seed)
```

```
    def add(self, state:np.ndarray, action:int, reward:float, next_state:np.ndarray
        , done:bool):
```

```
        """
```

```
        Add a new experience to the buffer
```

```
        Args:
```

```
            state (np.ndarray): the current state of shape [n_c,h,w]
```

```
            action (int): the action taken
```

```
            reward (float): the reward received
```

```
            next_state (np.ndarray): the next state of shape [n_c,h,w]
```

```
            done (bool): whether the episode is done
```

```
        """
```

```
        self.buffer.append((state, action, reward, next_state, done))
```

```
        if len(self.buffer) > self.buffer_size:
```

```
            self.buffer.pop(0)
```

```
    def sample(self, batch_size:int, device='cpu'):
```

```
        """
```

```
        Randomly sample a batch of experiences from the replay buffer.
```

```
        Args:
```

```
            batch_size (int): the number of samples to take
```

```
        Returns:
```

```
            states (torch.Tensor): Tensor of shape (batch_size, n_channels, height, width),
```

```
            dtype torch.float32.
```

```
            actions (torch.Tensor): Tensor of shape (batch_size,), dtype torch.int64
```

```
(converted via `.long()`).
```

```
            rewards (torch.Tensor): Tensor of shape (batch_size,), dtype torch.float32.
```

```
            next_states (torch.Tensor): Tensor of shape (batch_size, n_channels, height,
```

```
width), dtype torch.float32.
```

```
            dones (torch.Tensor): Tensor of shape (batch_size,), dtype torch.bool.
```

```
        Notes:
```

```
            1. Use `random.sample` for uniform sampling without replacement.
```

```
            2. Convert NumPy arrays to torch tensors with the correct dtype before moving to
```

```
`device`.
```

```
            3. Use `torch.stack` to combine individual tensors into a batch dimension.
```

```
            4. Keep the output shapes and dtypes consistent.
```

```
        """
```

```
        # ===== YOUR CODE HERE =====
```

```
        # TODO:
```

```
        # 1. sample random indices
```

```
        # 2. collect experiences using the sampled indices
```

```
        # 3. stack and move batches to the specified device, making sure to convert to the
        correct dtype
```

```
        # =====
```

```
        # step 1
```

```
        batch = random.sample(self.buffer, batch_size)
```

```
        # step 2
```

```
        states, actions, rewards, next_states, dones = zip(*batch)
```

```
# step 3
states = torch.stack([torch.tensor(s, dtype=torch.float32) for s in
states]).to(device)
actions = torch.tensor(actions, dtype=torch.int64).to(device)
rewards = torch.tensor(rewards, dtype=torch.float32).to(device)
next_states = torch.stack([torch.tensor(ns, dtype=torch.float32) for ns in
next_states]).to(device)
dones = torch.tensor(dones, dtype=torch.bool).to(device)

# ===== YOUR CODE ENDS =====

return states, actions, rewards, next_states, dones

def __len__(self):
    return len(self.buffer)
```

```

import torch
import torch.optim as optim
import torch.nn.functional as F
import torch.nn
import gymnasium as gym
from replay_buffer import ReplayBufferDQN
import wandb
import random
import numpy as np
import os
import time
from utils import exponential_decay
import typing

```

*# TODO: change the logging here if you don't like wandb*

```
class DQN:
```

```

    def __init__(self, env:typing.Union[gym.Env,gym.Wrapper],
        #model params
        model:torch.nn.Module,
        model_kwargs:dict = {},
        #overall hyperparams
        lr:float = 0.001, gamma:float = 0.99,
        buffer_size:int = 10000, batch_size:int = 32,
        loss_fn:str = 'mse_loss',
        use_wandb:bool = False,
        device:str = 'cpu',
        seed:int = 42,
        epsilon_scheduler = exponential_decay(1,700,0.1),
        save_path:str = None):

```

*"""Initializes the DQN algorithm*

*Args:*

*env (gym.Env/gym.Wrapper): the environment to train on*  
*model (torch.nn.Module): the model to train*  
*model\_kwargs (dict, optional): the keyword arguments to pass to the model. Defaults*  
*to {}.*

*lr (float, optional): the learning rate to use in the optimizer. Defaults to 0.001.*  
*gamma (float, optional): discount factor. Defaults to 0.99.*  
*buffer\_size (int, optional): the size of the replay buffer. Defaults to 10000.*  
*batch\_size (int, optional): the batch size. Defaults to 32.*  
*loss\_fn (str, optional): the name of the loss function to use. Defaults to*

*'mse\_loss'.*

*use\_wandb (bool, optional): \_description\_. Defaults to False.*  
*device (str, optional): \_description\_. Defaults to 'cpu'.*  
*seed (int, optional): the seed to use for reproducibility. Defaults to 42.*  
*epsilon\_scheduler ([type], optional): the epsilon scheduler to use, must have a*

*\_\_call\_\_ method that returns a float between 0 and 1*

*save\_path (str, optional): \_description\_. Defaults to None.*

*Raises:*

*ValueError: \_description\_*

*"""*

```
self.env = env
```

```
self._set_seed(seed)
```

```
self.observation_space = self.env.observation_space.shape
```

```
self.model = model(
```

```
    self.observation_space,
```

```
    self.env.action_space.n, **model_kwargs
```

```
) .to(device)
```

```
self.model.train()
```

```
self.optimizer = optim.Adam(self.model.parameters(), lr = lr)
```

```
self.gamma = gamma
```

```
self.replay_buffer = ReplayBufferDQN(buffer_size)
```



```

self.batch_size = batch_size
self.i_update = 0
self.device = device
self.epsilon_decay = epsilon_scheduler
self.save_path = save_path if save_path is not None else "./"

#set the loss function
if loss_fn == 'smooth_l1_loss':
    self.loss_fn = F.smooth_l1_loss
elif loss_fn == 'mse_loss':
    self.loss_fn = F.mse_loss
else:
    raise ValueError('loss_fn must be either smooth_l1_loss or mse_loss')

self.wandb = use_wandb
if self.wandb:
    wandb.init(project = 'racing-car-dqn')
    #log the hyperparameters
    wandb.config.update({
        'lr': lr,
        'gamma': gamma,
        'buffer_size': buffer_size,
        'batch_size': batch_size,
        'loss_fn': loss_fn,
        'device': device,
        'seed': seed,
        'save_path': save_path
    })

def train(self, n_episodes:int = 1000,validate_every:int = 100, n_validation_episodes:int
= 10, n_test_episodes:int = 10,save_every:int = 100):
    os.makedirs(self.save_path, exist_ok = True)
    best_val_reward = -np.inf

    for episode in range(n_episodes):
        state,_ = self.env.reset()
        done = False
        truncated = False
        total_reward = 0
        i = 0
        loss = 0
        start_time = time.time()
        epsilon = self.epsilon_decay()
        while (not done) and (not truncated):
            action = self._sample_action(state, epsilon)
            next_state, reward, done, truncated, _ = self.env.step(action)
            self.replay_buffer.add(state, action, reward, next_state, done)
            total_reward += reward
            state = next_state

            not_warm_starting,l = self._optimize_model()
            if not_warm_starting:
                loss += l
                epsilon = self.epsilon_decay()
                i += 1

        if i == 0:
            avg_loss = loss / (i+1)
        else:
            avg_loss = loss/i
        if self.wandb:
            wandb.log({'total_reward': total_reward, 'loss': avg_loss})
        print(f"Episode: {episode}: Time: {time.time() - start_time} Total Reward:
{total_reward} Avg_Loss: {avg_loss}")
        if episode % validate_every == validate_every - 1:
            mean_reward, std_reward = self.validate(n_validation_episodes)
            if self.wandb:
                wandb.log({'mean_reward': mean_reward, 'std_reward': std_reward})

```

```

        print("Validation Mean Reward: {}".format(mean_reward))
        print("Validation Std Reward: {}".format(std_reward))
        if mean_reward > best_val_reward:
            best_val_reward = mean_reward
            self._save('best')

    if episode % save_every == save_every - 1:
        self._save(str(episode))

    self._save('final')
    self.load_model('best')
    mean_reward, std_reward = self.validate(n_test_episodes)
    if self.wandb:
        wandb.log({'mean_test_reward': mean_reward, 'std_test_reward': std_reward})
    print("Test Mean Reward: {} Test Std Reward: {}".format(mean_reward, std_reward))

def _optimize_model(self):
    """
    Performs one optimization step on the DQN.

    Returns:
        bool: whether we have enough samples to optimize the model, which we define as
        having at least 10*batch_size samples
        float: the loss, if we do not have enough samples, we return 0
    """
    # ===== YOUR CODE HERE =====
    # TODO: some hints to get you started:
    # 1. check if the replay buffer has enough samples
    # 2. sample a minibatch
    # 3. No-op
    # 4. compute current Q: q_values = ...
    # 5. compute target Q
    # 6. compute loss between current Q and target Q
    # 7. backprop
    # =====

    # step 1
    if len(self.replay_buffer) < (10 * self.batch_size):
        return False, 0.0

    # step 2
    states, actions, rewards, next_states, dones =
self.replay_buffer.sample(self.batch_size, device=self.device)

    # step 3
    # No-op

    # step 4
    # Select Q-values for the taken actions
    q_values = self.model(states) # shape: (batch_size, num_actions)

    # step 5: target_q
    with torch.no_grad():
        next_q_values = self.model(next_states)
        max_next_q_values = next_q_values.max(dim=1)[0]
        if dones.all():
            targets = rewards
        else:
            targets = rewards + self.gamma * max_next_q_values

    # step 6
    q_values_given_action = q_values.gather(1, actions.unsqueeze(1)).squeeze(1) # shape:
(batch_size,)
    loss = self.loss_fn(q_values_given_action, targets)

    # step 7
    self.optimizer.zero_grad()

```

```

loss.backward()
self.optimizer.step()

return True, loss.item()

# ===== YOUR CODE ENDS =====

def _sample_action(self, state:np.ndarray
                  , epsilon:float = 0.1)->int:
    """
    Samples an action from the model

    Args:
        state (np.ndarray): the state, of shape [n_c,h,w]
        epsilon (float, optional): the epsilon for epsilon greedy. Defaults to 0.1.

    Returns:
        int: the index of the action to take
    """
    # ===== YOUR CODE HERE =====
    # TODO:
    # Epsilon-greedy action selection:
    # - if probability epsilon: random action
    # - else: greedy action
    # =====

    if random.random() < epsilon:
        index = self.env.action_space.sample()
    else:
        state_tensor = torch.tensor(state, dtype=torch.float32,
device=self.device).unsqueeze(0)
        with torch.no_grad():
            q_values = self.model(state_tensor)
            index = q_values.argmax(dim=1).item()

    # ===== YOUR CODE ENDS =====
    return index

def _set_seed(self, seed:int):
    random.seed(seed)
    np.random.seed(seed)
    self.seed = seed
    torch.manual_seed(seed)
    torch.cuda.manual_seed(seed)
    torch.backends.cudnn.deterministic = True
    gym.utils.seeding.np_random(seed)

def _validate_once(self):
    state,_ = self.env.reset()
    done = False
    truncated = False
    total_reward = 0
    i = 0
    # epsilon = self.epsilon_decay()
    while (not done) and (not truncated):
        action = self._sample_action(state, 0)
        # out = self.env.step(action)
        next_state, reward, done, truncated, _ = self.env.step(action)
        # next_state = np.array(state_buffer[-self.n_frames:])
        total_reward += reward
        state = next_state
    return total_reward

def validate(self, n_episodes:int = 10):
    # self.model.eval()
    rewards_per_episode = []

```

```

for _ in range(n_episodes):
    rewards_per_episode.append(self._validate_once())
    # self.model.train()
    return np.mean(rewards_per_episode), np.std(rewards_per_episode)

def load_model(self, suffix:str = ''):
    self.model.load_state_dict(torch.load(os.path.join(self.save_path,
f'model_{suffix}.pt'))))

def _save(self, suffix:str = ''):
    torch.save(self.model.state_dict(), os.path.join(self.save_path,
f'model_{suffix}.pt'))

def play_episode(self, epsilon:float = 0, return_frames:bool = True, seed:int = None):
    """Plays an episode of the environment

    Args:
        epsilon (float, optional): the epsilon for epsilon greedy. Defaults to 0.
        return_frames (bool, optional): whether we should return frames. Defaults to True.
        seed (int, optional): the seed for the enviroment. Defaults to None.

    Returns:
        if return_frames is True, returns the total reward and the frames
        if return_frames is False, returns the total reward
    """
    if seed is not None:
        state, _ = self.env.reset(seed = seed)
    else:
        state, _ = self.env.reset()

    done = False
    total_reward = 0
    if return_frames:
        frames = []

    with torch.no_grad():
        while not done:
            action = self._sample_action(state, epsilon)
            next_state, reward, terminated, truncated, _ = self.env.step(action)
            total_reward += reward
            done = terminated or truncated
            if return_frames:
                frames.append(self.env.render())
            state = next_state

    if return_frames:
        return total_reward, frames

    return total_reward

```

```

class HardUpdateDQN(DQN):

```

```

    def __init__(self, env, model, model_kwargs:dict = {},
        update_freq:int = 5, *args, **kwargs):
        super().__init__(env, model, model_kwargs, *args, **kwargs)
        # ===== YOUR CODE HERE =====
        # TODO:
        # fill in the initialization and synchronization of the target model weights
        # =====

        # Initialize target network with same architecture
        self.target_model = model(
            self.observation_space,
            self.env.action_space.n,
            **model_kwargs

```

```

).to(self.device)

# Copy initial weights from model to target_model
self.target_model.load_state_dict(self.model.state_dict())

# Set target network to eval mode (not training)
self.target_model.eval()

# Store update frequency for hard target updates
self.update_freq = update_freq

# ===== YOUR CODE ENDS =====

def _optimize_model(self):
    """Optimizes the model

    Returns:
        bool: whether we have enough samples to optimize the model, which we define as
        having at least 10*batch_size samples
        float: the loss, if we do not have enough samples, we return 0
    """
    # ===== YOUR CODE HERE =====
    # TODO:
    # hint: you can copy over most of the code from the parent class
    # and only change one line
    # =====

    if len(self.replay_buffer) < (10 * self.batch_size):
        return False, 0.0

    # Sample batch
    states, actions, rewards, next_states, dones =
self.replay_buffer.sample(self.batch_size, device=self.device)

    # Compute Q(s, a) from current model
    q_values = self.model(states)
    q_values_given_action = q_values.gather(1, actions.unsqueeze(1)).squeeze(1)

    # Compute target Q using target network
    with torch.no_grad():
        next_q_values = self.target_model(next_states) # changed from self.model
        max_next_q_values = next_q_values.max(dim=1)[0]
        targets = rewards + self.gamma * max_next_q_values * (~dones)

    # Compute loss and update
    loss = self.loss_fn(q_values_given_action, targets)
    self.optimizer.zero_grad()
    loss.backward()
    self.optimizer.step()

    # Update target model if needed
    self._update_model()

    return True, loss.item()

# ===== YOUR CODE ENDS =====

def _update_model(self):
    self.i_update += 1
    if self.i_update % self.update_freq == 0:
        self.target_model.load_state_dict(self.model.state_dict())

def _save(self, suffix:str = ''):
    torch.save(self.model.state_dict(), os.path.join(self.save_path,
f'model_{suffix}.pt'))
    torch.save(self.target_model.state_dict(), os.path.join(self.save_path,
f'target_model_{suffix}.pt'))

```

```

def load_model(self, suffix:str = ''):
    self.model.load_state_dict(torch.load(os.path.join(self.save_path,
f'model_{suffix}.pt'))))
    self.target_model.load_state_dict(torch.load(os.path.join(self.save_path,
f'target_model_{suffix}.pt'))))

class SoftUpdateDQN(HardUpdateDQN):
    def __init__(self,env,model,model_kwargs:dict = {},
        tau:float = 0.01,*args,**kwargs):
        super().__init__(env,model,model_kwargs,*args,**kwargs)
        self.tau = tau

    def _update_model(self):
        """
        Soft updates the target model
        """
        # ===== YOUR CODE HERE =====
        # TODO
        # =====

        for target_param, model_param in zip(self.target_model.parameters(),
self.model.parameters()):
            target_param.data.copy_(self.tau * model_param.data + (1.0 - self.tau) *
target_param.data)

        # ===== YOUR CODE ENDS =====

```

# Reinforcement Learning Bonus: DDPG

- As before, please do not modify the folder architecture and do not rename some of the files.
- You will need to fill in the model.py and DDPG.py to solve the DoublePendulum environment.
- Because this is a bonus, there will be no test cases.
- This entire part will be worth 5 points of extra credit for project 4, and will be due on the same day as project 4, so June 6th.

To avoid pain with installation and model training, we strongly recommend you to use Colab for this project. DO NOT use Windows for this project.

## Set up

```
In [1]: # mount it if you use Colab
# from google.colab import drive
# drive.mount('/content/drive')
```

```
In [2]: # TODO: change the dir to your folder
# %cd /content/drive/MyDrive/YOUR_FOLDER_NAME
```

```
In [3]: %load_ext autoreload
%autoreload 2
%env MUJOCO_GL=egl
```

env: MUJOCO\_GL=egl

```
In [4]: !pip install numpy torch wandb swig gymnasium[mujoco] matplotlib termcolor
```

Requirement already satisfied: numpy in /home/anwesha/anaconda3/lib/python3.11/site-packages (1.26.4)

Requirement already satisfied: torch in /home/anwesha/anaconda3/lib/python3.11/site-packages (2.6.0+cull18)

Requirement already satisfied: wandb in /home/anwesha/anaconda3/lib/python3.11/site-packages (0.19.11)

Requirement already satisfied: swig in /home/anwesha/anaconda3/lib/python3.11/site-packages (4.3.1)

Requirement already satisfied: matplotlib in /home/anwesha/anaconda3/lib/python3.11/site-packages (3.8.0)

Requirement already satisfied: termcolor in /home/anwesha/anaconda3/lib/python3.11/site-packages (3.1.0)

Requirement already satisfied: gymnasium[mujoco] in /home/anwesha/anaconda3/lib/python3.11/site-packages (1.1.1)

Requirement already satisfied: filelock in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (3.13.1)

Requirement already satisfied: typing-extensions>=4.10.0 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (4.12.2)

Requirement already satisfied: networkx in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (3.1)

Requirement already satisfied: jinja2 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (3.1.3)

Requirement already satisfied: fsspec in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (2023.10.0)

Requirement already satisfied: nvidia-cuda-nvrtc-cu11==11.8.89 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (11.8.89)

Requirement already satisfied: nvidia-cuda-runtime-cu11==11.8.89 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (11.8.89)

Requirement already satisfied: nvidia-cuda-cupti-cu11==11.8.87 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (11.8.87)

Requirement already satisfied: nvidia-cudnn-cu11==9.1.0.70 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (9.1.0.70)

Requirement already satisfied: nvidia-cublas-cu11==11.11.3.6 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (11.11.3.6)

Requirement already satisfied: nvidia-cufft-cu11==10.9.0.58 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (10.9.0.58)

Requirement already satisfied: nvidia-curand-cu11==10.3.0.86 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (10.3.0.86)

Requirement already satisfied: nvidia-cusolver-cu11==11.4.1.48 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (11.4.1.48)

Requirement already satisfied: nvidia-cusparse-cu11==11.7.5.86 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (11.7.5.86)

Requirement already satisfied: nvidia-nccl-cu11==2.21.5 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (2.21.5)

Requirement already satisfied: nvidia-nvtx-cu11==11.8.86 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (11.8.86)

Requirement already satisfied: triton==3.2.0 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (3.2.0)

Requirement already satisfied: sympy==1.13.1 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from torch) (1.13.1)

Requirement already satisfied: mpmath<1.4,>=1.1.0 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from sympy==1.13.1->torch) (1.3.0)

Requirement already satisfied: click!=8.0.0,>=7.1 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from wandb) (8.1.7)

Requirement already satisfied: docker-pycreds>=0.4.0 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from wandb) (0.4.0)



Requirement already satisfied: gitpython!=3.1.29,>=1.0.0 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from wandb) (3.1.37)

Requirement already satisfied: platformdirs in /home/anwesha/anaconda3/lib/python3.11/site-packages (from wandb) (3.10.0)

Requirement already satisfied: protobuf!=4.21.0,!5.28.0,<7,>=3.19.0 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from wandb) (3.20.3)

Requirement already satisfied: psutil>=5.0.0 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from wandb) (5.9.0)

Requirement already satisfied: pydantic<3 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from wandb) (1.10.12)

Requirement already satisfied: pyyaml in /home/anwesha/anaconda3/lib/python3.11/site-packages (from wandb) (6.0.1)

Requirement already satisfied: requests<3,>=2.0.0 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from wandb) (2.31.0)

Requirement already satisfied: sentry-sdk>=2.0.0 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from wandb) (2.28.0)

Requirement already satisfied: setproctitle in /home/anwesha/anaconda3/lib/python3.11/site-packages (from wandb) (1.3.6)

Requirement already satisfied: setuptools in /home/anwesha/anaconda3/lib/python3.11/site-packages (from wandb) (68.2.2)

Requirement already satisfied: cloudpickle>=1.2.0 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from gymnasium[mujoco]) (2.2.1)

Requirement already satisfied: farama-notifications>=0.0.1 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from gymnasium[mujoco]) (0.0.4)

Requirement already satisfied: mujoco>=2.1.5 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from gymnasium[mujoco]) (3.3.2)

Requirement already satisfied: imageio>=2.14.1 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from gymnasium[mujoco]) (2.33.1)

Requirement already satisfied: contourpy>=1.0.1 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from matplotlib) (1.2.0)

Requirement already satisfied: cycycler>=0.10 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from matplotlib) (0.11.0)

Requirement already satisfied: fonttools>=4.22.0 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from matplotlib) (4.25.0)

Requirement already satisfied: kiwisolver>=1.0.1 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from matplotlib) (1.4.4)

Requirement already satisfied: packaging>=20.0 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from matplotlib) (23.1)

Requirement already satisfied: pillow>=6.2.0 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from matplotlib) (10.2.0)

Requirement already satisfied: pyparsing>=2.3.1 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from matplotlib) (3.0.9)

Requirement already satisfied: python-dateutil>=2.7 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from matplotlib) (2.8.2)

Requirement already satisfied: six>=1.4.0 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from docker-pycreds>=0.4.0->wandb) (1.16.0)

Requirement already satisfied: gitdb<5,>=4.0.1 in /home/anwesha/anaconda3/lib/python3.11/site-packages (from gitpython!=3.1.29,>=1.0.0->wandb) (4.0.7)

Requirement already satisfied: absl-py in /home/anwesha/anaconda3/lib/python3.11/site-packages (from mujoco>=2.1.5->gymnasium[mujoco]) (2.3.0)

Requirement already satisfied: etils[epath] in /home/anwesha/anaconda3/lib/python3.11/site-packages (from mujoco>=2.1.5->gymnasium[mujoco]) (1.12.2)

Requirement already satisfied: glfw in /home/anwesha/anaconda3/lib/python3.11/site-packages (from mujoco>=2.1.5->gymnasium[mujoco]) (2.9.0)

Requirement already satisfied: pyopengl in /home/anwesha/anaconda3/lib/python3.11/site-packages (from mujoco>=2.1.5->gymnasium[mujoco]) (3.1.9)

```
Requirement already satisfied: charset-normalizer<4,>=2 in /home/anwisha/anaconda3/lib/python3.11/site-packages (from requests<3,>=2.0.0->wandb) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in /home/anwisha/anaconda3/lib/python3.11/site-packages (from requests<3,>=2.0.0->wandb) (3.4)
Requirement already satisfied: urllib3<3,>=1.21.1 in /home/anwisha/anaconda3/lib/python3.11/site-packages (from requests<3,>=2.0.0->wandb) (2.0.7)
Requirement already satisfied: certifi>=2017.4.17 in /home/anwisha/anaconda3/lib/python3.11/site-packages (from requests<3,>=2.0.0->wandb) (2024.2.2)
Requirement already satisfied: MarkupSafe>=2.0 in /home/anwisha/anaconda3/lib/python3.11/site-packages (from jinja2->torch) (2.1.3)
Requirement already satisfied: smmap<5,>=3.0.1 in /home/anwisha/anaconda3/lib/python3.11/site-packages (from gitdb<5,>=4.0.1->gitpython!=3.1.29,>=1.0.0->wandb) (4.0.0)
Requirement already satisfied: importlib_resources in /home/anwisha/anaconda3/lib/python3.11/site-packages (from etils[epath]->mujoco>=2.1.5->gymnasium[mujoco]) (6.5.2)
Requirement already satisfied: zipp in /home/anwisha/anaconda3/lib/python3.11/site-packages (from etils[epath]->mujoco>=2.1.5->gymnasium[mujoco]) (3.17.0)
```

```
In [5]: from utils import *
```

## Introduction to the Enviroment

We will be training a DDPG agent to solve the DoublePendulum environment. The DoublePendulum environment is a classic control problem where the goal is to balance a double pendulum on a cart.

### Action Space

The agent can apply a force to the cart in the range of -1 to 1. This is a continuous action space.

### Observation Space

The observation space is a 9 dimensional vector. The first 1 is the position of the cart, the next 4 are the cosines and sins of different angles of the double pendulum, and the next 3 are the velocities of the cart and the pendulum, and the final 1 is the constrain forces on the cart. You can find more information about these constraint forces [here](#)

### Reward

The reward can be decomposed into 3 parts. The first part is an alive bonus that pays +10 for every time step the second pendulum is upright. There are 2 penalty terms, one for the tip of the second pendulum moving too much, and another for the cart moving too fast.

You can find more information about the environment [here](#)

First let us visualize the game and understand the environment.

```
In [6]: import gymnasium as gym
import numpy as np
env = gym.make("InvertedDoublePendulum-v5")
env.np_random = np.random.RandomState(42)

eval_env = gym.make("InvertedDoublePendulum-v5", render_mode="rgb_array")
eval_env.np_random = np.random.RandomState(42)
```

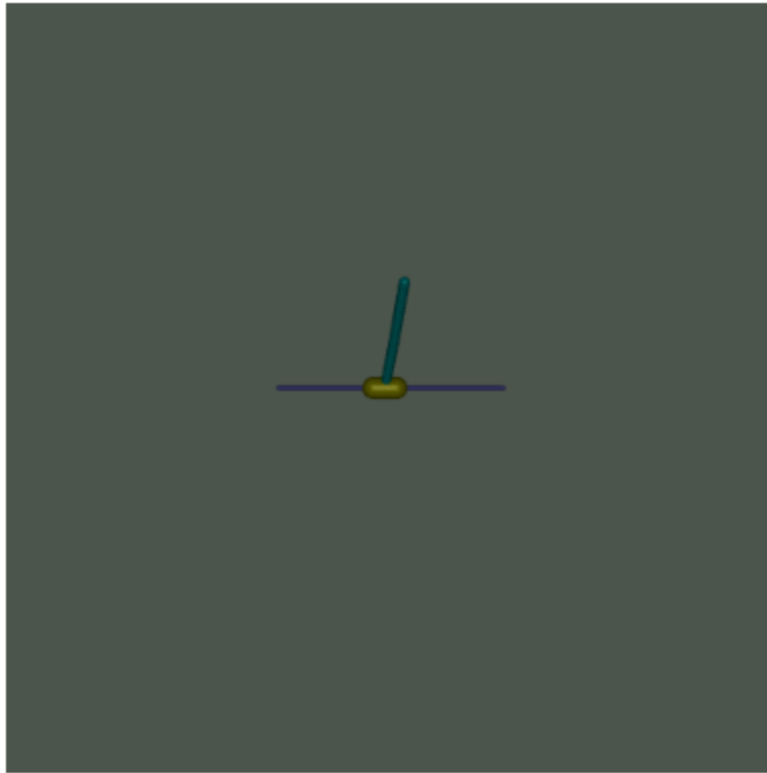
```
In [7]: from IPython.display import HTML

frames = []
s, _ = eval_env.reset()

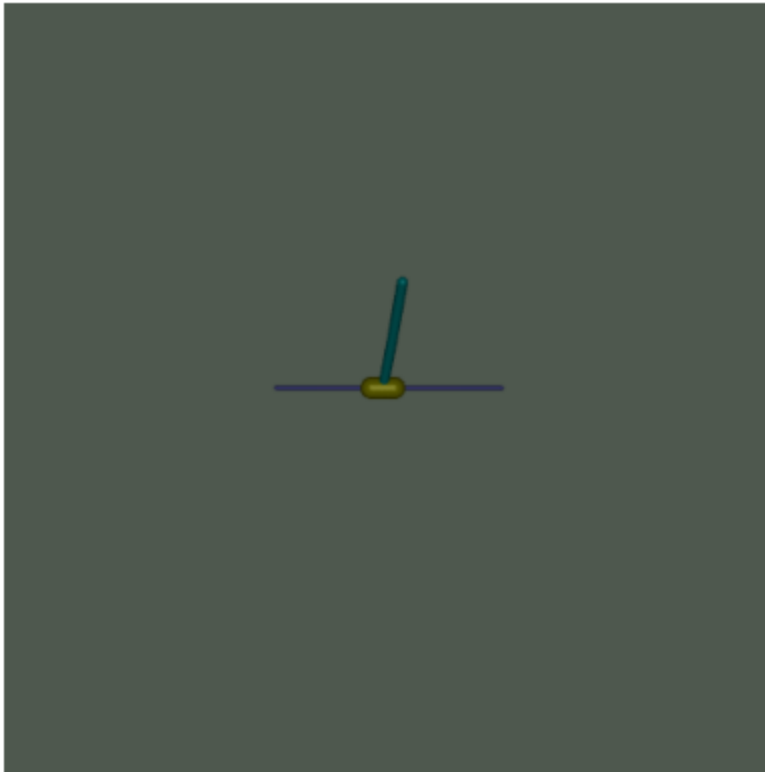
while True:
    a = eval_env.action_space.sample()
    s, r, terminated, truncated, _ = eval_env.step(a)
    frames.append(eval_env.render())
    if terminated or truncated:
        break

anim = animate(frames)
HTML(anim.to_jshtml())
```

Out[7]:



☐ Once ☒ Loop ☐ Reflect



## Model (1 point)

Because the inputs to the model is a 9 dimensional vector, we will use a MLP. Specifically we will follow the architecture in the DDPG paper. For DDPG we have both an Actor and a Critic. The Actor is responsible for selecting the action, and the Critic is responsible for evaluating the action.

### Actor

The Actor is a 3 layer MLP:

- Layer 1: 400 units, ReLU activation, Fan-in weight initialization, ie each weight is initialized with a uniform distribution in the range of  $-1/\sqrt{\text{fan\_in}}$  to  $1/\sqrt{\text{fan\_in}}$
- Layer 2: 300 units, ReLU activation, Fan-in weight initialization, ie each weight is initialized with a uniform distribution in the range of  $-1/\sqrt{\text{fan\_in}}$  to  $1/\sqrt{\text{fan\_in}}$
- Layer 3: 1 unit, tanh activation, intialized with uniform weights in the range of -0.003 to 0.003

### Critic

The Critic is a 3 layer MLP:


- Layer 1: 400 units, ReLU activation, Fan-in weight initialization, ie each weight is initialized with a uniform distribution in the range of  $-1/\sqrt{\text{fan\_in}}$  to  $1/\sqrt{\text{fan\_in}}$
- Layer 2: 300 units, ReLU activation, Fan-in weight initialization, ie each weight is initialized with a uniform distribution in the range of  $-1/\sqrt{\text{fan\_in}}$  to  $1/\sqrt{\text{fan\_in}}$ . Input is the concatenation of the 400 dimension embedding from the state, and the action taken.
- Layer 3: 1 unit, intialized with uniform weights in the range of -0.003 to 0.003

```
In [8]: import model
```

## Exploration (1 point)

Because DDPG is an off policy algorithm, we will use a noise process to encourage exploration. Specifically we will use the Ornstein-Uhlenbeck process. The Ornstein-Uhlenbeck process is a stochastic process that generates temporally correlated noise. The process is defined by the following stochastic differential equation:  $dx_t = \theta(\mu - x_t)dt + \sigma dW_t$  Where  $\theta$  is the rate of mean reversion,  $\mu$  is the long run mean of the process,  $\sigma$  is the volatility of the process, and  $W_t$  is a Wiener process. We can discretize this process to get the following:  $x_{t+1} = x_t + \theta(\mu - x_t)dt + \sigma \sqrt{dt} \mathcal{N}(0,1)$  Where  $\mathcal{N}(0,1)$  is a sample from the standard normal distribution. We will asume that our steps are of unit length, so we can simplify this to:  $x_{t+1} = x_t + \theta(\mu - x_t) + \sigma \mathcal{N}(0,1)$  We will use  $\theta = 0.15$ ,  $\mu = 0$ , and  $\sigma = 0.2$ . We will add this to our action in the following way  $a_t = \min(\max(\mu(s_t) + x_t, -1), 1)$  Where  $a_t$  is the action taken by the agent,  $\mu(s_t)$  is the action selected by the actor, and  $x_t$  is the noise generated by the Ornstein-Uhlenbeck process. Please implement the `OU_Noise` class in `DDPG.py`

## DDPG (3 points total)

We will be implementing the DDPG algorithm. The DDPG algorithm is a model free, off policy algorithm that combines the actor-critic architecture with the insights of DQN. The algorithm is as follows:  DDPG Fill in both of the TODO in the `DDPG` class in `DDPG.py`

```
In [9]: import wandb
        wandb.login()
```

```
wandb: Currently logged in as: anwchatto (anwchatto-ucla) to https://api.wandb.ai. Use `wandb login --relogin` to force relogin
```

Out[9]: True

In [10]: `wandb.init(project="inverted-double-pendulum-ddpg")`

Tracking run with wandb version 0.19.11

Run data is saved locally in

/home/anwesha/239AS\_2/Project\_4\_bonus/wandb/run-20250608\_191022-gwnntt2um

Syncing run **summer-wind-3** to [Weights & Biases \(docs\)](#)

View project at <https://wandb.ai/anwchatto-ucla/inverted-double-pendulum-ddpg>

View run at <https://wandb.ai/anwchatto-ucla/inverted-double-pendulum-ddpg/runs/gwnntt2um>

Out[10]:

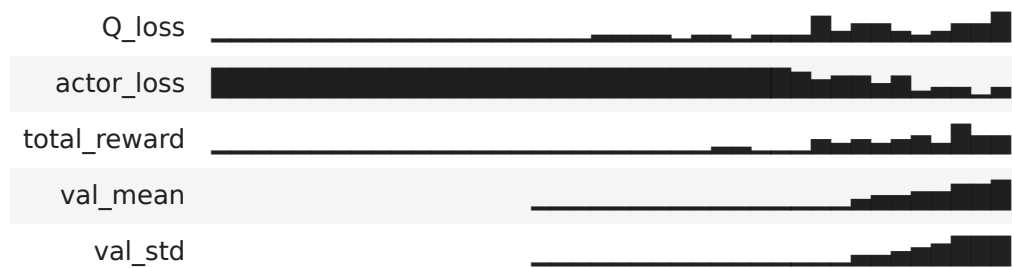
```
In [16]: import DDPG
import utils
t = DDPG.DDPG(env,
               model.Actor,
               model.Critic,
               use_wandb=True,
               save_path = utils.get_save_path("DDPG", "./runs/"))

t.train(10000,
        100,
        100,
        1000,
        100,
        1)
```

saving to ./runs/DDPG/run10

Finishing previous runs because reinit is set to 'default'.

## Run history:



## Run summary:

Q_loss	347.12714
actor_loss	-739.87152
total_reward	90.60519
val_mean	209.79633
val_std	65.86641

View run **mild-snowball-10** at: [https://wandb.ai/anwchatto-ucla/double\\_pendulum\\_ddpg/runs/g1gpnm18](https://wandb.ai/anwchatto-ucla/double_pendulum_ddpg/runs/g1gpnm18)

View project at: [https://wandb.ai/anwchatto-ucla/double\\_pendulum\\_ddpg](https://wandb.ai/anwchatto-ucla/double_pendulum_ddpg)

Synced 5 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at: ./wandb/run-20250608\_191410-g1gpnm18/logs

Tracking run with wandb version 0.19.11

Run data is saved locally in

/home/anwesha/239AS\_2/Project\_4\_bonus/wandb/run-20250608\_191707-rsqkh3bd

Syncing run **stellar-glade-11** to [Weights & Biases](#) (docs)

View project at [https://wandb.ai/anwchatto-ucla/double\\_pendulum\\_ddpg](https://wandb.ai/anwchatto-ucla/double_pendulum_ddpg)

View run at [https://wandb.ai/anwchatto-ucla/double\\_pendulum\\_ddpg/runs/rsqkh3bd](https://wandb.ai/anwchatto-ucla/double_pendulum_ddpg/runs/rsqkh3bd)



Episode 0: Time: 0.0042917728424072266, Total Reward: 53.99174959484617, Q Loss: 0, Actor Loss: 0  
Episode 1: Time: 0.004436969757080078, Total Reward: 81.94873976669977, Q Loss: 0, Actor Loss: 0  
Episode 2: Time: 0.003540515899658203, Total Reward: 63.751895245358156, Q Loss: 0, Actor Loss: 0  
Episode 3: Time: 0.003539562225341797, Total Reward: 63.305498440860156, Q Loss: 0, Actor Loss: 0  
Episode 4: Time: 0.003203153610229492, Total Reward: 53.818119323199504, Q Loss: 0, Actor Loss: 0  
Episode 5: Time: 0.0042400360107421875, Total Reward: 82.47600744317941, Q Loss: 0, Actor Loss: 0  
Episode 6: Time: 0.004232883453369141, Total Reward: 82.45374991675449, Q Loss: 0, Actor Loss: 0  
Episode 7: Time: 0.04819464683532715, Total Reward: 44.70546854014031, Q Loss: 224.5533905029297, Actor Loss: -0.4763839766383171  
Episode 8: Time: 0.07938861846923828, Total Reward: 73.09369525976305, Q Loss: 553.2222023010254, Actor Loss: -13.796590596437454  
Episode 9: Time: 0.08833956718444824, Total Reward: 81.99219586923046, Q Loss: 359.6496696472168, Actor Loss: -63.28244233131409  
Episode 10: Time: 0.058257102966308594, Total Reward: 53.713409546223716, Q Loss: 209.73431777954102, Actor Loss: -49.99344778060913  
Episode 11: Time: 0.041303396224975586, Total Reward: 35.13740657919999, Q Loss: 104.81692695617676, Actor Loss: -29.557590007781982  
Episode 12: Time: 0.04110574722290039, Total Reward: 35.64263521542383, Q Loss: 78.74469089508057, Actor Loss: -32.415717124938965  
Episode 13: Time: 0.0410923957824707, Total Reward: 34.75061090363531, Q Loss: 52.70606708526611, Actor Loss: -39.56831693649292  
Episode 14: Time: 0.041446685791015625, Total Reward: 35.155456435330116, Q Loss: 37.900129318237305, Actor Loss: -42.758734703063965  
Episode 15: Time: 0.04071402549743652, Total Reward: 35.496356826637786, Q Loss: 26.47288465499878, Actor Loss: -41.500732421875  
Episode 16: Time: 0.03268313407897949, Total Reward: 25.900682003725308, Q Loss: 22.888206958770752, Actor Loss: -33.10095453262329  
Episode 17: Time: 0.03267693519592285, Total Reward: 25.71929081418429, Q Loss: 21.325782775878906, Actor Loss: -32.516608238220215  
Episode 18: Time: 0.0408782958984375, Total Reward: 35.250678029240774, Q Loss: 24.975919246673584, Actor Loss: -40.379411697387695  
Episode 19: Time: 0.03279399871826172, Total Reward: 25.350630761521582, Q Loss: 19.141505241394043, Actor Loss: -31.957386016845703  
Episode 20: Time: 0.03340625762939453, Total Reward: 25.448924583649728, Q Loss: 15.334089994430542, Actor Loss: -32.40617370605469  
Episode 21: Time: 0.03276324272155762, Total Reward: 25.787615124853755, Q Loss: 17.08643126487732, Actor Loss: -32.8154730796814  
Episode 22: Time: 0.032860517501831055, Total Reward: 25.39089294927543, Q Loss: 15.858628273010254, Actor Loss: -30.89072561264038  
Episode 23: Time: 0.03266644477844238, Total Reward: 25.109366326650857, Q Loss: 16.580764055252075, Actor Loss: -31.22138786315918  
Episode 24: Time: 0.032712697982788086, Total Reward: 25.594356640368662, Q Loss: 11.923059463500977, Actor Loss: -33.32585144042969  
Episode 25: Time: 0.032790422439575195, Total Reward: 25.702944188685276, Q Loss: 14.246397018432617, Actor Loss: -31.657506942749023  
Episode 26: Time: 0.03270840644836426, Total Reward: 25.34473446734976, Q Loss: 16.504966497421265, Actor Loss: -29.715150356292725  
Episode 27: Time: 0.033341407775878906, Total Reward: 25.904338834667907, Q Loss: 14.35268497467041, Actor Loss: -30.75429058074951

Episode 28: Time: 0.032884836196899414, Total Reward: 25.939675418905342, Q Loss: 13.306472063064575, Actor Loss: -33.580665588378906  
Episode 29: Time: 0.03253293037414551, Total Reward: 25.18552789920535, Q Loss: 14.150026082992554, Actor Loss: -30.50712776184082  
Episode 30: Time: 0.032747745513916016, Total Reward: 25.508589147329886, Q Loss: 11.626346111297607, Actor Loss: -31.35288381576538  
Episode 31: Time: 0.03279304504394531, Total Reward: 25.897621932813006, Q Loss: 13.38609266281128, Actor Loss: -31.158664226531982  
Episode 32: Time: 0.03260350227355957, Total Reward: 25.308408084820567, Q Loss: 10.377935290336609, Actor Loss: -29.988659858703613  
Episode 33: Time: 0.032688140869140625, Total Reward: 25.328896987062848, Q Loss: 11.838375091552734, Actor Loss: -31.288739681243896  
Episode 34: Time: 0.03328132629394531, Total Reward: 25.314323078624028, Q Loss: 12.36155366897583, Actor Loss: -31.79518222808838  
Episode 35: Time: 0.03280973434448242, Total Reward: 25.51748610797153, Q Loss: 10.86405611038208, Actor Loss: -29.715184688568115  
Episode 36: Time: 0.024657011032104492, Total Reward: 16.958858764347234, Q Loss: 8.042535424232483, Actor Loss: -24.38686990737915  
Episode 37: Time: 0.03264474868774414, Total Reward: 25.63228620414129, Q Loss: 11.92373251914978, Actor Loss: -29.83984136581421  
Episode 38: Time: 0.032724618911743164, Total Reward: 25.316106987388295, Q Loss: 11.228137731552124, Actor Loss: -30.250627517700195  
Episode 39: Time: 0.04881715774536133, Total Reward: 44.6929573408805, Q Loss: 17.341837406158447, Actor Loss: -46.16032552719116  
Episode 40: Time: 0.03327631950378418, Total Reward: 25.558643642318348, Q Loss: 15.89038634300232, Actor Loss: -27.93602752685547  
Episode 41: Time: 0.03267383575439453, Total Reward: 25.525542454728544, Q Loss: 10.579881429672241, Actor Loss: -30.45751142501831  
Episode 42: Time: 0.03281712532043457, Total Reward: 25.299886188694632, Q Loss: 11.21914029121399, Actor Loss: -32.04878091812134  
Episode 43: Time: 0.024615764617919922, Total Reward: 16.85011764981188, Q Loss: 11.40928864479065, Actor Loss: -22.204126834869385  
Episode 44: Time: 0.03272700309753418, Total Reward: 25.385684305924247, Q Loss: 15.2864511013031, Actor Loss: -28.460293292999268  
Episode 45: Time: 0.032778263092041016, Total Reward: 26.109238527702768, Q Loss: 13.614869356155396, Actor Loss: -31.07098388671875  
Episode 46: Time: 0.03270077705383301, Total Reward: 25.36362498366104, Q Loss: 11.902298212051392, Actor Loss: -29.83899688720703  
Episode 47: Time: 0.03841423988342285, Total Reward: 25.70462524544081, Q Loss: 10.532615423202515, Actor Loss: -30.443485260009766  
Episode 48: Time: 0.030626535415649414, Total Reward: 16.902854387986213, Q Loss: 12.322145700454712, Actor Loss: -24.479390144348145  
Episode 49: Time: 0.04067254066467285, Total Reward: 25.354009089391816, Q Loss: 10.315439701080322, Actor Loss: -30.91253662109375  
Episode 50: Time: 0.035332679748535156, Total Reward: 25.63494973643474, Q Loss: 10.225485563278198, Actor Loss: -30.236659049987793  
Episode 51: Time: 0.02463555335998535, Total Reward: 16.914136997571497, Q Loss: 10.410043001174927, Actor Loss: -23.487082481384277  
Episode 52: Time: 0.03268098831176758, Total Reward: 25.234997439636487, Q Loss: 11.427885055541992, Actor Loss: -29.311511039733887  
Episode 53: Time: 0.03302264213562012, Total Reward: 25.327725925650522, Q Loss: 12.973969221115112, Actor Loss: -28.372504234313965  
Episode 54: Time: 0.033287763595581055, Total Reward: 25.372072577109726, Q Loss: 10.78084659576416, Actor Loss: -31.078740119934082  
Episode 55: Time: 0.032720088958740234, Total Reward: 25.781514277850185, Q Loss: 8.45077121257782, Actor Loss: -30.549010276794434

Episode 56: Time: 0.03287529945373535, Total Reward: 25.437153779294427, Q Loss: 9.041101574897766, Actor Loss: -31.08281946182251  
Episode 57: Time: 0.03285527229309082, Total Reward: 25.510644830518007, Q Loss: 8.03889000415802, Actor Loss: -30.1578631401062  
Episode 58: Time: 0.032743215560913086, Total Reward: 25.618163763141666, Q Loss: 13.099307298660278, Actor Loss: -28.582111835479736  
Episode 59: Time: 0.0247647762298584, Total Reward: 16.88581395478434, Q Loss: 11.015780210494995, Actor Loss: -19.33567476272583  
Episode 60: Time: 0.02470564842224121, Total Reward: 16.813516386120735, Q Loss: 6.847736716270447, Actor Loss: -20.61454486846924  
Episode 61: Time: 0.033181190490722656, Total Reward: 25.27905799046684, Q Loss: 12.555694341659546, Actor Loss: -29.21393871307373  
Episode 62: Time: 0.03278040885925293, Total Reward: 25.366560167053127, Q Loss: 10.534300565719604, Actor Loss: -26.533121585845947  
Episode 63: Time: 0.03301572799682617, Total Reward: 25.860827233322546, Q Loss: 8.373154997825623, Actor Loss: -27.68454599380493  
Episode 64: Time: 0.032723426818847656, Total Reward: 25.791360932205656, Q Loss: 9.098888158798218, Actor Loss: -29.39012098312378  
Episode 65: Time: 0.03278398513793945, Total Reward: 25.59853198505345, Q Loss: 11.47276496887207, Actor Loss: -29.48789691925049  
Episode 66: Time: 0.03280782699584961, Total Reward: 25.73447186380762, Q Loss: 12.119331121444702, Actor Loss: -27.656489849090576  
Episode 67: Time: 0.03263998031616211, Total Reward: 25.42624148808086, Q Loss: 10.65489661693573, Actor Loss: -30.64516019821167  
Episode 68: Time: 0.03325247764587402, Total Reward: 25.450753626548646, Q Loss: 10.803800821304321, Actor Loss: -30.871558666229248  
Episode 69: Time: 0.03282785415649414, Total Reward: 25.801350634411417, Q Loss: 10.31846022605896, Actor Loss: -27.53689956665039  
Episode 70: Time: 0.032624006271362305, Total Reward: 25.312130921849462, Q Loss: 10.390206098556519, Actor Loss: -29.085676193237305  
Episode 71: Time: 0.03300118446350098, Total Reward: 25.446177586415626, Q Loss: 13.282854795455933, Actor Loss: -29.77746820449829  
Episode 72: Time: 0.0331425666809082, Total Reward: 25.41620578874007, Q Loss: 10.199878454208374, Actor Loss: -28.555509567260742  
Episode 73: Time: 0.032903432846069336, Total Reward: 25.33631377474221, Q Loss: 9.368563652038574, Actor Loss: -30.615842819213867  
Episode 74: Time: 0.024564504623413086, Total Reward: 16.95890739732199, Q Loss: 6.859578371047974, Actor Loss: -21.73555040359497  
Episode 75: Time: 0.033272504806518555, Total Reward: 25.516138187380495, Q Loss: 9.81390929222107, Actor Loss: -28.42378807067871  
Episode 76: Time: 0.02471613883972168, Total Reward: 16.971158001398553, Q Loss: 4.370745480060577, Actor Loss: -23.130724906921387  
Episode 77: Time: 0.032792091369628906, Total Reward: 25.251734964770073, Q Loss: 9.34544825553894, Actor Loss: -28.19672155380249  
Episode 78: Time: 0.03284716606140137, Total Reward: 25.897920991631057, Q Loss: 11.485061526298523, Actor Loss: -27.682552814483643  
Episode 79: Time: 0.03281044960021973, Total Reward: 25.377422204286518, Q Loss: 10.298467993736267, Actor Loss: -30.258054733276367  
Episode 80: Time: 0.032796382904052734, Total Reward: 25.439628987260015, Q Loss: 16.084648609161377, Actor Loss: -28.251736164093018  
Episode 81: Time: 0.04078412055969238, Total Reward: 34.860553602496665, Q Loss: 16.962993264198303, Actor Loss: -37.97410440444946  
Episode 82: Time: 0.03324007987976074, Total Reward: 25.918484458550967, Q Loss: 13.703155279159546, Actor Loss: -27.067914485931396  
Episode 83: Time: 0.03268742561340332, Total Reward: 25.353989956329343, Q Loss: 9.797624349594116, Actor Loss: -31.699239253997803

Episode 84: Time: 0.03287553787231445, Total Reward: 25.548236893790673, Q Loss: 8.686042547225952, Actor Loss: -30.117077827453613  
Episode 85: Time: 0.0326230525970459, Total Reward: 25.256451359205222, Q Loss: 11.74590277671814, Actor Loss: -28.52144145965576  
Episode 86: Time: 0.03253769874572754, Total Reward: 26.31688394577035, Q Loss: 9.9166259765625, Actor Loss: -30.844029426574707  
Episode 87: Time: 0.0326080322265625, Total Reward: 25.92270106182268, Q Loss: 11.998270273208618, Actor Loss: -27.427967071533203  
Episode 88: Time: 0.024594545364379883, Total Reward: 16.9419272798695, Q Loss: 8.145499467849731, Actor Loss: -22.024707317352295  
Episode 89: Time: 0.03333425521850586, Total Reward: 25.148889605226202, Q Loss: 10.312739133834839, Actor Loss: -30.782745838165283  
Episode 90: Time: 0.032876014709472656, Total Reward: 25.30278159983012, Q Loss: 14.716773748397827, Actor Loss: -27.479922771453857  
Episode 91: Time: 0.03290295600891113, Total Reward: 25.137641537871723, Q Loss: 14.33770489692688, Actor Loss: -29.604640007019043  
Episode 92: Time: 0.03264975547790527, Total Reward: 25.975154188150864, Q Loss: 9.375003337860107, Actor Loss: -30.14331293106079  
Episode 93: Time: 0.04076838493347168, Total Reward: 35.0624373818355, Q Loss: 10.497294068336487, Actor Loss: -38.92473840713501  
Episode 94: Time: 0.03248143196105957, Total Reward: 25.801908633472355, Q Loss: 11.511695086956024, Actor Loss: -28.68252658843994  
Episode 95: Time: 0.024642229080200195, Total Reward: 16.87863363353477, Q Loss: 6.097867488861084, Actor Loss: -22.10878038406372  
Episode 96: Time: 0.024915695190429688, Total Reward: 16.909433863550852, Q Loss: 8.125421226024628, Actor Loss: -21.120408535003662  
Episode 97: Time: 0.03265857696533203, Total Reward: 25.362145487544336, Q Loss: 10.418506979942322, Actor Loss: -30.079715251922607  
Episode 98: Time: 0.03263354301452637, Total Reward: 25.338133532899505, Q Loss: 12.244597673416138, Actor Loss: -28.575436115264893  
Episode 99: Time: 0.032634735107421875, Total Reward: 25.34681624037009, Q Loss: 9.687536239624023, Actor Loss: -28.438169956207275  
Validation Mean: 22.111785996081725, Validation Std: 4.075776413991314  
saving model  
Episode 100: Time: 0.02491021156311035, Total Reward: 16.8421295975618, Q Loss: 10.809728384017944, Actor Loss: -21.652907371520996  
Episode 101: Time: 0.03275179862976074, Total Reward: 25.429509340804902, Q Loss: 10.952265501022339, Actor Loss: -27.358891487121582  
Episode 102: Time: 0.02458500862121582, Total Reward: 16.95560678132885, Q Loss: 8.237313032150269, Actor Loss: -21.630104064941406  
Episode 103: Time: 0.024593830108642578, Total Reward: 16.947796943453824, Q Loss: 10.73665475845337, Actor Loss: -24.015990734100342  
Episode 104: Time: 0.03261685371398926, Total Reward: 26.103069385702725, Q Loss: 10.708932518959045, Actor Loss: -28.8646559715271  
Episode 105: Time: 0.03254199028015137, Total Reward: 25.487057674485186, Q Loss: 12.083248615264893, Actor Loss: -33.09665250778198  
Episode 106: Time: 0.024829626083374023, Total Reward: 16.948278143059007, Q Loss: 5.949700832366943, Actor Loss: -23.36729097366333  
Episode 107: Time: 0.024591684341430664, Total Reward: 16.8596755132309, Q Loss: 9.423342227935791, Actor Loss: -21.565552711486816  
Episode 108: Time: 0.0326690673828125, Total Reward: 26.068991914205398, Q Loss: 13.070899486541748, Actor Loss: -28.579542636871338  
Episode 109: Time: 0.04051613807678223, Total Reward: 35.61817670669562, Q Loss: 13.825265645980835, Actor Loss: -36.269747257232666  
Episode 110: Time: 0.03258395195007324, Total Reward: 25.358454210306505, Q Loss: 11.340790748596191, Actor Loss: -29.413241863250732

Episode 111: Time: 0.03262758255004883, Total Reward: 25.801668518552187, Q Loss: 8.085243105888367, Actor Loss: -31.45424747467041  
Episode 112: Time: 0.04089045524597168, Total Reward: 35.34595971261311, Q Loss: 13.100952386856079, Actor Loss: -38.23904228210449  
Episode 113: Time: 0.03261160850524902, Total Reward: 25.76448813221604, Q Loss: 10.502846002578735, Actor Loss: -28.693617343902588  
Episode 114: Time: 0.09792518615722656, Total Reward: 101.09356875089469, Q Loss: 35.572898149490356, Actor Loss: -88.42288446426392  
Episode 115: Time: 0.05684709548950195, Total Reward: 53.56055574052619, Q Loss: 17.57340395450592, Actor Loss: -56.089149951934814  
Episode 116: Time: 0.06516408920288086, Total Reward: 63.41238749409308, Q Loss: 20.467225313186646, Actor Loss: -64.25069427490234  
Episode 117: Time: 0.048575401306152344, Total Reward: 44.84390660828955, Q Loss: 23.201971769332886, Actor Loss: -44.67084264755249  
Episode 118: Time: 0.0727851390838623, Total Reward: 72.73651182532292, Q Loss: 27.89519500732422, Actor Loss: -73.97324991226196  
Episode 119: Time: 0.03257107734680176, Total Reward: 26.10947168827629, Q Loss: 8.897555947303772, Actor Loss: -28.92093849182129  
Episode 120: Time: 0.032750606536865234, Total Reward: 25.928111093980263, Q Loss: 11.972622156143188, Actor Loss: -32.81585359573364  
Episode 121: Time: 0.03291773796081543, Total Reward: 25.916040500296802, Q Loss: 11.213154315948486, Actor Loss: -31.89097023010254  
Episode 122: Time: 0.032668113708496094, Total Reward: 25.845766213598072, Q Loss: 13.015277981758118, Actor Loss: -34.08006191253662  
Episode 123: Time: 0.03247499465942383, Total Reward: 25.591070503123845, Q Loss: 13.357512831687927, Actor Loss: -32.592602252960205  
Episode 124: Time: 0.03253340721130371, Total Reward: 25.529933712804368, Q Loss: 9.116421937942505, Actor Loss: -29.603675842285156  
Episode 125: Time: 0.0487368106842041, Total Reward: 44.48707718849304, Q Loss: 17.429075360298157, Actor Loss: -47.2356915473938  
Episode 126: Time: 0.032594919204711914, Total Reward: 25.565164280048606, Q Loss: 10.628992557525635, Actor Loss: -32.98878192901611  
Episode 127: Time: 0.03309178352355957, Total Reward: 25.41499078147548, Q Loss: 15.489105701446533, Actor Loss: -30.753014087677002  
Episode 128: Time: 0.024488210678100586, Total Reward: 16.882561514519793, Q Loss: 5.830172061920166, Actor Loss: -26.85193157196045  
Episode 129: Time: 0.03264021873474121, Total Reward: 25.315779634503624, Q Loss: 15.379627227783203, Actor Loss: -34.01619625091553  
Episode 130: Time: 0.0326991081237793, Total Reward: 25.525036101537882, Q Loss: 12.740890979766846, Actor Loss: -31.430109977722168  
Episode 131: Time: 0.032788753509521484, Total Reward: 25.55514169768267, Q Loss: 16.1541748046875, Actor Loss: -31.966309070587158  
Episode 132: Time: 0.03277873992919922, Total Reward: 25.65065486950715, Q Loss: 11.399743437767029, Actor Loss: -33.31105899810791  
Episode 133: Time: 0.024451255798339844, Total Reward: 16.915065814552563, Q Loss: 8.331950187683105, Actor Loss: -23.840778827667236  
Episode 134: Time: 0.02507925033569336, Total Reward: 16.857682084896986, Q Loss: 8.524282097816467, Actor Loss: -25.49707794189453  
Episode 135: Time: 0.024563312530517578, Total Reward: 16.929949895525954, Q Loss: 8.766348600387573, Actor Loss: -23.55918598175049  
Episode 136: Time: 0.03254556655883789, Total Reward: 25.85135340126617, Q Loss: 12.29567039012909, Actor Loss: -31.790494441986084  
Episode 137: Time: 0.024481773376464844, Total Reward: 16.981255175402932, Q Loss: 5.483087062835693, Actor Loss: -27.159975051879883  
Episode 138: Time: 0.03259539604187012, Total Reward: 25.300519290653003, Q Loss: 14.184958934783936, Actor Loss: -33.67486619949341

Episode 139: Time: 0.024637460708618164, Total Reward: 16.94095428519784, Q Loss: 8.482357501983643, Actor Loss: -24.78817081451416  
Episode 140: Time: 0.03281235694885254, Total Reward: 25.224852022514703, Q Loss: 11.6158607006073, Actor Loss: -29.691718101501465  
Episode 141: Time: 0.033394813537597656, Total Reward: 25.654954561788124, Q Loss: 17.56438422203064, Actor Loss: -28.649261474609375  
Episode 142: Time: 0.032662391662597656, Total Reward: 25.50093009197293, Q Loss: 11.82371437549591, Actor Loss: -34.72615051269531  
Episode 143: Time: 0.032587289810180664, Total Reward: 26.16513109410461, Q Loss: 10.573068618774414, Actor Loss: -34.358275413513184  
Episode 144: Time: 0.03266429901123047, Total Reward: 26.29273682950493, Q Loss: 12.62411093711853, Actor Loss: -30.134053707122803  
Episode 145: Time: 0.03293919563293457, Total Reward: 25.731522726437216, Q Loss: 13.90472412109375, Actor Loss: -32.26110219955444  
Episode 146: Time: 0.032741546630859375, Total Reward: 26.319529946004614, Q Loss: 14.895515203475952, Actor Loss: -33.96832609176636  
Episode 147: Time: 0.024692773818969727, Total Reward: 16.886372169506267, Q Loss: 7.651872396469116, Actor Loss: -22.49470329284668  
Episode 148: Time: 0.03301048278808594, Total Reward: 25.571213460009762, Q Loss: 15.028135061264038, Actor Loss: -32.91976022720337  
Episode 149: Time: 0.032685279846191406, Total Reward: 25.202202586516755, Q Loss: 8.935662746429443, Actor Loss: -31.736807346343994  
Episode 150: Time: 0.03278231620788574, Total Reward: 25.781740984836038, Q Loss: 8.333151936531067, Actor Loss: -32.80864381790161  
Episode 151: Time: 0.03270578384399414, Total Reward: 25.4762597540317, Q Loss: 7.680313467979431, Actor Loss: -30.94753885269165  
Episode 152: Time: 0.03266334533691406, Total Reward: 25.34212112248788, Q Loss: 10.55789303779602, Actor Loss: -32.96851348876953  
Episode 153: Time: 0.032655954360961914, Total Reward: 25.734676193191508, Q Loss: 12.684300422668457, Actor Loss: -30.47699785232544  
Episode 154: Time: 0.03267645835876465, Total Reward: 25.114418035543252, Q Loss: 14.633152961730957, Actor Loss: -33.74654722213745  
Episode 155: Time: 0.03327584266662598, Total Reward: 25.832025774335058, Q Loss: 13.178738474845886, Actor Loss: -32.73696041107178  
Episode 156: Time: 0.03286337852478027, Total Reward: 25.322349924514214, Q Loss: 13.721002101898193, Actor Loss: -30.651360511779785  
Episode 157: Time: 0.03278517723083496, Total Reward: 25.36740013608707, Q Loss: 11.033111572265625, Actor Loss: -30.443085193634033  
Episode 158: Time: 0.0248260498046875, Total Reward: 16.876515225203157, Q Loss: 9.148367166519165, Actor Loss: -25.563448429107666  
Episode 159: Time: 0.032942771911621094, Total Reward: 25.317123621434344, Q Loss: 13.06287956237793, Actor Loss: -33.172861099243164  
Episode 160: Time: 0.024810791015625, Total Reward: 16.9255948269998, Q Loss: 7.893542289733887, Actor Loss: -22.101423740386963  
Episode 161: Time: 0.033052921295166016, Total Reward: 26.288598863685706, Q Loss: 11.05481743812561, Actor Loss: -31.992527961730957  
Episode 162: Time: 0.025368690490722656, Total Reward: 16.89565762572619, Q Loss: 6.264288902282715, Actor Loss: -25.996094226837158  
Episode 163: Time: 0.033016204833984375, Total Reward: 25.35627008595492, Q Loss: 15.462549686431885, Actor Loss: -30.622862815856934  
Episode 164: Time: 0.03305172920227051, Total Reward: 25.35745355946738, Q Loss: 14.296166896820068, Actor Loss: -31.385538578033447  
Episode 165: Time: 0.03300881385803223, Total Reward: 25.443583043638757, Q Loss: 15.840725421905518, Actor Loss: -30.13150405883789  
Episode 166: Time: 0.03306245803833008, Total Reward: 25.809046538905925, Q Loss: 8.98525881767273, Actor Loss: -34.25743770599365

Episode 167: Time: 0.03335762023925781, Total Reward: 25.294672345877597, Q Loss: 10.816329717636108, Actor Loss: -30.18335199356079  
Episode 168: Time: 0.03321242332458496, Total Reward: 25.544079259799197, Q Loss: 15.82167363166809, Actor Loss: -30.505905628204346  
Episode 169: Time: 0.025478839874267578, Total Reward: 16.919892918945646, Q Loss: 12.298969984054565, Actor Loss: -23.66547393798828  
Episode 170: Time: 0.03339505195617676, Total Reward: 25.29037556003823, Q Loss: 14.152796745300293, Actor Loss: -32.791964530944824  
Episode 171: Time: 0.03344249725341797, Total Reward: 25.990761509362898, Q Loss: 14.006821632385254, Actor Loss: -34.293182373046875  
Episode 172: Time: 0.03350520133972168, Total Reward: 25.709160775979235, Q Loss: 13.528408765792847, Actor Loss: -31.62807846069336  
Episode 173: Time: 0.03339695930480957, Total Reward: 26.2301562632661, Q Loss: 15.599354267120361, Actor Loss: -34.809080600738525  
Episode 174: Time: 0.033387184143066406, Total Reward: 25.16996982433043, Q Loss: 9.987218976020813, Actor Loss: -31.40981912612915  
Episode 175: Time: 0.03375577926635742, Total Reward: 25.210765725656106, Q Loss: 12.312308132648468, Actor Loss: -32.189945220947266  
Episode 176: Time: 0.03385615348815918, Total Reward: 25.20301675372589, Q Loss: 11.376361012458801, Actor Loss: -33.922297668457  
Episode 177: Time: 0.033661603927612305, Total Reward: 25.39136322380268, Q Loss: 8.797867059707642, Actor Loss: -33.053003787994385  
Episode 178: Time: 0.033692121505737305, Total Reward: 25.257315936227005, Q Loss: 11.337494373321533, Actor Loss: -32.597285747528076  
Episode 179: Time: 0.02559494972229004, Total Reward: 16.942999915302785, Q Loss: 8.236079931259155, Actor Loss: -23.70918369293213  
Episode 180: Time: 0.033736228942871094, Total Reward: 25.781175019005666, Q Loss: 10.624098300933838, Actor Loss: -34.198951721191406  
Episode 181: Time: 0.033792734146118164, Total Reward: 25.459463946350485, Q Loss: 10.880847811698914, Actor Loss: -33.827484130859375  
Episode 182: Time: 0.025753021240234375, Total Reward: 16.899730718263562, Q Loss: 7.378723859786987, Actor Loss: -24.171998977661133  
Episode 183: Time: 0.0254971981048584, Total Reward: 16.85255585468938, Q Loss: 7.926346063613892, Actor Loss: -26.30646800994873  
Episode 184: Time: 0.03390669822692871, Total Reward: 25.197010937658472, Q Loss: 14.87874174118042, Actor Loss: -31.844550609588623  
Episode 185: Time: 0.03379011154174805, Total Reward: 25.565635306205117, Q Loss: 8.004812002182007, Actor Loss: -33.7986421585083  
Episode 186: Time: 0.033807992935180664, Total Reward: 25.3243691043968, Q Loss: 11.20590853691101, Actor Loss: -32.87217426300049  
Episode 187: Time: 0.025507688522338867, Total Reward: 16.94442931241273, Q Loss: 6.736380696296692, Actor Loss: -23.601553916931152  
Episode 188: Time: 0.03380918502807617, Total Reward: 25.40063301346055, Q Loss: 11.88152265548706, Actor Loss: -30.826939582824707  
Episode 189: Time: 0.03442788124084473, Total Reward: 25.837597137497095, Q Loss: 12.30687952041626, Actor Loss: -34.72139310836792  
Episode 190: Time: 0.02555108070373535, Total Reward: 16.90904660773778, Q Loss: 11.035295486450195, Actor Loss: -22.518885612487793  
Episode 191: Time: 0.033965349197387695, Total Reward: 25.1394451910215, Q Loss: 13.488473892211914, Actor Loss: -33.731218338012695  
Episode 192: Time: 0.033898115158081055, Total Reward: 25.381068112441334, Q Loss: 12.268640160560608, Actor Loss: -32.14096975326538  
Episode 193: Time: 0.02556777000427246, Total Reward: 16.93642462299573, Q Loss: 6.509015440940857, Actor Loss: -25.695507049560547  
Episode 194: Time: 0.03398776054382324, Total Reward: 25.570186897573716, Q Loss: 10.748014330863953, Actor Loss: -31.55271816253662

Episode 195: Time: 0.03397178649902344, Total Reward: 25.837626055009505, Q Loss: 10.054086923599243, Actor Loss: -32.19544458389282  
Episode 196: Time: 0.034183502197265625, Total Reward: 25.15063730541044, Q Loss: 12.838122844696045, Actor Loss: -32.5009765625  
Episode 197: Time: 0.03413510322570801, Total Reward: 25.2091290691915, Q Loss: 11.06081247329712, Actor Loss: -33.49848175048828  
Episode 198: Time: 0.025722503662109375, Total Reward: 16.8972031508806, Q Loss: 10.672445058822632, Actor Loss: -23.69984769821167  
Episode 199: Time: 0.025685548782348633, Total Reward: 16.92623388619352, Q Loss: 8.781638622283936, Actor Loss: -22.980185508728027  
Validation Mean: 20.738878543969772, Validation Std: 4.163995040635453  
saving model  
Episode 200: Time: 0.03434181213378906, Total Reward: 25.77763823056435, Q Loss: 13.7219979763031, Actor Loss: -32.81165790557861  
Episode 201: Time: 0.03395485877990723, Total Reward: 25.349953294861404, Q Loss: 11.302177429199219, Actor Loss: -34.68457508087158  
Episode 202: Time: 0.033951759338378906, Total Reward: 25.162790496311942, Q Loss: 11.6755131483078, Actor Loss: -31.221991062164307  
Episode 203: Time: 0.03406238555908203, Total Reward: 25.723496649739694, Q Loss: 13.090705871582031, Actor Loss: -32.020543575286865  
Episode 204: Time: 0.03429818153381348, Total Reward: 25.404093996245496, Q Loss: 9.006202697753906, Actor Loss: -33.164119720458984  
Episode 205: Time: 0.02601909637451172, Total Reward: 16.936238002339806, Q Loss: 6.296779036521912, Actor Loss: -25.286771774291992  
Episode 206: Time: 0.034116268157958984, Total Reward: 26.062565423174068, Q Loss: 12.518634915351868, Actor Loss: -32.48173999786377  
Episode 207: Time: 0.03387618064880371, Total Reward: 25.5589126892891, Q Loss: 10.069111824035645, Actor Loss: -34.85008907318115  
Episode 208: Time: 0.03390669822692871, Total Reward: 25.128665507629027, Q Loss: 8.257206320762634, Actor Loss: -32.9886474609375  
Episode 209: Time: 0.025892019271850586, Total Reward: 16.879476723521144, Q Loss: 9.775378227233887, Actor Loss: -24.608924865722656  
Episode 210: Time: 0.025604248046875, Total Reward: 16.86588721956379, Q Loss: 10.71540117263794, Actor Loss: -22.041243076324463  
Episode 211: Time: 0.02567315101623535, Total Reward: 16.831231373546128, Q Loss: 5.49596095085144, Actor Loss: -25.048072338104248  
Episode 212: Time: 0.034551143646240234, Total Reward: 25.31145169457167, Q Loss: 6.860495567321777, Actor Loss: -33.49068784713745  
Episode 213: Time: 0.025532007217407227, Total Reward: 16.92425711811101, Q Loss: 6.7929688692092896, Actor Loss: -25.911452293395996  
Episode 214: Time: 0.025443553924560547, Total Reward: 16.889723438104227, Q Loss: 8.60348653793335, Actor Loss: -25.043895721435547  
Episode 215: Time: 0.03399944305419922, Total Reward: 25.24611601978989, Q Loss: 10.7059485912323, Actor Loss: -31.805903434753418  
Episode 216: Time: 0.025415897369384766, Total Reward: 16.869720970249055, Q Loss: 8.18959665298462, Actor Loss: -23.256904125213623  
Episode 217: Time: 0.033828020095825195, Total Reward: 25.439894988893826, Q Loss: 7.301336944103241, Actor Loss: -32.316468238830566  
Episode 218: Time: 0.025394439697265625, Total Reward: 16.957168920924627, Q Loss: 6.337045431137085, Actor Loss: -22.177011013031006  
Episode 219: Time: 0.03416705131530762, Total Reward: 25.29723665986619, Q Loss: 11.037135124206543, Actor Loss: -36.126404762268066  
Episode 220: Time: 0.033469200134277344, Total Reward: 25.735624016692007, Q Loss: 11.892030239105225, Actor Loss: -34.5396146774292  
Episode 221: Time: 0.033399343490600586, Total Reward: 26.028746285263278, Q Loss: 9.020960807800293, Actor Loss: -32.971593379974365



Episode 222: Time: 0.03336477279663086, Total Reward: 25.408084898493573, Q Loss: 11.523049592971802, Actor Loss: -32.64915752410889  
Episode 223: Time: 0.03334760665893555, Total Reward: 26.24715652960907, Q Loss: 14.429271221160889, Actor Loss: -31.620169639587402  
Episode 224: Time: 0.03329873085021973, Total Reward: 25.325658459318205, Q Loss: 15.521986961364746, Actor Loss: -31.158952713012695  
Episode 225: Time: 0.025138139724731445, Total Reward: 16.840661410627384, Q Loss: 7.748059272766113, Actor Loss: -23.128921508789062  
Episode 226: Time: 0.03366661071777344, Total Reward: 25.48339265109368, Q Loss: 10.006765484809875, Actor Loss: -31.209505558013916  
Episode 227: Time: 0.03333902359008789, Total Reward: 25.26102647056326, Q Loss: 10.720704674720764, Actor Loss: -33.91550159454346  
Episode 228: Time: 0.033274173736572266, Total Reward: 25.441593529477817, Q Loss: 12.772369146347046, Actor Loss: -31.181888580322266  
Episode 229: Time: 0.03332042694091797, Total Reward: 25.12120374166113, Q Loss: 11.753736972808838, Actor Loss: -34.463356494903564  
Episode 230: Time: 0.0250241756439209, Total Reward: 16.796932275222183, Q Loss: 9.384037017822266, Actor Loss: -23.999011039733887  
Episode 231: Time: 0.025028705596923828, Total Reward: 16.87516815642291, Q Loss: 7.302877068519592, Actor Loss: -24.39039182662964  
Episode 232: Time: 0.02512049674987793, Total Reward: 17.006824191463792, Q Loss: 8.068475365638733, Actor Loss: -25.752415657043457  
Episode 233: Time: 0.03366398811340332, Total Reward: 25.683350627131187, Q Loss: 11.469327330589294, Actor Loss: -32.455819606781006  
Episode 234: Time: 0.03335165977478027, Total Reward: 25.748258557849596, Q Loss: 10.416466474533081, Actor Loss: -33.84753608703613  
Episode 235: Time: 0.041617631912231445, Total Reward: 35.17503980862752, Q Loss: 12.625650763511658, Actor Loss: -42.28978776931763  
Episode 236: Time: 0.03331732749938965, Total Reward: 25.54991815040068, Q Loss: 14.140735864639282, Actor Loss: -31.14604949951172  
Episode 237: Time: 0.025141239166259766, Total Reward: 16.805761583011027, Q Loss: 8.088126182556152, Actor Loss: -24.841793060302734  
Episode 238: Time: 0.03332066535949707, Total Reward: 25.47090570809406, Q Loss: 11.472007274627686, Actor Loss: -33.0430326461792  
Episode 239: Time: 0.03378582000732422, Total Reward: 25.941173894248948, Q Loss: 13.635904550552368, Actor Loss: -31.956385135650635  
Episode 240: Time: 0.025269269943237305, Total Reward: 16.81441938077952, Q Loss: 10.19535756111145, Actor Loss: -23.774024963378906  
Episode 241: Time: 0.033286333084106445, Total Reward: 25.357634298318718, Q Loss: 12.87747597694397, Actor Loss: -34.7300820350647  
Episode 242: Time: 0.03336834907531738, Total Reward: 25.19003347572138, Q Loss: 10.183283567428589, Actor Loss: -29.18284034729004  
Episode 243: Time: 0.03338217735290527, Total Reward: 25.30987102614565, Q Loss: 11.120105981826782, Actor Loss: -35.473347187042236  
Episode 244: Time: 0.025121212005615234, Total Reward: 16.922219803859672, Q Loss: 7.706219673156738, Actor Loss: -27.0283784866333  
Episode 245: Time: 0.03342723846435547, Total Reward: 25.515637462621314, Q Loss: 12.239096641540527, Actor Loss: -30.176601886749268  
Episode 246: Time: 0.025818586349487305, Total Reward: 16.927679495229924, Q Loss: 9.52038061618805, Actor Loss: -25.825181007385254  
Episode 247: Time: 0.025143146514892578, Total Reward: 17.00040293716359, Q Loss: 10.996687650680542, Actor Loss: -25.804481029510498  
Episode 248: Time: 0.025217533111572266, Total Reward: 16.914295207517505, Q Loss: 11.62289834022522, Actor Loss: -22.029659748077393  
Episode 249: Time: 0.02522444725036621, Total Reward: 16.903514896795464, Q Loss: 5.710899829864502, Actor Loss: -23.48444700241089

Episode 250: Time: 0.03346824645996094, Total Reward: 25.950591276499516, Q Loss: 11.633093357086182, Actor Loss: -31.84036922454834  
Episode 251: Time: 0.025127410888671875, Total Reward: 16.802643731126498, Q Loss: 8.78767442703247, Actor Loss: -24.86983299255371  
Episode 252: Time: 0.03339815139770508, Total Reward: 25.22849876947493, Q Loss: 8.410309553146362, Actor Loss: -32.82002067565918  
Episode 253: Time: 0.03394794464111328, Total Reward: 25.292243881605224, Q Loss: 9.04937744140625, Actor Loss: -34.9766321182251  
Episode 254: Time: 0.03335404396057129, Total Reward: 25.53551371083653, Q Loss: 7.546446442604065, Actor Loss: -34.822463035583496  
Episode 255: Time: 0.03331732749938965, Total Reward: 25.28509415163145, Q Loss: 9.929698467254639, Actor Loss: -32.58298873901367  
Episode 256: Time: 0.03346109390258789, Total Reward: 25.735462958331755, Q Loss: 7.876432359218597, Actor Loss: -34.73480987548828  
Episode 257: Time: 0.025210142135620117, Total Reward: 16.865116397968325, Q Loss: 11.673696041107178, Actor Loss: -26.15981960296631  
Episode 258: Time: 0.03346705436706543, Total Reward: 26.306084606972153, Q Loss: 14.056214094161987, Actor Loss: -30.761765956878662  
Episode 259: Time: 0.033542633056640625, Total Reward: 26.105599666808832, Q Loss: 9.703465580940247, Actor Loss: -33.184433460235596  
Episode 260: Time: 0.02528095245361328, Total Reward: 16.97260903060189, Q Loss: 5.718976378440857, Actor Loss: -25.040622234344482  
Episode 261: Time: 0.03357267379760742, Total Reward: 25.59628490152083, Q Loss: 8.89807939529419, Actor Loss: -33.90518569946289  
Episode 262: Time: 0.03336620330810547, Total Reward: 25.98213139864172, Q Loss: 8.706557869911194, Actor Loss: -33.75634431838989  
Episode 263: Time: 0.03349733352661133, Total Reward: 25.697896722272432, Q Loss: 6.830079555511475, Actor Loss: -31.008439540863037  
Episode 264: Time: 0.033443450927734375, Total Reward: 25.203649293580167, Q Loss: 10.784807920455933, Actor Loss: -35.144253730773926  
Episode 265: Time: 0.033385276794433594, Total Reward: 25.530895228770966, Q Loss: 10.423044443130493, Actor Loss: -32.70364046096802  
Episode 266: Time: 0.025273799896240234, Total Reward: 16.951245852505906, Q Loss: 8.389707565307617, Actor Loss: -23.547884464263916  
Episode 267: Time: 0.03408479690551758, Total Reward: 25.45683203215535, Q Loss: 8.438405513763428, Actor Loss: -34.15087413787842  
Episode 268: Time: 0.025252103805541992, Total Reward: 16.91707162510353, Q Loss: 6.629086017608643, Actor Loss: -25.917722702026367  
Episode 269: Time: 0.033550262451171875, Total Reward: 25.209237625616293, Q Loss: 8.332013964653015, Actor Loss: -32.05042505264282  
Episode 270: Time: 0.03367733955383301, Total Reward: 25.510644442851632, Q Loss: 10.748862981796265, Actor Loss: -33.31221580505371  
Episode 271: Time: 0.0342555046081543, Total Reward: 25.315635757044603, Q Loss: 8.503784656524658, Actor Loss: -34.34953212738037  
Episode 272: Time: 0.02538275718688965, Total Reward: 16.869286398780392, Q Loss: 7.146832704544067, Actor Loss: -25.345475673675537  
Episode 273: Time: 0.03367018699645996, Total Reward: 25.175217390161578, Q Loss: 12.553963661193848, Actor Loss: -30.497626781463623  
Episode 274: Time: 0.025903701782226562, Total Reward: 16.94973098609637, Q Loss: 5.549347996711731, Actor Loss: -24.859477996826172  
Episode 275: Time: 0.025478601455688477, Total Reward: 16.939441063425242, Q Loss: 7.555103659629822, Actor Loss: -25.51752233505249  
Episode 276: Time: 0.03383588790893555, Total Reward: 25.447816522002128, Q Loss: 7.973233580589294, Actor Loss: -33.500532150268555  
Episode 277: Time: 0.02542257308959961, Total Reward: 16.9116550125678, Q Loss: 5.375425934791565, Actor Loss: -23.977176666259766

Episode 278: Time: 0.02545475959777832, Total Reward: 16.863958454681026, Q Loss: 6.697115898132324, Actor Loss: -26.087376594543457  
Episode 279: Time: 0.03382158279418945, Total Reward: 25.686319726976382, Q Loss: 12.504433155059814, Actor Loss: -31.670289039611816  
Episode 280: Time: 0.03392815589904785, Total Reward: 25.210775127991088, Q Loss: 9.214315295219421, Actor Loss: -33.20628643035889  
Episode 281: Time: 0.034342050552368164, Total Reward: 25.581821578753186, Q Loss: 9.192867279052734, Actor Loss: -33.852901458740234  
Episode 282: Time: 0.03398585319519043, Total Reward: 26.021158432283347, Q Loss: 9.151628613471985, Actor Loss: -32.279786109924316  
Episode 283: Time: 0.034195899963378906, Total Reward: 25.657580761027063, Q Loss: 7.863964200019836, Actor Loss: -34.60449695587158  
Episode 284: Time: 0.025636672973632812, Total Reward: 16.88183755069537, Q Loss: 5.135728716850281, Actor Loss: -24.407104015350342  
Episode 285: Time: 0.03411054611206055, Total Reward: 25.877702668960698, Q Loss: 7.146164536476135, Actor Loss: -33.42536640167236  
Episode 286: Time: 0.03413081169128418, Total Reward: 25.374915624515236, Q Loss: 7.421382546424866, Actor Loss: -34.76303291320801  
Episode 287: Time: 0.02568984031677246, Total Reward: 16.786503263587285, Q Loss: 7.606125593185425, Actor Loss: -24.835057258605957  
Episode 288: Time: 0.034656524658203125, Total Reward: 25.21220434076854, Q Loss: 6.919442117214203, Actor Loss: -34.78920841217041  
Episode 289: Time: 0.03426933288574219, Total Reward: 25.88691197298709, Q Loss: 5.948342382907867, Actor Loss: -30.30084991455078  
Episode 290: Time: 0.0341792106628418, Total Reward: 25.622956485013848, Q Loss: 5.9642093777656555, Actor Loss: -34.20740222930908  
Episode 291: Time: 0.034177541732788086, Total Reward: 25.922765530580065, Q Loss: 9.280967473983765, Actor Loss: -33.71767807006836  
Episode 292: Time: 0.025800466537475586, Total Reward: 16.92867770192671, Q Loss: 5.101485371589661, Actor Loss: -26.175589561462402  
Episode 293: Time: 0.025742769241333008, Total Reward: 16.93861162253016, Q Loss: 5.978069424629211, Actor Loss: -24.06141757965088  
Episode 294: Time: 0.034516334533691406, Total Reward: 25.40942003005351, Q Loss: 10.65802550315857, Actor Loss: -33.81087636947632  
Episode 295: Time: 0.026212215423583984, Total Reward: 16.80570663661506, Q Loss: 7.43899941444397, Actor Loss: -23.690009593963623  
Episode 296: Time: 0.026047945022583008, Total Reward: 16.9391566301073, Q Loss: 9.789221286773682, Actor Loss: -24.127018451690674  
Episode 297: Time: 0.025919198989868164, Total Reward: 16.966200273635362, Q Loss: 8.70032000541687, Actor Loss: -25.684353351593018  
Episode 298: Time: 0.03440141677856445, Total Reward: 25.667613264818883, Q Loss: 9.564220786094666, Actor Loss: -31.416465759277344  
Episode 299: Time: 0.0343780517578125, Total Reward: 25.89582270615137, Q Loss: 10.319473028182983, Actor Loss: -33.41250562667847  
Validation Mean: 21.923250098958462, Validation Std: 4.102571635252033  
saving model  
Episode 300: Time: 0.026014328002929688, Total Reward: 16.97927126669331, Q Loss: 6.867145657539368, Actor Loss: -27.339486122131348  
Episode 301: Time: 0.034446001052856445, Total Reward: 25.39931552623685, Q Loss: 8.472718596458435, Actor Loss: -33.09749698638916  
Episode 302: Time: 0.034354209899902344, Total Reward: 25.254398377697054, Q Loss: 9.906921982765198, Actor Loss: -35.62239742279053  
Episode 303: Time: 0.03444719314575195, Total Reward: 25.3080130967127, Q Loss: 8.008689880371094, Actor Loss: -31.44005250930786  
Episode 304: Time: 0.03441452980041504, Total Reward: 25.387357243534883, Q Loss: 9.91346561908722, Actor Loss: -34.137152671813965

Episode 305: Time: 0.03501319885253906, Total Reward: 25.33378042812062, Q Loss: 6.1854248046875, Actor Loss: -36.74552822113037  
Episode 306: Time: 0.02599787712097168, Total Reward: 16.84566223285971, Q Loss: 9.933932304382324, Actor Loss: -24.04893398284912  
Episode 307: Time: 0.026057958602905273, Total Reward: 16.970753446294548, Q Loss: 6.105945110321045, Actor Loss: -26.855098724365234  
Episode 308: Time: 0.03460431098937988, Total Reward: 25.995509098593438, Q Loss: 10.032144904136658, Actor Loss: -33.224852561950684  
Episode 309: Time: 0.03454899787902832, Total Reward: 25.48308155420868, Q Loss: 8.245286345481873, Actor Loss: -34.12633943557739  
Episode 310: Time: 0.034990787506103516, Total Reward: 25.3603309106438, Q Loss: 7.734575033187866, Actor Loss: -33.97574234008789  
Episode 311: Time: 0.03454017639160156, Total Reward: 25.508214526207603, Q Loss: 9.736752152442932, Actor Loss: -34.93810224533081  
Episode 312: Time: 0.035120487213134766, Total Reward: 25.16937685189423, Q Loss: 9.032403826713562, Actor Loss: -34.0830979347229  
Episode 313: Time: 0.03464913368225098, Total Reward: 25.857987668551985, Q Loss: 7.692964553833008, Actor Loss: -33.507028102874756  
Episode 314: Time: 0.03456377983093262, Total Reward: 25.881772613095855, Q Loss: 7.801697015762329, Actor Loss: -34.159510135650635  
Episode 315: Time: 0.03466463088989258, Total Reward: 25.4635426145748, Q Loss: 9.313118696212769, Actor Loss: -34.436540603637695  
Episode 316: Time: 0.034662723541259766, Total Reward: 25.397226506006426, Q Loss: 10.768691897392273, Actor Loss: -35.01215076446533  
Episode 317: Time: 0.03467297554016113, Total Reward: 25.615824937622193, Q Loss: 12.324172258377075, Actor Loss: -35.89514398574829  
Episode 318: Time: 0.03496265411376953, Total Reward: 25.469158717201235, Q Loss: 12.023034453392029, Actor Loss: -31.905803203582764  
Episode 319: Time: 0.034673452377319336, Total Reward: 25.72413372134249, Q Loss: 8.562352180480957, Actor Loss: -36.985405921936035  
Episode 320: Time: 0.03470420837402344, Total Reward: 25.163677433656616, Q Loss: 10.211557269096375, Actor Loss: -34.17527151107788  
Episode 321: Time: 0.0345766544342041, Total Reward: 25.533142817872648, Q Loss: 14.783007860183716, Actor Loss: -35.05731964111328  
Episode 322: Time: 0.03440999984741211, Total Reward: 25.422472455094052, Q Loss: 8.25807797908783, Actor Loss: -33.46566343307495  
Episode 323: Time: 0.034638166427612305, Total Reward: 25.942765659057933, Q Loss: 6.250003218650818, Actor Loss: -35.343642234802246  
Episode 324: Time: 0.03513741493225098, Total Reward: 25.81062401913063, Q Loss: 9.680203080177307, Actor Loss: -35.20221996307373  
Episode 325: Time: 0.0347139835357666, Total Reward: 25.432514689826807, Q Loss: 6.731522738933563, Actor Loss: -35.82943820953369  
Episode 326: Time: 0.04323840141296387, Total Reward: 35.31604819183013, Q Loss: 8.143921434879303, Actor Loss: -43.19246578216553  
Episode 327: Time: 0.03462386131286621, Total Reward: 26.011311598026584, Q Loss: 6.940910696983337, Actor Loss: -35.79671382904053  
Episode 328: Time: 0.052057743072509766, Total Reward: 44.197280574748326, Q Loss: 11.753242671489716, Actor Loss: -51.913968086242676  
Episode 329: Time: 0.034667253494262695, Total Reward: 25.91096218054443, Q Loss: 5.780442833900452, Actor Loss: -37.99969959259033  
Episode 330: Time: 0.07756495475769043, Total Reward: 72.5616724634263, Q Loss: 19.29875934123993, Actor Loss: -79.45434236526489  
Episode 331: Time: 0.05127668380737305, Total Reward: 44.44461561261023, Q Loss: 15.883175611495972, Actor Loss: -50.31663942337036  
Episode 332: Time: 0.059566497802734375, Total Reward: 53.910809164730544, Q Loss: 18.8722984790802, Actor Loss: -63.41877222061157

Episode 333: Time: 0.06788158416748047, Total Reward: 63.390631758386164, Q Loss: 20.474043488502502, Actor Loss: -74.58643627166748  
Episode 334: Time: 0.05966019630432129, Total Reward: 54.406290582498286, Q Loss: 21.45083773136139, Actor Loss: -67.70715427398682  
Episode 335: Time: 0.04246068000793457, Total Reward: 35.58914298777534, Q Loss: 12.426395177841187, Actor Loss: -45.92664337158203  
Episode 336: Time: 0.0340886116027832, Total Reward: 26.031335946210973, Q Loss: 8.522900342941284, Actor Loss: -36.49535369873047  
Episode 337: Time: 0.033997535705566406, Total Reward: 26.19731777610017, Q Loss: 8.578558921813965, Actor Loss: -36.270358085632324  
Episode 338: Time: 0.034056663513183594, Total Reward: 26.277294287786237, Q Loss: 8.807268857955933, Actor Loss: -36.51308059692383  
Episode 339: Time: 0.034021615982055664, Total Reward: 25.58608458322343, Q Loss: 10.110463857650757, Actor Loss: -37.83266639709473  
Episode 340: Time: 0.04277181625366211, Total Reward: 35.09285066836525, Q Loss: 7.880388498306274, Actor Loss: -43.21928310394287  
Episode 341: Time: 0.034287452697753906, Total Reward: 25.447739531643272, Q Loss: 8.906920075416565, Actor Loss: -38.42466449737549  
Episode 342: Time: 0.03415966033935547, Total Reward: 25.97679071179544, Q Loss: 11.123488187789917, Actor Loss: -38.37512016296387  
Episode 343: Time: 0.03493690490722656, Total Reward: 25.20179961709367, Q Loss: 11.172067165374756, Actor Loss: -37.971909523010254  
Episode 344: Time: 0.035223960876464844, Total Reward: 25.55857010042968, Q Loss: 9.326961159706116, Actor Loss: -36.1661262512207  
Episode 345: Time: 0.04308891296386719, Total Reward: 34.79502388895538, Q Loss: 14.10961663722992, Actor Loss: -50.96288013458252  
Episode 346: Time: 0.03469109535217285, Total Reward: 26.285434847369842, Q Loss: 14.891061902046204, Actor Loss: -33.340245723724365  
Episode 347: Time: 0.03419184684753418, Total Reward: 25.274003330633242, Q Loss: 11.072897911071777, Actor Loss: -37.219764709472656  
Episode 348: Time: 0.03414154052734375, Total Reward: 26.007539731029453, Q Loss: 11.669294118881226, Actor Loss: -39.96425437927246  
Episode 349: Time: 0.034157514572143555, Total Reward: 25.465403035099484, Q Loss: 10.069263577461243, Actor Loss: -34.81008815765381  
Episode 350: Time: 0.03412437438964844, Total Reward: 25.24148375184895, Q Loss: 8.589634895324707, Actor Loss: -37.90834712982178  
Episode 351: Time: 0.03406977653503418, Total Reward: 25.88218989012712, Q Loss: 8.760207772254944, Actor Loss: -39.416687965393066  
Episode 352: Time: 0.034567832946777344, Total Reward: 25.312136729156567, Q Loss: 7.035628318786621, Actor Loss: -37.04564094543457  
Episode 353: Time: 0.03413224220275879, Total Reward: 25.328173364379712, Q Loss: 8.679944276809692, Actor Loss: -39.972856521606445  
Episode 354: Time: 0.034114837646484375, Total Reward: 25.722758556905017, Q Loss: 9.171682596206665, Actor Loss: -36.44236612319946  
Episode 355: Time: 0.03419780731201172, Total Reward: 25.576762156459296, Q Loss: 9.800812125205994, Actor Loss: -38.39419937133789  
Episode 356: Time: 0.03412818908691406, Total Reward: 25.885384438457237, Q Loss: 8.15643835067749, Actor Loss: -35.10152578353882  
Episode 357: Time: 0.025647640228271484, Total Reward: 16.92321209200771, Q Loss: 7.182684421539307, Actor Loss: -28.542163848876953  
Episode 358: Time: 0.03404736518859863, Total Reward: 25.670312826461327, Q Loss: 6.818429470062256, Actor Loss: -41.25902080535889  
Episode 359: Time: 0.034532785415649414, Total Reward: 25.7073123329818, Q Loss: 7.177506327629089, Actor Loss: -37.6089391708374  
Episode 360: Time: 0.025844097137451172, Total Reward: 16.948196345514564, Q Loss: 3.175921618938446, Actor Loss: -31.177959442138672

Episode 361: Time: 0.03402590751647949, Total Reward: 25.345231323695707, Q Loss: 10.520193576812744, Actor Loss: -38.808627128601074  
Episode 362: Time: 0.0341792106628418, Total Reward: 25.78911639483484, Q Loss: 7.607376277446747, Actor Loss: -39.3904504776001  
Episode 363: Time: 0.03405022621154785, Total Reward: 25.519908640479102, Q Loss: 6.810134530067444, Actor Loss: -38.066731452941895  
Episode 364: Time: 0.02584385871887207, Total Reward: 16.8771373440672, Q Loss: 4.120824098587036, Actor Loss: -30.423107147216797  
Episode 365: Time: 0.03401541709899902, Total Reward: 26.25766423702393, Q Loss: 7.920699119567871, Actor Loss: -40.61940288543701  
Episode 366: Time: 0.04304766654968262, Total Reward: 35.38566179428082, Q Loss: 9.653994500637054, Actor Loss: -50.81106662750244  
Episode 367: Time: 0.034296512603759766, Total Reward: 25.455647528956842, Q Loss: 9.106979191303253, Actor Loss: -38.73110771179199  
Episode 368: Time: 0.034050941467285156, Total Reward: 25.374947302586506, Q Loss: 9.991965293884277, Actor Loss: -39.64387226104736  
Episode 369: Time: 0.03432297706604004, Total Reward: 25.672204971726934, Q Loss: 6.634990692138672, Actor Loss: -36.69822978973389  
Episode 370: Time: 0.03641653060913086, Total Reward: 25.157377799661933, Q Loss: 9.18449205160141, Actor Loss: -35.48086738586426  
Episode 371: Time: 0.036359548568725586, Total Reward: 26.009674252226127, Q Loss: 10.949984192848206, Actor Loss: -37.46765327453613  
Episode 372: Time: 0.035651445388793945, Total Reward: 25.767627618210803, Q Loss: 7.635599255561829, Actor Loss: -40.53074836730957  
Episode 373: Time: 0.02607870101928711, Total Reward: 16.980239621217493, Q Loss: 7.021543025970459, Actor Loss: -29.69046688079834  
Episode 374: Time: 0.03442716598510742, Total Reward: 25.840084542161833, Q Loss: 8.684034824371338, Actor Loss: -36.66985034942627  
Episode 375: Time: 0.034380435943603516, Total Reward: 25.094264792185637, Q Loss: 8.515049695968628, Actor Loss: -37.22743511199951  
Episode 376: Time: 0.025888681411743164, Total Reward: 16.95703775283345, Q Loss: 6.684069037437439, Actor Loss: -29.377609252929688  
Episode 377: Time: 0.03428530693054199, Total Reward: 25.213149887521812, Q Loss: 5.605511426925659, Actor Loss: -38.45786190032959  
Episode 378: Time: 0.03430986404418945, Total Reward: 25.77939942440135, Q Loss: 9.92136287689209, Actor Loss: -41.07244300842285  
Episode 379: Time: 0.035064697265625, Total Reward: 25.261824053314694, Q Loss: 6.497018098831177, Actor Loss: -38.36024856567383  
Episode 380: Time: 0.0259096622467041, Total Reward: 16.964946810963397, Q Loss: 6.8752952218055725, Actor Loss: -31.09905433654785  
Episode 381: Time: 0.025727272033691406, Total Reward: 16.82601249557585, Q Loss: 8.177251100540161, Actor Loss: -31.965468406677246  
Episode 382: Time: 0.034158945083618164, Total Reward: 25.71907315326221, Q Loss: 7.210347890853882, Actor Loss: -37.35664176940918  
Episode 383: Time: 0.025930404663085938, Total Reward: 16.91640607273269, Q Loss: 4.190881013870239, Actor Loss: -31.23372745513916  
Episode 384: Time: 0.034342050552368164, Total Reward: 25.904833023404578, Q Loss: 10.572244048118591, Actor Loss: -37.23748207092285  
Episode 385: Time: 0.034264326095581055, Total Reward: 25.212290386502502, Q Loss: 10.153839468955994, Actor Loss: -36.80543041229248  
Episode 386: Time: 0.02624225616455078, Total Reward: 16.92699781894138, Q Loss: 6.037623882293701, Actor Loss: -29.592554092407227  
Episode 387: Time: 0.025789976119995117, Total Reward: 16.970584881907005, Q Loss: 8.337399959564209, Actor Loss: -27.37357807159424  
Episode 388: Time: 0.034072160720825195, Total Reward: 25.66680511005402, Q Loss: 6.070255875587463, Actor Loss: -41.677024841308594

Episode 389: Time: 0.034035682678222656, Total Reward: 25.654299706201712, Q Loss: 9.768625259399414, Actor Loss: -34.54223823547363  
Episode 390: Time: 0.03404521942138672, Total Reward: 25.33728027315871, Q Loss: 7.659233331680298, Actor Loss: -38.3399600982666  
Episode 391: Time: 0.034024715423583984, Total Reward: 25.327346715078818, Q Loss: 7.618537187576294, Actor Loss: -41.945011138916016  
Episode 392: Time: 0.034134864807128906, Total Reward: 25.337663407508543, Q Loss: 5.3951791524887085, Actor Loss: -41.333542823791504  
Episode 393: Time: 0.034728050231933594, Total Reward: 26.07245255099296, Q Loss: 8.13014966249466, Actor Loss: -38.374019622802734  
Episode 394: Time: 0.034183502197265625, Total Reward: 25.81745322282869, Q Loss: 6.996015250682831, Actor Loss: -42.668612480163574  
Episode 395: Time: 0.025656700134277344, Total Reward: 16.958922575184427, Q Loss: 4.422672748565674, Actor Loss: -31.124740600585938  
Episode 396: Time: 0.03411078453063965, Total Reward: 25.448857397583694, Q Loss: 6.945764660835266, Actor Loss: -39.08226013183594  
Episode 397: Time: 0.034088134765625, Total Reward: 25.703085016507522, Q Loss: 8.666216850280762, Actor Loss: -38.22711658477783  
Episode 398: Time: 0.025652170181274414, Total Reward: 16.98396801410161, Q Loss: 6.795129776000977, Actor Loss: -28.3899564743042  
Episode 399: Time: 0.034223318099975586, Total Reward: 25.760391644559913, Q Loss: 6.725059390068054, Actor Loss: -36.51314926147461  
Validation Mean: 21.407440124558537, Validation Std: 4.169615399367413  
saving model  
Episode 400: Time: 0.02583909034729004, Total Reward: 16.894354608813803, Q Loss: 6.487549066543579, Actor Loss: -27.717381477355957  
Episode 401: Time: 0.033883094787597656, Total Reward: 25.449147158564017, Q Loss: 8.557750821113586, Actor Loss: -38.8792667388916  
Episode 402: Time: 0.0341334342956543, Total Reward: 25.304287859495833, Q Loss: 8.405110716819763, Actor Loss: -40.889153480529785  
Episode 403: Time: 0.025756359100341797, Total Reward: 16.96472855653539, Q Loss: 6.055651903152466, Actor Loss: -28.644402503967285  
Episode 404: Time: 0.034272193908691406, Total Reward: 25.966610624096436, Q Loss: 8.297262132167816, Actor Loss: -38.26065635681152  
Episode 405: Time: 0.03410816192626953, Total Reward: 25.8776556722352, Q Loss: 11.600142478942871, Actor Loss: -40.84059524536133  
Episode 406: Time: 0.035208702087402344, Total Reward: 25.571232883206612, Q Loss: 6.330810308456421, Actor Loss: -39.706671714782715  
Episode 407: Time: 0.03415226936340332, Total Reward: 26.364827792760458, Q Loss: 9.040574193000793, Actor Loss: -40.23962211608887  
Episode 408: Time: 0.03423571586608887, Total Reward: 25.182183927243514, Q Loss: 9.131306648254395, Actor Loss: -38.51457118988037  
Episode 409: Time: 0.034064531326293945, Total Reward: 25.73631629130773, Q Loss: 9.302630305290222, Actor Loss: -39.50519275665283  
Episode 410: Time: 0.025609254837036133, Total Reward: 16.915782156094473, Q Loss: 8.579297184944153, Actor Loss: -25.60906219482422  
Episode 411: Time: 0.03412652015686035, Total Reward: 25.92055501052847, Q Loss: 9.301005959510803, Actor Loss: -36.79275989532471  
Episode 412: Time: 0.03405141830444336, Total Reward: 25.882599971515393, Q Loss: 12.037982821464539, Actor Loss: -40.177741050720215  
Episode 413: Time: 0.034397125244140625, Total Reward: 25.26066648893404, Q Loss: 10.698344230651855, Actor Loss: -37.13565540313721  
Episode 414: Time: 0.03404831886291504, Total Reward: 26.01487504138411, Q Loss: 7.009599685668945, Actor Loss: -42.198102951049805  
Episode 415: Time: 0.03416776657104492, Total Reward: 25.251925476926193, Q Loss: 8.02557361125946, Actor Loss: -36.97015571594238

Episode 416: Time: 0.0257418155670166, Total Reward: 16.91397620181396, Q Loss: 6.110088109970093, Actor Loss: -28.350131034851074  
Episode 417: Time: 0.033975839614868164, Total Reward: 25.439149341279403, Q Loss: 8.368476748466492, Actor Loss: -35.23045825958252  
Episode 418: Time: 0.033963680267333984, Total Reward: 25.245309376771196, Q Loss: 10.63771677017212, Actor Loss: -41.6012020111084  
Episode 419: Time: 0.034102439880371094, Total Reward: 26.026942668136005, Q Loss: 10.60970675945282, Actor Loss: -40.79884910583496  
Episode 420: Time: 0.03462386131286621, Total Reward: 25.486332182759288, Q Loss: 9.759625434875488, Actor Loss: -40.56952953338623  
Episode 421: Time: 0.03422045707702637, Total Reward: 25.89601754549427, Q Loss: 12.319785594940186, Actor Loss: -39.605366706848145  
Episode 422: Time: 0.03410601615905762, Total Reward: 25.968508814686647, Q Loss: 7.209006905555725, Actor Loss: -38.182044982910156  
Episode 423: Time: 0.034055471420288086, Total Reward: 25.124489279538967, Q Loss: 9.859238266944885, Actor Loss: -38.76700782775879  
Episode 424: Time: 0.03394293785095215, Total Reward: 25.277002523019384, Q Loss: 12.022121667861938, Actor Loss: -39.89203071594238  
Episode 425: Time: 0.025746583938598633, Total Reward: 16.91013331644961, Q Loss: 6.494349956512451, Actor Loss: -27.289273262023926  
Episode 426: Time: 0.03403759002685547, Total Reward: 25.496664422836538, Q Loss: 7.699324071407318, Actor Loss: -43.855899810791016  
Episode 427: Time: 0.03474593162536621, Total Reward: 25.506611758442574, Q Loss: 7.170832872390747, Actor Loss: -38.68317985534668  
Episode 428: Time: 0.0260617733001709, Total Reward: 16.834350203740968, Q Loss: 7.282209515571594, Actor Loss: -26.86931037902832  
Episode 429: Time: 0.025667190551757812, Total Reward: 16.938232300675946, Q Loss: 6.699949502944946, Actor Loss: -29.589640617370605  
Episode 430: Time: 0.03397345542907715, Total Reward: 25.298023405688244, Q Loss: 8.867610216140747, Actor Loss: -38.68312358856201  
Episode 431: Time: 0.03404426574707031, Total Reward: 25.409560892139904, Q Loss: 9.721184730529785, Actor Loss: -40.37528133392334  
Episode 432: Time: 0.025682449340820312, Total Reward: 16.781265611036837, Q Loss: 5.712781310081482, Actor Loss: -29.19241428375244  
Episode 433: Time: 0.03397250175476074, Total Reward: 25.528586990659484, Q Loss: 10.55880880355835, Actor Loss: -34.40529727935791  
Episode 434: Time: 0.034330129623413086, Total Reward: 25.372672608166177, Q Loss: 6.660829782485962, Actor Loss: -39.377763748168945  
Episode 435: Time: 0.0342411994934082, Total Reward: 26.027892574157327, Q Loss: 11.037158966064453, Actor Loss: -41.63821887969971  
Episode 436: Time: 0.03414297103881836, Total Reward: 26.127755084963315, Q Loss: 8.684404015541077, Actor Loss: -39.65903663635254  
Episode 437: Time: 0.03404402732849121, Total Reward: 25.35720561143646, Q Loss: 9.241812229156494, Actor Loss: -39.4191837310791  
Episode 438: Time: 0.025887727737426758, Total Reward: 16.863620304723735, Q Loss: 5.079651355743408, Actor Loss: -29.664758682250977  
Episode 439: Time: 0.034218549728393555, Total Reward: 25.426271552601868, Q Loss: 7.083411335945129, Actor Loss: -38.02590465545654  
Episode 440: Time: 0.03419351577758789, Total Reward: 25.31108677408968, Q Loss: 6.976312875747681, Actor Loss: -41.24054145812988  
Episode 441: Time: 0.026193857192993164, Total Reward: 16.829118312936018, Q Loss: 6.695930361747742, Actor Loss: -28.598048210144043  
Episode 442: Time: 0.03442692756652832, Total Reward: 25.26286713760536, Q Loss: 7.037878751754761, Actor Loss: -40.4545841217041  
Episode 443: Time: 0.03419089317321777, Total Reward: 25.202227578320972, Q Loss: 7.341792702674866, Actor Loss: -41.10062026977539



Episode 444: Time: 0.03418850898742676, Total Reward: 25.59196292183235, Q Loss: 8.90824806690216, Actor Loss: -43.087416648864746  
Episode 445: Time: 0.03414511680603027, Total Reward: 25.342742723722242, Q Loss: 9.262656211853027, Actor Loss: -39.22347450256348  
Episode 446: Time: 0.02568197250366211, Total Reward: 16.887070778672474, Q Loss: 6.27463960647583, Actor Loss: -31.670412063598633  
Episode 447: Time: 0.03427886962890625, Total Reward: 26.05317844912899, Q Loss: 9.835563063621521, Actor Loss: -43.919843673706055  
Episode 448: Time: 0.026157140731811523, Total Reward: 16.923499369014774, Q Loss: 6.550999879837036, Actor Loss: -28.772982597351074  
Episode 449: Time: 0.03418731689453125, Total Reward: 25.447749099495994, Q Loss: 10.428085803985596, Actor Loss: -39.410118103027344  
Episode 450: Time: 0.03428149223327637, Total Reward: 25.88198634038124, Q Loss: 9.114922642707825, Actor Loss: -42.52570152282715  
Episode 451: Time: 0.03429722785949707, Total Reward: 25.218449549182942, Q Loss: 8.03973126411438, Actor Loss: -39.3508825302124  
Episode 452: Time: 0.025887727737426758, Total Reward: 16.88873640148975, Q Loss: 5.506997585296631, Actor Loss: -31.54660987854004  
Episode 453: Time: 0.025765657424926758, Total Reward: 16.953200930936845, Q Loss: 6.914635181427002, Actor Loss: -31.065261840820312  
Episode 454: Time: 0.03436422348022461, Total Reward: 25.61332340084826, Q Loss: 9.267029762268066, Actor Loss: -39.596543312072754  
Episode 455: Time: 0.03470039367675781, Total Reward: 25.372838897901897, Q Loss: 9.549888849258423, Actor Loss: -40.6640043258667  
Episode 456: Time: 0.03425908088684082, Total Reward: 25.46055037414767, Q Loss: 7.781808376312256, Actor Loss: -41.08168888092041  
Episode 457: Time: 0.03428316116333008, Total Reward: 25.354620737921202, Q Loss: 7.989349603652954, Actor Loss: -43.6175479888916  
Episode 458: Time: 0.025769472122192383, Total Reward: 16.906771404877478, Q Loss: 6.711646556854248, Actor Loss: -30.639445304870605  
Episode 459: Time: 0.02567601203918457, Total Reward: 16.960140213832528, Q Loss: 3.9941829442977905, Actor Loss: -28.71678352355957  
Episode 460: Time: 0.03432965278625488, Total Reward: 25.185121660894232, Q Loss: 8.952349424362183, Actor Loss: -41.5742130279541  
Episode 461: Time: 0.03422403335571289, Total Reward: 25.98652738984689, Q Loss: 10.729239702224731, Actor Loss: -38.39354944229126  
Episode 462: Time: 0.026259183883666992, Total Reward: 16.992837453264265, Q Loss: 9.463829517364502, Actor Loss: -28.809537887573242  
Episode 463: Time: 0.03422951698303223, Total Reward: 25.436738521035775, Q Loss: 6.725954055786133, Actor Loss: -45.798580169677734  
Episode 464: Time: 0.03416919708251953, Total Reward: 25.312471894990612, Q Loss: 11.519675135612488, Actor Loss: -36.989654541015625  
Episode 465: Time: 0.03417253494262695, Total Reward: 25.882863766996664, Q Loss: 8.524625897407532, Actor Loss: -40.48280715942383  
Episode 466: Time: 0.0258023738861084, Total Reward: 16.966789211680528, Q Loss: 6.50848126411438, Actor Loss: -31.965996742248535  
Episode 467: Time: 0.034357547760009766, Total Reward: 25.87629688895082, Q Loss: 7.109376549720764, Actor Loss: -41.136850357055664  
Episode 468: Time: 0.02579188346862793, Total Reward: 16.840860280847338, Q Loss: 5.949895858764648, Actor Loss: -31.3494873046875  
Episode 469: Time: 0.034677982330322266, Total Reward: 25.921627730457313, Q Loss: 8.569975137710571, Actor Loss: -40.11297798156738  
Episode 470: Time: 0.02572464942932129, Total Reward: 16.922598558290947, Q Loss: 6.568244457244873, Actor Loss: -30.625882148742676  
Episode 471: Time: 0.025955677032470703, Total Reward: 16.80344393109814, Q Loss: 6.94573301076889, Actor Loss: -31.687203407287598

Episode 472: Time: 0.034430742263793945, Total Reward: 25.526160922252686, Q Loss: 8.973917484283447, Actor Loss: -46.222639083862305  
Episode 473: Time: 0.025777578353881836, Total Reward: 16.912443293664285, Q Loss: 3.886745870113373, Actor Loss: -32.99653911590576  
Episode 474: Time: 0.03436684608459473, Total Reward: 25.955308786638167, Q Loss: 9.706301927566528, Actor Loss: -40.03344249725342  
Episode 475: Time: 0.03449654579162598, Total Reward: 25.576481306624345, Q Loss: 6.795933961868286, Actor Loss: -40.56998157501221  
Episode 476: Time: 0.0263516902923584, Total Reward: 16.876150211108175, Q Loss: 6.089974641799927, Actor Loss: -31.020992279052734  
Episode 477: Time: 0.025945425033569336, Total Reward: 16.883110079303368, Q Loss: 6.004157543182373, Actor Loss: -30.545631408691406  
Episode 478: Time: 0.03429102897644043, Total Reward: 26.226549093465536, Q Loss: 7.721912622451782, Actor Loss: -42.61764717102051  
Episode 479: Time: 0.025934457778930664, Total Reward: 16.881483663076256, Q Loss: 5.918442010879517, Actor Loss: -31.768333435058594  
Episode 480: Time: 0.025922298431396484, Total Reward: 16.930918983990193, Q Loss: 6.835724115371704, Actor Loss: -28.641050338745117  
Episode 481: Time: 0.034404754638671875, Total Reward: 25.651832176719676, Q Loss: 8.540326714515686, Actor Loss: -41.871070861816406  
Episode 482: Time: 0.025906801223754883, Total Reward: 16.938616802784647, Q Loss: 7.353519439697266, Actor Loss: -30.53922939300537  
Episode 483: Time: 0.034885406494140625, Total Reward: 25.924460937980452, Q Loss: 6.672338962554932, Actor Loss: -44.36341381072998  
Episode 484: Time: 0.035008907318115234, Total Reward: 25.31087089206229, Q Loss: 10.82345175743103, Actor Loss: -39.97053337097168  
Episode 485: Time: 0.03460049629211426, Total Reward: 25.702594418285027, Q Loss: 6.581080496311188, Actor Loss: -40.85870170593262  
Episode 486: Time: 0.03457188606262207, Total Reward: 25.312489571607728, Q Loss: 8.862428903579712, Actor Loss: -40.814735412597656  
Episode 487: Time: 0.03460979461669922, Total Reward: 25.321601108533006, Q Loss: 9.630103349685669, Actor Loss: -42.69848442077637  
Episode 488: Time: 0.034697532653808594, Total Reward: 25.82661309730694, Q Loss: 9.991594433784485, Actor Loss: -41.460564613342285  
Episode 489: Time: 0.02667093276977539, Total Reward: 16.886678240169736, Q Loss: 5.591100335121155, Actor Loss: -30.680200576782227  
Episode 490: Time: 0.03476834297180176, Total Reward: 25.83514233322026, Q Loss: 7.0660600066185, Actor Loss: -44.10983753204346  
Episode 491: Time: 0.034690141677856445, Total Reward: 25.50181512185072, Q Loss: 11.24465787410736, Actor Loss: -41.88689613342285  
Episode 492: Time: 0.034780025482177734, Total Reward: 25.572408252135254, Q Loss: 7.5235337018966675, Actor Loss: -39.89654541015625  
Episode 493: Time: 0.026024341583251953, Total Reward: 16.933461636739764, Q Loss: 6.563156604766846, Actor Loss: -30.485034942626953  
Episode 494: Time: 0.03461647033691406, Total Reward: 25.27128382005468, Q Loss: 9.49560832977295, Actor Loss: -40.9802770614624  
Episode 495: Time: 0.03514504432678223, Total Reward: 25.34652416806575, Q Loss: 8.936148047447205, Actor Loss: -43.794410705566406  
Episode 496: Time: 0.026025772094726562, Total Reward: 16.952157834428814, Q Loss: 9.207205533981323, Actor Loss: -30.798049926757812  
Episode 497: Time: 0.03464102745056152, Total Reward: 25.35775353384156, Q Loss: 8.194300055503845, Actor Loss: -37.94757080078125  
Episode 498: Time: 0.034752607345581055, Total Reward: 25.795713691784563, Q Loss: 10.891366958618164, Actor Loss: -43.878533363342285  
Episode 499: Time: 0.034768104553222656, Total Reward: 25.624957079600083, Q Loss: 7.311329007148743, Actor Loss: -39.55037498474121

Validation Mean: 21.069211333165555, Validation Std: 4.176934801936718

saving model

Episode 500: Time: 0.03501534461975098, Total Reward: 25.74959835926567, Q Loss: 9.267725944519043, Actor Loss: -39.65199661254883

Episode 501: Time: 0.02618408203125, Total Reward: 16.94404115093196, Q Loss: 4.658997595310211, Actor Loss: -31.330745697021484

Episode 502: Time: 0.034986019134521484, Total Reward: 25.29283567885057, Q Loss: 7.781566619873047, Actor Loss: -38.78301525115967

Episode 503: Time: 0.035175323486328125, Total Reward: 25.175392654647194, Q Loss: 6.887319564819336, Actor Loss: -41.510069847106934

Episode 504: Time: 0.03477644920349121, Total Reward: 25.793519290782935, Q Loss: 8.261745572090149, Actor Loss: -38.88632774353027

Episode 505: Time: 0.03565168380737305, Total Reward: 25.297229343061968, Q Loss: 7.742496967315674, Actor Loss: -41.612135887145996

Episode 506: Time: 0.02644658088684082, Total Reward: 16.978353553928947, Q Loss: 4.868670403957367, Actor Loss: -32.78163146972656

Episode 507: Time: 0.034978389739990234, Total Reward: 25.235681303012235, Q Loss: 10.916274070739746, Actor Loss: -40.16631889343262

Episode 508: Time: 0.03492164611816406, Total Reward: 25.238620542301852, Q Loss: 8.66465425491333, Actor Loss: -41.433549880981445

Episode 509: Time: 0.035047292709350586, Total Reward: 25.78474203048614, Q Loss: 5.9919353723526, Actor Loss: -42.00783729553223

Episode 510: Time: 0.035106658935546875, Total Reward: 25.195737671801222, Q Loss: 8.134372472763062, Actor Loss: -44.58209419250488

Episode 511: Time: 0.04405331611633301, Total Reward: 35.09858078560645, Q Loss: 8.485462188720703, Actor Loss: -52.39578437805176

Episode 512: Time: 0.03499150276184082, Total Reward: 25.338452676087954, Q Loss: 7.269052743911743, Actor Loss: -40.51494789123535

Episode 513: Time: 0.02638530731201172, Total Reward: 16.85861286212699, Q Loss: 7.154229402542114, Actor Loss: -32.773972511291504

Episode 514: Time: 0.035102128982543945, Total Reward: 25.20748442856521, Q Loss: 7.26760196685791, Actor Loss: -44.18904495239258

Episode 515: Time: 0.03492331504821777, Total Reward: 25.13455842154883, Q Loss: 7.551034450531006, Actor Loss: -45.21622180938721

Episode 516: Time: 0.026360511779785156, Total Reward: 16.91578305959402, Q Loss: 7.118406534194946, Actor Loss: -29.711573600769043

Episode 517: Time: 0.034998178482055664, Total Reward: 25.59016160621164, Q Loss: 8.887021899223328, Actor Loss: -43.65469264984131

Episode 518: Time: 0.02652454376220703, Total Reward: 17.017031586085164, Q Loss: 7.994766712188721, Actor Loss: -34.75771141052246

Episode 519: Time: 0.026386022567749023, Total Reward: 16.95569011631226, Q Loss: 7.317377924919128, Actor Loss: -29.99903106689453

Episode 520: Time: 0.03501248359680176, Total Reward: 26.165052396311946, Q Loss: 7.250292658805847, Actor Loss: -40.68100547790527

Episode 521: Time: 0.02645254135131836, Total Reward: 16.930500974015327, Q Loss: 4.638119578361511, Actor Loss: -30.197935104370117

Episode 522: Time: 0.03510117530822754, Total Reward: 25.590318913023644, Q Loss: 7.537378549575806, Actor Loss: -43.111693382263184

Episode 523: Time: 0.02638554573059082, Total Reward: 16.947007588015495, Q Loss: 6.136107087135315, Actor Loss: -29.44015121459961

Episode 524: Time: 0.026408672332763672, Total Reward: 16.889352176258093, Q Loss: 6.118910789489746, Actor Loss: -33.474345207214355

Episode 525: Time: 0.026523351669311523, Total Reward: 16.875442174347757, Q Loss: 6.053471088409424, Actor Loss: -36.507596015930176

Episode 526: Time: 0.03519725799560547, Total Reward: 25.664740515715465, Q Loss: 10.119650840759277, Actor Loss: -37.80529022216797

Episode 527: Time: 0.03503298759460449, Total Reward: 25.606046697513754, Q Loss: 9.072903394699097, Actor Loss: -40.51127910614014  
Episode 528: Time: 0.034966468811035156, Total Reward: 25.31321956332764, Q Loss: 8.809552073478699, Actor Loss: -44.55332279205322  
Episode 529: Time: 0.0351262092590332, Total Reward: 25.36775952927642, Q Loss: 8.94643348455429, Actor Loss: -38.887542724609375  
Episode 530: Time: 0.03499722480773926, Total Reward: 25.273980319924625, Q Loss: 7.480915546417236, Actor Loss: -42.36451435089111  
Episode 531: Time: 0.03528118133544922, Total Reward: 25.396178996139206, Q Loss: 5.552490592002869, Actor Loss: -40.6335334777832  
Episode 532: Time: 0.02637457847595215, Total Reward: 16.821494131825435, Q Loss: 7.565202832221985, Actor Loss: -30.278518676757812  
Episode 533: Time: 0.026414155960083008, Total Reward: 16.919914100013123, Q Loss: 5.875399589538574, Actor Loss: -32.499892234802246  
Episode 534: Time: 0.026350975036621094, Total Reward: 16.79107420948644, Q Loss: 6.381165027618408, Actor Loss: -29.780298233032227  
Episode 535: Time: 0.034838199615478516, Total Reward: 25.40705793380774, Q Loss: 8.807758092880249, Actor Loss: -44.025696754455566  
Episode 536: Time: 0.026691198348999023, Total Reward: 16.947373339018526, Q Loss: 6.693948984146118, Actor Loss: -34.18787097930908  
Episode 537: Time: 0.034934043884277344, Total Reward: 25.914086923354798, Q Loss: 5.804976403713226, Actor Loss: -40.76238250732422  
Episode 538: Time: 0.0352475643157959, Total Reward: 25.548586871729277, Q Loss: 8.251217365264893, Actor Loss: -41.76871299743652  
Episode 539: Time: 0.034931182861328125, Total Reward: 25.710227288551284, Q Loss: 7.220776319503784, Actor Loss: -38.748443603515625  
Episode 540: Time: 0.026308298110961914, Total Reward: 16.940593873243298, Q Loss: 7.7340476512908936, Actor Loss: -29.61444854736328  
Episode 541: Time: 0.03496050834655762, Total Reward: 25.414021238951623, Q Loss: 8.060961842536926, Actor Loss: -39.792070388793945  
Episode 542: Time: 0.026339054107666016, Total Reward: 16.9354338503572, Q Loss: 7.715837478637695, Actor Loss: -33.11460876464844  
Episode 543: Time: 0.03498077392578125, Total Reward: 25.63550033757646, Q Loss: 11.1662837266922, Actor Loss: -43.062424659729004  
Episode 544: Time: 0.026201486587524414, Total Reward: 16.96725408431633, Q Loss: 6.924945592880249, Actor Loss: -33.398799896240234  
Episode 545: Time: 0.035271644592285156, Total Reward: 25.536693547007626, Q Loss: 12.54262375831604, Actor Loss: -39.561527252197266  
Episode 546: Time: 0.03496217727661133, Total Reward: 25.7169551964158, Q Loss: 11.854631900787354, Actor Loss: -41.7657527923584  
Episode 547: Time: 0.034806013107299805, Total Reward: 25.325293374822405, Q Loss: 12.89950156211853, Actor Loss: -42.99488925933838  
Episode 548: Time: 0.034924983978271484, Total Reward: 25.521640624143032, Q Loss: 9.373335838317871, Actor Loss: -38.030540466308594  
Episode 549: Time: 0.026146888732910156, Total Reward: 16.960040407539076, Q Loss: 11.994691610336304, Actor Loss: -30.883983612060547  
Episode 550: Time: 0.026056289672851562, Total Reward: 16.929550308792503, Q Loss: 7.860295653343201, Actor Loss: -29.85389804840088  
Episode 551: Time: 0.026186466217041016, Total Reward: 16.822026617198333, Q Loss: 7.718515992164612, Actor Loss: -34.56163311004639  
Episode 552: Time: 0.03497600555419922, Total Reward: 25.38322632598471, Q Loss: 8.685990452766418, Actor Loss: -44.46009349822998  
Episode 553: Time: 0.026052474975585938, Total Reward: 16.932994458514564, Q Loss: 8.511016845703125, Actor Loss: -31.5526762008667  
Episode 554: Time: 0.0345911979675293, Total Reward: 25.622261310340157, Q Loss: 9.63344693183899, Actor Loss: -43.89906406402588

Episode 555: Time: 0.026017189025878906, Total Reward: 16.898292338341427, Q Loss: 7.113225340843201, Actor Loss: -29.36915683746338  
Episode 556: Time: 0.03468894958496094, Total Reward: 25.524038064872403, Q Loss: 9.427290201187134, Actor Loss: -42.86996555328369  
Episode 557: Time: 0.034575700759887695, Total Reward: 25.977293802317416, Q Loss: 6.719281435012817, Actor Loss: -44.10562801361084  
Episode 558: Time: 0.02598404884338379, Total Reward: 16.873599422471557, Q Loss: 5.17400598526001, Actor Loss: -29.075847625732422  
Episode 559: Time: 0.03510594367980957, Total Reward: 25.224285661319648, Q Loss: 9.310725450515747, Actor Loss: -39.04372024536133  
Episode 560: Time: 0.034532785415649414, Total Reward: 25.85053630779737, Q Loss: 10.602324962615967, Actor Loss: -45.894174575805664  
Episode 561: Time: 0.034735679626464844, Total Reward: 25.350840305090617, Q Loss: 11.695056796073914, Actor Loss: -40.84300470352173  
Episode 562: Time: 0.034581661224365234, Total Reward: 25.232992841988644, Q Loss: 11.109652280807495, Actor Loss: -45.23918342590332  
Episode 563: Time: 0.026073455810546875, Total Reward: 16.79197919737087, Q Loss: 8.7709299325943, Actor Loss: -32.91588115692139  
Episode 564: Time: 0.034703731536865234, Total Reward: 25.775010658482596, Q Loss: 12.631844878196716, Actor Loss: -42.536550521850586  
Episode 565: Time: 0.02606058120727539, Total Reward: 16.9358835882005, Q Loss: 8.63819408416748, Actor Loss: -31.360309600830078  
Episode 566: Time: 0.0295412540435791, Total Reward: 16.857822397817774, Q Loss: 9.527956247329712, Actor Loss: -30.60944938659668  
Episode 567: Time: 0.03480172157287598, Total Reward: 25.162885684035892, Q Loss: 10.358294129371643, Actor Loss: -42.169426918029785  
Episode 568: Time: 0.034882307052612305, Total Reward: 25.488369637197298, Q Loss: 9.207938194274902, Actor Loss: -40.64962673187256  
Episode 569: Time: 0.03521370887756348, Total Reward: 25.934929322486834, Q Loss: 10.34316337108612, Actor Loss: -43.76282024383545  
Episode 570: Time: 0.03469729423522949, Total Reward: 25.557158426906252, Q Loss: 7.5347431898117065, Actor Loss: -38.55254650115967  
Episode 571: Time: 0.026110172271728516, Total Reward: 16.797875987170414, Q Loss: 8.788986444473267, Actor Loss: -32.84955406188965  
Episode 572: Time: 0.03520083427429199, Total Reward: 25.426675794038132, Q Loss: 11.708491086959839, Actor Loss: -39.46345806121826  
Episode 573: Time: 0.03480243682861328, Total Reward: 25.436973459946632, Q Loss: 8.756163358688354, Actor Loss: -42.73851776123047  
Episode 574: Time: 0.026161909103393555, Total Reward: 16.86662890501794, Q Loss: 8.975400447845459, Actor Loss: -32.47520923614502  
Episode 575: Time: 0.02626943588256836, Total Reward: 16.93643948416275, Q Loss: 7.392434239387512, Actor Loss: -31.381633758544922  
Episode 576: Time: 0.03492259979248047, Total Reward: 25.365560768058184, Q Loss: 10.995973706245422, Actor Loss: -40.306575775146484  
Episode 577: Time: 0.026200056076049805, Total Reward: 16.965988701004974, Q Loss: 7.480092287063599, Actor Loss: -28.230844497680664  
Episode 578: Time: 0.034638404846191406, Total Reward: 25.469473166361908, Q Loss: 9.8560791015625, Actor Loss: -40.724300384521484  
Episode 579: Time: 0.035207271575927734, Total Reward: 25.24396707779842, Q Loss: 10.950362801551819, Actor Loss: -41.39779186248779  
Episode 580: Time: 0.03477954864501953, Total Reward: 25.308426023068563, Q Loss: 10.85979413986206, Actor Loss: -42.924461364746094  
Episode 581: Time: 0.034807443618774414, Total Reward: 25.68335707620439, Q Loss: 13.582237243652344, Actor Loss: -40.720391273498535  
Episode 582: Time: 0.02624344825744629, Total Reward: 16.8072984704155, Q Loss: 9.588955521583557, Actor Loss: -33.02106285095215

Episode 583: Time: 0.03461456298828125, Total Reward: 25.423515304057325, Q Loss: 9.14755403995514, Actor Loss: -44.211989402770996  
Episode 584: Time: 0.02609562873840332, Total Reward: 16.802943674461574, Q Loss: 7.294552803039551, Actor Loss: -29.946885108947754  
Episode 585: Time: 0.02611684799194336, Total Reward: 16.81381312806288, Q Loss: 7.4067277908325195, Actor Loss: -29.857792854309082  
Episode 586: Time: 0.043807029724121094, Total Reward: 35.43649977847056, Q Loss: 10.281672596931458, Actor Loss: -54.65605068206787  
Episode 587: Time: 0.03480219841003418, Total Reward: 25.674595966828758, Q Loss: 9.610707879066467, Actor Loss: -41.5584602355957  
Episode 588: Time: 0.03479433059692383, Total Reward: 25.855300812931887, Q Loss: 9.958056211471558, Actor Loss: -45.860673904418945  
Episode 589: Time: 0.0261075496673584, Total Reward: 16.869972795092735, Q Loss: 6.968586564064026, Actor Loss: -31.560019493103027  
Episode 590: Time: 0.03508281707763672, Total Reward: 25.768420638658572, Q Loss: 10.083441138267517, Actor Loss: -40.288909912109375  
Episode 591: Time: 0.034774065017700195, Total Reward: 25.429258961390314, Q Loss: 8.783252000808716, Actor Loss: -41.49369525909424  
Episode 592: Time: 0.0352327823638916, Total Reward: 25.636445785543355, Q Loss: 8.733696103096008, Actor Loss: -43.67661762237549  
Episode 593: Time: 0.03478646278381348, Total Reward: 25.436658396991593, Q Loss: 9.33955717086792, Actor Loss: -43.071441650390625  
Episode 594: Time: 0.0347440242767334, Total Reward: 25.22718667674293, Q Loss: 9.738728523254395, Actor Loss: -41.881460189819336  
Episode 595: Time: 0.034806013107299805, Total Reward: 25.365398271171188, Q Loss: 8.860058307647705, Actor Loss: -41.98006343841553  
Episode 596: Time: 0.03474545478820801, Total Reward: 25.595944322772887, Q Loss: 10.865380883216858, Actor Loss: -42.5964994430542  
Episode 597: Time: 0.0347137451171875, Total Reward: 25.640428588081132, Q Loss: 10.210813522338867, Actor Loss: -43.62640953063965  
Episode 598: Time: 0.035146474838256836, Total Reward: 25.244548715111563, Q Loss: 8.66462254524231, Actor Loss: -42.60223579406738  
Episode 599: Time: 0.026164531707763672, Total Reward: 16.965606243362902, Q Loss: 6.837512493133545, Actor Loss: -33.55824947357178  
Validation Mean: 20.658598339355976, Validation Std: 4.158577658010111  
saving model  
Episode 600: Time: 0.026515960693359375, Total Reward: 16.791947217896077, Q Loss: 8.286371231079102, Actor Loss: -30.305274963378906  
Episode 601: Time: 0.035310983657836914, Total Reward: 25.583694350113515, Q Loss: 10.30643630027771, Actor Loss: -42.89120388031006  
Episode 602: Time: 0.02642536163330078, Total Reward: 16.876249514803696, Q Loss: 9.364221096038818, Actor Loss: -30.038545608520508  
Episode 603: Time: 0.03486895561218262, Total Reward: 25.25369932389448, Q Loss: 8.525047183036804, Actor Loss: -48.037766456604004  
Episode 604: Time: 0.034859657287597656, Total Reward: 26.03958859697953, Q Loss: 7.32559859752655, Actor Loss: -43.389893531799316  
Episode 605: Time: 0.026322603225708008, Total Reward: 16.750826470818154, Q Loss: 7.69805908203125, Actor Loss: -35.24927997589111  
Episode 606: Time: 0.0347905158996582, Total Reward: 25.290180724090163, Q Loss: 11.232687950134277, Actor Loss: -40.556517601013184  
Episode 607: Time: 0.0261995792388916, Total Reward: 16.921208898792827, Q Loss: 6.9929773807525635, Actor Loss: -32.551334381103516  
Episode 608: Time: 0.03523087501525879, Total Reward: 25.887121408410344, Q Loss: 9.380947351455688, Actor Loss: -42.7329740524292  
Episode 609: Time: 0.03485584259033203, Total Reward: 25.241867281578934, Q Loss: 9.121448993682861, Actor Loss: -43.68555736541748

Episode 610: Time: 0.02621746063232422, Total Reward: 16.79060559794488, Q Loss: 6.538816809654236, Actor Loss: -35.14302444458008  
Episode 611: Time: 0.03474783897399902, Total Reward: 25.19145862739511, Q Loss: 15.0036141872406, Actor Loss: -39.03570556640625  
Episode 612: Time: 0.034796953201293945, Total Reward: 25.47324048299489, Q Loss: 12.553651571273804, Actor Loss: -49.079630851745605  
Episode 613: Time: 0.03472638130187988, Total Reward: 25.795176299941094, Q Loss: 9.465989589691162, Actor Loss: -39.101158142089844  
Episode 614: Time: 0.035277605056762695, Total Reward: 25.7474544161651, Q Loss: 13.411212086677551, Actor Loss: -42.70866012573242  
Episode 615: Time: 0.03479504585266113, Total Reward: 25.498457053497205, Q Loss: 13.457430720329285, Actor Loss: -42.73205757141113  
Episode 616: Time: 0.026218175888061523, Total Reward: 16.969854128606766, Q Loss: 8.254794001579285, Actor Loss: -30.511171340942383  
Episode 617: Time: 0.026292800903320312, Total Reward: 16.83355866509756, Q Loss: 9.19370412826538, Actor Loss: -35.46730327606201  
Episode 618: Time: 0.0261533260345459, Total Reward: 17.00663356287238, Q Loss: 7.738829851150513, Actor Loss: -32.44733142852783  
Episode 619: Time: 0.03467679023742676, Total Reward: 25.824826689605594, Q Loss: 9.367477893829346, Actor Loss: -43.876654624938965  
Episode 620: Time: 0.026302337646484375, Total Reward: 16.921417732765896, Q Loss: 7.9438769817352295, Actor Loss: -32.22343635559082  
Episode 621: Time: 0.026508092880249023, Total Reward: 16.94604693181016, Q Loss: 8.050320863723755, Actor Loss: -30.69906234741211  
Episode 622: Time: 0.026205062866210938, Total Reward: 16.954102910085123, Q Loss: 9.700588941574097, Actor Loss: -34.770750999450684  
Episode 623: Time: 0.03484487533569336, Total Reward: 25.714725588366782, Q Loss: 12.419540643692017, Actor Loss: -43.208316802978516  
Episode 624: Time: 0.026272058486938477, Total Reward: 16.939619015058277, Q Loss: 7.579894185066223, Actor Loss: -30.050384521484375  
Episode 625: Time: 0.026326656341552734, Total Reward: 16.76862705096622, Q Loss: 9.226437330245972, Actor Loss: -33.0547981262207  
Episode 626: Time: 0.026511669158935547, Total Reward: 16.865949029448476, Q Loss: 7.40109395980835, Actor Loss: -35.93937110900879  
Episode 627: Time: 0.03507590293884277, Total Reward: 25.839916846956807, Q Loss: 11.393422603607178, Actor Loss: -37.971524238586426  
Episode 628: Time: 0.035208940505981445, Total Reward: 25.625085803782945, Q Loss: 10.771045684814453, Actor Loss: -43.00554370880127  
Episode 629: Time: 0.0349726676940918, Total Reward: 25.287036267183744, Q Loss: 12.639913558959961, Actor Loss: -43.09882640838623  
Episode 630: Time: 0.026323318481445312, Total Reward: 16.901430491895013, Q Loss: 9.118812084197998, Actor Loss: -30.3582820892334  
Episode 631: Time: 0.03488659858703613, Total Reward: 25.720724699064284, Q Loss: 8.578832626342773, Actor Loss: -44.248924255371094  
Episode 632: Time: 0.03486824035644531, Total Reward: 25.181154613418524, Q Loss: 11.170034646987915, Actor Loss: -42.84605598449707  
Episode 633: Time: 0.034948110580444336, Total Reward: 25.72625622937811, Q Loss: 10.137845039367676, Actor Loss: -42.54706859588623  
Episode 634: Time: 0.04385256767272949, Total Reward: 34.85988922249578, Q Loss: 13.060950517654419, Actor Loss: -51.48159980773926  
Episode 635: Time: 0.02617812156677246, Total Reward: 16.985827974061575, Q Loss: 7.939153432846069, Actor Loss: -32.669203758239746  
Episode 636: Time: 0.026749134063720703, Total Reward: 16.934772380653968, Q Loss: 8.585614204406738, Actor Loss: -32.336320877075195  
Episode 637: Time: 0.034789085388183594, Total Reward: 25.547722878561483, Q Loss: 11.86833643913269, Actor Loss: -42.111955642700195

Episode 638: Time: 0.026177406311035156, Total Reward: 16.910486240013174, Q Loss: 7.540849924087524, Actor Loss: -29.66853141784668  
Episode 639: Time: 0.03491806983947754, Total Reward: 25.72011314943792, Q Loss: 10.195520162582397, Actor Loss: -41.202399253845215  
Episode 640: Time: 0.035154104232788086, Total Reward: 25.212484093343278, Q Loss: 9.604215145111084, Actor Loss: -44.239498138427734  
Episode 641: Time: 0.035097360610961914, Total Reward: 25.34356373677863, Q Loss: 9.075511932373047, Actor Loss: -43.567580223083496  
Episode 642: Time: 0.03489542007446289, Total Reward: 25.431940881626105, Q Loss: 10.777795791625977, Actor Loss: -49.93852519989014  
Episode 643: Time: 0.026392459869384766, Total Reward: 16.86323694315829, Q Loss: 7.115846872329712, Actor Loss: -30.653239250183105  
Episode 644: Time: 0.03473782539367676, Total Reward: 25.290475986005788, Q Loss: 10.37030577659607, Actor Loss: -45.54902935028076  
Episode 645: Time: 0.02625560760498047, Total Reward: 16.882891214365024, Q Loss: 6.172340750694275, Actor Loss: -31.338212966918945  
Episode 646: Time: 0.034870147705078125, Total Reward: 25.62907373906155, Q Loss: 10.55960988998413, Actor Loss: -44.58439254760742  
Episode 647: Time: 0.026268482208251953, Total Reward: 16.785960683615667, Q Loss: 7.122262477874756, Actor Loss: -33.75706386566162  
Episode 648: Time: 0.03531789779663086, Total Reward: 25.40069772392148, Q Loss: 9.209375619888306, Actor Loss: -40.7534294128418  
Episode 649: Time: 0.03486180305480957, Total Reward: 25.811024644111235, Q Loss: 9.449350357055664, Actor Loss: -47.5007905960083  
Episode 650: Time: 0.03486752510070801, Total Reward: 25.339236070828125, Q Loss: 8.695099234580994, Actor Loss: -46.171488761901855  
Episode 651: Time: 0.034821271896362305, Total Reward: 26.145980217472133, Q Loss: 10.432029247283936, Actor Loss: -42.77680587768555  
Episode 652: Time: 0.03499770164489746, Total Reward: 26.140652820041808, Q Loss: 10.602002501487732, Actor Loss: -41.60086727142334  
Episode 653: Time: 0.03481578826904297, Total Reward: 26.201799319832965, Q Loss: 11.61460280418396, Actor Loss: -42.392727851867676  
Episode 654: Time: 0.0264894962310791, Total Reward: 16.872083268768762, Q Loss: 8.85956883430481, Actor Loss: -32.786705017089844  
Episode 655: Time: 0.03491520881652832, Total Reward: 25.48055966447469, Q Loss: 10.748249411582947, Actor Loss: -45.45307540893555  
Episode 656: Time: 0.02618098258972168, Total Reward: 16.97719868599215, Q Loss: 8.583551406860352, Actor Loss: -32.91890335083008  
Episode 657: Time: 0.03488802909851074, Total Reward: 25.220266260570867, Q Loss: 11.501618146896362, Actor Loss: -45.17499542236328  
Episode 658: Time: 0.034979820251464844, Total Reward: 25.19565334871883, Q Loss: 11.035483002662659, Actor Loss: -41.13383388519287  
Episode 659: Time: 0.034974098205566406, Total Reward: 26.228136316552725, Q Loss: 14.413573741912842, Actor Loss: -41.1754093170166  
Episode 660: Time: 0.03519845008850098, Total Reward: 25.96428661373905, Q Loss: 10.466686487197876, Actor Loss: -44.10439109802246  
Episode 661: Time: 0.03505706787109375, Total Reward: 25.405929844188996, Q Loss: 12.975202083587646, Actor Loss: -41.25281620025635  
Episode 662: Time: 0.03496408462524414, Total Reward: 25.33497022466369, Q Loss: 12.047128438949585, Actor Loss: -42.343621253967285  
Episode 663: Time: 0.03476452827453613, Total Reward: 25.788205949267603, Q Loss: 9.450891971588135, Actor Loss: -46.91892337799072  
Episode 664: Time: 0.026093721389770508, Total Reward: 16.94895788898402, Q Loss: 7.7514564990997314, Actor Loss: -32.61069679260254  
Episode 665: Time: 0.03487515449523926, Total Reward: 25.692251664755116, Q Loss: 10.471058368682861, Actor Loss: -42.56299686431885



Episode 666: Time: 0.035134077072143555, Total Reward: 25.286861267403513, Q Loss: 12.241931676864624, Actor Loss: -43.1621675491333

Episode 667: Time: 0.03488588333129883, Total Reward: 25.38337800636028, Q Loss: 8.792395114898682, Actor Loss: -45.793503761291504

Episode 668: Time: 0.034833669662475586, Total Reward: 26.050676059047706, Q Loss: 11.836373209953308, Actor Loss: -35.836195945739746

Episode 669: Time: 0.034818410873413086, Total Reward: 25.581389015526486, Q Loss: 11.197771310806274, Actor Loss: -42.79241752624512

Episode 670: Time: 0.03482961654663086, Total Reward: 25.657495786808937, Q Loss: 9.57068395614624, Actor Loss: -42.58187675476074

Episode 671: Time: 0.03479623794555664, Total Reward: 25.857733545737027, Q Loss: 8.869922399520874, Actor Loss: -40.2940149307251

Episode 672: Time: 0.03535938262939453, Total Reward: 25.540076807228083, Q Loss: 11.372730731964111, Actor Loss: -43.46778583526611

Episode 673: Time: 0.02622199058532715, Total Reward: 16.911582677383556, Q Loss: 6.207567095756531, Actor Loss: -29.98637294769287

Episode 674: Time: 0.03474020957946777, Total Reward: 25.732546631424963, Q Loss: 9.316230535507202, Actor Loss: -43.824941635131836

Episode 675: Time: 0.02613377571105957, Total Reward: 17.023616366183198, Q Loss: 8.499519109725952, Actor Loss: -34.647860527038574

Episode 676: Time: 0.03481268882751465, Total Reward: 25.64736055001603, Q Loss: 12.385200262069702, Actor Loss: -43.64690017700195

Episode 677: Time: 0.02614569664001465, Total Reward: 16.94890643431675, Q Loss: 7.886138916015625, Actor Loss: -34.29668998718262

Episode 678: Time: 0.0261995792388916, Total Reward: 16.744494117851218, Q Loss: 9.130961179733276, Actor Loss: -33.30311679840088

Episode 679: Time: 0.03507637977600098, Total Reward: 25.587437575581035, Q Loss: 10.708677172660828, Actor Loss: -45.673152923583984

Episode 680: Time: 0.03484368324279785, Total Reward: 25.672328603134485, Q Loss: 11.825119256973267, Actor Loss: -48.94963264465332

Episode 681: Time: 0.03491020202636719, Total Reward: 25.87538168543677, Q Loss: 8.728796243667603, Actor Loss: -46.33981513977051

Episode 682: Time: 0.026310205459594727, Total Reward: 16.925119946001082, Q Loss: 9.02612566947937, Actor Loss: -32.40533447265625

Episode 683: Time: 0.0347743034362793, Total Reward: 25.265276734431446, Q Loss: 12.033841609954834, Actor Loss: -40.49626159667969

Episode 684: Time: 0.03487992286682129, Total Reward: 25.47666021006431, Q Loss: 13.801748991012573, Actor Loss: -40.652968406677246

Episode 685: Time: 0.026166915893554688, Total Reward: 16.968015352314673, Q Loss: 8.746437072753906, Actor Loss: -32.79139804840088

Episode 686: Time: 0.026410341262817383, Total Reward: 16.85300111468388, Q Loss: 11.553430080413818, Actor Loss: -29.93504524230957

Episode 687: Time: 0.02628469467163086, Total Reward: 16.941929936183424, Q Loss: 11.21443223953247, Actor Loss: -28.855968475341797

Episode 688: Time: 0.03505992889404297, Total Reward: 25.171814985022905, Q Loss: 13.111159801483154, Actor Loss: -44.46293830871582

Episode 689: Time: 0.03502154350280762, Total Reward: 25.40624577212848, Q Loss: 12.549682855606079, Actor Loss: -39.48974132537842

Episode 690: Time: 0.034861087799072266, Total Reward: 25.277943995751883, Q Loss: 11.231329917907715, Actor Loss: -40.39345359802246

Episode 691: Time: 0.026279687881469727, Total Reward: 16.94256244530284, Q Loss: 9.237257719039917, Actor Loss: -33.164066314697266

Episode 692: Time: 0.034929513931274414, Total Reward: 25.63141150667919, Q Loss: 10.702709436416626, Actor Loss: -42.42403030395508

Episode 693: Time: 0.035211801528930664, Total Reward: 25.909654038456548, Q Loss: 13.264668941497803, Actor Loss: -43.487799644470215

Episode 694: Time: 0.03499794006347656, Total Reward: 25.770624597119003, Q Loss: 9.456138253211975, Actor Loss: -40.91815757751465  
Episode 695: Time: 0.03478884696960449, Total Reward: 25.61551482407998, Q Loss: 10.067280173301697, Actor Loss: -43.326385498046875  
Episode 696: Time: 0.026276588439941406, Total Reward: 17.045756616480894, Q Loss: 8.452565670013428, Actor Loss: -32.937456130981445  
Episode 697: Time: 0.03496241569519043, Total Reward: 25.287324876883865, Q Loss: 13.844793558120728, Actor Loss: -47.962889671325684  
Episode 698: Time: 0.034911155700683594, Total Reward: 25.640309359007173, Q Loss: 10.474371194839478, Actor Loss: -45.277262687683105  
Episode 699: Time: 0.03510689735412598, Total Reward: 26.342321228874987, Q Loss: 10.233031749725342, Actor Loss: -43.15095138549805  
Validation Mean: 20.89627737430595, Validation Std: 4.166267386457277  
saving model  
Episode 700: Time: 0.035042524337768555, Total Reward: 25.786435185872485, Q Loss: 11.275354385375977, Actor Loss: -42.65842056274414  
Episode 701: Time: 0.0354464054107666, Total Reward: 26.01906592850203, Q Loss: 10.995039224624634, Actor Loss: -47.05759239196777  
Episode 702: Time: 0.035443782806396484, Total Reward: 25.341223727650192, Q Loss: 12.31022822856903, Actor Loss: -43.639830589294434  
Episode 703: Time: 0.03507637977600098, Total Reward: 25.817010911348405, Q Loss: 11.424595713615417, Actor Loss: -45.204423904418945  
Episode 704: Time: 0.03497123718261719, Total Reward: 25.435321924305597, Q Loss: 10.278067708015442, Actor Loss: -42.655030250549316  
Episode 705: Time: 0.03496670722961426, Total Reward: 25.19282248870045, Q Loss: 9.926222324371338, Actor Loss: -42.78382396697998  
Episode 706: Time: 0.03524136543273926, Total Reward: 25.614405962506343, Q Loss: 11.612485647201538, Actor Loss: -40.989991188049316  
Episode 707: Time: 0.035669565200805664, Total Reward: 25.271240618786287, Q Loss: 9.404443502426147, Actor Loss: -50.02083683013916  
Episode 708: Time: 0.035333871841430664, Total Reward: 25.771248816519932, Q Loss: 8.792228698730469, Actor Loss: -42.13345146179199  
Episode 709: Time: 0.026132822036743164, Total Reward: 16.801445180182675, Q Loss: 9.07246708869934, Actor Loss: -33.254815101623535  
Episode 710: Time: 0.026301145553588867, Total Reward: 16.83207515137226, Q Loss: 8.224216938018799, Actor Loss: -32.19222927093506  
Episode 711: Time: 0.02631235122680664, Total Reward: 16.9639315197929, Q Loss: 9.095459699630737, Actor Loss: -34.14780521392822  
Episode 712: Time: 0.034998416900634766, Total Reward: 25.271142400413346, Q Loss: 9.714482069015503, Actor Loss: -44.76904106140137  
Episode 713: Time: 0.02631664276123047, Total Reward: 16.9546486476655, Q Loss: 7.581610202789307, Actor Loss: -34.4869441986084  
Episode 714: Time: 0.03498220443725586, Total Reward: 25.66406934457114, Q Loss: 8.967319369316101, Actor Loss: -42.744462966918945  
Episode 715: Time: 0.03534960746765137, Total Reward: 25.39800168469658, Q Loss: 11.747201323509216, Actor Loss: -44.27846717834473  
Episode 716: Time: 0.02633500099182129, Total Reward: 16.866018355319667, Q Loss: 9.100845575332642, Actor Loss: -30.18232536315918  
Episode 717: Time: 0.026263952255249023, Total Reward: 17.035261319581565, Q Loss: 8.158500909805298, Actor Loss: -33.238969802856445  
Episode 718: Time: 0.026388168334960938, Total Reward: 16.890710657903963, Q Loss: 10.447459936141968, Actor Loss: -33.52550220489502  
Episode 719: Time: 0.034862518310546875, Total Reward: 25.389964510246582, Q Loss: 9.899227857589722, Actor Loss: -37.372801303863525  
Episode 720: Time: 0.0348055362701416, Total Reward: 25.839954415132453, Q Loss: 14.90609884262085, Actor Loss: -44.09915781021118

Episode 721: Time: 0.03477072715759277, Total Reward: 25.13626713166261, Q Loss: 11.039517879486084, Actor Loss: -44.28984355926514  
Episode 722: Time: 0.02657628059387207, Total Reward: 17.02368971761238, Q Loss: 11.793823957443237, Actor Loss: -30.88198947906494  
Episode 723: Time: 0.0346982479095459, Total Reward: 25.644251826454244, Q Loss: 8.627987742424011, Actor Loss: -46.667901039123535  
Episode 724: Time: 0.03478813171386719, Total Reward: 25.75586707390385, Q Loss: 13.086183786392212, Actor Loss: -39.92578983306885  
Episode 725: Time: 0.035002946853637695, Total Reward: 25.31507738987636, Q Loss: 11.666436195373535, Actor Loss: -45.8980827331543  
Episode 726: Time: 0.026137590408325195, Total Reward: 16.97573392348269, Q Loss: 8.891107320785522, Actor Loss: -31.280630111694336  
Episode 727: Time: 0.03473305702209473, Total Reward: 25.96527941077486, Q Loss: 12.283257722854614, Actor Loss: -43.16520690917969  
Episode 728: Time: 0.02616095542907715, Total Reward: 16.892717768421363, Q Loss: 7.795164704322815, Actor Loss: -30.973034858703613  
Episode 729: Time: 0.03516387939453125, Total Reward: 25.20533697534751, Q Loss: 10.308178901672363, Actor Loss: -46.54833221435547  
Episode 730: Time: 0.03495168685913086, Total Reward: 26.17280395274545, Q Loss: 10.303849339485168, Actor Loss: -47.804213523864746  
Episode 731: Time: 0.035511016845703125, Total Reward: 25.276600263817596, Q Loss: 13.465055227279663, Actor Loss: -42.819725036621094  
Episode 732: Time: 0.026330947875976562, Total Reward: 16.8817346964556, Q Loss: 9.59166955947876, Actor Loss: -33.51210021972656  
Episode 733: Time: 0.02621769905090332, Total Reward: 16.88901380829204, Q Loss: 7.872149705886841, Actor Loss: -33.65353965759277  
Episode 734: Time: 0.035082340240478516, Total Reward: 25.553093150156528, Q Loss: 9.46002995967865, Actor Loss: -45.62469005584717  
Episode 735: Time: 0.03476548194885254, Total Reward: 25.281890633924892, Q Loss: 10.907778263092041, Actor Loss: -42.78447103500366  
Episode 736: Time: 0.03515934944152832, Total Reward: 25.36249940622949, Q Loss: 9.39495575428009, Actor Loss: -44.495171546936035  
Episode 737: Time: 0.03498482704162598, Total Reward: 25.547662327557315, Q Loss: 11.395522832870483, Actor Loss: -43.34983730316162  
Episode 738: Time: 0.026215076446533203, Total Reward: 16.86137769249815, Q Loss: 9.827252388000488, Actor Loss: -35.45587635040283  
Episode 739: Time: 0.03479599952697754, Total Reward: 25.39803187739, Q Loss: 11.244604587554932, Actor Loss: -48.379061698913574  
Episode 740: Time: 0.026139497756958008, Total Reward: 16.956717803336414, Q Loss: 9.65152645111084, Actor Loss: -31.935298919677734  
Episode 741: Time: 0.03479743003845215, Total Reward: 25.31611923744399, Q Loss: 11.899492263793945, Actor Loss: -45.02248573303223  
Episode 742: Time: 0.03493547439575195, Total Reward: 25.400146218077552, Q Loss: 10.817301988601685, Actor Loss: -41.93632411956787  
Episode 743: Time: 0.03518080711364746, Total Reward: 25.251505950909177, Q Loss: 12.083655595779419, Actor Loss: -44.40126991271973  
Episode 744: Time: 0.034918785095214844, Total Reward: 25.50641755602133, Q Loss: 11.266448020935059, Actor Loss: -42.244638442993164  
Episode 745: Time: 0.034806251525878906, Total Reward: 25.60321664922238, Q Loss: 11.277157068252563, Actor Loss: -43.95222187042236  
Episode 746: Time: 0.03485846519470215, Total Reward: 25.913832423751504, Q Loss: 9.558327913284302, Actor Loss: -46.10115146636963  
Episode 747: Time: 0.03507661819458008, Total Reward: 25.33933954313327, Q Loss: 13.308166265487671, Actor Loss: -42.0534553527832  
Episode 748: Time: 0.03494882583618164, Total Reward: 25.56075975118289, Q Loss: 11.861180782318115, Actor Loss: -47.040618896484375

Episode 749: Time: 0.03526902198791504, Total Reward: 25.58809968202623, Q Loss: 9.295466542243958, Actor Loss: -41.658464431762695  
Episode 750: Time: 0.03490042686462402, Total Reward: 25.85670732403551, Q Loss: 11.156265020370483, Actor Loss: -39.4977388381958  
Episode 751: Time: 0.026224136352539062, Total Reward: 16.977242504695358, Q Loss: 8.360556840896606, Actor Loss: -33.50994873046875  
Episode 752: Time: 0.03483414649963379, Total Reward: 25.22276361075142, Q Loss: 13.189063787460327, Actor Loss: -45.36576843261719  
Episode 753: Time: 0.03484821319580078, Total Reward: 25.190387949034545, Q Loss: 12.588265657424927, Actor Loss: -42.13985633850098  
Episode 754: Time: 0.03490495681762695, Total Reward: 26.14964953465137, Q Loss: 11.197152137756348, Actor Loss: -46.448166847229004  
Episode 755: Time: 0.02617049217224121, Total Reward: 16.89553865427907, Q Loss: 6.007591724395752, Actor Loss: -33.16245079040527  
Episode 756: Time: 0.03507733345031738, Total Reward: 25.847448033234134, Q Loss: 12.154924631118774, Actor Loss: -42.22073554992676  
Episode 757: Time: 0.035042762756347656, Total Reward: 25.49898120413855, Q Loss: 10.363464832305908, Actor Loss: -46.02652072906494  
Episode 758: Time: 0.034891366958618164, Total Reward: 25.217854310500172, Q Loss: 12.260817050933838, Actor Loss: -41.16140651702881  
Episode 759: Time: 0.0348207950592041, Total Reward: 25.252563568949377, Q Loss: 11.807796239852905, Actor Loss: -42.804222106933594  
Episode 760: Time: 0.03539562225341797, Total Reward: 25.64965004064787, Q Loss: 10.132168292999268, Actor Loss: -41.25925159454346  
Episode 761: Time: 0.03496289253234863, Total Reward: 26.178564431752918, Q Loss: 13.513221979141235, Actor Loss: -48.54923629760742  
Episode 762: Time: 0.026555538177490234, Total Reward: 16.949046871307598, Q Loss: 9.464867353439331, Actor Loss: -32.43516540527344  
Episode 763: Time: 0.026296138763427734, Total Reward: 16.927684281377065, Q Loss: 7.26689350605011, Actor Loss: -31.042838096618652  
Episode 764: Time: 0.02647566795349121, Total Reward: 16.967455123183264, Q Loss: 8.789331674575806, Actor Loss: -32.14097023010254  
Episode 765: Time: 0.03472900390625, Total Reward: 25.15021953363373, Q Loss: 10.831443309783936, Actor Loss: -45.07020664215088  
Episode 766: Time: 0.0261993408203125, Total Reward: 16.922508220909194, Q Loss: 10.267041444778442, Actor Loss: -32.78107738494873  
Episode 767: Time: 0.03463006019592285, Total Reward: 25.592129665768677, Q Loss: 12.230784893035889, Actor Loss: -46.31026744842529  
Episode 768: Time: 0.026332855224609375, Total Reward: 16.941922859484826, Q Loss: 10.051886796951294, Actor Loss: -31.353291511535645  
Episode 769: Time: 0.03496408462524414, Total Reward: 25.70267035773662, Q Loss: 10.564541101455688, Actor Loss: -44.743553161621094  
Episode 770: Time: 0.026299476623535156, Total Reward: 16.944803061890962, Q Loss: 10.265876054763794, Actor Loss: -31.746140480041504  
Episode 771: Time: 0.04340934753417969, Total Reward: 35.130839724305474, Q Loss: 13.193903684616089, Actor Loss: -54.139522552490234  
Episode 772: Time: 0.03482389450073242, Total Reward: 25.300829008290496, Q Loss: 12.104487419128418, Actor Loss: -45.08478546142578  
Episode 773: Time: 0.026109695434570312, Total Reward: 16.974580809150755, Q Loss: 7.690409183502197, Actor Loss: -33.07423210144043  
Episode 774: Time: 0.034935712814331055, Total Reward: 25.344197377493863, Q Loss: 12.963347911834717, Actor Loss: -46.73017883300781  
Episode 775: Time: 0.03521132469177246, Total Reward: 25.1255290119685, Q Loss: 10.8198721408844, Actor Loss: -48.50849914550781  
Episode 776: Time: 0.026187419891357422, Total Reward: 16.862532892294432, Q Loss: 7.082547068595886, Actor Loss: -34.963833808898926

Episode 777: Time: 0.03484225273132324, Total Reward: 25.210661698018775, Q Loss: 11.791688680648804, Actor Loss: -45.159156799316406  
Episode 778: Time: 0.03480863571166992, Total Reward: 25.30008379859272, Q Loss: 12.532849788665771, Actor Loss: -41.29508304595947  
Episode 779: Time: 0.0349118709564209, Total Reward: 25.632237910199347, Q Loss: 11.7959725856781, Actor Loss: -44.6796817779541  
Episode 780: Time: 0.026161909103393555, Total Reward: 16.797126824791196, Q Loss: 8.796046495437622, Actor Loss: -33.63655376434326  
Episode 781: Time: 0.03465151786804199, Total Reward: 25.354838541114045, Q Loss: 13.756237268447876, Actor Loss: -41.65212345123291  
Episode 782: Time: 0.02638840675354004, Total Reward: 16.935857090471828, Q Loss: 10.213850259780884, Actor Loss: -34.12502956390381  
Episode 783: Time: 0.034914255142211914, Total Reward: 25.363466699446278, Q Loss: 12.856619596481323, Actor Loss: -45.53091621398926  
Episode 784: Time: 0.03483843803405762, Total Reward: 25.143686339338807, Q Loss: 13.72233247756958, Actor Loss: -47.751235008239746  
Episode 785: Time: 0.026150941848754883, Total Reward: 16.807527356662614, Q Loss: 7.861603140830994, Actor Loss: -31.63990592956543  
Episode 786: Time: 0.026177167892456055, Total Reward: 16.802537766595496, Q Loss: 13.115461349487305, Actor Loss: -33.20921230316162  
Episode 787: Time: 0.02631378173828125, Total Reward: 16.928406573620872, Q Loss: 12.077503204345703, Actor Loss: -36.78938293457031  
Episode 788: Time: 0.02636885643005371, Total Reward: 16.926766623612544, Q Loss: 8.855225086212158, Actor Loss: -36.23124408721924  
Episode 789: Time: 0.035454750061035156, Total Reward: 25.90543535992151, Q Loss: 13.946857690811157, Actor Loss: -45.571377754211426  
Episode 790: Time: 0.02634263038635254, Total Reward: 16.833438882928263, Q Loss: 10.384941101074219, Actor Loss: -31.98682975769043  
Episode 791: Time: 0.034949302673339844, Total Reward: 25.141448801709732, Q Loss: 13.701228618621826, Actor Loss: -45.228299140930176  
Episode 792: Time: 0.035112619400024414, Total Reward: 25.801704047268338, Q Loss: 12.242957592010498, Actor Loss: -46.298770904541016  
Episode 793: Time: 0.03489804267883301, Total Reward: 25.378152670831426, Q Loss: 14.695731163024902, Actor Loss: -45.58112335205078  
Episode 794: Time: 0.03490591049194336, Total Reward: 26.03862372820261, Q Loss: 13.84228229522705, Actor Loss: -43.24598693847656  
Episode 795: Time: 0.03540325164794922, Total Reward: 25.50958277002203, Q Loss: 13.164647579193115, Actor Loss: -45.06579780578613  
Episode 796: Time: 0.02620220184326172, Total Reward: 16.84398608023383, Q Loss: 9.568153619766235, Actor Loss: -33.749053955078125  
Episode 797: Time: 0.026308536529541016, Total Reward: 16.963972039909518, Q Loss: 9.314056158065796, Actor Loss: -34.00031661987305  
Episode 798: Time: 0.03498268127441406, Total Reward: 25.3730121351302, Q Loss: 12.451882123947144, Actor Loss: -39.70191478729248  
Episode 799: Time: 0.03484225273132324, Total Reward: 25.521985317651836, Q Loss: 9.414738893508911, Actor Loss: -43.5957670211792  
Validation Mean: 21.080157277144153, Validation Std: 4.180473202617302  
saving model  
Episode 800: Time: 0.03519606590270996, Total Reward: 26.008392369063177, Q Loss: 11.78499698638916, Actor Loss: -42.65592098236084  
Episode 801: Time: 0.03513813018798828, Total Reward: 25.390427219017546, Q Loss: 12.450350046157837, Actor Loss: -43.16076469421387  
Episode 802: Time: 0.026302337646484375, Total Reward: 16.940290807732502, Q Loss: 8.822824239730835, Actor Loss: -32.574978828430176  
Episode 803: Time: 0.03495073318481445, Total Reward: 25.261550402348313, Q Loss: 11.208606481552124, Actor Loss: -42.11540985107422

Episode 804: Time: 0.035053253173828125, Total Reward: 25.274610166324678, Q Loss: 11.163933992385864, Actor Loss: -44.31592559814453  
Episode 805: Time: 0.03543972969055176, Total Reward: 25.475898386396548, Q Loss: 11.091676473617554, Actor Loss: -43.87392234802246  
Episode 806: Time: 0.03506875038146973, Total Reward: 25.943126479595648, Q Loss: 11.185870170593262, Actor Loss: -46.007232666015625  
Episode 807: Time: 0.03502082824707031, Total Reward: 25.308481099534312, Q Loss: 13.894815921783447, Actor Loss: -41.32961177825928  
Episode 808: Time: 0.03516530990600586, Total Reward: 25.296771672557792, Q Loss: 12.079100608825684, Actor Loss: -39.23341178894043  
Episode 809: Time: 0.02634716033935547, Total Reward: 16.825674844851356, Q Loss: 8.421400547027588, Actor Loss: -30.81796646118164  
Episode 810: Time: 0.0348970890045166, Total Reward: 26.146181194997943, Q Loss: 12.793369054794312, Actor Loss: -44.139760971069336  
Episode 811: Time: 0.026252031326293945, Total Reward: 16.714159572905906, Q Loss: 10.948128938674927, Actor Loss: -32.319833755493164  
Episode 812: Time: 0.03551936149597168, Total Reward: 25.38461128908228, Q Loss: 13.433070659637451, Actor Loss: -42.03558158874512  
Episode 813: Time: 0.027014970779418945, Total Reward: 16.917151784177264, Q Loss: 9.848713636398315, Actor Loss: -32.783772468566895  
Episode 814: Time: 0.03507113456726074, Total Reward: 25.244068897527377, Q Loss: 14.22083854675293, Actor Loss: -45.368289947509766  
Episode 815: Time: 0.03506660461425781, Total Reward: 25.313073729216033, Q Loss: 11.326394319534302, Actor Loss: -42.16038513183594  
Episode 816: Time: 0.03486967086791992, Total Reward: 25.193787866906003, Q Loss: 12.490278005599976, Actor Loss: -46.30580234527588  
Episode 817: Time: 0.03491497039794922, Total Reward: 25.20020464989645, Q Loss: 12.482760429382324, Actor Loss: -44.38181781768799  
Episode 818: Time: 0.02620530128479004, Total Reward: 16.93879135196178, Q Loss: 11.317332983016968, Actor Loss: -36.45471477508545  
Episode 819: Time: 0.035291433334350586, Total Reward: 25.198901270540173, Q Loss: 13.765272855758667, Actor Loss: -44.39350509643555  
Episode 820: Time: 0.03489232063293457, Total Reward: 25.15987621218097, Q Loss: 11.207948207855225, Actor Loss: -40.37548065185547  
Episode 821: Time: 0.02632308006286621, Total Reward: 16.885947898134138, Q Loss: 8.928662776947021, Actor Loss: -36.10954761505127  
Episode 822: Time: 0.03502058982849121, Total Reward: 25.521345898764643, Q Loss: 11.58175277709961, Actor Loss: -44.3866081237793  
Episode 823: Time: 0.026201963424682617, Total Reward: 16.940640229475996, Q Loss: 9.780447721481323, Actor Loss: -37.29428482055664  
Episode 824: Time: 0.034850120544433594, Total Reward: 25.50828360156987, Q Loss: 13.256061792373657, Actor Loss: -44.714712142944336  
Episode 825: Time: 0.034857988357543945, Total Reward: 26.024427182522988, Q Loss: 11.331374883651733, Actor Loss: -43.75079917907715  
Episode 826: Time: 0.03528141975402832, Total Reward: 25.956429430048797, Q Loss: 10.892935991287231, Actor Loss: -43.057533264160156  
Episode 827: Time: 0.034958600997924805, Total Reward: 25.62800544064695, Q Loss: 10.643068432807922, Actor Loss: -46.605567932128906  
Episode 828: Time: 0.026234865188598633, Total Reward: 16.996279092833035, Q Loss: 7.383248925209045, Actor Loss: -34.21048164367676  
Episode 829: Time: 0.03491568565368652, Total Reward: 25.465673019852318, Q Loss: 10.450636863708496, Actor Loss: -41.45307731628418  
Episode 830: Time: 0.03486466407775879, Total Reward: 25.764476072276324, Q Loss: 12.508766412734985, Actor Loss: -44.08903121948242  
Episode 831: Time: 0.026286840438842773, Total Reward: 16.986896162721504, Q Loss: 9.358350038528442, Actor Loss: -35.924753189086914

Episode 832: Time: 0.034940481185913086, Total Reward: 25.629983779895152, Q Loss: 14.343212604522705, Actor Loss: -45.11437702178955  
Episode 833: Time: 0.026581764221191406, Total Reward: 16.931804363335324, Q Loss: 11.204745531082153, Actor Loss: -32.0009183883667  
Episode 834: Time: 0.03496599197387695, Total Reward: 25.944158698306122, Q Loss: 13.462955713272095, Actor Loss: -46.598873138427734  
Episode 835: Time: 0.03483700752258301, Total Reward: 25.327672114971957, Q Loss: 12.99621868133545, Actor Loss: -43.79588508605957  
Episode 836: Time: 0.026398897171020508, Total Reward: 16.91143164721693, Q Loss: 9.25317907333374, Actor Loss: -33.810272216796875  
Episode 837: Time: 0.03492999076843262, Total Reward: 25.576354670103065, Q Loss: 12.974921464920044, Actor Loss: -44.35768127441406  
Episode 838: Time: 0.034815311431884766, Total Reward: 25.499178148238943, Q Loss: 12.12095594406128, Actor Loss: -46.856733322143555  
Episode 839: Time: 0.03514218330383301, Total Reward: 25.925280232379777, Q Loss: 12.285226106643677, Actor Loss: -42.83330154418945  
Episode 840: Time: 0.034902334213256836, Total Reward: 25.437340172823433, Q Loss: 10.444486618041992, Actor Loss: -44.01078224182129  
Episode 841: Time: 0.03487873077392578, Total Reward: 25.32259465881998, Q Loss: 13.190525531768799, Actor Loss: -47.55303955078125  
Episode 842: Time: 0.035008907318115234, Total Reward: 25.911177928099693, Q Loss: 11.515514850616455, Actor Loss: -45.65700340270996  
Episode 843: Time: 0.03500986099243164, Total Reward: 25.362113607922876, Q Loss: 12.944983959197998, Actor Loss: -43.96771240234375  
Episode 844: Time: 0.03524446487426758, Total Reward: 25.308000492117714, Q Loss: 13.514840602874756, Actor Loss: -46.93070983886719  
Episode 845: Time: 0.035340309143066406, Total Reward: 25.989523784082003, Q Loss: 12.543577909469604, Actor Loss: -44.54129695892334  
Episode 846: Time: 0.026279211044311523, Total Reward: 16.884342671006383, Q Loss: 7.297391414642334, Actor Loss: -36.755876541137695  
Episode 847: Time: 0.03520774841308594, Total Reward: 25.44072639238483, Q Loss: 11.310677289962769, Actor Loss: -46.1480712890625  
Episode 848: Time: 0.03476405143737793, Total Reward: 26.126792871518457, Q Loss: 10.527257919311523, Actor Loss: -44.97147846221924  
Episode 849: Time: 0.03489947319030762, Total Reward: 25.44293021274747, Q Loss: 12.489807367324829, Actor Loss: -44.525086402893066  
Episode 850: Time: 0.034925222396850586, Total Reward: 25.481220915919085, Q Loss: 11.551118612289429, Actor Loss: -46.48258399963379  
Episode 851: Time: 0.026440858840942383, Total Reward: 16.973974123451555, Q Loss: 10.417372226715088, Actor Loss: -34.68265724182129  
Episode 852: Time: 0.035088300704956055, Total Reward: 25.358663030334586, Q Loss: 14.214322090148926, Actor Loss: -43.876304626464844  
Episode 853: Time: 0.02631211280822754, Total Reward: 16.947916253941237, Q Loss: 8.421079635620117, Actor Loss: -32.135318756103516  
Episode 854: Time: 0.03483915328979492, Total Reward: 25.297968868015513, Q Loss: 11.570751428604126, Actor Loss: -43.969661712646484  
Episode 855: Time: 0.026462078094482422, Total Reward: 16.956904476668274, Q Loss: 11.282092332839966, Actor Loss: -33.74471473693848  
Episode 856: Time: 0.03484606742858887, Total Reward: 26.103415214966557, Q Loss: 12.303890705108643, Actor Loss: -44.45748996734619  
Episode 857: Time: 0.03487372398376465, Total Reward: 26.02224504049309, Q Loss: 12.896097421646118, Actor Loss: -43.7719669342041  
Episode 858: Time: 0.03496885299682617, Total Reward: 26.057106741044525, Q Loss: 15.19154667854309, Actor Loss: -45.643351554870605  
Episode 859: Time: 0.026534557342529297, Total Reward: 16.907883805032757, Q Loss: 9.22502875328064, Actor Loss: -32.47917461395264

Episode 860: Time: 0.034883737564086914, Total Reward: 26.067665215591642, Q Loss: 13.269522190093994, Actor Loss: -47.140501976013184  
Episode 861: Time: 0.03496694564819336, Total Reward: 25.80566604370238, Q Loss: 13.510457992553711, Actor Loss: -45.19962978363037  
Episode 862: Time: 0.03486442565917969, Total Reward: 25.202570735029276, Q Loss: 13.410843133926392, Actor Loss: -40.36948013305664  
Episode 863: Time: 0.03508639335632324, Total Reward: 25.430081252981868, Q Loss: 12.27926254272461, Actor Loss: -40.49108409881592  
Episode 864: Time: 0.03532004356384277, Total Reward: 25.131009624283244, Q Loss: 10.184411764144897, Actor Loss: -45.73136615753174  
Episode 865: Time: 0.03527975082397461, Total Reward: 26.16890848850882, Q Loss: 12.446022748947144, Actor Loss: -42.86334419250488  
Episode 866: Time: 0.03491067886352539, Total Reward: 25.732959438575687, Q Loss: 13.33476996421814, Actor Loss: -49.46937656402588  
Episode 867: Time: 0.035044193267822266, Total Reward: 25.93861179359163, Q Loss: 13.482995748519897, Actor Loss: -43.346938133239746  
Episode 868: Time: 0.02619624137878418, Total Reward: 16.93087903803461, Q Loss: 9.833721160888672, Actor Loss: -36.08598518371582  
Episode 869: Time: 0.03486776351928711, Total Reward: 25.301659436814376, Q Loss: 14.023579597473145, Actor Loss: -44.56338882446289  
Episode 870: Time: 0.034946441650390625, Total Reward: 25.423262953909592, Q Loss: 12.205453634262085, Actor Loss: -43.29463195800781  
Episode 871: Time: 0.026105403900146484, Total Reward: 16.809711689349953, Q Loss: 8.463847637176514, Actor Loss: -28.373743057250977  
Episode 872: Time: 0.03527474403381348, Total Reward: 26.024614867459558, Q Loss: 12.98436975479126, Actor Loss: -43.418707847595215  
Episode 873: Time: 0.026319503784179688, Total Reward: 16.99026249194785, Q Loss: 12.133123636245728, Actor Loss: -32.72489070892334  
Episode 874: Time: 0.03491854667663574, Total Reward: 26.014302225499456, Q Loss: 15.178157806396484, Actor Loss: -38.58262348175049  
Episode 875: Time: 0.02625417709350586, Total Reward: 16.952775741991818, Q Loss: 9.80261778831482, Actor Loss: -33.151917457580566  
Episode 876: Time: 0.035161495208740234, Total Reward: 25.61948077303037, Q Loss: 14.22102952003479, Actor Loss: -44.42063522338867  
Episode 877: Time: 0.03491067886352539, Total Reward: 25.830144193349188, Q Loss: 13.324838399887085, Actor Loss: -41.696866035461426  
Episode 878: Time: 0.03484630584716797, Total Reward: 25.592550004025668, Q Loss: 11.588096380233765, Actor Loss: -44.31618118286133  
Episode 879: Time: 0.035263776779174805, Total Reward: 25.390939261160806, Q Loss: 14.382853269577026, Actor Loss: -44.959994316101074  
Episode 880: Time: 0.026381969451904297, Total Reward: 16.88677521458043, Q Loss: 8.32835054397583, Actor Loss: -35.28017616271973  
Episode 881: Time: 0.034853458404541016, Total Reward: 26.2586610393187, Q Loss: 16.228804349899292, Actor Loss: -42.4785213470459  
Episode 882: Time: 0.03485226631164551, Total Reward: 25.400002307088783, Q Loss: 13.340967893600464, Actor Loss: -48.837029457092285  
Episode 883: Time: 0.02610492706298828, Total Reward: 16.99594225524942, Q Loss: 9.957017660140991, Actor Loss: -32.35338497161865  
Episode 884: Time: 0.03484201431274414, Total Reward: 26.106750873735315, Q Loss: 15.12603759765625, Actor Loss: -44.243409156799316  
Episode 885: Time: 0.03479886054992676, Total Reward: 25.184122765494408, Q Loss: 12.713532209396362, Actor Loss: -47.13850784301758  
Episode 886: Time: 0.035836219787597656, Total Reward: 25.343336569924393, Q Loss: 15.330478191375732, Actor Loss: -43.52756118774414  
Episode 887: Time: 0.03506207466125488, Total Reward: 25.24251454434819, Q Loss: 11.550055265426636, Actor Loss: -45.71158313751221



Episode 888: Time: 0.0348970890045166, Total Reward: 25.773265285466923, Q Loss: 12.134422302246094, Actor Loss: -44.931735038757324  
Episode 889: Time: 0.03506016731262207, Total Reward: 25.91526787156552, Q Loss: 13.619471549987793, Actor Loss: -47.607895851135254  
Episode 890: Time: 0.03508949279785156, Total Reward: 25.90576214812512, Q Loss: 13.709201335906982, Actor Loss: -46.51577281951904  
Episode 891: Time: 0.03481769561767578, Total Reward: 25.236123520936538, Q Loss: 15.036187410354614, Actor Loss: -44.64229202270508  
Episode 892: Time: 0.026447296142578125, Total Reward: 16.889023092208486, Q Loss: 8.90337872505188, Actor Loss: -31.997611045837402  
Episode 893: Time: 0.035004615783691406, Total Reward: 25.337128965453683, Q Loss: 14.238773584365845, Actor Loss: -43.25378227233887  
Episode 894: Time: 0.03514742851257324, Total Reward: 25.21446422378581, Q Loss: 11.818329334259033, Actor Loss: -45.08965301513672  
Episode 895: Time: 0.026285648345947266, Total Reward: 16.908566064770277, Q Loss: 8.969679355621338, Actor Loss: -35.49928569793701  
Episode 896: Time: 0.0349421501159668, Total Reward: 26.198260342934333, Q Loss: 15.407717943191528, Actor Loss: -40.97815418243408  
Episode 897: Time: 0.03481268882751465, Total Reward: 25.69554077944744, Q Loss: 14.791056871414185, Actor Loss: -43.5664005279541  
Episode 898: Time: 0.035501956939697266, Total Reward: 25.745571628446285, Q Loss: 13.19486927986145, Actor Loss: -43.266475677490234  
Episode 899: Time: 0.026307344436645508, Total Reward: 16.93767176000167, Q Loss: 13.801474809646606, Actor Loss: -34.96976184844971  
Validation Mean: 21.230090173540567, Validation Std: 4.174042780012381  
saving model  
Episode 900: Time: 0.026533842086791992, Total Reward: 16.866719408741076, Q Loss: 10.796597719192505, Actor Loss: -32.37431812286377  
Episode 901: Time: 0.026480913162231445, Total Reward: 16.962290434083307, Q Loss: 10.848208665847778, Actor Loss: -32.86459922790527  
Episode 902: Time: 0.03489518165588379, Total Reward: 25.602341606272475, Q Loss: 14.548295259475708, Actor Loss: -45.10167121887207  
Episode 903: Time: 0.02624988555908203, Total Reward: 16.864847123668646, Q Loss: 10.391058206558228, Actor Loss: -29.6363468170166  
Episode 904: Time: 0.026300430297851562, Total Reward: 16.941864421403142, Q Loss: 14.85008716583252, Actor Loss: -34.73781394958496  
Episode 905: Time: 0.0346982479095459, Total Reward: 26.09447681775862, Q Loss: 16.519755840301514, Actor Loss: -44.63773822784424  
Episode 906: Time: 0.026196718215942383, Total Reward: 16.8181539094002, Q Loss: 14.049151182174683, Actor Loss: -27.88507843017578  
Episode 907: Time: 0.034821510314941406, Total Reward: 25.591331958077458, Q Loss: 11.052797079086304, Actor Loss: -42.52766799926758  
Episode 908: Time: 0.035152435302734375, Total Reward: 25.30447295141172, Q Loss: 13.269733190536499, Actor Loss: -47.45981788635254  
Episode 909: Time: 0.026182889938354492, Total Reward: 16.95891432112801, Q Loss: 10.502262115478516, Actor Loss: -33.03248310089111  
Episode 910: Time: 0.026177167892456055, Total Reward: 16.961046534882797, Q Loss: 8.854643106460571, Actor Loss: -33.64719295501709  
Episode 911: Time: 0.03470253944396973, Total Reward: 25.461339805411164, Q Loss: 9.78949522972107, Actor Loss: -44.187092781066895  
Episode 912: Time: 0.03509664535522461, Total Reward: 25.309005013243976, Q Loss: 12.696998119354248, Actor Loss: -45.87187480926514  
Episode 913: Time: 0.03467130661010742, Total Reward: 25.49611958509193, Q Loss: 11.129202604293823, Actor Loss: -49.166786193847656  
Episode 914: Time: 0.026153087615966797, Total Reward: 16.95109359938623, Q Loss: 9.999273777008057, Actor Loss: -32.66365718841553

Episode 915: Time: 0.03504133224487305, Total Reward: 25.269067791787087, Q Loss: 11.775262117385864, Actor Loss: -43.68545341491699  
Episode 916: Time: 0.034799814224243164, Total Reward: 25.490150702588966, Q Loss: 15.390714168548584, Actor Loss: -44.115471839904785  
Episode 917: Time: 0.034726858139038086, Total Reward: 26.244114584005786, Q Loss: 12.109437942504883, Actor Loss: -45.43723106384277  
Episode 918: Time: 0.04340767860412598, Total Reward: 35.02812307665358, Q Loss: 19.526578664779663, Actor Loss: -55.987966537475586  
Episode 919: Time: 0.026226282119750977, Total Reward: 16.907185311977432, Q Loss: 8.662866592407227, Actor Loss: -33.66801738739014  
Episode 920: Time: 0.0348207950592041, Total Reward: 25.44160031341491, Q Loss: 11.868207693099976, Actor Loss: -44.325042724609375  
Episode 921: Time: 0.03502202033996582, Total Reward: 25.96175841403237, Q Loss: 14.082750797271729, Actor Loss: -45.6682825088501  
Episode 922: Time: 0.03483080863952637, Total Reward: 25.305912767321598, Q Loss: 13.440371751785278, Actor Loss: -44.15218734741211  
Episode 923: Time: 0.03478264808654785, Total Reward: 25.229998841997098, Q Loss: 19.139455795288086, Actor Loss: -45.90596961975098  
Episode 924: Time: 0.02612900733947754, Total Reward: 16.928894772151914, Q Loss: 11.859108924865723, Actor Loss: -35.753363609313965  
Episode 925: Time: 0.03510618209838867, Total Reward: 25.32560890839906, Q Loss: 16.880260229110718, Actor Loss: -44.14372158050537  
Episode 926: Time: 0.02637481689453125, Total Reward: 16.9822110853985, Q Loss: 12.228118896484375, Actor Loss: -32.306302070617676  
Episode 927: Time: 0.034836769104003906, Total Reward: 25.601154621481054, Q Loss: 14.47991394996643, Actor Loss: -46.96820068359375  
Episode 928: Time: 0.03519582748413086, Total Reward: 25.547500222909793, Q Loss: 14.451706647872925, Actor Loss: -45.80805587768555  
Episode 929: Time: 0.026236772537231445, Total Reward: 16.944514427988867, Q Loss: 18.175992012023926, Actor Loss: -36.61547565460205  
Episode 930: Time: 0.034961700439453125, Total Reward: 25.761631524801178, Q Loss: 15.642788887023926, Actor Loss: -41.677350997924805  
Episode 931: Time: 0.03473615646362305, Total Reward: 25.166251184050793, Q Loss: 16.85027527809143, Actor Loss: -47.82999801635742  
Episode 932: Time: 0.026266098022460938, Total Reward: 16.895846996561318, Q Loss: 12.148599863052368, Actor Loss: -32.243990898132324  
Episode 933: Time: 0.03486061096191406, Total Reward: 25.89832155143926, Q Loss: 14.726739168167114, Actor Loss: -41.03893566131592  
Episode 934: Time: 0.03481626510620117, Total Reward: 25.880632264177308, Q Loss: 14.272405624389648, Actor Loss: -41.36248302459717  
Episode 935: Time: 0.035088300704956055, Total Reward: 25.342619621140088, Q Loss: 11.075559377670288, Actor Loss: -50.755483627319336  
Episode 936: Time: 0.03493618965148926, Total Reward: 26.06506635558361, Q Loss: 14.105688095092773, Actor Loss: -48.10679244995117  
Episode 937: Time: 0.03483843803405762, Total Reward: 25.21889151108497, Q Loss: 12.269744396209717, Actor Loss: -43.68650722503662  
Episode 938: Time: 0.03509211540222168, Total Reward: 25.285682039763252, Q Loss: 15.074886322021484, Actor Loss: -43.50278568267822  
Episode 939: Time: 0.03493094444274902, Total Reward: 25.80793667472015, Q Loss: 13.96257209777832, Actor Loss: -48.303324699401855  
Episode 940: Time: 0.03479361534118652, Total Reward: 25.77841548631935, Q Loss: 14.067763566970825, Actor Loss: -43.693050384521484  
Episode 941: Time: 0.026558876037597656, Total Reward: 16.867179547157818, Q Loss: 10.706252336502075, Actor Loss: -34.67625427246094  
Episode 942: Time: 0.026214599609375, Total Reward: 16.922823140932962, Q Loss: 11.191510438919067, Actor Loss: -33.93036460876465

Episode 943: Time: 0.034888505935668945, Total Reward: 25.189714557725196, Q Loss: 11.776627540588379, Actor Loss: -47.258649826049805  
Episode 944: Time: 0.034822702407836914, Total Reward: 25.375005660099315, Q Loss: 11.224324822425842, Actor Loss: -46.60767078399658  
Episode 945: Time: 0.026178836822509766, Total Reward: 16.946594671552045, Q Loss: 13.693017482757568, Actor Loss: -34.808356285095215  
Episode 946: Time: 0.03474235534667969, Total Reward: 25.509830623902538, Q Loss: 16.154072284698486, Actor Loss: -45.593793869018555  
Episode 947: Time: 0.034780025482177734, Total Reward: 25.20717614151077, Q Loss: 14.19162368774414, Actor Loss: -43.48259735107422  
Episode 948: Time: 0.03532814979553223, Total Reward: 25.69217542458459, Q Loss: 12.112433314323425, Actor Loss: -43.53849124908447  
Episode 949: Time: 0.03493976593017578, Total Reward: 25.43841819954244, Q Loss: 9.299997329711914, Actor Loss: -46.72347640991211  
Episode 950: Time: 0.02630329132080078, Total Reward: 16.868442821794932, Q Loss: 9.584626197814941, Actor Loss: -31.96837043762207  
Episode 951: Time: 0.035001516342163086, Total Reward: 25.82170797678375, Q Loss: 15.558103322982788, Actor Loss: -44.78730392456055  
Episode 952: Time: 0.03487515449523926, Total Reward: 25.55032285746487, Q Loss: 16.087701320648193, Actor Loss: -47.07037544250488  
Episode 953: Time: 0.034863948822021484, Total Reward: 25.565372319491974, Q Loss: 12.315465927124023, Actor Loss: -44.38148880004883  
Episode 954: Time: 0.03510642051696777, Total Reward: 25.850991406706274, Q Loss: 16.192752599716187, Actor Loss: -48.39157485961914  
Episode 955: Time: 0.034874677658081055, Total Reward: 25.140253244480295, Q Loss: 12.316893815994263, Actor Loss: -48.89734649658203  
Episode 956: Time: 0.03481578826904297, Total Reward: 25.461791811177807, Q Loss: 13.161215782165527, Actor Loss: -44.178077697753906  
Episode 957: Time: 0.026204347610473633, Total Reward: 16.971716160257255, Q Loss: 8.4653902053833, Actor Loss: -33.74112415313721  
Episode 958: Time: 0.03471541404724121, Total Reward: 25.673312337627124, Q Loss: 12.418587923049927, Actor Loss: -45.441986083984375  
Episode 959: Time: 0.03474736213684082, Total Reward: 25.478583147696817, Q Loss: 14.250882148742676, Actor Loss: -42.840084075927734  
Episode 960: Time: 0.03525805473327637, Total Reward: 25.872979376469704, Q Loss: 11.9698486328125, Actor Loss: -42.798171043395996  
Episode 961: Time: 0.034798622131347656, Total Reward: 25.653218033245874, Q Loss: 13.795475244522095, Actor Loss: -48.72716522216797  
Episode 962: Time: 0.034749507904052734, Total Reward: 25.6116398604711, Q Loss: 15.462438106536865, Actor Loss: -45.251519203186035  
Episode 963: Time: 0.03493547439575195, Total Reward: 25.573528142667623, Q Loss: 15.628714799880981, Actor Loss: -49.624271392822266  
Episode 964: Time: 0.03479599952697754, Total Reward: 25.32989477701865, Q Loss: 15.38027811050415, Actor Loss: -45.0489559173584  
Episode 965: Time: 0.026128530502319336, Total Reward: 16.792174865083787, Q Loss: 10.859915018081665, Actor Loss: -32.26892375946045  
Episode 966: Time: 0.05254077911376953, Total Reward: 44.69377582695304, Q Loss: 24.099037647247314, Actor Loss: -70.88435935974121  
Episode 967: Time: 0.03493523597717285, Total Reward: 25.328292222902256, Q Loss: 14.651841402053833, Actor Loss: -45.3427209854126  
Episode 968: Time: 0.03478503227233887, Total Reward: 25.375191496919626, Q Loss: 14.670211791992188, Actor Loss: -50.39017105102539  
Episode 969: Time: 0.026458024978637695, Total Reward: 17.00014761895033, Q Loss: 12.927241802215576, Actor Loss: -36.853803634643555  
Episode 970: Time: 0.02627086639404297, Total Reward: 16.87173130882828, Q Loss: 10.022401332855225, Actor Loss: -33.16962814331055

Episode 971: Time: 0.0262453556060791, Total Reward: 16.82112410001006, Q Loss: 9.369962692260742, Actor Loss: -31.25404453277588  
Episode 972: Time: 0.02624988555908203, Total Reward: 16.892381442451182, Q Loss: 10.518382787704468, Actor Loss: -32.342528343200684  
Episode 973: Time: 0.03536581993103027, Total Reward: 25.493131490290853, Q Loss: 14.358300685882568, Actor Loss: -44.597750663757324  
Episode 974: Time: 0.026254653930664062, Total Reward: 16.9620859879874, Q Loss: 10.241503715515137, Actor Loss: -32.77998352050781  
Episode 975: Time: 0.034963130950927734, Total Reward: 25.304829951696938, Q Loss: 15.481062412261963, Actor Loss: -46.430535316467285  
Episode 976: Time: 0.03484773635864258, Total Reward: 25.129862147680907, Q Loss: 14.76701045036316, Actor Loss: -46.740206718444824  
Episode 977: Time: 0.03478527069091797, Total Reward: 26.22320176951616, Q Loss: 15.72921371459961, Actor Loss: -44.53154945373535  
Episode 978: Time: 0.034783124923706055, Total Reward: 25.20155964382104, Q Loss: 15.929287910461426, Actor Loss: -41.314321517944336  
Episode 979: Time: 0.026199817657470703, Total Reward: 16.88346684315519, Q Loss: 11.881600856781006, Actor Loss: -35.44380569458008  
Episode 980: Time: 0.03502821922302246, Total Reward: 25.344298713623253, Q Loss: 18.760587215423584, Actor Loss: -47.58985424041748  
Episode 981: Time: 0.026170730590820312, Total Reward: 16.913038569552967, Q Loss: 12.87972354888916, Actor Loss: -32.553799629211426  
Episode 982: Time: 0.03477954864501953, Total Reward: 25.383340766735955, Q Loss: 14.91271424293518, Actor Loss: -46.07367992401123  
Episode 983: Time: 0.03485727310180664, Total Reward: 25.27496789601057, Q Loss: 16.668882846832275, Actor Loss: -46.29728984832764  
Episode 984: Time: 0.026234865188598633, Total Reward: 16.806615312069177, Q Loss: 9.41063404083252, Actor Loss: -30.85132884979248  
Episode 985: Time: 0.026170969009399414, Total Reward: 16.976883499321517, Q Loss: 12.028043508529663, Actor Loss: -36.66282272338867  
Episode 986: Time: 0.0351870059967041, Total Reward: 26.07834536793701, Q Loss: 12.487171649932861, Actor Loss: -42.8570499420166  
Episode 987: Time: 0.02678847312927246, Total Reward: 16.75163479796155, Q Loss: 13.005380630493164, Actor Loss: -33.71061706542969  
Episode 988: Time: 0.03531050682067871, Total Reward: 25.240923523596038, Q Loss: 15.75519323348999, Actor Loss: -42.334943771362305  
Episode 989: Time: 0.035033226013183594, Total Reward: 25.31860534443616, Q Loss: 16.01862668991089, Actor Loss: -44.34251880645752  
Episode 990: Time: 0.026297569274902344, Total Reward: 16.825001737752547, Q Loss: 10.744718790054321, Actor Loss: -30.386152267456055  
Episode 991: Time: 0.026292085647583008, Total Reward: 16.89240847250154, Q Loss: 9.964011192321777, Actor Loss: -35.40454578399658  
Episode 992: Time: 0.03482317924499512, Total Reward: 25.22988673173763, Q Loss: 15.541315078735352, Actor Loss: -45.23357963562012  
Episode 993: Time: 0.03476905822753906, Total Reward: 25.15968149904265, Q Loss: 14.511504173278809, Actor Loss: -47.442172050476074  
Episode 994: Time: 0.03518533706665039, Total Reward: 25.338508895200498, Q Loss: 16.306551933288574, Actor Loss: -44.38507556915283  
Episode 995: Time: 0.026162147521972656, Total Reward: 16.827357262775905, Q Loss: 12.121992349624634, Actor Loss: -34.926902770996094  
Episode 996: Time: 0.03483176231384277, Total Reward: 25.707358178433143, Q Loss: 15.476263284683228, Actor Loss: -43.55327892303467  
Episode 997: Time: 0.03473615646362305, Total Reward: 25.270527369182222, Q Loss: 14.661232948303223, Actor Loss: -45.25107288360596  
Episode 998: Time: 0.03488039970397949, Total Reward: 25.274992377826923, Q Loss: 14.079719543457031, Actor Loss: -45.78525638580322

Episode 999: Time: 0.03474116325378418, Total Reward: 25.365866769037893, Q Loss: 14.843821287155151, Actor Loss: -41.40872859954834  
Validation Mean: 21.321420685759325, Validation Std: 4.180266056352206  
saving model  
Episode 1000: Time: 0.0264585018157959, Total Reward: 16.950266509653233, Q Loss: 9.711998701095581, Actor Loss: -35.25803565979004  
Episode 1001: Time: 0.03486990928649902, Total Reward: 26.22723203199654, Q Loss: 11.887871861457825, Actor Loss: -47.825599670410156  
Episode 1002: Time: 0.02630472183227539, Total Reward: 16.90471109812937, Q Loss: 9.725477695465088, Actor Loss: -36.68214702606201  
Episode 1003: Time: 0.03520774841308594, Total Reward: 25.80420634679417, Q Loss: 14.115695238113403, Actor Loss: -45.89804744720459  
Episode 1004: Time: 0.02684497833251953, Total Reward: 16.912446117487562, Q Loss: 10.926204919815063, Actor Loss: -34.349589347839355  
Episode 1005: Time: 0.03487539291381836, Total Reward: 25.17688036704866, Q Loss: 12.484917640686035, Actor Loss: -47.65079975128174  
Episode 1006: Time: 0.02663278579711914, Total Reward: 16.908493055574684, Q Loss: 8.843478918075562, Actor Loss: -34.61931037902832  
Episode 1007: Time: 0.03495526313781738, Total Reward: 25.43929864740139, Q Loss: 15.686672449111938, Actor Loss: -46.33220672607422  
Episode 1008: Time: 0.03492593765258789, Total Reward: 25.68727885842572, Q Loss: 14.94804072380066, Actor Loss: -47.91346740722656  
Episode 1009: Time: 0.02623462677001953, Total Reward: 16.92291613763106, Q Loss: 10.82707405090332, Actor Loss: -31.935270309448242  
Episode 1010: Time: 0.03487992286682129, Total Reward: 26.043293289900866, Q Loss: 15.644111633300781, Actor Loss: -44.56095600128174  
Episode 1011: Time: 0.03471732139587402, Total Reward: 26.013867980103882, Q Loss: 13.0906503200531, Actor Loss: -47.19157600402832  
Episode 1012: Time: 0.03631305694580078, Total Reward: 26.116451376724584, Q Loss: 17.9001727104187, Actor Loss: -44.532071113586426  
Episode 1013: Time: 0.05353736877441406, Total Reward: 35.529724541012385, Q Loss: 15.537642002105713, Actor Loss: -55.69071960449219  
Episode 1014: Time: 0.042861223220825195, Total Reward: 26.021208890873314, Q Loss: 15.440346956253052, Actor Loss: -48.816344261169434  
Episode 1015: Time: 0.11733245849609375, Total Reward: 91.36254543587592, Q Loss: 39.85314464569092, Actor Loss: -124.65470027923584  
Episode 1016: Time: 0.12538719177246094, Total Reward: 100.86775903873908, Q Loss: 46.34223389625549, Actor Loss: -153.287428855896  
Episode 1017: Time: 0.04329061508178711, Total Reward: 35.20195783912084, Q Loss: 18.386343717575073, Actor Loss: -59.90943241119385  
Episode 1018: Time: 0.05245351791381836, Total Reward: 44.387573319679774, Q Loss: 23.614294052124023, Actor Loss: -69.28785133361816  
Episode 1019: Time: 0.03474903106689453, Total Reward: 25.89003594599552, Q Loss: 15.551283359527588, Actor Loss: -52.9082145690918  
Episode 1020: Time: 0.043328285217285156, Total Reward: 34.74679967920803, Q Loss: 23.819412231445312, Actor Loss: -58.63241386413574  
Episode 1021: Time: 0.034881591796875, Total Reward: 26.177461199803215, Q Loss: 17.171184539794922, Actor Loss: -49.56575965881348  
Episode 1022: Time: 0.03452324867248535, Total Reward: 26.28582464748734, Q Loss: 18.722023487091064, Actor Loss: -48.73817157745361  
Episode 1023: Time: 0.043387651443481445, Total Reward: 35.18654908260125, Q Loss: 17.82985019683838, Actor Loss: -60.11417770385742  
Episode 1024: Time: 0.0351254940032959, Total Reward: 25.768545751016052, Q Loss: 16.561599731445312, Actor Loss: -53.04126262664795  
Episode 1025: Time: 0.03466296195983887, Total Reward: 25.933470814506197, Q Loss: 16.868963479995728, Actor Loss: -47.2289457321167

Episode 1026: Time: 0.02614903450012207, Total Reward: 16.970246355185093, Q Loss: 9.28496265411377, Actor Loss: -35.516953468322754  
Episode 1027: Time: 0.03473210334777832, Total Reward: 25.718176751786476, Q Loss: 18.880152940750122, Actor Loss: -50.25180244445801  
Episode 1028: Time: 0.0346226692199707, Total Reward: 25.093515026023436, Q Loss: 18.408689975738525, Actor Loss: -46.527835845947266  
Episode 1029: Time: 0.03468608856201172, Total Reward: 25.294559708992644, Q Loss: 17.2342689037323, Actor Loss: -48.710429191589355  
Episode 1030: Time: 0.02605581283569336, Total Reward: 16.967288012866508, Q Loss: 11.263639688491821, Actor Loss: -34.92661094665527  
Episode 1031: Time: 0.03528714179992676, Total Reward: 25.688138762673304, Q Loss: 14.99200701713562, Actor Loss: -50.41922378540039  
Episode 1032: Time: 0.03452014923095703, Total Reward: 26.032521944116098, Q Loss: 17.28881549835205, Actor Loss: -51.36327648162842  
Episode 1033: Time: 0.034659385681152344, Total Reward: 25.53289188212394, Q Loss: 16.597223043441772, Actor Loss: -45.88290596008301  
Episode 1034: Time: 0.03451895713806152, Total Reward: 26.04681324896023, Q Loss: 17.095889806747437, Actor Loss: -49.87754726409912  
Episode 1035: Time: 0.03452897071838379, Total Reward: 25.80642890880126, Q Loss: 15.729511737823486, Actor Loss: -48.30164813995361  
Episode 1036: Time: 0.034705162048339844, Total Reward: 25.29200803343666, Q Loss: 17.36150884628296, Actor Loss: -52.614455223083496  
Episode 1037: Time: 0.03502535820007324, Total Reward: 25.507611252996274, Q Loss: 21.087099075317383, Actor Loss: -55.35583019256592  
Episode 1038: Time: 0.03481006622314453, Total Reward: 25.319156272670963, Q Loss: 16.288877248764038, Actor Loss: -47.20340156555176  
Episode 1039: Time: 0.03475141525268555, Total Reward: 26.038005023692293, Q Loss: 22.492769241333008, Actor Loss: -45.22638130187988  
Episode 1040: Time: 0.034642934799194336, Total Reward: 25.689428520149217, Q Loss: 18.85664987564087, Actor Loss: -53.75496864318848  
Episode 1041: Time: 0.026051044464111328, Total Reward: 16.94433061223548, Q Loss: 15.121099948883057, Actor Loss: -37.41999435424805  
Episode 1042: Time: 0.034644365310668945, Total Reward: 26.02618647119092, Q Loss: 16.511305332183838, Actor Loss: -46.169718742370605  
Episode 1043: Time: 0.03509688377380371, Total Reward: 25.758124557720034, Q Loss: 16.67633628845215, Actor Loss: -50.96900272369385  
Episode 1044: Time: 0.03472423553466797, Total Reward: 25.481386224816042, Q Loss: 14.028652429580688, Actor Loss: -49.36738395690918  
Episode 1045: Time: 0.03464221954345703, Total Reward: 25.345671030306377, Q Loss: 17.802629709243774, Actor Loss: -49.2611780166626  
Episode 1046: Time: 0.03454160690307617, Total Reward: 25.33667364925526, Q Loss: 18.9437997341156, Actor Loss: -53.24105262756348  
Episode 1047: Time: 0.03475499153137207, Total Reward: 25.87675155618232, Q Loss: 14.059451341629028, Actor Loss: -49.9575080871582  
Episode 1048: Time: 0.034491777420043945, Total Reward: 25.390973654499955, Q Loss: 17.284488201141357, Actor Loss: -45.76541805267334  
Episode 1049: Time: 0.03496980667114258, Total Reward: 25.49570692984185, Q Loss: 15.504639863967896, Actor Loss: -48.81034755706787  
Episode 1050: Time: 0.034578561782836914, Total Reward: 25.73425563163747, Q Loss: 12.684855937957764, Actor Loss: -44.98164176940918  
Episode 1051: Time: 0.026021957397460938, Total Reward: 16.73864371683587, Q Loss: 11.209347248077393, Actor Loss: -38.20112323760986  
Episode 1052: Time: 0.0347442626953125, Total Reward: 25.35541426778012, Q Loss: 16.064043045043945, Actor Loss: -54.000956535339355  
Episode 1053: Time: 0.034616947174072266, Total Reward: 25.571525776866032, Q Loss: 16.737099170684814, Actor Loss: -50.58169937133789

Episode 1054: Time: 0.03473520278930664, Total Reward: 25.203896822713475, Q Loss: 16.25115704536438, Actor Loss: -46.180484771728516  
Episode 1055: Time: 0.03489947319030762, Total Reward: 25.53318235380427, Q Loss: 15.791046857833862, Actor Loss: -47.03909873962402  
Episode 1056: Time: 0.03473091125488281, Total Reward: 26.298075585413546, Q Loss: 12.371453523635864, Actor Loss: -44.64197254180908  
Episode 1057: Time: 0.026017427444458008, Total Reward: 17.01771127191658, Q Loss: 10.569488763809204, Actor Loss: -36.16306686401367  
Episode 1058: Time: 0.02605915069580078, Total Reward: 16.937539688234725, Q Loss: 14.643279552459717, Actor Loss: -37.43346118927002  
Episode 1059: Time: 0.034606218338012695, Total Reward: 25.31504477708234, Q Loss: 15.974661111831665, Actor Loss: -51.38888168334961  
Episode 1060: Time: 0.034621238708496094, Total Reward: 25.229164754941003, Q Loss: 16.5548038482666, Actor Loss: -46.2670202255249  
Episode 1061: Time: 0.03461313247680664, Total Reward: 25.672131012768972, Q Loss: 13.962799072265625, Actor Loss: -48.453636169433594  
Episode 1062: Time: 0.035236358642578125, Total Reward: 25.722290630313594, Q Loss: 15.947871446609497, Actor Loss: -46.990882873535156  
Episode 1063: Time: 0.026401996612548828, Total Reward: 16.933591725514795, Q Loss: 12.173808097839355, Actor Loss: -37.227803230285645  
Episode 1064: Time: 0.03485465049743652, Total Reward: 25.280893173096462, Q Loss: 17.341997623443604, Actor Loss: -48.689048767089844  
Episode 1065: Time: 0.02635931968688965, Total Reward: 16.920514029391512, Q Loss: 12.522003173828125, Actor Loss: -36.91270732879639  
Episode 1066: Time: 0.034857988357543945, Total Reward: 25.768346049656504, Q Loss: 16.705145835876465, Actor Loss: -53.086039543151855  
Episode 1067: Time: 0.04343438148498535, Total Reward: 34.83136239296685, Q Loss: 23.664097785949707, Actor Loss: -61.80654811859131  
Episode 1068: Time: 0.03510403633117676, Total Reward: 25.235187917675024, Q Loss: 19.585871934890747, Actor Loss: -48.995314598083496  
Episode 1069: Time: 0.034584999084472656, Total Reward: 25.405129249855847, Q Loss: 16.13313937187195, Actor Loss: -47.894731521606445  
Episode 1070: Time: 0.026079893112182617, Total Reward: 16.964412022312146, Q Loss: 12.685867071151733, Actor Loss: -39.8900671005249  
Episode 1071: Time: 0.034665822982788086, Total Reward: 25.28635037339152, Q Loss: 16.706969261169434, Actor Loss: -48.88500118255615  
Episode 1072: Time: 0.02615070343017578, Total Reward: 16.898284777340017, Q Loss: 8.827274799346924, Actor Loss: -37.0613317489624  
Episode 1073: Time: 0.03470897674560547, Total Reward: 25.25200519596724, Q Loss: 16.83511447906494, Actor Loss: -42.950374603271484  
Episode 1074: Time: 0.03495025634765625, Total Reward: 26.27375009619659, Q Loss: 16.999257802963257, Actor Loss: -47.57771396636963  
Episode 1075: Time: 0.026685476303100586, Total Reward: 16.904060872132433, Q Loss: 12.826081991195679, Actor Loss: -37.748788833618164  
Episode 1076: Time: 0.03495526313781738, Total Reward: 25.22560415014676, Q Loss: 16.619059085845947, Actor Loss: -48.34885025024414  
Episode 1077: Time: 0.03466057777404785, Total Reward: 25.192014304383797, Q Loss: 11.245951414108276, Actor Loss: -48.6803503036499  
Episode 1078: Time: 0.026081562042236328, Total Reward: 16.980723750800244, Q Loss: 13.854733228683472, Actor Loss: -37.27426242828369  
Episode 1079: Time: 0.03471207618713379, Total Reward: 25.700593104144193, Q Loss: 18.966959714889526, Actor Loss: -48.082027435302734  
Episode 1080: Time: 0.03461027145385742, Total Reward: 25.584941261398406, Q Loss: 14.520175457000732, Actor Loss: -45.54335594177246  
Episode 1081: Time: 0.0350801944732666, Total Reward: 26.051176938314065, Q Loss: 13.47705364227295, Actor Loss: -46.606122970581055

Episode 1082: Time: 0.03603005409240723, Total Reward: 25.428658847498284, Q Loss: 16.972982168197632, Actor Loss: -53.80610275268555  
Episode 1083: Time: 0.03483891487121582, Total Reward: 25.305863113414294, Q Loss: 15.838952779769897, Actor Loss: -47.593111991882324  
Episode 1084: Time: 0.03464341163635254, Total Reward: 25.970348307818952, Q Loss: 14.416074752807617, Actor Loss: -48.77495765686035  
Episode 1085: Time: 0.03470206260681152, Total Reward: 25.305090834466323, Q Loss: 20.877695083618164, Actor Loss: -49.13420009613037  
Episode 1086: Time: 0.026135683059692383, Total Reward: 16.939111010982977, Q Loss: 13.910122394561768, Actor Loss: -41.67720985412598  
Episode 1087: Time: 0.04364418983459473, Total Reward: 35.42076148266973, Q Loss: 24.967737674713135, Actor Loss: -62.171175956726074  
Episode 1088: Time: 0.043201446533203125, Total Reward: 34.89210707886366, Q Loss: 19.10701632499695, Actor Loss: -58.7014799118042  
Episode 1089: Time: 0.03492307662963867, Total Reward: 25.552685720446647, Q Loss: 20.078172206878662, Actor Loss: -54.183298110961914  
Episode 1090: Time: 0.04314923286437988, Total Reward: 35.28105124668627, Q Loss: 22.400246620178223, Actor Loss: -61.22746181488037  
Episode 1091: Time: 0.02611994743347168, Total Reward: 16.885351300398707, Q Loss: 14.06870985031128, Actor Loss: -38.477317810058594  
Episode 1092: Time: 0.03466463088989258, Total Reward: 25.248872809220284, Q Loss: 20.54304599761963, Actor Loss: -47.58008861541748  
Episode 1093: Time: 0.035025596618652344, Total Reward: 26.30968152436413, Q Loss: 20.198735237121582, Actor Loss: -53.51764488220215  
Episode 1094: Time: 0.034703969955444336, Total Reward: 25.40932422761, Q Loss: 18.062324047088623, Actor Loss: -48.0059814453125  
Episode 1095: Time: 0.03473687171936035, Total Reward: 25.402394163730488, Q Loss: 15.030560970306396, Actor Loss: -52.79187202453613  
Episode 1096: Time: 0.026124954223632812, Total Reward: 16.847879430721868, Q Loss: 16.585752964019775, Actor Loss: -36.54293441772461  
Episode 1097: Time: 0.03463888168334961, Total Reward: 26.076008511668796, Q Loss: 15.463438510894775, Actor Loss: -52.34123611450195  
Episode 1098: Time: 0.034792423248291016, Total Reward: 25.317213948034478, Q Loss: 18.55421781539917, Actor Loss: -47.388922691345215  
Episode 1099: Time: 0.0263216495513916, Total Reward: 17.014164139759874, Q Loss: 12.450545072555542, Actor Loss: -33.17579460144043  
Validation Mean: 21.580763434946178, Validation Std: 4.1623385218559585  
saving model  
Episode 1100: Time: 0.03491568565368652, Total Reward: 25.542806450717702, Q Loss: 14.657938241958618, Actor Loss: -49.565863609313965  
Episode 1101: Time: 0.026220321655273438, Total Reward: 16.878696167501044, Q Loss: 13.04254961013794, Actor Loss: -39.056227684020996  
Episode 1102: Time: 0.03482627868652344, Total Reward: 25.551855610539572, Q Loss: 16.094496488571167, Actor Loss: -47.58096408843994  
Episode 1103: Time: 0.026146888732910156, Total Reward: 16.943076812980845, Q Loss: 12.452118635177612, Actor Loss: -37.529892921447754  
Episode 1104: Time: 0.026072978973388672, Total Reward: 17.038663041858403, Q Loss: 16.733752250671387, Actor Loss: -34.69372844696045  
Episode 1105: Time: 0.03467702865600586, Total Reward: 25.10161595898958, Q Loss: 15.51746940612793, Actor Loss: -45.514424324035645  
Episode 1106: Time: 0.035305023193359375, Total Reward: 25.8062302148499, Q Loss: 18.732422351837158, Actor Loss: -50.13645076751709  
Episode 1107: Time: 0.03459525108337402, Total Reward: 25.60066374156739, Q Loss: 20.69092035293579, Actor Loss: -45.608747482299805  
Episode 1108: Time: 0.03470873832702637, Total Reward: 26.18144296349715, Q Loss: 18.61070442199707, Actor Loss: -45.291348457336426



Episode 1109: Time: 0.03469347953796387, Total Reward: 25.26332882035485, Q Loss: 19.396801710128784, Actor Loss: -54.96853160858154  
Episode 1110: Time: 0.026231050491333008, Total Reward: 16.889730283528106, Q Loss: 10.5744309425354, Actor Loss: -35.129066467285156  
Episode 1111: Time: 0.034731149673461914, Total Reward: 25.272402297568267, Q Loss: 17.881397247314453, Actor Loss: -46.78495979309082  
Episode 1112: Time: 0.02611684799194336, Total Reward: 16.876075381352006, Q Loss: 13.7709379196167, Actor Loss: -37.70024394989014  
Episode 1113: Time: 0.03528642654418945, Total Reward: 25.76269737700257, Q Loss: 17.195058584213257, Actor Loss: -50.60465717315674  
Episode 1114: Time: 0.03486061096191406, Total Reward: 25.671807942093682, Q Loss: 23.067652225494385, Actor Loss: -46.99634838104248  
Episode 1115: Time: 0.034859657287597656, Total Reward: 25.73876545574652, Q Loss: 14.792264699935913, Actor Loss: -44.89366340637207  
Episode 1116: Time: 0.03467559814453125, Total Reward: 26.211205929467624, Q Loss: 16.233717918395996, Actor Loss: -44.259063720703125  
Episode 1117: Time: 0.03471183776855469, Total Reward: 25.368876650911112, Q Loss: 15.128898620605469, Actor Loss: -47.494436264038086  
Episode 1118: Time: 0.034835100173950195, Total Reward: 25.12527194616922, Q Loss: 18.693034172058105, Actor Loss: -49.47617435455322  
Episode 1119: Time: 0.035106658935546875, Total Reward: 25.6893084297443, Q Loss: 15.977132558822632, Actor Loss: -52.7988395690918  
Episode 1120: Time: 0.026259422302246094, Total Reward: 16.90999621980472, Q Loss: 13.617920398712158, Actor Loss: -38.34458827972412  
Episode 1121: Time: 0.034737586975097656, Total Reward: 25.8373718978179, Q Loss: 18.05980086326599, Actor Loss: -50.725046157836914  
Episode 1122: Time: 0.03475356101989746, Total Reward: 25.306564152967173, Q Loss: 18.46387529373169, Actor Loss: -51.78500270843506  
Episode 1123: Time: 0.03487277030944824, Total Reward: 25.393634965072618, Q Loss: 22.808515548706055, Actor Loss: -48.893534660339355  
Episode 1124: Time: 0.03468775749206543, Total Reward: 25.8943219288798, Q Loss: 17.643425703048706, Actor Loss: -48.19253349304199  
Episode 1125: Time: 0.035143375396728516, Total Reward: 25.322864438433985, Q Loss: 19.337472200393677, Actor Loss: -47.95828437805176  
Episode 1126: Time: 0.02610945701599121, Total Reward: 16.78328093801172, Q Loss: 13.752985954284668, Actor Loss: -31.168339729309082  
Episode 1127: Time: 0.03523850440979004, Total Reward: 25.646646917060657, Q Loss: 21.22385263442993, Actor Loss: -49.85699653625488  
Episode 1128: Time: 0.034967899322509766, Total Reward: 26.063139002780556, Q Loss: 23.18427085876465, Actor Loss: -47.151784896850586  
Episode 1129: Time: 0.026175260543823242, Total Reward: 16.811845601627162, Q Loss: 11.718497276306152, Actor Loss: -38.42622470855713  
Episode 1130: Time: 0.03486514091491699, Total Reward: 25.26168930465711, Q Loss: 17.22008752822876, Actor Loss: -45.49914741516113  
Episode 1131: Time: 0.034644126892089844, Total Reward: 25.620912745064064, Q Loss: 20.192815899848938, Actor Loss: -48.80029582977295  
Episode 1132: Time: 0.02658390998840332, Total Reward: 16.90045443366865, Q Loss: 10.286570072174072, Actor Loss: -38.41360282897949  
Episode 1133: Time: 0.034827470779418945, Total Reward: 25.577272736414198, Q Loss: 19.39636492729187, Actor Loss: -47.976430892944336  
Episode 1134: Time: 0.03472185134887695, Total Reward: 25.59727262552846, Q Loss: 21.124512434005737, Actor Loss: -52.998414039611816  
Episode 1135: Time: 0.034835100173950195, Total Reward: 25.506377437293107, Q Loss: 12.713719844818115, Actor Loss: -44.27833652496338  
Episode 1136: Time: 0.03476309776306152, Total Reward: 25.234926699194585, Q Loss: 21.45097255706787, Actor Loss: -44.560391426086426

Episode 1137: Time: 0.03477644920349121, Total Reward: 25.485561779165806, Q Loss: 22.221351146697998, Actor Loss: -46.75585079193115  
Episode 1138: Time: 0.03511667251586914, Total Reward: 25.268449176792654, Q Loss: 17.603365898132324, Actor Loss: -45.50863742828369  
Episode 1139: Time: 0.034769535064697266, Total Reward: 25.3596972761371, Q Loss: 21.942896842956543, Actor Loss: -52.064913749694824  
Episode 1140: Time: 0.03499269485473633, Total Reward: 25.700161002354164, Q Loss: 18.133558988571167, Actor Loss: -47.65252113342285  
Episode 1141: Time: 0.03476309776306152, Total Reward: 25.299828689390257, Q Loss: 19.587578296661377, Actor Loss: -50.06305408477783  
Episode 1142: Time: 0.026177406311035156, Total Reward: 16.855490083124824, Q Loss: 13.710079669952393, Actor Loss: -36.945823669433594  
Episode 1143: Time: 0.02610492706298828, Total Reward: 16.891999438455006, Q Loss: 14.588298559188843, Actor Loss: -35.98533248901367  
Episode 1144: Time: 0.03457784652709961, Total Reward: 25.766197577710365, Q Loss: 19.65785264968872, Actor Loss: -49.18021869659424  
Episode 1145: Time: 0.03524017333984375, Total Reward: 25.371225643092544, Q Loss: 17.04360032081604, Actor Loss: -49.97086143493652  
Episode 1146: Time: 0.034920692443847656, Total Reward: 25.79670442411341, Q Loss: 16.31387996673584, Actor Loss: -46.692975997924805  
Episode 1147: Time: 0.03494834899902344, Total Reward: 25.27849645287664, Q Loss: 15.916895151138306, Actor Loss: -51.909939765930176  
Episode 1148: Time: 0.03488492965698242, Total Reward: 25.51109780606846, Q Loss: 16.014243841171265, Actor Loss: -50.00327491760254  
Episode 1149: Time: 0.043440818786621094, Total Reward: 35.057483693148974, Q Loss: 20.13775944709778, Actor Loss: -58.50751304626465  
Episode 1150: Time: 0.03500103950500488, Total Reward: 25.244756883732542, Q Loss: 20.019824028015137, Actor Loss: -51.46101379394531  
Episode 1151: Time: 0.035134315490722656, Total Reward: 25.49086232373932, Q Loss: 25.803755283355713, Actor Loss: -53.56164741516113  
Episode 1152: Time: 0.03492164611816406, Total Reward: 25.55735151081585, Q Loss: 16.597671031951904, Actor Loss: -51.88716983795166  
Episode 1153: Time: 0.035144805908203125, Total Reward: 25.255802231910778, Q Loss: 19.68092966079712, Actor Loss: -48.00870418548584  
Episode 1154: Time: 0.03496503829956055, Total Reward: 25.504591171646528, Q Loss: 16.91105604171753, Actor Loss: -50.473609924316406  
Episode 1155: Time: 0.035125732421875, Total Reward: 25.48810696466616, Q Loss: 16.51044726371765, Actor Loss: -46.52969837188721  
Episode 1156: Time: 0.03513479232788086, Total Reward: 25.15528742383935, Q Loss: 15.91681432723999, Actor Loss: -46.605974197387695  
Episode 1157: Time: 0.026604175567626953, Total Reward: 16.944587573881414, Q Loss: 14.17118215560913, Actor Loss: -37.68189334869385  
Episode 1158: Time: 0.035138845443725586, Total Reward: 25.209908689665237, Q Loss: 23.866080284118652, Actor Loss: -45.143073081970215  
Episode 1159: Time: 0.0263521671295166, Total Reward: 16.794322718212065, Q Loss: 10.40236747264862, Actor Loss: -35.354990005493164  
Episode 1160: Time: 0.03510689735412598, Total Reward: 25.275563319333997, Q Loss: 22.739813327789307, Actor Loss: -51.88807964324951  
Episode 1161: Time: 0.026444435119628906, Total Reward: 16.969538107186803, Q Loss: 13.806055545806885, Actor Loss: -36.995161056518555  
Episode 1162: Time: 0.035111427307128906, Total Reward: 25.830931805587674, Q Loss: 19.812483310699463, Actor Loss: -50.332956314086914  
Episode 1163: Time: 0.03509354591369629, Total Reward: 25.54284906579509, Q Loss: 19.710225582122803, Actor Loss: -48.6633243560791  
Episode 1164: Time: 0.03549075126647949, Total Reward: 25.208093690038012, Q Loss: 18.77228856086731, Actor Loss: -46.277469635009766

Episode 1165: Time: 0.026350975036621094, Total Reward: 16.963781614525786, Q Loss: 11.589369058609009, Actor Loss: -36.647708892822266  
Episode 1166: Time: 0.03506898880004883, Total Reward: 25.29954732199087, Q Loss: 19.492038011550903, Actor Loss: -48.90393352508545  
Episode 1167: Time: 0.035069942474365234, Total Reward: 25.849253602848933, Q Loss: 16.91301202774048, Actor Loss: -47.27488136291504  
Episode 1168: Time: 0.026485681533813477, Total Reward: 16.940648398901786, Q Loss: 10.951663494110107, Actor Loss: -37.88270854949951  
Episode 1169: Time: 0.03563809394836426, Total Reward: 25.19431375022304, Q Loss: 16.479518175125122, Actor Loss: -47.48701190948486  
Episode 1170: Time: 0.035063743591308594, Total Reward: 25.64685742854606, Q Loss: 16.915731191635132, Actor Loss: -45.43431377410889  
Episode 1171: Time: 0.03552103042602539, Total Reward: 25.539764974131653, Q Loss: 17.18308162689209, Actor Loss: -46.22913360595703  
Episode 1172: Time: 0.03521919250488281, Total Reward: 25.278915200012158, Q Loss: 18.615259408950806, Actor Loss: -51.30037498474121  
Episode 1173: Time: 0.035150766372680664, Total Reward: 25.327002206661856, Q Loss: 15.646241664886475, Actor Loss: -47.680317878723145  
Episode 1174: Time: 0.03503584861755371, Total Reward: 25.452616731820612, Q Loss: 15.721209049224854, Actor Loss: -49.577674865722656  
Episode 1175: Time: 0.02646017074584961, Total Reward: 16.888326836558903, Q Loss: 14.041260004043579, Actor Loss: -33.000404357910156  
Episode 1176: Time: 0.03500056266784668, Total Reward: 25.431376392570147, Q Loss: 21.133048057556152, Actor Loss: -51.188918113708496  
Episode 1177: Time: 0.0355377197265625, Total Reward: 25.397653843932726, Q Loss: 17.604925394058228, Actor Loss: -47.79037284851074  
Episode 1178: Time: 0.02653336524963379, Total Reward: 16.958186309077586, Q Loss: 12.15792989730835, Actor Loss: -32.377169609069824  
Episode 1179: Time: 0.03514504432678223, Total Reward: 25.17333117857526, Q Loss: 15.885662078857422, Actor Loss: -50.50743579864502  
Episode 1180: Time: 0.02639937400817871, Total Reward: 16.857120354943742, Q Loss: 14.07569932937622, Actor Loss: -37.920494079589844  
Episode 1181: Time: 0.035100460052490234, Total Reward: 25.293383801029847, Q Loss: 15.881121635437012, Actor Loss: -46.49641704559326  
Episode 1182: Time: 0.035083770751953125, Total Reward: 25.60945467387437, Q Loss: 16.168529748916626, Actor Loss: -46.51692199707031  
Episode 1183: Time: 0.035048723220825195, Total Reward: 25.302761397905087, Q Loss: 16.918036460876465, Actor Loss: -48.90056610107422  
Episode 1184: Time: 0.02694535255432129, Total Reward: 16.90182451021727, Q Loss: 14.598103046417236, Actor Loss: -36.69938659667969  
Episode 1185: Time: 0.03518414497375488, Total Reward: 25.311788234558396, Q Loss: 19.24409294128418, Actor Loss: -52.726152420043945  
Episode 1186: Time: 0.03518104553222656, Total Reward: 25.37711259074968, Q Loss: 19.85210371017456, Actor Loss: -48.09408950805664  
Episode 1187: Time: 0.035117387771606445, Total Reward: 25.83877724274661, Q Loss: 20.255135536193848, Actor Loss: -45.33632278442383  
Episode 1188: Time: 0.035214900970458984, Total Reward: 25.218952330132545, Q Loss: 19.92588758468628, Actor Loss: -51.61735248565674  
Episode 1189: Time: 0.035228729248046875, Total Reward: 25.213738051677865, Q Loss: 21.424312591552734, Actor Loss: -53.408775329589844  
Episode 1190: Time: 0.027019023895263672, Total Reward: 16.778756185741184, Q Loss: 16.121398448944092, Actor Loss: -36.55919170379639  
Episode 1191: Time: 0.03550291061401367, Total Reward: 25.97711833701069, Q Loss: 23.29899311065674, Actor Loss: -50.392032623291016  
Episode 1192: Time: 0.03514385223388672, Total Reward: 26.228882820420687, Q Loss: 21.917510509490967, Actor Loss: -46.19864749908447

Episode 1193: Time: 0.02698063850402832, Total Reward: 16.882378247962173, Q Loss: 18.395031929016113, Actor Loss: -35.232380867004395  
Episode 1194: Time: 0.035634517669677734, Total Reward: 25.27748733248091, Q Loss: 20.092790126800537, Actor Loss: -53.267988204956055  
Episode 1195: Time: 0.035392045974731445, Total Reward: 25.987116040183455, Q Loss: 24.135409832000732, Actor Loss: -47.94626712799072  
Episode 1196: Time: 0.03580522537231445, Total Reward: 25.42513269215138, Q Loss: 22.423445224761963, Actor Loss: -50.25685977935791  
Episode 1197: Time: 0.03531193733215332, Total Reward: 25.215753974563192, Q Loss: 19.323561668395996, Actor Loss: -47.75708198547363  
Episode 1198: Time: 0.03533005714416504, Total Reward: 25.60677116875046, Q Loss: 19.05012035369873, Actor Loss: -49.04716968536377  
Episode 1199: Time: 0.035260677337646484, Total Reward: 25.248206201162024, Q Loss: 16.16791009902954, Actor Loss: -49.80820655822754  
Validation Mean: 21.06701463308918, Validation Std: 4.173917073718467  
saving model  
Episode 1200: Time: 0.02695322036743164, Total Reward: 16.92805213826799, Q Loss: 15.73248815536499, Actor Loss: -32.908183097839355  
Episode 1201: Time: 0.03531670570373535, Total Reward: 25.61759527103988, Q Loss: 21.182037830352783, Actor Loss: -48.7114315032959  
Episode 1202: Time: 0.03534126281738281, Total Reward: 25.47420508063695, Q Loss: 20.73838710784912, Actor Loss: -50.9638671875  
Episode 1203: Time: 0.04407143592834473, Total Reward: 34.96824578114632, Q Loss: 27.57524013519287, Actor Loss: -62.3121280670166  
Episode 1204: Time: 0.035475730895996094, Total Reward: 25.330020212418237, Q Loss: 24.923422813415527, Actor Loss: -53.22439479827881  
Episode 1205: Time: 0.027252912521362305, Total Reward: 16.964861922137835, Q Loss: 14.052649974822998, Actor Loss: -34.6888370513916  
Episode 1206: Time: 0.035413265228271484, Total Reward: 25.799027460015523, Q Loss: 20.411987781524658, Actor Loss: -48.9739351272583  
Episode 1207: Time: 0.03577566146850586, Total Reward: 25.389536554164476, Q Loss: 24.082425594329834, Actor Loss: -45.899362564086914  
Episode 1208: Time: 0.03557300567626953, Total Reward: 25.329925089587547, Q Loss: 20.622373580932617, Actor Loss: -46.56261730194092  
Episode 1209: Time: 0.03549313545227051, Total Reward: 25.419124433275748, Q Loss: 23.43235683441162, Actor Loss: -54.513526916503906  
Episode 1210: Time: 0.026863574981689453, Total Reward: 16.97017088424747, Q Loss: 17.770498752593994, Actor Loss: -35.57571029663086  
Episode 1211: Time: 0.035848140716552734, Total Reward: 25.24185373427698, Q Loss: 19.483519792556763, Actor Loss: -44.38455295562744  
Episode 1212: Time: 0.03843879699707031, Total Reward: 25.601813849875075, Q Loss: 22.529420375823975, Actor Loss: -46.7120885848999  
Episode 1213: Time: 0.03545784950256348, Total Reward: 25.39167760873902, Q Loss: 22.12884283065796, Actor Loss: -48.79980182647705  
Episode 1214: Time: 0.03548288345336914, Total Reward: 25.123926946418006, Q Loss: 22.119460105895996, Actor Loss: -48.53225040435791  
Episode 1215: Time: 0.02661871910095215, Total Reward: 16.910614531150383, Q Loss: 12.456220388412476, Actor Loss: -36.4783935546875  
Episode 1216: Time: 0.03542733192443848, Total Reward: 25.511319357365114, Q Loss: 19.507750749588013, Actor Loss: -48.13304424285889  
Episode 1217: Time: 0.035809993743896484, Total Reward: 25.292562748678733, Q Loss: 20.97309970855713, Actor Loss: -48.378082275390625  
Episode 1218: Time: 0.02670741081237793, Total Reward: 16.92820804505557, Q Loss: 20.350094318389893, Actor Loss: -34.86301326751709  
Episode 1219: Time: 0.026897907257080078, Total Reward: 16.92659352879796, Q Loss: 15.03880500793457, Actor Loss: -39.37897872924805

Episode 1220: Time: 0.04105782508850098, Total Reward: 25.662497358097163, Q Loss: 17.928704261779785, Actor Loss: -50.51516246795654  
Episode 1221: Time: 0.043079376220703125, Total Reward: 25.212395396965288, Q Loss: 21.019712924957275, Actor Loss: -51.36182689666748  
Episode 1222: Time: 0.026907920837402344, Total Reward: 16.917167178370498, Q Loss: 12.833111047744751, Actor Loss: -35.45527458190918  
Episode 1223: Time: 0.026691198348999023, Total Reward: 16.96875436190906, Q Loss: 11.600507259368896, Actor Loss: -37.016737937927246  
Episode 1224: Time: 0.035971641540527344, Total Reward: 25.223157958999018, Q Loss: 21.881126403808594, Actor Loss: -46.9923791885376  
Episode 1225: Time: 0.03531026840209961, Total Reward: 25.25416249624212, Q Loss: 20.028366088867188, Actor Loss: -50.60708999633789  
Episode 1226: Time: 0.026473045349121094, Total Reward: 16.940460961429856, Q Loss: 8.936824560165405, Actor Loss: -32.17896366119385  
Episode 1227: Time: 0.035227298736572266, Total Reward: 25.81285040179685, Q Loss: 18.248180866241455, Actor Loss: -45.22013187408447  
Episode 1228: Time: 0.035230398178100586, Total Reward: 25.339900436340848, Q Loss: 22.12789487838745, Actor Loss: -49.95945072174072  
Episode 1229: Time: 0.03507041931152344, Total Reward: 25.46649330014723, Q Loss: 14.876987934112549, Actor Loss: -43.68745231628418  
Episode 1230: Time: 0.03560066223144531, Total Reward: 25.66560953189181, Q Loss: 25.274359703063965, Actor Loss: -47.61851501464844  
Episode 1231: Time: 0.03514742851257324, Total Reward: 25.32837729244716, Q Loss: 24.725497245788574, Actor Loss: -55.43303966522217  
Episode 1232: Time: 0.026327133178710938, Total Reward: 16.920281869708454, Q Loss: 16.122138023376465, Actor Loss: -35.79072284698486  
Episode 1233: Time: 0.03511190414428711, Total Reward: 25.914533713545662, Q Loss: 22.936787843704224, Actor Loss: -53.633541107177734  
Episode 1234: Time: 0.035166263580322266, Total Reward: 25.49700046008902, Q Loss: 15.835263729095459, Actor Loss: -49.15790367126465  
Episode 1235: Time: 0.035089969635009766, Total Reward: 25.484629934962992, Q Loss: 20.549445390701294, Actor Loss: -51.16795253753662  
Episode 1236: Time: 0.035264015197753906, Total Reward: 25.387639535172905, Q Loss: 26.736146211624146, Actor Loss: -45.937973976135254  
Episode 1237: Time: 0.03510570526123047, Total Reward: 25.460970088081332, Q Loss: 18.343156814575195, Actor Loss: -46.62593746185303  
Episode 1238: Time: 0.026441574096679688, Total Reward: 16.863505113475654, Q Loss: 13.445688962936401, Actor Loss: -34.008100509643555  
Episode 1239: Time: 0.026330232620239258, Total Reward: 16.94583266038211, Q Loss: 12.181855201721191, Actor Loss: -36.7028226852417  
Episode 1240: Time: 0.0350499153137207, Total Reward: 25.89402420287218, Q Loss: 19.45216464996338, Actor Loss: -46.82443332672119  
Episode 1241: Time: 0.035112619400024414, Total Reward: 25.457304375422382, Q Loss: 23.876210689544678, Actor Loss: -51.24470806121826  
Episode 1242: Time: 0.03506183624267578, Total Reward: 25.491896992194167, Q Loss: 24.875349760055542, Actor Loss: -44.82640361785889  
Episode 1243: Time: 0.035918474197387695, Total Reward: 25.55524883313433, Q Loss: 22.42316699028015, Actor Loss: -47.23354721069336  
Episode 1244: Time: 0.02651357650756836, Total Reward: 16.9053828357552, Q Loss: 15.57699966430664, Actor Loss: -36.84884834289551  
Episode 1245: Time: 0.02631831169128418, Total Reward: 16.902172303686896, Q Loss: 18.03384828567505, Actor Loss: -36.425113677978516  
Episode 1246: Time: 0.03504228591918945, Total Reward: 25.905876827902127, Q Loss: 22.50733518600464, Actor Loss: -52.510863304138184  
Episode 1247: Time: 0.035047054290771484, Total Reward: 25.208348561580234, Q Loss: 16.947441577911377, Actor Loss: -46.70221424102783

Episode 1248: Time: 0.0351109504699707, Total Reward: 25.716277454215522, Q Loss: 20.549006938934326, Actor Loss: -49.962074279785156  
Episode 1249: Time: 0.026526212692260742, Total Reward: 16.796032502727968, Q Loss: 14.606911182403564, Actor Loss: -35.22027111053467  
Episode 1250: Time: 0.03994393348693848, Total Reward: 25.45026737342399, Q Loss: 21.13811683654785, Actor Loss: -47.72953796386719  
Episode 1251: Time: 0.03605532646179199, Total Reward: 25.246045513002617, Q Loss: 20.067143440246582, Actor Loss: -44.42191696166992  
Episode 1252: Time: 0.03551506996154785, Total Reward: 25.188141931908284, Q Loss: 18.456103086471558, Actor Loss: -48.39858436584473  
Episode 1253: Time: 0.03541159629821777, Total Reward: 25.830836368398227, Q Loss: 18.521531343460083, Actor Loss: -48.785831451416016  
Episode 1254: Time: 0.03523850440979004, Total Reward: 25.17010889685326, Q Loss: 18.90744924545288, Actor Loss: -47.7672643661499  
Episode 1255: Time: 0.026433467864990234, Total Reward: 16.85415562440366, Q Loss: 16.67034387588501, Actor Loss: -36.35977077484131  
Episode 1256: Time: 0.03575897216796875, Total Reward: 25.455577234842174, Q Loss: 17.969271183013916, Actor Loss: -47.97737503051758  
Episode 1257: Time: 0.03521847724914551, Total Reward: 25.55257223145232, Q Loss: 25.228538990020752, Actor Loss: -52.26682758331299  
Episode 1258: Time: 0.03531670570373535, Total Reward: 25.160389868659465, Q Loss: 19.14678955078125, Actor Loss: -46.37677192687988  
Episode 1259: Time: 0.02634406089782715, Total Reward: 16.911567554893036, Q Loss: 17.158133029937744, Actor Loss: -35.08413791656494  
Episode 1260: Time: 0.034989356994628906, Total Reward: 25.519533821285304, Q Loss: 17.512281894683838, Actor Loss: -46.99679946899414  
Episode 1261: Time: 0.02642059326171875, Total Reward: 16.87732167230783, Q Loss: 16.858963012695312, Actor Loss: -35.340572357177734  
Episode 1262: Time: 0.034941673278808594, Total Reward: 25.227701409324936, Q Loss: 23.2666974067688, Actor Loss: -46.631192207336426  
Episode 1263: Time: 0.0355839729309082, Total Reward: 25.57282815117322, Q Loss: 24.104553699493408, Actor Loss: -48.87284469604492  
Episode 1264: Time: 0.03513026237487793, Total Reward: 26.10871505959007, Q Loss: 24.1961669921875, Actor Loss: -49.1867151260376  
Episode 1265: Time: 0.026475906372070312, Total Reward: 16.931614152708736, Q Loss: 13.025770664215088, Actor Loss: -36.25448226928711  
Episode 1266: Time: 0.02640056610107422, Total Reward: 16.937533165213598, Q Loss: 15.35278868675232, Actor Loss: -35.42356204986572  
Episode 1267: Time: 0.03511524200439453, Total Reward: 25.513809387324738, Q Loss: 22.612860679626465, Actor Loss: -46.722289085388184  
Episode 1268: Time: 0.03507184982299805, Total Reward: 25.343549881580547, Q Loss: 18.094945907592773, Actor Loss: -47.577566146850586  
Episode 1269: Time: 0.026378870010375977, Total Reward: 16.95806487329151, Q Loss: 15.465337753295898, Actor Loss: -38.29545974731445  
Episode 1270: Time: 0.03588747978210449, Total Reward: 25.261485064251282, Q Loss: 15.352994680404663, Actor Loss: -49.197110176086426  
Episode 1271: Time: 0.026442527770996094, Total Reward: 16.952385808783962, Q Loss: 17.655380725860596, Actor Loss: -38.59839916229248  
Episode 1272: Time: 0.03515005111694336, Total Reward: 25.824186989249952, Q Loss: 15.625730276107788, Actor Loss: -45.32756042480469  
Episode 1273: Time: 0.03527545928955078, Total Reward: 25.57331176968989, Q Loss: 23.23338508605957, Actor Loss: -52.16635608673096  
Episode 1274: Time: 0.03514504432678223, Total Reward: 25.30855285235282, Q Loss: 16.71543836593628, Actor Loss: -46.417043685913086  
Episode 1275: Time: 0.03534889221191406, Total Reward: 25.323958544669267, Q Loss: 17.850565195083618, Actor Loss: -44.09417724609375

Episode 1276: Time: 0.03577780723571777, Total Reward: 25.727593264526348, Q Loss: 19.20396876335144, Actor Loss: -48.597755432128906  
Episode 1277: Time: 0.03512859344482422, Total Reward: 25.153233659500017, Q Loss: 16.509475469589233, Actor Loss: -43.58003330230713  
Episode 1278: Time: 0.035083770751953125, Total Reward: 25.256617718473866, Q Loss: 20.464592933654785, Actor Loss: -47.456708908081055  
Episode 1279: Time: 0.03524899482727051, Total Reward: 25.3770352657574, Q Loss: 20.404359579086304, Actor Loss: -49.791032791137695  
Episode 1280: Time: 0.03510642051696777, Total Reward: 25.298867039959227, Q Loss: 13.255802154541016, Actor Loss: -46.9556245803833  
Episode 1281: Time: 0.03539109230041504, Total Reward: 25.523712750619072, Q Loss: 21.65415596961975, Actor Loss: -46.27768611907959  
Episode 1282: Time: 0.0355830192565918, Total Reward: 25.83590285420439, Q Loss: 22.136387586593628, Actor Loss: -54.02084732055664  
Episode 1283: Time: 0.035253286361694336, Total Reward: 25.31225479367954, Q Loss: 16.816866636276245, Actor Loss: -46.35843372344971  
Episode 1284: Time: 0.03528237342834473, Total Reward: 25.815427493010542, Q Loss: 25.451547145843506, Actor Loss: -52.1034574508667  
Episode 1285: Time: 0.0352015495300293, Total Reward: 25.535062552860012, Q Loss: 24.852078914642334, Actor Loss: -50.79204273223877  
Episode 1286: Time: 0.035115718841552734, Total Reward: 26.023423030063512, Q Loss: 18.030524015426636, Actor Loss: -42.789560317993164  
Episode 1287: Time: 0.026401519775390625, Total Reward: 16.87065831230386, Q Loss: 10.322412014007568, Actor Loss: -32.86491012573242  
Episode 1288: Time: 0.035576820373535156, Total Reward: 25.38810360656229, Q Loss: 19.76987075805664, Actor Loss: -47.42089557647705  
Episode 1289: Time: 0.035102128982543945, Total Reward: 25.354714578119978, Q Loss: 12.55279803276062, Actor Loss: -43.362464904785156  
Episode 1290: Time: 0.0264434814453125, Total Reward: 16.95702428093468, Q Loss: 12.430574417114258, Actor Loss: -37.27952575683594  
Episode 1291: Time: 0.0352017879486084, Total Reward: 25.636828477079945, Q Loss: 20.61530113220215, Actor Loss: -48.796424865722656  
Episode 1292: Time: 0.035004615783691406, Total Reward: 25.178769945986495, Q Loss: 21.896709442138672, Actor Loss: -48.017818450927734  
Episode 1293: Time: 0.044133663177490234, Total Reward: 35.08762657975773, Q Loss: 29.33087682723999, Actor Loss: -59.7492618560791  
Episode 1294: Time: 0.03877830505371094, Total Reward: 25.535480411609697, Q Loss: 20.647793769836426, Actor Loss: -49.080772399902344  
Episode 1295: Time: 0.0323796272277832, Total Reward: 16.82636311975456, Q Loss: 14.001325130462646, Actor Loss: -35.7830171585083  
Episode 1296: Time: 0.03243541717529297, Total Reward: 16.872298268391944, Q Loss: 12.919130563735962, Actor Loss: -38.647732734680176  
Episode 1297: Time: 0.0430607795715332, Total Reward: 25.21826305645472, Q Loss: 14.839619874954224, Actor Loss: -51.68666076660156  
Episode 1298: Time: 0.035904645919799805, Total Reward: 25.36914881300912, Q Loss: 24.599660396575928, Actor Loss: -49.21763610839844  
Episode 1299: Time: 0.02627873420715332, Total Reward: 16.916242492452866, Q Loss: 15.996287822723389, Actor Loss: -36.814229011535645  
Validation Mean: 20.903820415283075, Validation Std: 4.174494888563195  
saving model  
Episode 1300: Time: 0.0352330207824707, Total Reward: 25.82502522479292, Q Loss: 17.48432946205139, Actor Loss: -46.08003520965576  
Episode 1301: Time: 0.035150766372680664, Total Reward: 25.483535019841025, Q Loss: 16.112656116485596, Actor Loss: -48.21912670135498  
Episode 1302: Time: 0.026419878005981445, Total Reward: 16.878026719778937, Q Loss: 13.035895824432373, Actor Loss: -38.18978500366211

Episode 1303: Time: 0.02635478973388672, Total Reward: 16.848108154526678, Q Loss: 10.475382328033447, Actor Loss: -31.839645385742188  
Episode 1304: Time: 0.034983158111572266, Total Reward: 25.398519373094157, Q Loss: 16.992055892944336, Actor Loss: -47.09397888183594  
Episode 1305: Time: 0.027219057083129883, Total Reward: 16.87090399689324, Q Loss: 17.161839246749878, Actor Loss: -39.11607646942139  
Episode 1306: Time: 0.03560066223144531, Total Reward: 25.55050262771286, Q Loss: 20.59334087371826, Actor Loss: -48.298644065856934  
Episode 1307: Time: 0.026457786560058594, Total Reward: 16.82868312923031, Q Loss: 15.352750301361084, Actor Loss: -38.3918514251709  
Episode 1308: Time: 0.0263822078704834, Total Reward: 16.97009562900603, Q Loss: 13.758696794509888, Actor Loss: -34.51603126525879  
Episode 1309: Time: 0.035019636154174805, Total Reward: 25.3406532427824, Q Loss: 19.50437593460083, Actor Loss: -48.42878437042236  
Episode 1310: Time: 0.03522658348083496, Total Reward: 25.17233529223587, Q Loss: 20.154805183410645, Actor Loss: -45.258596420288086  
Episode 1311: Time: 0.035068511962890625, Total Reward: 25.360015801781287, Q Loss: 15.369763135910034, Actor Loss: -44.100162506103516  
Episode 1312: Time: 0.03489494323730469, Total Reward: 25.537062250820437, Q Loss: 21.537129163742065, Actor Loss: -51.6204137802124  
Episode 1313: Time: 0.0352940559387207, Total Reward: 25.903152558411907, Q Loss: 27.351369857788086, Actor Loss: -47.15480613708496  
Episode 1314: Time: 0.026329517364501953, Total Reward: 16.978085048383253, Q Loss: 15.551324367523193, Actor Loss: -34.55961799621582  
Episode 1315: Time: 0.03496956825256348, Total Reward: 25.858167344937, Q Loss: 22.227219104766846, Actor Loss: -52.91632652282715  
Episode 1316: Time: 0.02625727653503418, Total Reward: 16.866864822748393, Q Loss: 17.580476760864258, Actor Loss: -35.36017322540283  
Episode 1317: Time: 0.03491473197937012, Total Reward: 25.351729865538513, Q Loss: 14.695475339889526, Actor Loss: -42.521230697631836  
Episode 1318: Time: 0.03498029708862305, Total Reward: 25.330656175818223, Q Loss: 20.78131890296936, Actor Loss: -47.496209144592285  
Episode 1319: Time: 0.02628326416015625, Total Reward: 16.837105831401956, Q Loss: 15.351709365844727, Actor Loss: -36.76658535003662  
Episode 1320: Time: 0.026943683624267578, Total Reward: 16.97703572146938, Q Loss: 18.55534553527832, Actor Loss: -38.80256175994873  
Episode 1321: Time: 0.02635049819946289, Total Reward: 16.920943586846793, Q Loss: 12.70924997329712, Actor Loss: -35.95957660675049  
Episode 1322: Time: 0.02635979652404785, Total Reward: 16.873678930219214, Q Loss: 19.587695360183716, Actor Loss: -36.68497848510742  
Episode 1323: Time: 0.035120248794555664, Total Reward: 25.562097497038824, Q Loss: 19.41060519218445, Actor Loss: -48.65701389312744  
Episode 1324: Time: 0.03503608703613281, Total Reward: 25.161662155807676, Q Loss: 27.86329174041748, Actor Loss: -49.70924949645996  
Episode 1325: Time: 0.03490018844604492, Total Reward: 25.63277810931803, Q Loss: 20.94867467880249, Actor Loss: -47.709126472473145  
Episode 1326: Time: 0.03545689582824707, Total Reward: 25.616767010649447, Q Loss: 20.364530563354492, Actor Loss: -46.79630470275879  
Episode 1327: Time: 0.026919126510620117, Total Reward: 16.88199563274118, Q Loss: 14.641494274139404, Actor Loss: -38.09729194641113  
Episode 1328: Time: 0.03495955467224121, Total Reward: 25.31411018936843, Q Loss: 16.949649333953857, Actor Loss: -44.701497077941895  
Episode 1329: Time: 0.02624964714050293, Total Reward: 16.893858132716602, Q Loss: 15.334308862686157, Actor Loss: -38.83356285095215  
Episode 1330: Time: 0.03497052192687988, Total Reward: 25.889073768619028, Q Loss: 23.54836130142212, Actor Loss: -50.06605339050293



Episode 1331: Time: 0.035207271575927734, Total Reward: 25.193738854858, Q Loss: 18.79711675643921, Actor Loss: -47.986270904541016  
Episode 1332: Time: 0.03513216972351074, Total Reward: 25.154933802876013, Q Loss: 20.62122106552124, Actor Loss: -49.785369873046875  
Episode 1333: Time: 0.03535628318786621, Total Reward: 25.7559542647257, Q Loss: 22.17411708831787, Actor Loss: -45.93142032623291  
Episode 1334: Time: 0.034952640533447266, Total Reward: 25.393291888309932, Q Loss: 21.098945140838623, Actor Loss: -49.768253326416016  
Episode 1335: Time: 0.03493499755859375, Total Reward: 25.4845357024259, Q Loss: 22.51988410949707, Actor Loss: -49.12772560119629  
Episode 1336: Time: 0.026379823684692383, Total Reward: 16.904884512130582, Q Loss: 15.683280944824219, Actor Loss: -41.45750713348389  
Episode 1337: Time: 0.034999847412109375, Total Reward: 25.4388051386816, Q Loss: 20.861754417419434, Actor Loss: -47.480892181396484  
Episode 1338: Time: 0.03515934944152832, Total Reward: 25.42302964352498, Q Loss: 20.131452798843384, Actor Loss: -44.89899826049805  
Episode 1339: Time: 0.02628493309020996, Total Reward: 16.935574143797314, Q Loss: 14.589855194091797, Actor Loss: -35.911139488220215  
Episode 1340: Time: 0.03532838821411133, Total Reward: 25.2833488230729, Q Loss: 22.661663055419922, Actor Loss: -47.21394729614258  
Episode 1341: Time: 0.03500533103942871, Total Reward: 25.11852561610162, Q Loss: 17.96786403656006, Actor Loss: -50.02987480163574  
Episode 1342: Time: 0.03494095802307129, Total Reward: 25.376957314655247, Q Loss: 13.927401304244995, Actor Loss: -46.00051784515381  
Episode 1343: Time: 0.026285886764526367, Total Reward: 16.833233564691554, Q Loss: 20.97802734375, Actor Loss: -38.967591285705566  
Episode 1344: Time: 0.034925222396850586, Total Reward: 25.72126011101136, Q Loss: 19.87360382080078, Actor Loss: -46.84439659118652  
Episode 1345: Time: 0.03487825393676758, Total Reward: 25.33501512430776, Q Loss: 20.515514135360718, Actor Loss: -46.08490180969238  
Episode 1346: Time: 0.03520822525024414, Total Reward: 25.582600368263346, Q Loss: 22.944092273712158, Actor Loss: -49.39922904968262  
Episode 1347: Time: 0.03502488136291504, Total Reward: 26.022307922574583, Q Loss: 22.744717121124268, Actor Loss: -48.07797431945801  
Episode 1348: Time: 0.034956932067871094, Total Reward: 25.50914346389101, Q Loss: 21.63446068763733, Actor Loss: -47.32277774810791  
Episode 1349: Time: 0.0348811149597168, Total Reward: 25.185156317054528, Q Loss: 18.72542643547058, Actor Loss: -42.39105224609375  
Episode 1350: Time: 0.03485226631164551, Total Reward: 25.312573068417663, Q Loss: 19.21008038520813, Actor Loss: -48.39208698272705  
Episode 1351: Time: 0.035123586654663086, Total Reward: 25.555269978542633, Q Loss: 18.631953477859497, Actor Loss: -46.87839412689209  
Episode 1352: Time: 0.026786327362060547, Total Reward: 16.9326172650093, Q Loss: 14.657729625701904, Actor Loss: -29.803714752197266  
Episode 1353: Time: 0.035106658935546875, Total Reward: 26.07728493694185, Q Loss: 19.83951711654663, Actor Loss: -52.2108678817749  
Episode 1354: Time: 0.035015106201171875, Total Reward: 25.49893613262435, Q Loss: 27.67573642730713, Actor Loss: -53.3483304977417  
Episode 1355: Time: 0.02634429931640625, Total Reward: 16.841605421962402, Q Loss: 12.333613872528076, Actor Loss: -32.437926292419434  
Episode 1356: Time: 0.026258468627929688, Total Reward: 16.888877552938965, Q Loss: 17.565933227539062, Actor Loss: -39.84797191619873  
Episode 1357: Time: 0.03496527671813965, Total Reward: 25.648722738572342, Q Loss: 18.48892045021057, Actor Loss: -46.617987632751465  
Episode 1358: Time: 0.03481316566467285, Total Reward: 25.236507940743564, Q Loss: 25.33403468132019, Actor Loss: -46.45484161376953

Episode 1359: Time: 0.03530120849609375, Total Reward: 25.463993800138734, Q Loss: 24.6386137008667, Actor Loss: -48.0837516784668  
Episode 1360: Time: 0.026406049728393555, Total Reward: 16.936249314001696, Q Loss: 23.382362365722656, Actor Loss: -41.621999740600586  
Episode 1361: Time: 0.03516435623168945, Total Reward: 25.269195133056172, Q Loss: 18.42500114440918, Actor Loss: -51.035386085510254  
Episode 1362: Time: 0.0262753963470459, Total Reward: 16.957203244729605, Q Loss: 11.3633713722229, Actor Loss: -35.31842613220215  
Episode 1363: Time: 0.034938812255859375, Total Reward: 25.19772687603248, Q Loss: 17.439223527908325, Actor Loss: -44.59138107299805  
Episode 1364: Time: 0.026298999786376953, Total Reward: 16.744262503053967, Q Loss: 15.389158487319946, Actor Loss: -36.395941734313965  
Episode 1365: Time: 0.03511929512023926, Total Reward: 25.19018033094777, Q Loss: 18.29558825492859, Actor Loss: -47.47462177276611  
Episode 1366: Time: 0.0354313850402832, Total Reward: 25.27187761677973, Q Loss: 15.641229391098022, Actor Loss: -46.867841720581055  
Episode 1367: Time: 0.0350341796875, Total Reward: 25.590666159081582, Q Loss: 15.996062994003296, Actor Loss: -46.17109394073486  
Episode 1368: Time: 0.035001516342163086, Total Reward: 25.536625902661793, Q Loss: 18.772711515426636, Actor Loss: -44.54013919830322  
Episode 1369: Time: 0.03493142127990723, Total Reward: 26.172708758146, Q Loss: 18.86935257911682, Actor Loss: -47.36916446685791  
Episode 1370: Time: 0.03500056266784668, Total Reward: 25.78940672960276, Q Loss: 20.77903413772583, Actor Loss: -43.35622787475586  
Episode 1371: Time: 0.03494000434875488, Total Reward: 25.61248875841093, Q Loss: 25.936458110809326, Actor Loss: -46.39453315734863  
Episode 1372: Time: 0.03550076484680176, Total Reward: 25.31776581718243, Q Loss: 25.890871047973633, Actor Loss: -52.54995536804199  
Episode 1373: Time: 0.035022735595703125, Total Reward: 25.235684610301934, Q Loss: 18.572239637374878, Actor Loss: -43.28189754486084  
Episode 1374: Time: 0.026272058486938477, Total Reward: 16.94225101857691, Q Loss: 14.20319938659668, Actor Loss: -33.79525184631348  
Episode 1375: Time: 0.035015106201171875, Total Reward: 26.062924088002937, Q Loss: 20.663304328918457, Actor Loss: -50.21383476257324  
Episode 1376: Time: 0.03499960899353027, Total Reward: 25.407426956850067, Q Loss: 18.75522804260254, Actor Loss: -46.42197036743164  
Episode 1377: Time: 0.03492379188537598, Total Reward: 25.327877191886916, Q Loss: 19.63118577003479, Actor Loss: -42.59850597381592  
Episode 1378: Time: 0.035447120666503906, Total Reward: 25.47364227058826, Q Loss: 19.419448614120483, Actor Loss: -50.89730644226074  
Episode 1379: Time: 0.035032033920288086, Total Reward: 25.939793588565283, Q Loss: 20.454925060272217, Actor Loss: -46.003387451171875  
Episode 1380: Time: 0.026331424713134766, Total Reward: 16.981394067504894, Q Loss: 15.3525390625, Actor Loss: -35.55117702484131  
Episode 1381: Time: 0.026310205459594727, Total Reward: 16.900783084476696, Q Loss: 13.681710243225098, Actor Loss: -33.57267093658447  
Episode 1382: Time: 0.03499650955200195, Total Reward: 25.37401449870285, Q Loss: 18.08561420440674, Actor Loss: -43.604275703430176  
Episode 1383: Time: 0.034929752349853516, Total Reward: 25.451724719988697, Q Loss: 24.732590675354004, Actor Loss: -46.25605297088623  
Episode 1384: Time: 0.03503704071044922, Total Reward: 25.45168068010428, Q Loss: 21.534647464752197, Actor Loss: -47.52049446105957  
Episode 1385: Time: 0.035507917404174805, Total Reward: 25.860036274442088, Q Loss: 17.985841751098633, Actor Loss: -44.61241817474365  
Episode 1386: Time: 0.03515982627868652, Total Reward: 25.384571681511165, Q Loss: 20.12395739555359, Actor Loss: -46.152122497558594

Episode 1387: Time: 0.026294708251953125, Total Reward: 16.92021855530494, Q Loss: 16.451050281524658, Actor Loss: -35.01162910461426  
Episode 1388: Time: 0.034986257553100586, Total Reward: 25.33003877991835, Q Loss: 16.68473172187805, Actor Loss: -42.59157848358154  
Episode 1389: Time: 0.03499484062194824, Total Reward: 26.260543308939628, Q Loss: 17.821481227874756, Actor Loss: -45.20895481109619  
Episode 1390: Time: 0.034941911697387695, Total Reward: 25.28583500343456, Q Loss: 17.5233314037323, Actor Loss: -51.75794219970703  
Episode 1391: Time: 0.035492897033691406, Total Reward: 25.707930922047403, Q Loss: 18.36631965637207, Actor Loss: -42.822720527648926  
Episode 1392: Time: 0.03514266014099121, Total Reward: 25.495002151433642, Q Loss: 18.933595180511475, Actor Loss: -50.40376949310303  
Episode 1393: Time: 0.03500986099243164, Total Reward: 25.4694098961138, Q Loss: 24.790192127227783, Actor Loss: -49.36615180969238  
Episode 1394: Time: 0.026291370391845703, Total Reward: 16.81836394023973, Q Loss: 14.192691326141357, Actor Loss: -39.07322311401367  
Episode 1395: Time: 0.03503155708312988, Total Reward: 25.190519413856364, Q Loss: 24.180203437805176, Actor Loss: -45.24766445159912  
Episode 1396: Time: 0.04358100891113281, Total Reward: 35.08110476453059, Q Loss: 25.815982818603516, Actor Loss: -59.49630546569824  
Episode 1397: Time: 0.03550267219543457, Total Reward: 25.424189028496993, Q Loss: 20.049705028533936, Actor Loss: -46.211509704589844  
Episode 1398: Time: 0.03498411178588867, Total Reward: 25.75454673020419, Q Loss: 16.340400218963623, Actor Loss: -49.212761878967285  
Episode 1399: Time: 0.034966468811035156, Total Reward: 25.47211925383674, Q Loss: 22.467971324920654, Actor Loss: -49.66646766662598  
Validation Mean: 20.9748844131288, Validation Std: 4.178712332002629  
saving model  
Episode 1400: Time: 0.03575706481933594, Total Reward: 25.307290896745243, Q Loss: 18.618107795715332, Actor Loss: -45.32684898376465  
Episode 1401: Time: 0.03491091728210449, Total Reward: 26.18298094488571, Q Loss: 16.929799795150757, Actor Loss: -46.639577865600586  
Episode 1402: Time: 0.03505563735961914, Total Reward: 25.602296658263562, Q Loss: 25.6914005279541, Actor Loss: -47.58452033996582  
Episode 1403: Time: 0.026281118392944336, Total Reward: 16.763986590180288, Q Loss: 18.994184494018555, Actor Loss: -42.62441349029541  
Episode 1404: Time: 0.043514251708984375, Total Reward: 34.829986821348385, Q Loss: 27.679307460784912, Actor Loss: -56.68690776824951  
Episode 1405: Time: 0.03521895408630371, Total Reward: 25.58586569852226, Q Loss: 18.609986066818237, Actor Loss: -45.982205390930176  
Episode 1406: Time: 0.035430908203125, Total Reward: 25.486803915790954, Q Loss: 21.864500999450684, Actor Loss: -52.79601287841797  
Episode 1407: Time: 0.035538434982299805, Total Reward: 25.39838965189546, Q Loss: 29.392412185668945, Actor Loss: -50.91816520690918  
Episode 1408: Time: 0.03503847122192383, Total Reward: 25.323137735891112, Q Loss: 19.808289051055908, Actor Loss: -48.493316650390625  
Episode 1409: Time: 0.034990787506103516, Total Reward: 25.326063288873556, Q Loss: 18.039637088775635, Actor Loss: -48.242154121398926  
Episode 1410: Time: 0.026325225830078125, Total Reward: 16.913051764774174, Q Loss: 17.100106239318848, Actor Loss: -34.89397048950195  
Episode 1411: Time: 0.035088539123535156, Total Reward: 25.760795489883275, Q Loss: 21.11814022064209, Actor Loss: -48.85272789001465  
Episode 1412: Time: 0.035157203674316406, Total Reward: 25.574469299427577, Q Loss: 19.832085132598877, Actor Loss: -48.92686080932617  
Episode 1413: Time: 0.02621769905090332, Total Reward: 16.933581364555433, Q Loss: 17.465412139892578, Actor Loss: -35.12961196899414

Episode 1414: Time: 0.03497123718261719, Total Reward: 25.689619205284593, Q Loss: 19.660234212875366, Actor Loss: -49.85257053375244  
Episode 1415: Time: 0.03496956825256348, Total Reward: 25.659615061693778, Q Loss: 21.942049026489258, Actor Loss: -45.522504806518555  
Episode 1416: Time: 0.026262998580932617, Total Reward: 17.03287492211802, Q Loss: 19.068795680999756, Actor Loss: -37.993348121643066  
Episode 1417: Time: 0.034937381744384766, Total Reward: 25.362553294912995, Q Loss: 27.6967511177063, Actor Loss: -45.74543857574463  
Episode 1418: Time: 0.03483462333679199, Total Reward: 25.82547520447614, Q Loss: 16.670530080795288, Actor Loss: -52.0936803817749  
Episode 1419: Time: 0.035382747650146484, Total Reward: 25.665902776729794, Q Loss: 18.82896327972412, Actor Loss: -46.17913246154785  
Episode 1420: Time: 0.03503775596618652, Total Reward: 25.406863441007246, Q Loss: 25.913403272628784, Actor Loss: -49.189805030822754  
Episode 1421: Time: 0.026285171508789062, Total Reward: 16.83139934370325, Q Loss: 13.874270677566528, Actor Loss: -37.96565818786621  
Episode 1422: Time: 0.03504228591918945, Total Reward: 25.730143598213832, Q Loss: 18.906883716583252, Actor Loss: -48.95261192321777  
Episode 1423: Time: 0.03481030464172363, Total Reward: 25.401741295642942, Q Loss: 21.413438320159912, Actor Loss: -49.89246845245361  
Episode 1424: Time: 0.026254653930664062, Total Reward: 16.900667638020778, Q Loss: 12.599260091781616, Actor Loss: -34.8060827255249  
Episode 1425: Time: 0.034902095794677734, Total Reward: 25.43744209724417, Q Loss: 21.624523401260376, Actor Loss: -46.473588943481445  
Episode 1426: Time: 0.03532290458679199, Total Reward: 25.560315444063292, Q Loss: 17.192471265792847, Actor Loss: -47.57336902618408  
Episode 1427: Time: 0.02634263038635254, Total Reward: 16.95455058844615, Q Loss: 17.624496936798096, Actor Loss: -35.51285266876221  
Episode 1428: Time: 0.026090383529663086, Total Reward: 16.95476987736717, Q Loss: 14.420037031173706, Actor Loss: -39.29487609863281  
Episode 1429: Time: 0.026149511337280273, Total Reward: 16.8315018587387, Q Loss: 14.400728464126587, Actor Loss: -33.777164459228516  
Episode 1430: Time: 0.026245594024658203, Total Reward: 16.871679527782632, Q Loss: 21.300671100616455, Actor Loss: -31.877930641174316  
Episode 1431: Time: 0.034720659255981445, Total Reward: 25.724859492798164, Q Loss: 22.337483167648315, Actor Loss: -51.427157402038574  
Episode 1432: Time: 0.03482365608215332, Total Reward: 25.448458760436562, Q Loss: 23.108810901641846, Actor Loss: -46.59098434448242  
Episode 1433: Time: 0.035138845443725586, Total Reward: 25.65632088612394, Q Loss: 21.796213150024414, Actor Loss: -46.247023582458496  
Episode 1434: Time: 0.03490614891052246, Total Reward: 25.283555701388686, Q Loss: 22.234739065170288, Actor Loss: -44.36277770996094  
Episode 1435: Time: 0.03499603271484375, Total Reward: 25.6095757448568, Q Loss: 18.28028154373169, Actor Loss: -46.61423587799072  
Episode 1436: Time: 0.03481245040893555, Total Reward: 25.375491761569783, Q Loss: 20.699129343032837, Actor Loss: -49.45154094696045  
Episode 1437: Time: 0.026162385940551758, Total Reward: 16.87395472163353, Q Loss: 14.308905601501465, Actor Loss: -38.34741687774658  
Episode 1438: Time: 0.034836769104003906, Total Reward: 25.907016479228165, Q Loss: 28.664018630981445, Actor Loss: -52.08836555480957  
Episode 1439: Time: 0.03519010543823242, Total Reward: 26.036723643309685, Q Loss: 19.3127498626709, Actor Loss: -43.65977764129639  
Episode 1440: Time: 0.03491997718811035, Total Reward: 25.876817992544616, Q Loss: 20.12939691543579, Actor Loss: -45.56367015838623  
Episode 1441: Time: 0.03485822677612305, Total Reward: 25.19681509322485, Q Loss: 22.318053007125854, Actor Loss: -50.43073749542236

Episode 1442: Time: 0.034876108169555664, Total Reward: 25.260456578130324, Q Loss: 21.154393196105957, Actor Loss: -48.64864730834961  
Episode 1443: Time: 0.0348355770111084, Total Reward: 25.268399858163896, Q Loss: 22.65923833847046, Actor Loss: -47.12534713745117  
Episode 1444: Time: 0.03473472595214844, Total Reward: 25.335775171424284, Q Loss: 17.412442207336426, Actor Loss: -44.87696647644043  
Episode 1445: Time: 0.03531980514526367, Total Reward: 25.460299888787244, Q Loss: 17.640349864959717, Actor Loss: -46.856109619140625  
Episode 1446: Time: 0.03487348556518555, Total Reward: 25.23513162818576, Q Loss: 20.535372972488403, Actor Loss: -51.62923336029053  
Episode 1447: Time: 0.0349733829498291, Total Reward: 25.237542750848657, Q Loss: 17.33820390701294, Actor Loss: -43.302602767944336  
Episode 1448: Time: 0.03487706184387207, Total Reward: 25.768147722717277, Q Loss: 28.636409282684326, Actor Loss: -45.91220474243164  
Episode 1449: Time: 0.026450157165527344, Total Reward: 16.90815291416098, Q Loss: 17.01561450958252, Actor Loss: -37.731088638305664  
Episode 1450: Time: 0.02627706527709961, Total Reward: 16.99386561537653, Q Loss: 19.569863319396973, Actor Loss: -36.01915168762207  
Episode 1451: Time: 0.026308536529541016, Total Reward: 16.920054883368344, Q Loss: 11.512646198272705, Actor Loss: -36.60184574127197  
Episode 1452: Time: 0.02664923667907715, Total Reward: 16.923195254770018, Q Loss: 16.06395387649536, Actor Loss: -31.297255516052246  
Episode 1453: Time: 0.03490900993347168, Total Reward: 25.75629830893658, Q Loss: 25.649678468704224, Actor Loss: -47.58831787109375  
Episode 1454: Time: 0.043695688247680664, Total Reward: 34.866108235619414, Q Loss: 29.611845016479492, Actor Loss: -61.00243949890137  
Episode 1455: Time: 0.03498196601867676, Total Reward: 25.26451543230826, Q Loss: 21.530157566070557, Actor Loss: -50.85999298095703  
Episode 1456: Time: 0.034974098205566406, Total Reward: 25.246739722314192, Q Loss: 18.164194107055664, Actor Loss: -46.69606685638428  
Episode 1457: Time: 0.03513193130493164, Total Reward: 25.125772397578356, Q Loss: 19.26799488067627, Actor Loss: -48.81113910675049  
Episode 1458: Time: 0.035445213317871094, Total Reward: 25.51632380990712, Q Loss: 21.172152042388916, Actor Loss: -42.503286361694336  
Episode 1459: Time: 0.026474952697753906, Total Reward: 16.91281994148449, Q Loss: 11.074243545532227, Actor Loss: -35.4298734664917  
Episode 1460: Time: 0.026161909103393555, Total Reward: 16.96690840743408, Q Loss: 14.14233112335205, Actor Loss: -33.402923583984375  
Episode 1461: Time: 0.03498673439025879, Total Reward: 25.521199845153244, Q Loss: 19.45062494277954, Actor Loss: -49.8815393447876  
Episode 1462: Time: 0.03476691246032715, Total Reward: 25.967284557973965, Q Loss: 20.787466049194336, Actor Loss: -44.67946815490723  
Episode 1463: Time: 0.026238441467285156, Total Reward: 16.88959997193109, Q Loss: 16.327115535736084, Actor Loss: -36.303606033325195  
Episode 1464: Time: 0.03522920608520508, Total Reward: 25.83781279441481, Q Loss: 23.495737075805664, Actor Loss: -49.718024253845215  
Episode 1465: Time: 0.03540372848510742, Total Reward: 25.595457162073316, Q Loss: 20.542043685913086, Actor Loss: -49.702741622924805  
Episode 1466: Time: 0.043555498123168945, Total Reward: 34.94927290341745, Q Loss: 24.421141624450684, Actor Loss: -56.2024507522583  
Episode 1467: Time: 0.034948110580444336, Total Reward: 25.486063729511738, Q Loss: 21.62916374206543, Actor Loss: -49.63990497589111  
Episode 1468: Time: 0.03485250473022461, Total Reward: 25.679995518875547, Q Loss: 20.56578016281128, Actor Loss: -46.73589515686035  
Episode 1469: Time: 0.03489351272583008, Total Reward: 26.10083329359201, Q Loss: 24.468553066253662, Actor Loss: -48.86191749572754

Episode 1470: Time: 0.035004377365112305, Total Reward: 26.01294858971444, Q Loss: 24.40699529647827, Actor Loss: -46.561692237854004  
Episode 1471: Time: 0.061241865158081055, Total Reward: 53.85356176943947, Q Loss: 38.96909213066101, Actor Loss: -88.93122673034668  
Episode 1472: Time: 0.034881591796875, Total Reward: 26.158930433834517, Q Loss: 21.400627851486206, Actor Loss: -50.715020179748535  
Episode 1473: Time: 0.052135467529296875, Total Reward: 44.194862088574965, Q Loss: 33.71826887130737, Actor Loss: -68.97907066345215  
Episode 1474: Time: 0.06927847862243652, Total Reward: 63.772645384492726, Q Loss: 30.592535972595215, Actor Loss: -86.39070415496826  
Episode 1475: Time: 0.06965160369873047, Total Reward: 63.189614114179214, Q Loss: 37.629568099975586, Actor Loss: -93.04142570495605  
Episode 1476: Time: 0.07806205749511719, Total Reward: 73.14697760803692, Q Loss: 49.62044286727905, Actor Loss: -110.63248062133789  
Episode 1477: Time: 0.10386085510253906, Total Reward: 100.41181031751584, Q Loss: 58.17191696166992, Actor Loss: -143.34234046936035  
Episode 1478: Time: 0.09510469436645508, Total Reward: 90.88900304590868, Q Loss: 57.39726972579956, Actor Loss: -138.82423973083496  
Episode 1479: Time: 0.1031954288482666, Total Reward: 100.67572782060047, Q Loss: 65.56203126907349, Actor Loss: -148.9150447845459  
Episode 1480: Time: 0.06028485298156738, Total Reward: 53.72179548911737, Q Loss: 42.84254264831543, Actor Loss: -89.41649627685547  
Episode 1481: Time: 0.060648202896118164, Total Reward: 53.6703000542761, Q Loss: 41.50619959831238, Actor Loss: -91.61153888702393  
Episode 1482: Time: 0.06015658378601074, Total Reward: 53.608458169234794, Q Loss: 47.99397659301758, Actor Loss: -86.51333618164062  
Episode 1483: Time: 0.06027674674987793, Total Reward: 53.54887219762103, Q Loss: 39.689579010009766, Actor Loss: -91.89638900756836  
Episode 1484: Time: 0.051596641540527344, Total Reward: 44.714311934653395, Q Loss: 35.26686120033264, Actor Loss: -77.35446166992188  
Episode 1485: Time: 0.060727596282958984, Total Reward: 53.64831374292003, Q Loss: 50.42363452911377, Actor Loss: -87.44016456604004  
Episode 1486: Time: 0.05165600776672363, Total Reward: 44.68817799992661, Q Loss: 37.78450965881348, Actor Loss: -78.29508018493652  
Episode 1487: Time: 0.06846928596496582, Total Reward: 63.21116248552881, Q Loss: 59.20704746246338, Actor Loss: -101.87614822387695  
Episode 1488: Time: 0.06883835792541504, Total Reward: 62.89872434053814, Q Loss: 63.189337730407715, Actor Loss: -110.80178833007812  
Episode 1489: Time: 0.0695040225982666, Total Reward: 63.09738691633301, Q Loss: 57.02388024330139, Actor Loss: -94.66105079650879  
Episode 1490: Time: 0.04355263710021973, Total Reward: 35.25843055978128, Q Loss: 30.645636320114136, Actor Loss: -67.73401165008545  
Episode 1491: Time: 0.06078290939331055, Total Reward: 54.08890658553698, Q Loss: 59.416844844818115, Actor Loss: -88.87611293792725  
Episode 1492: Time: 0.06041717529296875, Total Reward: 53.85838012139888, Q Loss: 48.92595338821411, Actor Loss: -89.47169780731201  
Episode 1493: Time: 0.06956601142883301, Total Reward: 63.5039524766959, Q Loss: 65.87235307693481, Actor Loss: -110.64323902130127  
Episode 1494: Time: 0.06035566329956055, Total Reward: 54.089760609384854, Q Loss: 52.14500904083252, Actor Loss: -84.94366264343262  
Episode 1495: Time: 0.05172610282897949, Total Reward: 44.56431335091169, Q Loss: 33.8728973865509, Actor Loss: -75.20496273040771  
Episode 1496: Time: 0.06024742126464844, Total Reward: 53.487242067169866, Q Loss: 50.07343029975891, Actor Loss: -91.3358211517334  
Episode 1497: Time: 0.06924653053283691, Total Reward: 63.251111311644635, Q Loss: 71.06262302398682, Actor Loss: -106.54042148590088

Episode 1498: Time: 0.0689077377319336, Total Reward: 62.95014837445345, Q Loss: 57.22144865989685, Actor Loss: -107.01453685760498  
Episode 1499: Time: 0.051917076110839844, Total Reward: 44.30858605903957, Q Loss: 36.48647975921631, Actor Loss: -69.06900215148926  
Validation Mean: 60.66010102278834, Validation Std: 5.791402372837292  
saving model  
Episode 1500: Time: 0.061126708984375, Total Reward: 54.17951226533301, Q Loss: 72.10795974731445, Actor Loss: -91.47985935211182  
Episode 1501: Time: 0.06043529510498047, Total Reward: 53.488638314252476, Q Loss: 48.689799308776855, Actor Loss: -93.02821159362793  
Episode 1502: Time: 0.060341596603393555, Total Reward: 54.11898822291439, Q Loss: 48.93073892593384, Actor Loss: -89.09713649749756  
Episode 1503: Time: 0.06093740463256836, Total Reward: 53.382540014244064, Q Loss: 42.44985103607178, Actor Loss: -96.15401840209961  
Episode 1504: Time: 0.051833152770996094, Total Reward: 44.41198892180973, Q Loss: 45.20401120185852, Actor Loss: -82.68262672424316  
Episode 1505: Time: 0.06035184860229492, Total Reward: 53.94683220731452, Q Loss: 61.01949119567871, Actor Loss: -88.47876930236816  
Episode 1506: Time: 0.051802873611450195, Total Reward: 44.61009620620147, Q Loss: 57.38725566864014, Actor Loss: -76.79512977600098  
Episode 1507: Time: 0.05227184295654297, Total Reward: 44.48084522604938, Q Loss: 51.19818592071533, Actor Loss: -80.12092876434326  
Episode 1508: Time: 0.06891536712646484, Total Reward: 62.959350581179045, Q Loss: 69.83902215957642, Actor Loss: -103.04404544830322  
Episode 1509: Time: 0.06882882118225098, Total Reward: 62.924893695644634, Q Loss: 64.9049859046936, Actor Loss: -110.38784980773926  
Episode 1510: Time: 0.07827997207641602, Total Reward: 72.45049819013279, Q Loss: 70.01740980148315, Actor Loss: -118.73397254943848  
Episode 1511: Time: 0.07758569717407227, Total Reward: 72.37292691398514, Q Loss: 76.75182223320007, Actor Loss: -121.07705974578857  
Episode 1512: Time: 0.06033468246459961, Total Reward: 53.88983240649592, Q Loss: 43.04940462112427, Actor Loss: -90.7569522857666  
Episode 1513: Time: 0.07791590690612793, Total Reward: 72.72219516507725, Q Loss: 60.34180498123169, Actor Loss: -119.08264255523682  
Episode 1514: Time: 0.06048297882080078, Total Reward: 54.0062201395661, Q Loss: 64.73604726791382, Actor Loss: -93.07966232299805  
Episode 1515: Time: 0.06038022041320801, Total Reward: 53.79672770349879, Q Loss: 49.32892417907715, Actor Loss: -85.92448711395264  
Episode 1516: Time: 0.11244463920593262, Total Reward: 109.9644811257232, Q Loss: 119.22061681747437, Actor Loss: -181.7810583114624  
Episode 1517: Time: 0.06068730354309082, Total Reward: 53.58763908680041, Q Loss: 47.88590478897095, Actor Loss: -89.84227466583252  
Episode 1518: Time: 0.07796335220336914, Total Reward: 72.43895765416771, Q Loss: 77.61678981781006, Actor Loss: -122.73532772064209  
Episode 1519: Time: 0.06955862045288086, Total Reward: 63.18049146454912, Q Loss: 83.98459720611572, Actor Loss: -112.73202133178711  
Episode 1520: Time: 0.06949758529663086, Total Reward: 63.64114278066172, Q Loss: 71.44715690612793, Actor Loss: -112.86057949066162  
Episode 1521: Time: 0.06918096542358398, Total Reward: 63.399959776377415, Q Loss: 74.3512315750122, Actor Loss: -103.72480964660645  
Episode 1522: Time: 0.05186009407043457, Total Reward: 44.192167844638746, Q Loss: 61.2078971862793, Actor Loss: -89.02685642242432  
Episode 1523: Time: 0.0780036449432373, Total Reward: 72.5194901236391, Q Loss: 86.63173723220825, Actor Loss: -118.96294403076172  
Episode 1524: Time: 0.06922054290771484, Total Reward: 63.28809351582849, Q Loss: 57.762574195861816, Actor Loss: -105.7950325012207

Episode 1525: Time: 0.08612251281738281, Total Reward: 81.88799711434379, Q Loss: 109.53250980377197, Actor Loss: -139.48193264007568  
Episode 1526: Time: 0.08685946464538574, Total Reward: 81.94488158366045, Q Loss: 81.42406511306763, Actor Loss: -138.36980628967285  
Episode 1527: Time: 0.07777643203735352, Total Reward: 72.49343536199164, Q Loss: 96.45194005966187, Actor Loss: -123.70763683319092  
Episode 1528: Time: 0.08679723739624023, Total Reward: 81.97436111799183, Q Loss: 103.2295184135437, Actor Loss: -144.66966724395752  
Episode 1529: Time: 0.07815694808959961, Total Reward: 72.2829316557677, Q Loss: 94.10465717315674, Actor Loss: -125.4195556640625  
Episode 1530: Time: 0.07772088050842285, Total Reward: 72.77782005802057, Q Loss: 72.2664566040039, Actor Loss: -123.25577926635742  
Episode 1531: Time: 0.06888985633850098, Total Reward: 62.950975950220865, Q Loss: 76.1162166595459, Actor Loss: -115.40502452850342  
Episode 1532: Time: 0.06155681610107422, Total Reward: 54.086741012217566, Q Loss: 55.00790023803711, Actor Loss: -99.06323432922363  
Episode 1533: Time: 0.1381211280822754, Total Reward: 137.97619773427516, Q Loss: 156.55648851394653, Actor Loss: -223.844482421875  
Episode 1534: Time: 0.08670663833618164, Total Reward: 82.07782025421129, Q Loss: 100.80404472351074, Actor Loss: -141.8532247543335  
Episode 1535: Time: 0.06910181045532227, Total Reward: 63.37290515217658, Q Loss: 91.67716836929321, Actor Loss: -118.45545864105225  
Episode 1536: Time: 0.11177206039428711, Total Reward: 110.04604993229617, Q Loss: 99.36725735664368, Actor Loss: -183.0282392501831  
Episode 1537: Time: 0.16434025764465332, Total Reward: 164.75697109767097, Q Loss: 190.80392408370972, Actor Loss: -282.9660835266113  
Episode 1538: Time: 0.052000999450683594, Total Reward: 44.840016021325646, Q Loss: 69.68266105651855, Actor Loss: -92.28996753692627  
Episode 1539: Time: 0.16397857666015625, Total Reward: 166.06915160390818, Q Loss: 169.083354473114, Actor Loss: -283.5948314666748  
Episode 1540: Time: 0.08644962310791016, Total Reward: 81.90691020496307, Q Loss: 84.20162153244019, Actor Loss: -146.99635791778564  
Episode 1541: Time: 0.06941771507263184, Total Reward: 63.44828323071981, Q Loss: 78.56097030639648, Actor Loss: -118.90509033203125  
Episode 1542: Time: 0.12219405174255371, Total Reward: 119.27506615304438, Q Loss: 133.3601336479187, Actor Loss: -216.40871620178223  
Episode 1543: Time: 0.07785964012145996, Total Reward: 71.99496102087788, Q Loss: 83.20257520675659, Actor Loss: -132.48066520690918  
Episode 1544: Time: 0.06908488273620605, Total Reward: 62.755117503538884, Q Loss: 100.63968563079834, Actor Loss: -132.86067962646484  
Episode 1545: Time: 0.061127424240112305, Total Reward: 53.89185557467105, Q Loss: 83.2772650718689, Actor Loss: -100.98235607147217  
Episode 1546: Time: 0.08667707443237305, Total Reward: 81.70028477153618, Q Loss: 119.21767902374268, Actor Loss: -158.09276676177979  
Episode 1547: Time: 0.0607752799987793, Total Reward: 54.01108902039483, Q Loss: 54.1024215221405, Actor Loss: -103.25444889068604  
Episode 1548: Time: 0.06115078926086426, Total Reward: 53.50459884732355, Q Loss: 81.09041285514832, Actor Loss: -107.32847690582275  
Episode 1549: Time: 0.06074357032775879, Total Reward: 54.21988154644107, Q Loss: 65.81433153152466, Actor Loss: -104.92404174804688  
Episode 1550: Time: 0.060851335525512695, Total Reward: 53.50400295572699, Q Loss: 57.463486671447754, Actor Loss: -103.09373378753662  
Episode 1551: Time: 0.06083822250366211, Total Reward: 53.983897649047044, Q Loss: 78.34130954742432, Actor Loss: -102.04857349395752  
Episode 1552: Time: 0.06113481521606445, Total Reward: 53.595212921379996, Q Loss: 95.64147186279297, Actor Loss: -108.6690034866333



Episode 1553: Time: 0.06932377815246582, Total Reward: 62.648780812813655, Q Loss: 84.97832679748535, Actor Loss: -121.332350730896  
Episode 1554: Time: 0.13880658149719238, Total Reward: 138.1255673156514, Q Loss: 187.04558610916138, Actor Loss: -252.15941429138184  
Episode 1555: Time: 0.06066393852233887, Total Reward: 53.938644376880816, Q Loss: 109.62577486038208, Actor Loss: -115.23256969451904  
Episode 1556: Time: 0.07801222801208496, Total Reward: 72.83111902043186, Q Loss: 130.23533248901367, Actor Loss: -142.54213619232178  
Episode 1557: Time: 0.06957006454467773, Total Reward: 63.53573727385669, Q Loss: 88.30195999145508, Actor Loss: -128.21859455108643  
Episode 1558: Time: 0.05219674110412598, Total Reward: 44.82091543833179, Q Loss: 67.1175889968872, Actor Loss: -94.00801658630371  
Episode 1559: Time: 0.06062793731689453, Total Reward: 53.3200294760926, Q Loss: 74.21550559997559, Actor Loss: -112.42128372192383  
Episode 1560: Time: 0.052260637283325195, Total Reward: 44.61865296173259, Q Loss: 57.036407470703125, Actor Loss: -90.57430362701416  
Episode 1561: Time: 0.12177681922912598, Total Reward: 119.13640385789996, Q Loss: 161.31999111175537, Actor Loss: -228.26241874694824  
Episode 1562: Time: 0.060832977294921875, Total Reward: 53.813975350091546, Q Loss: 79.61345338821411, Actor Loss: -107.51322269439697  
Episode 1563: Time: 0.060838937759399414, Total Reward: 54.0177405700766, Q Loss: 70.41336393356323, Actor Loss: -109.94530773162842  
Episode 1564: Time: 0.06952333450317383, Total Reward: 63.07450504256161, Q Loss: 87.85198903083801, Actor Loss: -132.84646224975586  
Episode 1565: Time: 0.06132864952087402, Total Reward: 53.97362518532983, Q Loss: 93.13012361526489, Actor Loss: -104.71629238128662  
Episode 1566: Time: 0.13833832740783691, Total Reward: 137.6305034308202, Q Loss: 229.42825889587402, Actor Loss: -267.2481870651245  
Episode 1567: Time: 0.06979489326477051, Total Reward: 63.4487358989744, Q Loss: 95.22741222381592, Actor Loss: -135.85978889465332  
Episode 1568: Time: 0.06932735443115234, Total Reward: 63.46694163271904, Q Loss: 85.31579828262329, Actor Loss: -119.7203016281128  
Episode 1569: Time: 0.07801032066345215, Total Reward: 72.50229988242198, Q Loss: 103.61008930206299, Actor Loss: -147.00225067138672  
Episode 1570: Time: 0.08688139915466309, Total Reward: 82.15246783677784, Q Loss: 144.6454644203186, Actor Loss: -164.26953506469727  
Episode 1571: Time: 0.07776594161987305, Total Reward: 72.77945567162243, Q Loss: 115.20123767852783, Actor Loss: -151.37712383270264  
Episode 1572: Time: 0.10355138778686523, Total Reward: 100.64746176103961, Q Loss: 151.42441511154175, Actor Loss: -197.13594722747803  
Episode 1573: Time: 0.08668971061706543, Total Reward: 82.06468745641291, Q Loss: 110.13366889953613, Actor Loss: -165.75111961364746  
Episode 1574: Time: 0.0862116813659668, Total Reward: 81.33743967840549, Q Loss: 137.99818515777588, Actor Loss: -164.86011600494385  
Episode 1575: Time: 0.0604248046875, Total Reward: 53.93241433609607, Q Loss: 81.3291654586792, Actor Loss: -118.20824527740479  
Episode 1576: Time: 0.07824182510375977, Total Reward: 72.78602693530578, Q Loss: 145.51426696777344, Actor Loss: -155.0214672088623  
Episode 1577: Time: 0.05194807052612305, Total Reward: 44.30719535616571, Q Loss: 65.04144382476807, Actor Loss: -103.27055931091309  
Episode 1578: Time: 0.06041836738586426, Total Reward: 53.849246984783285, Q Loss: 95.98463582992554, Actor Loss: -117.04997253417969  
Episode 1579: Time: 0.0776224136352539, Total Reward: 72.09312162775953, Q Loss: 104.39527225494385, Actor Loss: -147.04230499267578  
Episode 1580: Time: 0.08674788475036621, Total Reward: 81.74231313050753, Q Loss: 139.49627113342285, Actor Loss: -172.643705368042

Episode 1581: Time: 0.07762408256530762, Total Reward: 72.36931916015985, Q Loss: 109.6521167755127, Actor Loss: -155.50607109069824  
Episode 1582: Time: 0.06045174598693848, Total Reward: 53.54931797142231, Q Loss: 79.1917495727539, Actor Loss: -112.69323539733887  
Episode 1583: Time: 0.07806825637817383, Total Reward: 72.31513173253457, Q Loss: 93.42052412033081, Actor Loss: -155.30056381225586  
Episode 1584: Time: 0.060407400131225586, Total Reward: 53.60836731364796, Q Loss: 87.09571504592896, Actor Loss: -123.78190994262695  
Episode 1585: Time: 0.06046032905578613, Total Reward: 53.75499801245688, Q Loss: 95.08108901977539, Actor Loss: -119.36093521118164  
Episode 1586: Time: 0.07765841484069824, Total Reward: 72.48329810589456, Q Loss: 84.66211223602295, Actor Loss: -152.41633701324463  
Episode 1587: Time: 0.060709476470947266, Total Reward: 53.88074707273618, Q Loss: 104.59784603118896, Actor Loss: -126.58035182952881  
Episode 1588: Time: 0.052016496658325195, Total Reward: 44.70529151079149, Q Loss: 96.72542572021484, Actor Loss: -109.99497032165527  
Episode 1589: Time: 0.05205368995666504, Total Reward: 44.802606001756054, Q Loss: 83.54199934005737, Actor Loss: -100.77063751220703  
Episode 1590: Time: 0.07776141166687012, Total Reward: 72.28584073010798, Q Loss: 100.10252332687378, Actor Loss: -158.01323223114014  
Episode 1591: Time: 0.07816910743713379, Total Reward: 72.64831858490396, Q Loss: 139.06279277801514, Actor Loss: -159.73205184936523  
Episode 1592: Time: 0.07779645919799805, Total Reward: 72.23587148042068, Q Loss: 132.90110540390015, Actor Loss: -155.78903579711914  
Episode 1593: Time: 0.060431480407714844, Total Reward: 53.97055421753754, Q Loss: 63.65823984146118, Actor Loss: -118.32589817047119  
Episode 1594: Time: 0.06964254379272461, Total Reward: 62.97111679217901, Q Loss: 119.59375047683716, Actor Loss: -146.41988372802734  
Episode 1595: Time: 0.0775461196899414, Total Reward: 72.42954933660232, Q Loss: 122.15434074401855, Actor Loss: -163.80840682983398  
Episode 1596: Time: 0.060459136962890625, Total Reward: 53.92273875300737, Q Loss: 71.68554925918579, Actor Loss: -123.1372013092041  
Episode 1597: Time: 0.06070828437805176, Total Reward: 53.3040532819882, Q Loss: 113.29835796356201, Actor Loss: -137.16650772094727  
Episode 1598: Time: 0.07916951179504395, Total Reward: 72.70407245941269, Q Loss: 110.44881582260132, Actor Loss: -164.97104835510254  
Episode 1599: Time: 0.06052374839782715, Total Reward: 54.14796267717176, Q Loss: 93.62586736679077, Actor Loss: -131.77731323242188  
Validation Mean: 67.95730775121028, Validation Std: 18.311759209567615  
saving model  
Episode 1600: Time: 0.05232429504394531, Total Reward: 44.759288684834864, Q Loss: 78.11079788208008, Actor Loss: -114.57124900817871  
Episode 1601: Time: 0.06074404716491699, Total Reward: 53.57577182842736, Q Loss: 80.07795190811157, Actor Loss: -127.63475227355957  
Episode 1602: Time: 0.08679056167602539, Total Reward: 81.92679322100679, Q Loss: 133.03762865066528, Actor Loss: -196.36899948120117  
Episode 1603: Time: 0.06057548522949219, Total Reward: 53.77409355099379, Q Loss: 115.08410930633545, Actor Loss: -124.64221477508545  
Episode 1604: Time: 0.06899070739746094, Total Reward: 63.014126929117026, Q Loss: 108.86446285247803, Actor Loss: -152.77088165283203  
Episode 1605: Time: 0.09534668922424316, Total Reward: 91.20247327290652, Q Loss: 127.92832565307617, Actor Loss: -206.68272399902344  
Episode 1606: Time: 0.06041312217712402, Total Reward: 53.32310077411546, Q Loss: 102.41768598556519, Actor Loss: -133.90098762512207  
Episode 1607: Time: 0.08640146255493164, Total Reward: 82.02429674153389, Q Loss: 121.13064622879028, Actor Loss: -194.0109405517578

Episode 1608: Time: 0.06087350845336914, Total Reward: 53.18999950801301, Q Loss: 70.69277000427246, Actor Loss: -127.47952651977539  
Episode 1609: Time: 0.06053352355957031, Total Reward: 54.249162145327006, Q Loss: 92.19822263717651, Actor Loss: -129.77840614318848  
Episode 1610: Time: 0.06920814514160156, Total Reward: 63.19081548356156, Q Loss: 100.36052942276001, Actor Loss: -145.4952688217163  
Episode 1611: Time: 0.05181455612182617, Total Reward: 44.2690304709996, Q Loss: 90.52626323699951, Actor Loss: -120.13837432861328  
Episode 1612: Time: 0.07790732383728027, Total Reward: 72.19766428513702, Q Loss: 88.49501514434814, Actor Loss: -161.6160249710083  
Episode 1613: Time: 0.060461997985839844, Total Reward: 53.981797703877575, Q Loss: 83.84543514251709, Actor Loss: -136.99262046813965  
Episode 1614: Time: 0.06899666786193848, Total Reward: 63.004547663094975, Q Loss: 97.25539207458496, Actor Loss: -153.00991821289062  
Episode 1615: Time: 0.051816701889038086, Total Reward: 44.71843303423174, Q Loss: 91.0046739578247, Actor Loss: -106.06157302856445  
Episode 1616: Time: 0.07825255393981934, Total Reward: 72.17433910470963, Q Loss: 110.470219373703, Actor Loss: -174.35113143920898  
Episode 1617: Time: 0.07763099670410156, Total Reward: 72.83989569499789, Q Loss: 105.23039817810059, Actor Loss: -169.74583625793457  
Episode 1618: Time: 0.06038546562194824, Total Reward: 53.97810896584, Q Loss: 68.45653438568115, Actor Loss: -139.95798683166504  
Episode 1619: Time: 0.07807230949401855, Total Reward: 72.39106297105461, Q Loss: 139.21927070617676, Actor Loss: -179.0127716064453  
Episode 1620: Time: 0.06046128273010254, Total Reward: 53.54261885765068, Q Loss: 89.91097450256348, Actor Loss: -135.94747924804688  
Episode 1621: Time: 0.060761451721191406, Total Reward: 54.20445797234649, Q Loss: 77.4877290725708, Actor Loss: -143.21934509277344  
Episode 1622: Time: 0.06059980392456055, Total Reward: 54.03971060809751, Q Loss: 74.78289031982422, Actor Loss: -134.7307071685791  
Episode 1623: Time: 0.0783846378326416, Total Reward: 72.08197560455906, Q Loss: 111.22583866119385, Actor Loss: -187.56545448303223  
Episode 1624: Time: 0.06062054634094238, Total Reward: 53.34125191743909, Q Loss: 72.52378845214844, Actor Loss: -134.3531036376953  
Episode 1625: Time: 0.15534090995788574, Total Reward: 155.81603478948404, Q Loss: 210.5771999359131, Actor Loss: -372.7425117492676  
Episode 1626: Time: 0.0778360366821289, Total Reward: 72.60521192472432, Q Loss: 88.31277275085449, Actor Loss: -179.5505485534668  
Episode 1627: Time: 0.06917548179626465, Total Reward: 62.96719574483206, Q Loss: 70.46268653869629, Actor Loss: -149.58773040771484  
Episode 1628: Time: 0.06121468544006348, Total Reward: 53.89742257926783, Q Loss: 75.68657493591309, Actor Loss: -143.59593391418457  
Episode 1629: Time: 0.1636667251586914, Total Reward: 165.1746968990084, Q Loss: 197.70529556274414, Actor Loss: -383.83984375  
Episode 1630: Time: 0.06111788749694824, Total Reward: 53.54860251144694, Q Loss: 95.09961795806885, Actor Loss: -147.1957187652588  
Episode 1631: Time: 0.06889867782592773, Total Reward: 63.11667983271769, Q Loss: 95.91260528564453, Actor Loss: -146.98273849487305  
Episode 1632: Time: 0.06909513473510742, Total Reward: 63.23996544937342, Q Loss: 79.10017538070679, Actor Loss: -170.66046905517578  
Episode 1633: Time: 0.13818907737731934, Total Reward: 137.89622666223818, Q Loss: 191.89765071868896, Actor Loss: -325.5912895202637  
Episode 1634: Time: 0.06910395622253418, Total Reward: 62.77806253572075, Q Loss: 96.85609245300293, Actor Loss: -164.95817184448242  
Episode 1635: Time: 0.060671329498291016, Total Reward: 53.8909192367851, Q Loss: 106.22754526138306, Actor Loss: -150.39391136169434

Episode 1636: Time: 0.07815217971801758, Total Reward: 72.43529809661541, Q Loss: 119.56538248062134, Actor Loss: -192.46079635620117  
Episode 1637: Time: 0.06911849975585938, Total Reward: 62.89971104785944, Q Loss: 89.62191200256348, Actor Loss: -174.958251953125  
Episode 1638: Time: 0.051976680755615234, Total Reward: 44.57480527565502, Q Loss: 61.107797622680664, Actor Loss: -124.12686157226562  
Episode 1639: Time: 0.06931257247924805, Total Reward: 62.99895433564326, Q Loss: 68.34503030776978, Actor Loss: -162.81060218811035  
Episode 1640: Time: 0.061167001724243164, Total Reward: 53.763306333763204, Q Loss: 103.83402061462402, Actor Loss: -147.7597827911377  
Episode 1641: Time: 0.060616493225097656, Total Reward: 54.026263363426004, Q Loss: 69.90731048583984, Actor Loss: -147.42865371704102  
Episode 1642: Time: 0.06919074058532715, Total Reward: 63.60575765630191, Q Loss: 77.2637448310852, Actor Loss: -166.48984909057617  
Episode 1643: Time: 0.06066560745239258, Total Reward: 53.72944425469997, Q Loss: 84.03795862197876, Actor Loss: -149.41732215881348  
Episode 1644: Time: 0.08654952049255371, Total Reward: 81.8172672663503, Q Loss: 104.09197044372559, Actor Loss: -212.95740509033203  
Episode 1645: Time: 0.06072425842285156, Total Reward: 53.84366160238298, Q Loss: 89.34802436828613, Actor Loss: -147.10073852539062  
Episode 1646: Time: 0.06930732727050781, Total Reward: 62.894471706589194, Q Loss: 104.23378038406372, Actor Loss: -166.88347816467285  
Episode 1647: Time: 0.060791015625, Total Reward: 53.5445003508545, Q Loss: 64.76883745193481, Actor Loss: -156.43441200256348  
Episode 1648: Time: 0.06116747856140137, Total Reward: 53.88560236254616, Q Loss: 73.23564863204956, Actor Loss: -150.52100372314453  
Episode 1649: Time: 0.069580078125, Total Reward: 62.9808885918064, Q Loss: 87.2057991027832, Actor Loss: -173.70427322387695  
Episode 1650: Time: 0.0693976879119873, Total Reward: 63.13812021697706, Q Loss: 85.27432823181152, Actor Loss: -171.82708168029785  
Episode 1651: Time: 0.06075787544250488, Total Reward: 53.60203701678951, Q Loss: 92.73251438140869, Actor Loss: -155.31233406066895  
Episode 1652: Time: 0.06121635437011719, Total Reward: 53.31086136526161, Q Loss: 71.9679183959961, Actor Loss: -155.97102165222168  
Episode 1653: Time: 0.06955289840698242, Total Reward: 63.17874881737472, Q Loss: 89.42556142807007, Actor Loss: -164.50497436523438  
Episode 1654: Time: 0.06087517738342285, Total Reward: 54.01540841031346, Q Loss: 102.51433181762695, Actor Loss: -158.37904930114746  
Episode 1655: Time: 0.0612177848815918, Total Reward: 53.919974550902474, Q Loss: 65.72354221343994, Actor Loss: -145.0166187286377  
Episode 1656: Time: 0.06933069229125977, Total Reward: 63.10508322884058, Q Loss: 89.40048789978027, Actor Loss: -186.12327194213867  
Episode 1657: Time: 0.0693817138671875, Total Reward: 63.03945217572579, Q Loss: 118.99568843841553, Actor Loss: -178.1221408843994  
Episode 1658: Time: 0.06993436813354492, Total Reward: 63.128719352068316, Q Loss: 107.21368217468262, Actor Loss: -171.5694923400879  
Episode 1659: Time: 0.07847857475280762, Total Reward: 72.81745530006738, Q Loss: 90.85069942474365, Actor Loss: -197.30254745483398  
Episode 1660: Time: 0.07819509506225586, Total Reward: 72.45848355574734, Q Loss: 110.90446662902832, Actor Loss: -205.39265060424805  
Episode 1661: Time: 0.06132221221923828, Total Reward: 53.354073989011056, Q Loss: 64.30214595794678, Actor Loss: -164.30677604675293  
Episode 1662: Time: 0.0955204963684082, Total Reward: 91.06457163584699, Q Loss: 135.75637578964233, Actor Loss: -243.84666061401367  
Episode 1663: Time: 0.07924509048461914, Total Reward: 72.40654011172553, Q Loss: 111.84609365463257, Actor Loss: -216.34963035583496

Episode 1664: Time: 0.061335086822509766, Total Reward: 54.14319312484946, Q Loss: 90.26977825164795, Actor Loss: -159.42323303222656  
Episode 1665: Time: 0.06951618194580078, Total Reward: 63.28002868293785, Q Loss: 100.66755151748657, Actor Loss: -193.70720100402832  
Episode 1666: Time: 0.07816433906555176, Total Reward: 72.39085534152728, Q Loss: 125.45024824142456, Actor Loss: -202.37454414367676  
Episode 1667: Time: 0.05236053466796875, Total Reward: 44.45578069242777, Q Loss: 82.61538791656494, Actor Loss: -140.48826599121094  
Episode 1668: Time: 0.0953836441040039, Total Reward: 91.43031854642335, Q Loss: 110.79285717010498, Actor Loss: -244.84203720092773  
Episode 1669: Time: 0.06944060325622559, Total Reward: 62.66750958846643, Q Loss: 102.28969478607178, Actor Loss: -195.59737968444824  
Episode 1670: Time: 0.05267906188964844, Total Reward: 44.732798380030886, Q Loss: 65.77434396743774, Actor Loss: -144.9607334136963  
Episode 1671: Time: 0.06956124305725098, Total Reward: 62.71740228786491, Q Loss: 73.2081823348999, Actor Loss: -189.0933074951172  
Episode 1672: Time: 0.09537291526794434, Total Reward: 90.8541314687066, Q Loss: 104.76275873184204, Actor Loss: -267.6440620422363  
Episode 1673: Time: 0.0611577033996582, Total Reward: 54.09992420351931, Q Loss: 61.26102685928345, Actor Loss: -158.38938903808594  
Episode 1674: Time: 0.09557247161865234, Total Reward: 91.49743886052684, Q Loss: 99.40312099456787, Actor Loss: -254.8287582397461  
Episode 1675: Time: 0.06062817573547363, Total Reward: 53.629698568085566, Q Loss: 63.289844036102295, Actor Loss: -159.70020294189453  
Episode 1676: Time: 0.06114983558654785, Total Reward: 54.02023266382971, Q Loss: 89.7175784111023, Actor Loss: -163.3136100769043  
Episode 1677: Time: 0.06946015357971191, Total Reward: 63.0701842557324, Q Loss: 88.82184362411499, Actor Loss: -205.4406337738037  
Episode 1678: Time: 0.06966805458068848, Total Reward: 63.05973289910878, Q Loss: 87.2522406578064, Actor Loss: -194.0541172027588  
Episode 1679: Time: 0.07911086082458496, Total Reward: 72.09862623109804, Q Loss: 89.4263858795166, Actor Loss: -215.86260223388672  
Episode 1680: Time: 0.06107687950134277, Total Reward: 53.77879449577612, Q Loss: 77.82481861114502, Actor Loss: -173.0282802581787  
Episode 1681: Time: 0.06961417198181152, Total Reward: 62.643683622584064, Q Loss: 62.765141010284424, Actor Loss: -187.87347984313965  
Episode 1682: Time: 0.07875394821166992, Total Reward: 72.15878800235362, Q Loss: 120.54237079620361, Actor Loss: -226.88343048095703  
Episode 1683: Time: 0.06096696853637695, Total Reward: 54.02817934101442, Q Loss: 71.47602224349976, Actor Loss: -173.01133918762207  
Episode 1684: Time: 0.08677983283996582, Total Reward: 81.33820173110776, Q Loss: 99.90250563621521, Actor Loss: -241.9553508758545  
Episode 1685: Time: 0.0615386962890625, Total Reward: 54.047613213119796, Q Loss: 69.55578804016113, Actor Loss: -163.24662590026855  
Episode 1686: Time: 0.06104326248168945, Total Reward: 53.717261427795705, Q Loss: 74.26638698577881, Actor Loss: -173.50821113586426  
Episode 1687: Time: 0.06980085372924805, Total Reward: 62.71436812160009, Q Loss: 70.42444920539856, Actor Loss: -186.6557159423828  
Episode 1688: Time: 0.10482430458068848, Total Reward: 100.38871102093836, Q Loss: 128.49890613555908, Actor Loss: -300.79794120788574  
Episode 1689: Time: 0.06113314628601074, Total Reward: 53.51171811592883, Q Loss: 67.7910327911377, Actor Loss: -177.24810409545898  
Episode 1690: Time: 0.06966090202331543, Total Reward: 63.21515771188062, Q Loss: 78.14951848983765, Actor Loss: -196.9045238494873  
Episode 1691: Time: 0.07900547981262207, Total Reward: 72.59316869404707, Q Loss: 66.62552690505981, Actor Loss: -227.63483238220215

Episode 1692: Time: 0.07829761505126953, Total Reward: 72.4045011085549, Q Loss: 81.93507862091064, Actor Loss: -221.97092628479004  
Episode 1693: Time: 0.06089615821838379, Total Reward: 53.42172205562951, Q Loss: 68.34649658203125, Actor Loss: -175.80656051635742  
Episode 1694: Time: 0.07037782669067383, Total Reward: 63.49796335080998, Q Loss: 75.02055501937866, Actor Loss: -197.70097732543945  
Episode 1695: Time: 0.0609278678894043, Total Reward: 53.519335768324694, Q Loss: 55.17677068710327, Actor Loss: -170.29166984558105  
Episode 1696: Time: 0.06089043617248535, Total Reward: 53.98327463929228, Q Loss: 60.2870192527771, Actor Loss: -180.30628204345703  
Episode 1697: Time: 0.07883620262145996, Total Reward: 72.1626940758189, Q Loss: 86.91677188873291, Actor Loss: -225.74135208129883  
Episode 1698: Time: 0.052401304244499512, Total Reward: 43.95536709805618, Q Loss: 66.5841612815857, Actor Loss: -157.15095901489258  
Episode 1699: Time: 0.0524296760559082, Total Reward: 44.5880285876827, Q Loss: 44.81992745399475, Actor Loss: -143.74978828430176  
Validation Mean: 65.67798162218905, Validation Std: 13.689758035603717  
saving model  
Episode 1700: Time: 0.08724570274353027, Total Reward: 81.5872438239144, Q Loss: 88.62077522277832, Actor Loss: -257.0788803100586  
Episode 1701: Time: 0.07845401763916016, Total Reward: 72.63247358083936, Q Loss: 89.22898530960083, Actor Loss: -227.20174980163574  
Episode 1702: Time: 0.052919864654541016, Total Reward: 44.3605516506761, Q Loss: 70.03716373443604, Actor Loss: -147.3684139251709  
Episode 1703: Time: 0.05269432067871094, Total Reward: 44.69664502612782, Q Loss: 51.98299312591553, Actor Loss: -158.32714462280273  
Episode 1704: Time: 0.07875871658325195, Total Reward: 72.38829078328386, Q Loss: 79.99156188964844, Actor Loss: -234.62352752685547  
Episode 1705: Time: 0.07011079788208008, Total Reward: 63.534677856166546, Q Loss: 73.15426111221313, Actor Loss: -197.01747512817383  
Episode 1706: Time: 0.060984134674072266, Total Reward: 54.007350977885864, Q Loss: 66.01540756225586, Actor Loss: -187.27769470214844  
Episode 1707: Time: 0.06112241744995117, Total Reward: 53.373764383472555, Q Loss: 75.11185026168823, Actor Loss: -183.82851791381836  
Episode 1708: Time: 0.06086587905883789, Total Reward: 53.486709266230065, Q Loss: 70.56010293960571, Actor Loss: -182.51157569885254  
Episode 1709: Time: 0.052802324295043945, Total Reward: 44.583500330584556, Q Loss: 70.15527534484863, Actor Loss: -146.5621223449707  
Episode 1710: Time: 0.06959939002990723, Total Reward: 62.62236635367429, Q Loss: 83.0280122756958, Actor Loss: -218.962739944458  
Episode 1711: Time: 0.0694131851196289, Total Reward: 63.27923107971728, Q Loss: 79.88131260871887, Actor Loss: -197.9579086303711  
Episode 1712: Time: 0.06106853485107422, Total Reward: 53.51764517247139, Q Loss: 53.90857219696045, Actor Loss: -178.75735092163086  
Episode 1713: Time: 0.06109261512756348, Total Reward: 53.820327360707566, Q Loss: 74.65613603591919, Actor Loss: -183.8536319732666  
Episode 1714: Time: 0.06086087226867676, Total Reward: 53.21698000665818, Q Loss: 58.96588897705078, Actor Loss: -180.74957466125488  
Episode 1715: Time: 0.06068611145019531, Total Reward: 53.980052978684775, Q Loss: 63.3861083984375, Actor Loss: -191.57217407226562  
Episode 1716: Time: 0.052809715270996094, Total Reward: 44.631180468898194, Q Loss: 66.42799186706543, Actor Loss: -162.69572639465332  
Episode 1717: Time: 0.06095004081726074, Total Reward: 54.05819690560592, Q Loss: 52.32567477226257, Actor Loss: -183.64001846313477  
Episode 1718: Time: 0.060799360275268555, Total Reward: 53.50739650466541, Q Loss: 48.67963123321533, Actor Loss: -190.94465255737305

Episode 1719: Time: 0.052069902420043945, Total Reward: 44.67986644188831, Q Loss: 72.24936485290527, Actor Loss: -161.8946876525879  
Episode 1720: Time: 0.06112313270568848, Total Reward: 54.13848299620768, Q Loss: 62.625184059143066, Actor Loss: -191.05022430419922  
Episode 1721: Time: 0.06936478614807129, Total Reward: 63.474888280720535, Q Loss: 70.32685232162476, Actor Loss: -216.06417083740234  
Episode 1722: Time: 0.06073927879333496, Total Reward: 54.07913100978253, Q Loss: 69.65954685211182, Actor Loss: -184.45763969421387  
Episode 1723: Time: 0.052037954330444336, Total Reward: 44.555850443115006, Q Loss: 57.661715507507324, Actor Loss: -162.7781581878662  
Episode 1724: Time: 0.06118631362915039, Total Reward: 53.97075255271497, Q Loss: 61.69621181488037, Actor Loss: -192.7170295715332  
Episode 1725: Time: 0.09561014175415039, Total Reward: 90.63367363664015, Q Loss: 79.76716208457947, Actor Loss: -299.13378524780273  
Episode 1726: Time: 0.06939172744750977, Total Reward: 62.9746602113119, Q Loss: 56.18864631652832, Actor Loss: -208.44689559936523  
Episode 1727: Time: 0.07848024368286133, Total Reward: 72.6591406903953, Q Loss: 88.63813591003418, Actor Loss: -240.14139938354492  
Episode 1728: Time: 0.09568953514099121, Total Reward: 90.82259280054863, Q Loss: 97.57486200332642, Actor Loss: -296.28787994384766  
Episode 1729: Time: 0.14750337600708008, Total Reward: 146.54592486992115, Q Loss: 161.68898248672485, Actor Loss: -460.86612701416016  
Episode 1730: Time: 0.06103062629699707, Total Reward: 53.950371705172145, Q Loss: 61.8825249671936, Actor Loss: -200.73072242736816  
Episode 1731: Time: 0.13988113403320312, Total Reward: 137.77479835669595, Q Loss: 146.38059258460999, Actor Loss: -437.03667068481445  
Episode 1732: Time: 0.07007074356079102, Total Reward: 63.07288827323658, Q Loss: 71.55587720870972, Actor Loss: -239.94231605529785  
Episode 1733: Time: 0.07838869094848633, Total Reward: 72.30075942153736, Q Loss: 80.514151096344, Actor Loss: -253.38309288024902  
Episode 1734: Time: 0.06154608726501465, Total Reward: 53.88828436399213, Q Loss: 48.85696268081665, Actor Loss: -197.77647399902344  
Episode 1735: Time: 0.09558629989624023, Total Reward: 91.23780953869702, Q Loss: 100.52567481994629, Actor Loss: -312.75311279296875  
Episode 1736: Time: 0.06963348388671875, Total Reward: 62.72758154857801, Q Loss: 59.35249161720276, Actor Loss: -224.25872421264648  
Episode 1737: Time: 0.08771657943725586, Total Reward: 81.66332035204516, Q Loss: 85.07545852661133, Actor Loss: -284.36975479125977  
Episode 1738: Time: 0.06094813346862793, Total Reward: 53.697954392295365, Q Loss: 50.52214002609253, Actor Loss: -198.54217147827148  
Episode 1739: Time: 0.0608983039855957, Total Reward: 53.99670728498865, Q Loss: 46.168365478515625, Actor Loss: -204.71883583068848  
Episode 1740: Time: 0.06955552101135254, Total Reward: 63.36253809532887, Q Loss: 65.48267555236816, Actor Loss: -227.87434005737305  
Episode 1741: Time: 0.10454225540161133, Total Reward: 100.58459913144797, Q Loss: 105.98826694488525, Actor Loss: -348.2260856628418  
Episode 1742: Time: 0.06079745292663574, Total Reward: 54.04872210484585, Q Loss: 69.62283945083618, Actor Loss: -207.35614585876465  
Episode 1743: Time: 0.0610506534576416, Total Reward: 53.7714768696397, Q Loss: 61.24518966674805, Actor Loss: -195.78805541992188  
Episode 1744: Time: 0.06100201606750488, Total Reward: 53.40521221619178, Q Loss: 63.49812841415405, Actor Loss: -196.24083137512207  
Episode 1745: Time: 0.11312222480773926, Total Reward: 109.67283211941508, Q Loss: 106.99574708938599, Actor Loss: -380.1830291748047  
Episode 1746: Time: 0.08665013313293457, Total Reward: 81.97883782358372, Q Loss: 79.05994081497192, Actor Loss: -283.5425853729248

Episode 1747: Time: 0.06957435607910156, Total Reward: 62.90858221977678, Q Loss: 68.37156057357788, Actor Loss: -231.91994094848633  
Episode 1748: Time: 0.06979250907897949, Total Reward: 63.20799374626095, Q Loss: 70.06704092025757, Actor Loss: -226.95294761657715  
Episode 1749: Time: 0.06961655616760254, Total Reward: 63.20091911126058, Q Loss: 66.05801725387573, Actor Loss: -237.18582916259766  
Episode 1750: Time: 0.06958389282226562, Total Reward: 63.23051881292985, Q Loss: 52.719210624694824, Actor Loss: -228.1520004272461  
Episode 1751: Time: 0.07861328125, Total Reward: 71.90364286326742, Q Loss: 71.15215516090393, Actor Loss: -262.0927486419678  
Episode 1752: Time: 0.07840967178344727, Total Reward: 72.6348848815748, Q Loss: 60.53142070770264, Actor Loss: -245.33334350585938  
Episode 1753: Time: 0.06087493896484375, Total Reward: 53.709464504778694, Q Loss: 65.40072822570801, Actor Loss: -206.81528663635254  
Episode 1754: Time: 0.07867074012756348, Total Reward: 72.52437440680414, Q Loss: 81.65013456344604, Actor Loss: -273.4928398132324  
Episode 1755: Time: 0.06962013244628906, Total Reward: 63.34830630885175, Q Loss: 71.83521461486816, Actor Loss: -225.54108810424805  
Episode 1756: Time: 0.07846379280090332, Total Reward: 72.90914952128985, Q Loss: 67.55688571929932, Actor Loss: -276.8271942138672  
Episode 1757: Time: 0.0630640983581543, Total Reward: 53.42421878503597, Q Loss: 48.524752616882324, Actor Loss: -195.53736686706543  
Episode 1758: Time: 0.052802085876464844, Total Reward: 44.0890894062776, Q Loss: 46.74695062637329, Actor Loss: -179.7146110534668  
Episode 1759: Time: 0.06989216804504395, Total Reward: 62.67660951104058, Q Loss: 59.588085889816284, Actor Loss: -225.75922393798828  
Episode 1760: Time: 0.06099653244018555, Total Reward: 53.9986152293327, Q Loss: 50.16672134399414, Actor Loss: -220.90917205810547  
Episode 1761: Time: 0.061397552490234375, Total Reward: 53.491080201953004, Q Loss: 47.93788456916809, Actor Loss: -203.0981044769287  
Episode 1762: Time: 0.05211663246154785, Total Reward: 44.41135090399324, Q Loss: 59.658108711242676, Actor Loss: -180.49612426757812  
Episode 1763: Time: 0.0780789852142334, Total Reward: 72.32149623826783, Q Loss: 70.14245414733887, Actor Loss: -261.9129047393799  
Episode 1764: Time: 0.06938409805297852, Total Reward: 63.06710968057205, Q Loss: 75.05276250839233, Actor Loss: -247.46321296691895  
Episode 1765: Time: 0.06985163688659668, Total Reward: 62.720946095314495, Q Loss: 64.81158447265625, Actor Loss: -225.7879467010498  
Episode 1766: Time: 0.07242631912231445, Total Reward: 62.71695922847892, Q Loss: 55.771239280700684, Actor Loss: -244.2018642425537  
Episode 1767: Time: 0.0904226303100586, Total Reward: 81.3710063352815, Q Loss: 80.18099546432495, Actor Loss: -291.28647804260254  
Episode 1768: Time: 0.0627133846282959, Total Reward: 53.97879672897714, Q Loss: 60.69705772399902, Actor Loss: -209.00419235229492  
Episode 1769: Time: 0.05257701873779297, Total Reward: 44.24069386872082, Q Loss: 47.639668464660645, Actor Loss: -178.21226501464844  
Episode 1770: Time: 0.05203580856323242, Total Reward: 43.98765807437283, Q Loss: 41.396031856536865, Actor Loss: -187.7130889892578  
Episode 1771: Time: 0.061255693435668945, Total Reward: 53.71555506998719, Q Loss: 65.51591062545776, Actor Loss: -204.188720703125  
Episode 1772: Time: 0.06138801574707031, Total Reward: 54.06248640775661, Q Loss: 45.75693702697754, Actor Loss: -218.86218070983887  
Episode 1773: Time: 0.07217049598693848, Total Reward: 63.45728844592059, Q Loss: 56.47242450714111, Actor Loss: -233.50531578063965  
Episode 1774: Time: 0.061704158782958984, Total Reward: 53.429253741944635, Q Loss: 41.72143483161926, Actor Loss: -216.4855556488037



Episode 1775: Time: 0.0704197883605957, Total Reward: 63.163616221574074, Q Loss: 64.60964965820312, Actor Loss: -251.48050498962402  
Episode 1776: Time: 0.06109786033630371, Total Reward: 53.73948704253213, Q Loss: 42.634122133255005, Actor Loss: -203.33883094787598  
Episode 1777: Time: 0.06141400337219238, Total Reward: 53.95694032489832, Q Loss: 48.04614233970642, Actor Loss: -212.65812492370605  
Episode 1778: Time: 0.06968259811401367, Total Reward: 63.233853868590764, Q Loss: 53.3227972984314, Actor Loss: -248.02410125732422  
Episode 1779: Time: 0.09615445137023926, Total Reward: 91.1185452220486, Q Loss: 72.25933527946472, Actor Loss: -317.8858337402344  
Episode 1780: Time: 0.06986832618713379, Total Reward: 63.188307723624554, Q Loss: 50.98577642440796, Actor Loss: -242.10429573059082  
Episode 1781: Time: 0.0694122314453125, Total Reward: 63.33780499642841, Q Loss: 58.106650590896606, Actor Loss: -242.07169342041016  
Episode 1782: Time: 0.061331748962402344, Total Reward: 53.948021922022505, Q Loss: 42.080315589904785, Actor Loss: -224.9802646636963  
Episode 1783: Time: 0.07022833824157715, Total Reward: 63.28270753308062, Q Loss: 64.72871494293213, Actor Loss: -245.01634407043457  
Episode 1784: Time: 0.05237579345703125, Total Reward: 44.65896862245677, Q Loss: 49.65874910354614, Actor Loss: -181.18771743774414  
Episode 1785: Time: 0.06952977180480957, Total Reward: 63.34363502851882, Q Loss: 58.34599447250366, Actor Loss: -256.10533142089844  
Episode 1786: Time: 0.06150555610656738, Total Reward: 53.22581287298731, Q Loss: 53.77732229232788, Actor Loss: -208.43348503112793  
Episode 1787: Time: 0.061272621154785156, Total Reward: 54.04614492917841, Q Loss: 43.86883497238159, Actor Loss: -196.83672523498535  
Episode 1788: Time: 0.06101036071777344, Total Reward: 53.70972514907199, Q Loss: 49.01279592514038, Actor Loss: -206.80744743347168  
Episode 1789: Time: 0.06080484390258789, Total Reward: 53.64878482957075, Q Loss: 51.22511386871338, Actor Loss: -213.00810623168945  
Episode 1790: Time: 0.07000350952148438, Total Reward: 62.875903679199105, Q Loss: 48.56835746765137, Actor Loss: -237.04322814941406  
Episode 1791: Time: 0.06154656410217285, Total Reward: 53.68554723744003, Q Loss: 44.31896495819092, Actor Loss: -220.67693519592285  
Episode 1792: Time: 0.06973743438720703, Total Reward: 62.98284181466808, Q Loss: 56.764700174331665, Actor Loss: -242.08137893676758  
Episode 1793: Time: 0.07030200958251953, Total Reward: 63.29543504841737, Q Loss: 63.810218811035156, Actor Loss: -253.90781211853027  
Episode 1794: Time: 0.06143665313720703, Total Reward: 54.24846968699282, Q Loss: 47.52618932723999, Actor Loss: -223.0766887664795  
Episode 1795: Time: 0.07837367057800293, Total Reward: 72.26936373017253, Q Loss: 62.57951784133911, Actor Loss: -270.54124641418457  
Episode 1796: Time: 0.06115126609802246, Total Reward: 53.805049407699215, Q Loss: 38.03048539161682, Actor Loss: -219.91004943847656  
Episode 1797: Time: 0.06139874458312988, Total Reward: 53.60518854569476, Q Loss: 41.8972053527832, Actor Loss: -206.53371238708496  
Episode 1798: Time: 0.052340030670166016, Total Reward: 44.732616392299605, Q Loss: 32.76501178741455, Actor Loss: -189.05001068115234  
Episode 1799: Time: 0.06100320816040039, Total Reward: 53.63280166464184, Q Loss: 52.80435037612915, Actor Loss: -217.85371208190918  
Validation Mean: 66.61245524471214, Validation Std: 21.162387896946964  
saving model  
Episode 1800: Time: 0.07977294921875, Total Reward: 72.12228899368348, Q Loss: 63.31193494796753, Actor Loss: -274.4323787689209  
Episode 1801: Time: 0.12299370765686035, Total Reward: 119.17819100329599, Q Loss: 98.43594217300415, Actor Loss: -438.81843757629395

Episode 1802: Time: 0.06131553649902344, Total Reward: 53.88386108878164, Q Loss: 41.375786542892456, Actor Loss: -208.5749111175537  
Episode 1803: Time: 0.15708088874816895, Total Reward: 156.268222568476, Q Loss: 112.53916335105896, Actor Loss: -564.6646823883057  
Episode 1804: Time: 0.06104397773742676, Total Reward: 54.171647258370896, Q Loss: 58.21128988265991, Actor Loss: -227.03252029418945  
Episode 1805: Time: 0.06942892074584961, Total Reward: 62.92762950969744, Q Loss: 50.891067028045654, Actor Loss: -247.9299545288086  
Episode 1806: Time: 0.10453295707702637, Total Reward: 100.31135570184681, Q Loss: 73.62978196144104, Actor Loss: -369.96646308898926  
Episode 1807: Time: 0.07828640937805176, Total Reward: 72.20524811005875, Q Loss: 52.64851379394531, Actor Loss: -262.30089569091797  
Episode 1808: Time: 0.06067204475402832, Total Reward: 53.54116235087347, Q Loss: 47.972636699676514, Actor Loss: -227.05714797973633  
Episode 1809: Time: 0.07003426551818848, Total Reward: 63.00291929097984, Q Loss: 50.59707832336426, Actor Loss: -252.00969314575195  
Episode 1810: Time: 0.06937813758850098, Total Reward: 62.796571929754045, Q Loss: 40.17796206474304, Actor Loss: -238.329984664917  
Episode 1811: Time: 0.06079602241516113, Total Reward: 54.106183022072756, Q Loss: 52.151094913482666, Actor Loss: -229.31462287902832  
Episode 1812: Time: 0.09553766250610352, Total Reward: 90.97014436762562, Q Loss: 84.90060782432556, Actor Loss: -351.9057960510254  
Episode 1813: Time: 0.0782170295715332, Total Reward: 72.57311352952205, Q Loss: 60.55648422241211, Actor Loss: -287.66760635375977  
Episode 1814: Time: 0.07815742492675781, Total Reward: 72.71111128434265, Q Loss: 60.347002029418945, Actor Loss: -283.63377380371094  
Episode 1815: Time: 0.07018399238586426, Total Reward: 62.51476971812339, Q Loss: 57.509889125823975, Actor Loss: -255.69048690795898  
Episode 1816: Time: 0.10442733764648438, Total Reward: 100.24498609928357, Q Loss: 92.68834590911865, Actor Loss: -389.61923027038574  
Episode 1817: Time: 0.06084489822387695, Total Reward: 53.93400762299872, Q Loss: 43.43633413314819, Actor Loss: -212.59597206115723  
Episode 1818: Time: 0.061541080474853516, Total Reward: 53.98526612785209, Q Loss: 34.592204570770264, Actor Loss: -221.37780570983887  
Episode 1819: Time: 0.12135648727416992, Total Reward: 119.1484240229976, Q Loss: 96.86256885528564, Actor Loss: -446.2555751800537  
Episode 1820: Time: 0.06961846351623535, Total Reward: 62.64897830085947, Q Loss: 51.005942821502686, Actor Loss: -247.98114585876465  
Episode 1821: Time: 0.08728218078613281, Total Reward: 81.83734031597669, Q Loss: 64.16560792922974, Actor Loss: -313.6159381866455  
Episode 1822: Time: 0.06106209754943848, Total Reward: 53.98401626007753, Q Loss: 40.87423849105835, Actor Loss: -227.5136947631836  
Episode 1823: Time: 0.06954765319824219, Total Reward: 62.6139061133491, Q Loss: 56.94208574295044, Actor Loss: -252.58132934570312  
Episode 1824: Time: 0.1823434829711914, Total Reward: 184.63168208395203, Q Loss: 145.89174437522888, Actor Loss: -679.942533493042  
Episode 1825: Time: 0.06938338279724121, Total Reward: 62.63607908590248, Q Loss: 53.46652960777283, Actor Loss: -262.85954093933105  
Episode 1826: Time: 0.06942272186279297, Total Reward: 62.96255711126589, Q Loss: 41.03165888786316, Actor Loss: -260.60583877563477  
Episode 1827: Time: 0.07849335670471191, Total Reward: 72.39705798064772, Q Loss: 61.61569023132324, Actor Loss: -304.3552494049072  
Episode 1828: Time: 0.07828617095947266, Total Reward: 72.79495268844941, Q Loss: 57.67014980316162, Actor Loss: -289.14887619018555  
Episode 1829: Time: 0.08647465705871582, Total Reward: 81.60711099926101, Q Loss: 54.43404245376587, Actor Loss: -329.0943660736084

Episode 1830: Time: 0.07868170738220215, Total Reward: 72.62601294208766, Q Loss: 40.15549969673157, Actor Loss: -297.1326541900635  
Episode 1831: Time: 0.060884952545166016, Total Reward: 54.00317518635089, Q Loss: 41.394667625427246, Actor Loss: -229.79313278198242  
Episode 1832: Time: 0.07797074317932129, Total Reward: 72.46909555368651, Q Loss: 56.610429763793945, Actor Loss: -285.14280700683594  
Episode 1833: Time: 0.06964945793151855, Total Reward: 63.183325793600545, Q Loss: 37.32572793960571, Actor Loss: -257.14442443847656  
Episode 1834: Time: 0.08655142784118652, Total Reward: 82.12787775648174, Q Loss: 61.09022808074951, Actor Loss: -319.2135696411133  
Episode 1835: Time: 0.06938910484313965, Total Reward: 63.30028112504287, Q Loss: 47.35403084754944, Actor Loss: -262.1178035736084  
Episode 1836: Time: 0.061396121978759766, Total Reward: 53.92590754159087, Q Loss: 30.494794130325317, Actor Loss: -212.8743438720703  
Episode 1837: Time: 0.06941342353820801, Total Reward: 62.78233537368732, Q Loss: 40.15657019615173, Actor Loss: -257.6032180786133  
Episode 1838: Time: 0.08676648139953613, Total Reward: 82.10124507677244, Q Loss: 59.28110599517822, Actor Loss: -317.2852096557617  
Episode 1839: Time: 0.07009339332580566, Total Reward: 63.061526581177354, Q Loss: 43.36469864845276, Actor Loss: -261.6476001739502  
Episode 1840: Time: 0.2252352237701416, Total Reward: 229.88174481876635, Q Loss: 163.05555033683777, Actor Loss: -830.8953094482422  
Episode 1841: Time: 0.06959033012390137, Total Reward: 62.85332795167163, Q Loss: 52.61763048171997, Actor Loss: -262.5040225982666  
Episode 1842: Time: 0.07837915420532227, Total Reward: 72.53313462576602, Q Loss: 53.43632411956787, Actor Loss: -304.7535762786865  
Episode 1843: Time: 0.06984925270080566, Total Reward: 63.27948390164073, Q Loss: 47.89950942993164, Actor Loss: -255.37012672424316  
Episode 1844: Time: 0.07816720008850098, Total Reward: 72.48697078113835, Q Loss: 52.81980919837952, Actor Loss: -279.52919578552246  
Episode 1845: Time: 0.06945943832397461, Total Reward: 63.16743831092448, Q Loss: 43.58674502372742, Actor Loss: -264.088529586792  
Episode 1846: Time: 0.06998562812805176, Total Reward: 62.751672552268964, Q Loss: 37.37932825088501, Actor Loss: -267.63781547546387  
Episode 1847: Time: 0.06944704055786133, Total Reward: 62.918489173146575, Q Loss: 42.52855443954468, Actor Loss: -270.95593643188477  
Episode 1848: Time: 0.06949925422668457, Total Reward: 63.12715419042116, Q Loss: 41.57147407531738, Actor Loss: -255.99286079406738  
Episode 1849: Time: 0.06982135772705078, Total Reward: 63.501618070389405, Q Loss: 48.75795102119446, Actor Loss: -266.8566246032715  
Episode 1850: Time: 0.07820892333984375, Total Reward: 72.30125487798591, Q Loss: 59.69788312911987, Actor Loss: -296.62073707580566  
Episode 1851: Time: 0.06934905052185059, Total Reward: 62.815886416301474, Q Loss: 47.13422894477844, Actor Loss: -260.05771255493164  
Episode 1852: Time: 0.061026573181152344, Total Reward: 53.823461655699646, Q Loss: 44.42015528678894, Actor Loss: -235.03904914855957  
Episode 1853: Time: 0.060752153396606445, Total Reward: 54.12349112813891, Q Loss: 56.81106472015381, Actor Loss: -235.54368209838867  
Episode 1854: Time: 0.06091904640197754, Total Reward: 53.98987743736948, Q Loss: 42.889415979385376, Actor Loss: -226.65459632873535  
Episode 1855: Time: 0.0607759952545166, Total Reward: 54.185288372316336, Q Loss: 46.82929515838623, Actor Loss: -231.11125373840332  
Episode 1856: Time: 0.052741050720214844, Total Reward: 44.26913639957976, Q Loss: 40.50477457046509, Actor Loss: -204.86204528808594  
Episode 1857: Time: 0.060791730880737305, Total Reward: 53.736377049126645, Q Loss: 43.54447650909424, Actor Loss: -238.13268089294434

Episode 1858: Time: 0.06999659538269043, Total Reward: 63.0756606489175, Q Loss: 44.400370836257935, Actor Loss: -268.9937915802002  
Episode 1859: Time: 0.06090950965881348, Total Reward: 53.649711941868574, Q Loss: 45.06013035774231, Actor Loss: -230.2797679901123  
Episode 1860: Time: 0.052752017974853516, Total Reward: 44.13737272599497, Q Loss: 37.6086802482605, Actor Loss: -203.99414443969727  
Episode 1861: Time: 0.08697652816772461, Total Reward: 81.52286019473019, Q Loss: 61.139994859695435, Actor Loss: -330.40431022644043  
Episode 1862: Time: 0.0781850814819336, Total Reward: 72.83808059375393, Q Loss: 70.21456527709961, Actor Loss: -297.7637405395508  
Episode 1863: Time: 0.05330920219421387, Total Reward: 44.79236313121641, Q Loss: 34.88023662567139, Actor Loss: -197.9167251586914  
Episode 1864: Time: 0.06963062286376953, Total Reward: 63.450630158257596, Q Loss: 42.71035552024841, Actor Loss: -268.381404876709  
Episode 1865: Time: 0.07786750793457031, Total Reward: 72.38826784151325, Q Loss: 45.42971968650818, Actor Loss: -303.53855895996094  
Episode 1866: Time: 0.052642107009887695, Total Reward: 44.75990913779644, Q Loss: 38.881951332092285, Actor Loss: -205.3912239074707  
Episode 1867: Time: 0.06994938850402832, Total Reward: 63.386077730746464, Q Loss: 50.41530442237854, Actor Loss: -260.831750869751  
Episode 1868: Time: 0.12139773368835449, Total Reward: 119.3450128343776, Q Loss: 92.05925416946411, Actor Loss: -481.1459903717041  
Episode 1869: Time: 0.07002973556518555, Total Reward: 63.38944689520672, Q Loss: 57.78846025466919, Actor Loss: -270.1708641052246  
Episode 1870: Time: 0.06088709831237793, Total Reward: 53.657589391823606, Q Loss: 46.91340351104736, Actor Loss: -237.04139709472656  
Episode 1871: Time: 0.06931304931640625, Total Reward: 63.03119546860928, Q Loss: 45.476354360580444, Actor Loss: -272.8215084075928  
Episode 1872: Time: 0.07837486267089844, Total Reward: 72.41781328744942, Q Loss: 56.135926246643066, Actor Loss: -312.85026931762695  
Episode 1873: Time: 0.09522795677185059, Total Reward: 91.12415434039907, Q Loss: 65.64623475074768, Actor Loss: -380.7582244873047  
Episode 1874: Time: 0.07820987701416016, Total Reward: 72.63644158680758, Q Loss: 68.78590250015259, Actor Loss: -312.52331161499023  
Episode 1875: Time: 0.08711600303649902, Total Reward: 81.81119122323497, Q Loss: 58.40773296356201, Actor Loss: -338.2725086212158  
Episode 1876: Time: 0.06989479064941406, Total Reward: 63.50286213174276, Q Loss: 43.207284688949585, Actor Loss: -271.70870780944824  
Episode 1877: Time: 0.07834935188293457, Total Reward: 72.41723901972856, Q Loss: 52.11583089828491, Actor Loss: -299.68139839172363  
Episode 1878: Time: 0.10477328300476074, Total Reward: 100.5133595823378, Q Loss: 69.4872534275055, Actor Loss: -407.7646427154541  
Episode 1879: Time: 0.06950640678405762, Total Reward: 63.22852406036028, Q Loss: 41.46534299850464, Actor Loss: -273.4876289367676  
Episode 1880: Time: 0.0608670711517334, Total Reward: 53.31572456408335, Q Loss: 47.01350927352905, Actor Loss: -243.24376678466797  
Episode 1881: Time: 0.06079888343811035, Total Reward: 53.68899716404096, Q Loss: 41.4203565120697, Actor Loss: -244.9077262878418  
Episode 1882: Time: 0.08722949028015137, Total Reward: 81.6300645240935, Q Loss: 60.421905517578125, Actor Loss: -344.1232433319092  
Episode 1883: Time: 0.052106618881225586, Total Reward: 44.4767370311072, Q Loss: 30.700196743011475, Actor Loss: -208.45634841918945  
Episode 1884: Time: 0.0693511962890625, Total Reward: 63.32411395361706, Q Loss: 50.099700927734375, Actor Loss: -259.92426109313965  
Episode 1885: Time: 0.08708691596984863, Total Reward: 81.41365143405744, Q Loss: 56.02556371688843, Actor Loss: -345.4563846588135

Episode 1886: Time: 0.07805752754211426, Total Reward: 72.93585735789976, Q Loss: 47.78083324432373, Actor Loss: -306.0116195678711  
Episode 1887: Time: 0.156325101852417, Total Reward: 156.61439999508255, Q Loss: 116.3835802078247, Actor Loss: -615.6415863037109  
Episode 1888: Time: 0.0782926082611084, Total Reward: 72.78540834659687, Q Loss: 57.36582851409912, Actor Loss: -314.92449951171875  
Episode 1889: Time: 0.07795071601867676, Total Reward: 72.36820748250352, Q Loss: 62.21268606185913, Actor Loss: -327.92578887939453  
Episode 1890: Time: 0.07007622718811035, Total Reward: 63.482873251935914, Q Loss: 45.467570781707764, Actor Loss: -275.4633388519287  
Episode 1891: Time: 0.06945538520812988, Total Reward: 63.161275190119525, Q Loss: 49.95789384841919, Actor Loss: -282.7305507659912  
Episode 1892: Time: 0.07847356796264648, Total Reward: 72.91164759499887, Q Loss: 52.411879539489746, Actor Loss: -307.6711120605469  
Episode 1893: Time: 0.0700540542602539, Total Reward: 63.27097077622928, Q Loss: 50.17476749420166, Actor Loss: -278.29753494262695  
Episode 1894: Time: 0.06071138381958008, Total Reward: 54.14085855548776, Q Loss: 36.35441279411316, Actor Loss: -229.10403633117676  
Episode 1895: Time: 0.06946587562561035, Total Reward: 63.4493790814658, Q Loss: 57.93948984146118, Actor Loss: -262.82151794433594  
Episode 1896: Time: 0.12176322937011719, Total Reward: 119.09240399308013, Q Loss: 92.7183609008789, Actor Loss: -477.7194766998291  
Episode 1897: Time: 0.07828712463378906, Total Reward: 72.76508130748131, Q Loss: 62.94375038146973, Actor Loss: -297.4875717163086  
Episode 1898: Time: 0.06084728240966797, Total Reward: 54.06585240469603, Q Loss: 38.62073636054993, Actor Loss: -248.1450309753418  
Episode 1899: Time: 0.07005906105041504, Total Reward: 62.73494933643838, Q Loss: 41.43980169296265, Actor Loss: -272.3445129394531  
Validation Mean: 69.97519605365711, Validation Std: 22.304320259579455  
saving model  
Episode 1900: Time: 0.08738040924072266, Total Reward: 81.48653378219936, Q Loss: 63.306039810180664, Actor Loss: -358.82414627075195  
Episode 1901: Time: 0.06949424743652344, Total Reward: 63.04524671401294, Q Loss: 44.41988682746887, Actor Loss: -290.0283908843994  
Episode 1902: Time: 0.061489105224609375, Total Reward: 54.124210973601826, Q Loss: 40.31177759170532, Actor Loss: -241.92733764648438  
Episode 1903: Time: 0.09568023681640625, Total Reward: 91.61862944086734, Q Loss: 63.603689193725586, Actor Loss: -391.5776309967041  
Episode 1904: Time: 0.07842111587524414, Total Reward: 72.78939497473867, Q Loss: 54.14637565612793, Actor Loss: -304.99407958984375  
Episode 1905: Time: 0.0963292121887207, Total Reward: 90.83786568004506, Q Loss: 59.90595865249634, Actor Loss: -377.93890953063965  
Episode 1906: Time: 0.07861566543579102, Total Reward: 72.13934558411312, Q Loss: 60.51518487930298, Actor Loss: -299.75102615356445  
Episode 1907: Time: 0.060853004455566406, Total Reward: 53.67860376714018, Q Loss: 58.97578549385071, Actor Loss: -246.44720840454102  
Episode 1908: Time: 0.19165706634521484, Total Reward: 193.15276002770838, Q Loss: 150.6025881767273, Actor Loss: -771.2302322387695  
Episode 1909: Time: 0.06968927383422852, Total Reward: 63.36489546303845, Q Loss: 54.22997570037842, Actor Loss: -285.49878120422363  
Episode 1910: Time: 0.06940340995788574, Total Reward: 63.15135450202625, Q Loss: 39.048750162124634, Actor Loss: -279.248104095459  
Episode 1911: Time: 0.14796924591064453, Total Reward: 146.49022731626252, Q Loss: 93.55738568305969, Actor Loss: -582.3942985534668  
Episode 1912: Time: 0.06969022750854492, Total Reward: 63.53363956719128, Q Loss: 44.36550283432007, Actor Loss: -280.22239112854004

Episode 1913: Time: 0.0782308578491211, Total Reward: 72.29477327662951, Q Loss: 50.625576972961426, Actor Loss: -302.33690071105957  
Episode 1914: Time: 0.0701894760131836, Total Reward: 63.43163888583427, Q Loss: 45.2696852684021, Actor Loss: -283.7044620513916  
Episode 1915: Time: 0.0783538818359375, Total Reward: 72.8578537903527, Q Loss: 50.256858825683594, Actor Loss: -305.3660430908203  
Episode 1916: Time: 0.06956672668457031, Total Reward: 63.61995161190763, Q Loss: 47.51461100578308, Actor Loss: -259.1920967102051  
Episode 1917: Time: 0.07016491889953613, Total Reward: 63.401152623285164, Q Loss: 47.22637867927551, Actor Loss: -285.10980224609375  
Episode 1918: Time: 0.06103324890136719, Total Reward: 53.86621196662108, Q Loss: 46.526498317718506, Actor Loss: -242.2978744506836  
Episode 1919: Time: 0.0695955753326416, Total Reward: 63.20470506135321, Q Loss: 46.82255554199219, Actor Loss: -273.1304988861084  
Episode 1920: Time: 0.06978297233581543, Total Reward: 63.20271395894552, Q Loss: 39.92241382598877, Actor Loss: -273.39075660705566  
Episode 1921: Time: 0.06968569755554199, Total Reward: 62.90410679119117, Q Loss: 42.043034076690674, Actor Loss: -287.77845001220703  
Episode 1922: Time: 0.06963634490966797, Total Reward: 62.959965469190706, Q Loss: 59.632511615753174, Actor Loss: -289.3235206604004  
Episode 1923: Time: 0.06238579750061035, Total Reward: 54.25921259274531, Q Loss: 39.74453639984131, Actor Loss: -241.19888305664062  
Episode 1924: Time: 0.08700680732727051, Total Reward: 81.7271850827524, Q Loss: 60.412410259246826, Actor Loss: -350.99232292175293  
Episode 1925: Time: 0.07813024520874023, Total Reward: 72.63756342942737, Q Loss: 64.41102981567383, Actor Loss: -314.86559677124023  
Episode 1926: Time: 0.0699625015258789, Total Reward: 63.29623726960114, Q Loss: 48.503228425979614, Actor Loss: -291.69942474365234  
Episode 1927: Time: 0.06102776527404785, Total Reward: 54.21726830972086, Q Loss: 37.87206792831421, Actor Loss: -230.22415733337402  
Episode 1928: Time: 0.06978654861450195, Total Reward: 63.07814158737193, Q Loss: 50.94461727142334, Actor Loss: -282.21456146240234  
Episode 1929: Time: 0.07884669303894043, Total Reward: 72.35035741396288, Q Loss: 65.60408735275269, Actor Loss: -327.85004234313965  
Episode 1930: Time: 0.07826089859008789, Total Reward: 72.42109618651843, Q Loss: 48.783761739730835, Actor Loss: -335.075138092041  
Episode 1931: Time: 0.08676552772521973, Total Reward: 81.89589772999688, Q Loss: 69.437180519104, Actor Loss: -348.9693908691406  
Episode 1932: Time: 0.061246395111083984, Total Reward: 54.12311455192692, Q Loss: 44.242165327072144, Actor Loss: -241.2453784942627  
Episode 1933: Time: 0.07825565338134766, Total Reward: 72.62989681241235, Q Loss: 50.2009072303772, Actor Loss: -318.6409969329834  
Episode 1934: Time: 0.08694911003112793, Total Reward: 82.16350804771625, Q Loss: 66.38520622253418, Actor Loss: -367.53100204467773  
Episode 1935: Time: 0.08770322799682617, Total Reward: 81.6405117719428, Q Loss: 71.8685200214386, Actor Loss: -364.9376754760742  
Episode 1936: Time: 0.0784919261932373, Total Reward: 72.4306814959297, Q Loss: 54.10541343688965, Actor Loss: -317.587194442749  
Episode 1937: Time: 0.0696249008178711, Total Reward: 63.36068224685941, Q Loss: 44.42744779586792, Actor Loss: -270.05876541137695  
Episode 1938: Time: 0.07876467704772949, Total Reward: 72.14037365576516, Q Loss: 48.34994697570801, Actor Loss: -304.502836227417  
Episode 1939: Time: 0.0699305534362793, Total Reward: 63.20800522261548, Q Loss: 38.89093017578125, Actor Loss: -277.6566104888916  
Episode 1940: Time: 0.07021355628967285, Total Reward: 63.18523845106913, Q Loss: 58.97063159942627, Actor Loss: -296.4003677368164

Episode 1941: Time: 0.10519599914550781, Total Reward: 100.53480518441457, Q Loss: 76.59631490707397, Actor Loss: -427.58763694763184  
Episode 1942: Time: 0.06976866722106934, Total Reward: 63.253763075245686, Q Loss: 43.81900644302368, Actor Loss: -282.7810287475586  
Episode 1943: Time: 0.06113600730895996, Total Reward: 54.27367941180146, Q Loss: 47.999361991882324, Actor Loss: -249.35888290405273  
Episode 1944: Time: 0.07910442352294922, Total Reward: 72.69163193227881, Q Loss: 58.857802629470825, Actor Loss: -317.50238609313965  
Episode 1945: Time: 0.061723947525024414, Total Reward: 53.77313417015381, Q Loss: 45.029069900512695, Actor Loss: -240.47557830810547  
Episode 1946: Time: 0.07836151123046875, Total Reward: 73.01996017559833, Q Loss: 53.812986850738525, Actor Loss: -323.5541534423828  
Episode 1947: Time: 0.0703730583190918, Total Reward: 63.005452598983204, Q Loss: 45.96380567550659, Actor Loss: -296.5829277038574  
Episode 1948: Time: 0.06986474990844727, Total Reward: 63.27630054096736, Q Loss: 66.08890771865845, Actor Loss: -279.2684383392334  
Episode 1949: Time: 0.06984782218933105, Total Reward: 63.243410005858976, Q Loss: 46.8399338722229, Actor Loss: -291.78242683410645  
Episode 1950: Time: 0.06153535842895508, Total Reward: 53.71163002367972, Q Loss: 47.44892501831055, Actor Loss: -257.7438850402832  
Episode 1951: Time: 0.0610814094543457, Total Reward: 53.99705945655291, Q Loss: 50.965142011642456, Actor Loss: -249.63445472717285  
Episode 1952: Time: 0.06986784934997559, Total Reward: 63.17362043408013, Q Loss: 49.46177291870117, Actor Loss: -290.9879665374756  
Episode 1953: Time: 0.19167304039001465, Total Reward: 193.06960728777372, Q Loss: 134.4791374206543, Actor Loss: -789.3371696472168  
Episode 1954: Time: 0.06971049308776855, Total Reward: 63.04471658698668, Q Loss: 48.90464401245117, Actor Loss: -286.3025093078613  
Episode 1955: Time: 0.08692431449890137, Total Reward: 82.00705929872927, Q Loss: 72.79461288452148, Actor Loss: -355.7638397216797  
Episode 1956: Time: 0.061513423919677734, Total Reward: 54.0660620579093, Q Loss: 41.04595470428467, Actor Loss: -249.04461669921875  
Episode 1957: Time: 0.0783989429473877, Total Reward: 72.57402456178954, Q Loss: 73.42176151275635, Actor Loss: -334.5732307434082  
Episode 1958: Time: 0.06964397430419922, Total Reward: 63.18505324859312, Q Loss: 44.143293380737305, Actor Loss: -293.0850601196289  
Episode 1959: Time: 0.07866668701171875, Total Reward: 72.85108464918468, Q Loss: 58.75695276260376, Actor Loss: -317.6342315673828  
Episode 1960: Time: 0.07844209671020508, Total Reward: 72.89959853892998, Q Loss: 57.82328653335571, Actor Loss: -330.82873153686523  
Episode 1961: Time: 0.07824277877807617, Total Reward: 72.24803890977945, Q Loss: 63.59461307525635, Actor Loss: -325.15973472595215  
Episode 1962: Time: 0.061136484146118164, Total Reward: 54.177625860238656, Q Loss: 40.27875590324402, Actor Loss: -251.16804885864258  
Episode 1963: Time: 0.11286520957946777, Total Reward: 109.70907934337195, Q Loss: 88.96773982048035, Actor Loss: -445.6591167449951  
Episode 1964: Time: 0.09567999839782715, Total Reward: 91.30137964762001, Q Loss: 68.86383509635925, Actor Loss: -383.5948829650879  
Episode 1965: Time: 0.05281496047973633, Total Reward: 44.346427387458135, Q Loss: 34.680771350860596, Actor Loss: -207.30940055847168  
Episode 1966: Time: 0.061612844467163086, Total Reward: 53.96469034067253, Q Loss: 47.2069206237793, Actor Loss: -265.16135597229004  
Episode 1967: Time: 0.07014608383178711, Total Reward: 63.232627243709054, Q Loss: 52.408801555633545, Actor Loss: -288.00462913513184  
Episode 1968: Time: 0.06189393997192383, Total Reward: 53.91869103873363, Q Loss: 58.025757789611816, Actor Loss: -259.19680976867676

Episode 1969: Time: 0.06992697715759277, Total Reward: 63.45269825549037, Q Loss: 54.84378910064697, Actor Loss: -288.1634826660156  
Episode 1970: Time: 0.07847476005554199, Total Reward: 72.32482435354027, Q Loss: 59.852569341659546, Actor Loss: -336.58371353149414  
Episode 1971: Time: 0.07006692886352539, Total Reward: 63.20561138510143, Q Loss: 64.2461895942688, Actor Loss: -294.092830657959  
Episode 1972: Time: 0.05235576629638672, Total Reward: 44.664582205277526, Q Loss: 41.42337512969971, Actor Loss: -205.8716278076172  
Episode 1973: Time: 0.07824039459228516, Total Reward: 72.5218226082302, Q Loss: 59.47454309463501, Actor Loss: -322.129150390625  
Episode 1974: Time: 0.06957411766052246, Total Reward: 63.30111013148167, Q Loss: 62.155816078186035, Actor Loss: -296.5762176513672  
Episode 1975: Time: 0.07825398445129395, Total Reward: 72.71197503989367, Q Loss: 50.54662823677063, Actor Loss: -334.1729202270508  
Episode 1976: Time: 0.1390674114227295, Total Reward: 137.91180832452227, Q Loss: 119.66912794113159, Actor Loss: -557.3683948516846  
Episode 1977: Time: 0.0695350170135498, Total Reward: 63.417413435887255, Q Loss: 45.5216908454895, Actor Loss: -284.5229301452637  
Episode 1978: Time: 0.0695488452911377, Total Reward: 62.99343237575952, Q Loss: 47.355939626693726, Actor Loss: -296.55301666259766  
Episode 1979: Time: 0.07849264144897461, Total Reward: 72.7128677591062, Q Loss: 50.37619185447693, Actor Loss: -319.6776008605957  
Episode 1980: Time: 0.07827353477478027, Total Reward: 72.36000307391542, Q Loss: 61.37588691711426, Actor Loss: -309.4922065734863  
Episode 1981: Time: 0.08701300621032715, Total Reward: 81.6545002192578, Q Loss: 60.73182249069214, Actor Loss: -358.38579750061035  
Episode 1982: Time: 0.061423301696777344, Total Reward: 53.76270299417892, Q Loss: 52.024513721466064, Actor Loss: -262.21325302124023  
Episode 1983: Time: 0.060950279235839844, Total Reward: 53.68611950378511, Q Loss: 44.13101601600647, Actor Loss: -253.26680755615234  
Episode 1984: Time: 0.0782308578491211, Total Reward: 72.7321822428958, Q Loss: 65.8142957687378, Actor Loss: -315.81096267700195  
Episode 1985: Time: 0.08746981620788574, Total Reward: 81.84202271518119, Q Loss: 56.659337520599365, Actor Loss: -379.0527458190918  
Episode 1986: Time: 0.08739066123962402, Total Reward: 81.83435521950118, Q Loss: 65.24868154525757, Actor Loss: -367.4087257385254  
Episode 1987: Time: 0.07061314582824707, Total Reward: 63.57778607023993, Q Loss: 56.93433237075806, Actor Loss: -294.5511245727539  
Episode 1988: Time: 0.07920360565185547, Total Reward: 72.50062495275078, Q Loss: 73.57156085968018, Actor Loss: -336.808349609375  
Episode 1989: Time: 0.061875104904174805, Total Reward: 54.20995492232095, Q Loss: 46.31796741485596, Actor Loss: -250.4930877685547  
Episode 1990: Time: 0.08730649948120117, Total Reward: 81.94120189628677, Q Loss: 64.46250987052917, Actor Loss: -349.1941375732422  
Episode 1991: Time: 0.07065200805664062, Total Reward: 63.012918770864594, Q Loss: 54.205941677093506, Actor Loss: -292.15049743652344  
Episode 1992: Time: 0.12248682975769043, Total Reward: 119.50056102137783, Q Loss: 92.10608696937561, Actor Loss: -518.9528770446777  
Episode 1993: Time: 0.1572253704071045, Total Reward: 155.75118641250418, Q Loss: 117.73241996765137, Actor Loss: -666.169807434082  
Episode 1994: Time: 0.08689093589782715, Total Reward: 81.6132962115731, Q Loss: 78.87528228759766, Actor Loss: -371.0468864440918  
Episode 1995: Time: 0.07833695411682129, Total Reward: 72.47840972759948, Q Loss: 69.55435228347778, Actor Loss: -341.5751075744629  
Episode 1996: Time: 0.07034754753112793, Total Reward: 63.18148579343858, Q Loss: 56.509604930877686, Actor Loss: -300.74404525756836



Episode 1997: Time: 0.07832169532775879, Total Reward: 72.66479710891012, Q Loss: 60.869325399398804, Actor Loss: -331.16816329956055  
Episode 1998: Time: 0.0696568489074707, Total Reward: 63.182790783589, Q Loss: 53.86927938461304, Actor Loss: -295.6451835632324  
Episode 1999: Time: 0.0702211856842041, Total Reward: 62.803747213452766, Q Loss: 57.857491970062256, Actor Loss: -296.7880401611328  
Validation Mean: 75.86952055512833, Validation Std: 29.643762966721095  
saving model  
Episode 2000: Time: 0.07051897048950195, Total Reward: 63.18560382247106, Q Loss: 69.30079793930054, Actor Loss: -291.96030044555664  
Episode 2001: Time: 0.06986594200134277, Total Reward: 63.30751886448556, Q Loss: 58.96914100646973, Actor Loss: -296.72815322875977  
Episode 2002: Time: 0.07875919342041016, Total Reward: 72.5251756516146, Q Loss: 68.6574273109436, Actor Loss: -330.8224220275879  
Episode 2003: Time: 0.06118607521057129, Total Reward: 54.104231041178004, Q Loss: 42.93531036376953, Actor Loss: -245.40104293823242  
Episode 2004: Time: 0.08742237091064453, Total Reward: 81.97989589173075, Q Loss: 72.14610624313354, Actor Loss: -349.9820213317871  
Episode 2005: Time: 0.061452388763427734, Total Reward: 54.029083171980226, Q Loss: 48.190035343170166, Actor Loss: -259.6347465515137  
Episode 2006: Time: 0.0699007511138916, Total Reward: 63.27589064098847, Q Loss: 62.410149574279785, Actor Loss: -296.92244720458984  
Episode 2007: Time: 0.13108086585998535, Total Reward: 128.15658698603693, Q Loss: 109.41550397872925, Actor Loss: -540.990629196167  
Episode 2008: Time: 0.07824563980102539, Total Reward: 72.45382805474667, Q Loss: 59.72273254394531, Actor Loss: -330.83931732177734  
Episode 2009: Time: 0.07832098007202148, Total Reward: 72.58826671156989, Q Loss: 80.59298992156982, Actor Loss: -332.7585792541504  
Episode 2010: Time: 0.06148123741149902, Total Reward: 54.0966829832607, Q Loss: 66.32325553894043, Actor Loss: -251.6983299255371  
Episode 2011: Time: 0.07841086387634277, Total Reward: 72.93145661071372, Q Loss: 70.83741855621338, Actor Loss: -326.5345458984375  
Episode 2012: Time: 0.06955504417419434, Total Reward: 63.267635353844526, Q Loss: 59.35345125198364, Actor Loss: -291.71710205078125  
Episode 2013: Time: 0.07054662704467773, Total Reward: 63.4026701691999, Q Loss: 59.60562086105347, Actor Loss: -297.23281478881836  
Episode 2014: Time: 0.08684206008911133, Total Reward: 81.91839977779091, Q Loss: 69.90664505958557, Actor Loss: -378.98644256591797  
Episode 2015: Time: 0.061042070388793945, Total Reward: 54.031102630064396, Q Loss: 47.9479455947876, Actor Loss: -239.6662654876709  
Episode 2016: Time: 0.13077425956726074, Total Reward: 128.13573041373073, Q Loss: 95.18330717086792, Actor Loss: -551.3825626373291  
Episode 2017: Time: 0.0784912109375, Total Reward: 72.37958617506426, Q Loss: 66.94751358032227, Actor Loss: -336.1332893371582  
Episode 2018: Time: 0.08704233169555664, Total Reward: 81.87655524593211, Q Loss: 85.05914211273193, Actor Loss: -367.2226257324219  
Episode 2019: Time: 0.06154179573059082, Total Reward: 53.895852970540325, Q Loss: 53.375505447387695, Actor Loss: -249.92163848876953  
Episode 2020: Time: 0.15610551834106445, Total Reward: 154.43567452366725, Q Loss: 122.19798493385315, Actor Loss: -649.4255828857422  
Episode 2021: Time: 0.07006287574768066, Total Reward: 63.07484580634923, Q Loss: 66.73318004608154, Actor Loss: -288.23353576660156  
Episode 2022: Time: 0.11278867721557617, Total Reward: 108.63431875519937, Q Loss: 105.29292631149292, Actor Loss: -483.74828147888184  
Episode 2023: Time: 0.0696110725402832, Total Reward: 63.38439496287003, Q Loss: 61.285812854766846, Actor Loss: -303.78700256347656

Episode 2024: Time: 0.07008099555969238, Total Reward: 63.43864212972146, Q Loss: 63.20563316345215, Actor Loss: -297.7981872558594  
Episode 2025: Time: 0.06972575187683105, Total Reward: 63.3115566548172, Q Loss: 55.847402572631836, Actor Loss: -284.33624839782715  
Episode 2026: Time: 0.08679485321044922, Total Reward: 81.7807235758942, Q Loss: 78.31374597549438, Actor Loss: -390.72107315063477  
Episode 2027: Time: 0.08704948425292969, Total Reward: 82.14588471311667, Q Loss: 85.33065509796143, Actor Loss: -381.24370765686035  
Episode 2028: Time: 0.07810115814208984, Total Reward: 72.38539210891757, Q Loss: 68.06328010559082, Actor Loss: -332.22930908203125  
Episode 2029: Time: 0.06077075004577637, Total Reward: 54.166913409269476, Q Loss: 55.578232765197754, Actor Loss: -265.6633644104004  
Episode 2030: Time: 0.2166903018951416, Total Reward: 219.14504900399288, Q Loss: 202.15034246444702, Actor Loss: -918.3695373535156  
Episode 2031: Time: 0.06944584846496582, Total Reward: 63.5695073221626, Q Loss: 55.123855113983154, Actor Loss: -283.8878974914551  
Episode 2032: Time: 0.07806944847106934, Total Reward: 72.76951303295097, Q Loss: 62.861695289611816, Actor Loss: -323.9780502319336  
Episode 2033: Time: 0.08710575103759766, Total Reward: 81.63583723295736, Q Loss: 88.49361848831177, Actor Loss: -373.7983093261719  
Episode 2034: Time: 0.07816910743713379, Total Reward: 72.90413309209893, Q Loss: 68.38166046142578, Actor Loss: -320.6312503814697  
Episode 2035: Time: 0.10435891151428223, Total Reward: 100.81919135359611, Q Loss: 103.62640810012817, Actor Loss: -455.01721572875977  
Episode 2036: Time: 0.06162285804748535, Total Reward: 54.24117815686439, Q Loss: 65.54166603088379, Actor Loss: -261.776222290039  
Episode 2037: Time: 0.07833695411682129, Total Reward: 72.28194279937928, Q Loss: 75.98297691345215, Actor Loss: -320.7794418334961  
Episode 2038: Time: 0.06948328018188477, Total Reward: 63.458861765178945, Q Loss: 72.89500093460083, Actor Loss: -299.5021171569824  
Episode 2039: Time: 0.2171647548675537, Total Reward: 220.9827077843338, Q Loss: 222.1657919883728, Actor Loss: -921.1924858093262  
Episode 2040: Time: 0.11310863494873047, Total Reward: 109.82905243351493, Q Loss: 109.92080688476562, Actor Loss: -513.3951377868652  
Episode 2041: Time: 0.05238223075866699, Total Reward: 44.256788376075285, Q Loss: 49.63151931762695, Actor Loss: -215.78676414489746  
Episode 2042: Time: 0.07876801490783691, Total Reward: 72.30482255959636, Q Loss: 66.4415864944458, Actor Loss: -337.46933364868164  
Episode 2043: Time: 0.20824718475341797, Total Reward: 211.24606412580886, Q Loss: 218.9881100654602, Actor Loss: -903.2874374389648  
Episode 2044: Time: 0.08691239356994629, Total Reward: 81.80077069671171, Q Loss: 75.71714925765991, Actor Loss: -379.39024353027344  
Episode 2045: Time: 0.061061859130859375, Total Reward: 54.24770014826366, Q Loss: 55.903565883636475, Actor Loss: -253.7070198059082  
Episode 2046: Time: 0.12182950973510742, Total Reward: 118.53943258971685, Q Loss: 130.89950895309448, Actor Loss: -537.6859397888184  
Episode 2047: Time: 0.09532403945922852, Total Reward: 90.68466900622451, Q Loss: 112.290292263031, Actor Loss: -424.01666259765625  
Episode 2048: Time: 0.07819056510925293, Total Reward: 72.865599442739, Q Loss: 64.52782416343689, Actor Loss: -342.71753692626953  
Episode 2049: Time: 0.12330913543701172, Total Reward: 118.76976982817989, Q Loss: 128.2245111465454, Actor Loss: -531.2333869934082  
Episode 2050: Time: 0.06972360610961914, Total Reward: 63.64671463510049, Q Loss: 72.31056547164917, Actor Loss: -311.5489196777344  
Episode 2051: Time: 0.19088220596313477, Total Reward: 191.7763029274171, Q Loss: 190.18999242782593, Actor Loss: -845.8733139038086

Episode 2052: Time: 0.06078362464904785, Total Reward: 53.679719611587224, Q Loss: 58.75927925109863, Actor Loss: -277.7472038269043  
Episode 2053: Time: 0.0523226261138916, Total Reward: 44.62117105840375, Q Loss: 47.497976303100586, Actor Loss: -226.67562866210938  
Episode 2054: Time: 0.06958293914794922, Total Reward: 62.759826773470664, Q Loss: 84.64102983474731, Actor Loss: -312.6990661621094  
Episode 2055: Time: 0.07040023803710938, Total Reward: 63.27191204158125, Q Loss: 69.43418598175049, Actor Loss: -302.22673416137695  
Episode 2056: Time: 0.08719635009765625, Total Reward: 81.99721512349514, Q Loss: 97.06415939331055, Actor Loss: -390.51028060913086  
Episode 2057: Time: 0.060951948165893555, Total Reward: 53.402761325997034, Q Loss: 61.838234424591064, Actor Loss: -269.8343391418457  
Episode 2058: Time: 0.061452388763427734, Total Reward: 54.16221126464957, Q Loss: 57.421303272247314, Actor Loss: -283.8693962097168  
Episode 2059: Time: 0.060971736907958984, Total Reward: 54.1495493026583, Q Loss: 57.888225078582764, Actor Loss: -273.7507438659668  
Episode 2060: Time: 0.11247777938842773, Total Reward: 109.83604066936897, Q Loss: 106.55838346481323, Actor Loss: -481.4942398071289  
Episode 2061: Time: 0.0700995922088623, Total Reward: 63.38949206780366, Q Loss: 89.08850336074829, Actor Loss: -294.169620513916  
Episode 2062: Time: 0.05217123031616211, Total Reward: 44.72437648606054, Q Loss: 60.56527042388916, Actor Loss: -231.97249603271484  
Episode 2063: Time: 0.10392999649047852, Total Reward: 100.25783343629058, Q Loss: 102.37166023254395, Actor Loss: -467.07091522216797  
Episode 2064: Time: 0.09570479393005371, Total Reward: 91.25738078757922, Q Loss: 94.35710382461548, Actor Loss: -406.5674419403076  
Episode 2065: Time: 0.07781386375427246, Total Reward: 72.37161855747333, Q Loss: 81.08421564102173, Actor Loss: -342.1329650878906  
Episode 2066: Time: 0.07813477516174316, Total Reward: 72.77122063036724, Q Loss: 79.88564920425415, Actor Loss: -348.11318588256836  
Episode 2067: Time: 0.07005643844604492, Total Reward: 63.04148416399912, Q Loss: 68.30778884887695, Actor Loss: -305.9953956604004  
Episode 2068: Time: 0.06072092056274414, Total Reward: 54.04734350539991, Q Loss: 61.08101558685303, Actor Loss: -269.4820442199707  
Episode 2069: Time: 0.060828208923339844, Total Reward: 54.281071589365865, Q Loss: 61.45506238937378, Actor Loss: -274.85533905029297  
Episode 2070: Time: 0.06946468353271484, Total Reward: 63.78698284212326, Q Loss: 64.94028329849243, Actor Loss: -304.82693099975586  
Episode 2071: Time: 0.07880711555480957, Total Reward: 72.6188720416313, Q Loss: 95.06208086013794, Actor Loss: -355.5557556152344  
Episode 2072: Time: 0.0610504150390625, Total Reward: 54.22288146414818, Q Loss: 77.43965291976929, Actor Loss: -269.4699897766113  
Episode 2073: Time: 0.06955075263977051, Total Reward: 63.453744519445095, Q Loss: 71.0111494064331, Actor Loss: -314.27881622314453  
Episode 2074: Time: 0.26840734481811523, Total Reward: 276.3613257664136, Q Loss: 255.70520567893982, Actor Loss: -1160.5024337768555  
Episode 2075: Time: 0.10390949249267578, Total Reward: 100.47936093883109, Q Loss: 116.79064130783081, Actor Loss: -479.1102867126465  
Episode 2076: Time: 0.09509682655334473, Total Reward: 90.81226966415566, Q Loss: 104.63418102264404, Actor Loss: -410.43808364868164  
Episode 2077: Time: 0.09572696685791016, Total Reward: 91.08968879505092, Q Loss: 110.62210893630981, Actor Loss: -408.3974151611328  
Episode 2078: Time: 0.1040949821472168, Total Reward: 100.21416331533548, Q Loss: 98.75663185119629, Actor Loss: -444.907377243042  
Episode 2079: Time: 0.0873260498046875, Total Reward: 81.92171991260588, Q Loss: 88.76110649108887, Actor Loss: -366.7268466949463

Episode 2080: Time: 0.07047843933105469, Total Reward: 63.02697640748777, Q Loss: 83.0751428604126, Actor Loss: -309.40892791748047  
Episode 2081: Time: 0.14745640754699707, Total Reward: 144.48227714537924, Q Loss: 165.86084842681885, Actor Loss: -670.4318428039551  
Episode 2082: Time: 0.06123518943786621, Total Reward: 53.88744730686326, Q Loss: 60.645151138305664, Actor Loss: -261.7021141052246  
Episode 2083: Time: 0.09544181823730469, Total Reward: 90.89967734808964, Q Loss: 104.08625316619873, Actor Loss: -429.6781120300293  
Episode 2084: Time: 0.06929588317871094, Total Reward: 63.32606262208548, Q Loss: 76.36551189422607, Actor Loss: -321.3830375671387  
Episode 2085: Time: 0.15596437454223633, Total Reward: 155.32266206452698, Q Loss: 170.48368406295776, Actor Loss: -715.3283538818359  
Episode 2086: Time: 0.07773375511169434, Total Reward: 72.42954462396578, Q Loss: 81.51680755615234, Actor Loss: -361.7472343444824  
Episode 2087: Time: 0.08638763427734375, Total Reward: 81.90627489177702, Q Loss: 100.82884883880615, Actor Loss: -383.0233573913574  
Episode 2088: Time: 0.24243760108947754, Total Reward: 249.37982032068692, Q Loss: 286.3300247192383, Actor Loss: -1092.4342231750488  
Episode 2089: Time: 0.060689687728881836, Total Reward: 53.88728061438484, Q Loss: 75.55935192108154, Actor Loss: -275.6410675048828  
Episode 2090: Time: 0.06956219673156738, Total Reward: 62.98121033221473, Q Loss: 87.02643728256226, Actor Loss: -318.34507751464844  
Episode 2091: Time: 0.23367023468017578, Total Reward: 239.27577824658366, Q Loss: 266.9233684539795, Actor Loss: -1045.8316898345947  
Episode 2092: Time: 0.13911747932434082, Total Reward: 136.5459098046844, Q Loss: 174.86064624786377, Actor Loss: -639.1411399841309  
Episode 2093: Time: 0.06986141204833984, Total Reward: 63.50219340083151, Q Loss: 83.24474620819092, Actor Loss: -312.14545822143555  
Episode 2094: Time: 0.09532570838928223, Total Reward: 91.17893453030521, Q Loss: 134.14631271362305, Actor Loss: -458.5926704406738  
Episode 2095: Time: 0.07799863815307617, Total Reward: 72.29275730332012, Q Loss: 85.5735182762146, Actor Loss: -332.2311019897461  
Episode 2096: Time: 0.08696198463439941, Total Reward: 82.1120937972703, Q Loss: 109.41536378860474, Actor Loss: -401.98119354248047  
Episode 2097: Time: 0.14717745780944824, Total Reward: 145.7735847332473, Q Loss: 167.35470628738403, Actor Loss: -656.4579696655273  
Episode 2098: Time: 0.06145215034484863, Total Reward: 54.09614975382703, Q Loss: 75.23227310180664, Actor Loss: -268.1520538330078  
Episode 2099: Time: 0.24277687072753906, Total Reward: 246.99559158306116, Q Loss: 286.63735580444336, Actor Loss: -1100.0223236083984  
Validation Mean: 124.05859629791713, Validation Std: 48.55998799702498  
saving model  
Episode 2100: Time: 0.06119847297668457, Total Reward: 54.2100386506613, Q Loss: 69.45199346542358, Actor Loss: -273.49144554138184  
Episode 2101: Time: 0.12148189544677734, Total Reward: 119.08780964499496, Q Loss: 137.3538851737976, Actor Loss: -531.9722423553467  
Episode 2102: Time: 0.12196183204650879, Total Reward: 119.16130238857329, Q Loss: 136.38608837127686, Actor Loss: -554.5276641845703  
Episode 2103: Time: 0.08698034286499023, Total Reward: 81.81712233985782, Q Loss: 90.42838668823242, Actor Loss: -393.19049072265625  
Episode 2104: Time: 0.0957481861114502, Total Reward: 90.92148904803055, Q Loss: 115.23411083221436, Actor Loss: -435.46860122680664  
Episode 2105: Time: 0.07908248901367188, Total Reward: 72.19304805950065, Q Loss: 100.07466316223145, Actor Loss: -351.25333404541016  
Episode 2106: Time: 0.07866954803466797, Total Reward: 72.21835663034364, Q Loss: 104.70451498031616, Actor Loss: -359.9324951171875

Episode 2107: Time: 0.08845710754394531, Total Reward: 81.57209653683192, Q Loss: 113.85759401321411, Actor Loss: -411.8951301574707  
Episode 2108: Time: 0.07977509498596191, Total Reward: 72.44590672278761, Q Loss: 98.24564933776855, Actor Loss: -355.23070907592773  
Episode 2109: Time: 0.06973934173583984, Total Reward: 62.78738859863962, Q Loss: 86.41635990142822, Actor Loss: -319.4790153503418  
Episode 2110: Time: 0.060997962951660156, Total Reward: 53.38256204184933, Q Loss: 74.62804698944092, Actor Loss: -289.1165580749512  
Episode 2111: Time: 0.20939326286315918, Total Reward: 211.07573923635798, Q Loss: 282.9709405899048, Actor Loss: -965.6599502563477  
Episode 2112: Time: 0.09562349319458008, Total Reward: 90.80777435314086, Q Loss: 115.53214740753174, Actor Loss: -433.2652893066406  
Episode 2113: Time: 0.16533589363098145, Total Reward: 166.04135361512726, Q Loss: 189.06028699874878, Actor Loss: -753.930347442627  
Episode 2114: Time: 0.06975936889648438, Total Reward: 63.02989694876662, Q Loss: 69.30087995529175, Actor Loss: -321.70176696777344  
Episode 2115: Time: 0.07842016220092773, Total Reward: 72.38123223512524, Q Loss: 99.11591053009033, Actor Loss: -365.85069274902344  
Episode 2116: Time: 0.1395280361175537, Total Reward: 136.4293726228784, Q Loss: 170.36047315597534, Actor Loss: -636.7935638427734  
Episode 2117: Time: 0.1317458152770996, Total Reward: 128.2200288402416, Q Loss: 154.51704168319702, Actor Loss: -627.4040908813477  
Episode 2118: Time: 0.10621953010559082, Total Reward: 100.77724955639488, Q Loss: 127.80490493774414, Actor Loss: -494.26014709472656  
Episode 2119: Time: 0.13929510116577148, Total Reward: 136.71847116642954, Q Loss: 187.23374128341675, Actor Loss: -645.4018077850342  
Episode 2120: Time: 0.0874643325805664, Total Reward: 81.52951409071528, Q Loss: 98.98859214782715, Actor Loss: -399.51229095458984  
Episode 2121: Time: 0.1818101406097412, Total Reward: 182.90394672888922, Q Loss: 201.54668140411377, Actor Loss: -864.7835388183594  
Episode 2122: Time: 0.13048553466796875, Total Reward: 127.14781262242435, Q Loss: 189.92387342453003, Actor Loss: -619.2880477905273  
Episode 2123: Time: 0.09524989128112793, Total Reward: 91.70694751301727, Q Loss: 134.54280042648315, Actor Loss: -466.0711212158203  
Episode 2124: Time: 0.09531116485595703, Total Reward: 90.51310303762621, Q Loss: 117.62607765197754, Actor Loss: -438.95004653930664  
Episode 2125: Time: 0.16426301002502441, Total Reward: 165.41608275030256, Q Loss: 209.7751703262329, Actor Loss: -771.8635711669922  
Episode 2126: Time: 0.06925535202026367, Total Reward: 63.51487800234323, Q Loss: 131.17591524124146, Actor Loss: -333.54174423217773  
Episode 2127: Time: 0.17299103736877441, Total Reward: 174.04038130584703, Q Loss: 237.66966485977173, Actor Loss: -814.1542091369629  
Episode 2128: Time: 0.06924176216125488, Total Reward: 63.11703871067662, Q Loss: 94.11790800094604, Actor Loss: -331.23774337768555  
Episode 2129: Time: 0.15582275390625, Total Reward: 154.9168948779564, Q Loss: 207.36532497406006, Actor Loss: -731.0241775512695  
Episode 2130: Time: 0.10693645477294922, Total Reward: 100.49324621403456, Q Loss: 163.84289741516113, Actor Loss: -529.7321929931641  
Episode 2131: Time: 0.0694119930267334, Total Reward: 62.68698917393183, Q Loss: 108.84266424179077, Actor Loss: -338.0082244873047  
Episode 2132: Time: 0.15588068962097168, Total Reward: 155.70298639612764, Q Loss: 194.08309745788574, Actor Loss: -731.1110763549805  
Episode 2133: Time: 0.07807707786560059, Total Reward: 72.83284852300864, Q Loss: 106.82684469223022, Actor Loss: -370.38317108154297  
Episode 2134: Time: 0.09512138366699219, Total Reward: 90.95637189403271, Q Loss: 106.24410629272461, Actor Loss: -426.4879341125488

Episode 2135: Time: 0.17334628105163574, Total Reward: 174.74504041128162, Q Loss: 232.46547889709473, Actor Loss: -860.2145004272461  
Episode 2136: Time: 0.1468660831451416, Total Reward: 146.2914885628326, Q Loss: 189.9979066848755, Actor Loss: -683.0774154663086  
Episode 2137: Time: 0.07856225967407227, Total Reward: 72.3703050346926, Q Loss: 121.69260358810425, Actor Loss: -392.59975814819336  
Episode 2138: Time: 0.08652234077453613, Total Reward: 81.78443287443137, Q Loss: 106.33615493774414, Actor Loss: -425.43375396728516  
Episode 2139: Time: 0.17299699783325195, Total Reward: 174.91808564659243, Q Loss: 274.3028964996338, Actor Loss: -829.0978164672852  
Episode 2140: Time: 0.20728135108947754, Total Reward: 211.0577171160979, Q Loss: 254.35343599319458, Actor Loss: -1007.0285339355469  
Episode 2141: Time: 0.11221098899841309, Total Reward: 109.21040066599461, Q Loss: 155.9061794281006, Actor Loss: -544.1331748962402  
Episode 2142: Time: 0.06051754951477051, Total Reward: 53.87386179056207, Q Loss: 86.6831111907959, Actor Loss: -305.43690490722656  
Episode 2143: Time: 0.08671975135803223, Total Reward: 82.06504001083624, Q Loss: 103.97319078445435, Actor Loss: -411.3587837219238  
Episode 2144: Time: 0.06049180030822754, Total Reward: 53.50312046544632, Q Loss: 75.88637971878052, Actor Loss: -282.5852355957031  
Episode 2145: Time: 0.11214351654052734, Total Reward: 109.78247038769942, Q Loss: 151.4684853553772, Actor Loss: -543.1743087768555  
Episode 2146: Time: 0.1554710865020752, Total Reward: 154.76016300253139, Q Loss: 197.70145845413208, Actor Loss: -760.666675567627  
Episode 2147: Time: 0.09517550468444824, Total Reward: 90.95416293142114, Q Loss: 117.29135465621948, Actor Loss: -457.56717681884766  
Episode 2148: Time: 0.06091594696044922, Total Reward: 53.627678038344435, Q Loss: 92.25310516357422, Actor Loss: -301.9031753540039  
Episode 2149: Time: 0.17353153228759766, Total Reward: 173.94795794807123, Q Loss: 224.69308376312256, Actor Loss: -798.2438278198242  
Episode 2150: Time: 0.06924891471862793, Total Reward: 62.79365333920575, Q Loss: 84.11278486251831, Actor Loss: -327.8401069641113  
Episode 2151: Time: 0.09506034851074219, Total Reward: 90.60502084881291, Q Loss: 150.9810438156128, Actor Loss: -460.6236267089844  
Episode 2152: Time: 0.13004446029663086, Total Reward: 127.34277311791963, Q Loss: 178.39590167999268, Actor Loss: -628.7528266906738  
Episode 2153: Time: 0.14647388458251953, Total Reward: 146.74332698807183, Q Loss: 211.15490746498108, Actor Loss: -716.8956413269043  
Episode 2154: Time: 0.07806587219238281, Total Reward: 72.80122658541278, Q Loss: 117.93509483337402, Actor Loss: -364.5195732116699  
Episode 2155: Time: 0.15514731407165527, Total Reward: 155.10733056979618, Q Loss: 235.93033170700073, Actor Loss: -776.4099388122559  
Episode 2156: Time: 0.06073713302612305, Total Reward: 54.300881325902466, Q Loss: 81.50759792327881, Actor Loss: -294.5674171447754  
Episode 2157: Time: 0.08669590950012207, Total Reward: 81.86370252496225, Q Loss: 141.84807109832764, Actor Loss: -431.36527252197266  
Episode 2158: Time: 0.07767653465270996, Total Reward: 72.34375560161385, Q Loss: 110.06630039215088, Actor Loss: -386.8407783508301  
Episode 2159: Time: 0.14683818817138672, Total Reward: 146.6051543571976, Q Loss: 206.72840118408203, Actor Loss: -732.271598815918  
Episode 2160: Time: 0.07770609855651855, Total Reward: 72.52256451102481, Q Loss: 99.59683179855347, Actor Loss: -373.5402412414551  
Episode 2161: Time: 0.21563339233398438, Total Reward: 219.493969110261, Q Loss: 305.50982332229614, Actor Loss: -1053.946762084961  
Episode 2162: Time: 0.11215567588806152, Total Reward: 109.1825441115312, Q Loss: 144.28448724746704, Actor Loss: -542.5258026123047

Episode 2163: Time: 0.15553498268127441, Total Reward: 155.48754342919995, Q Loss: 300.38015031814575, Actor Loss: -772.721004486084  
Episode 2164: Time: 0.14644813537597656, Total Reward: 145.81159932820222, Q Loss: 221.9300127029419, Actor Loss: -729.7716636657715  
Episode 2165: Time: 0.1470355987548828, Total Reward: 146.95604263683583, Q Loss: 273.21018409729004, Actor Loss: -723.2056274414062  
Episode 2166: Time: 0.25017881393432617, Total Reward: 257.1222328773656, Q Loss: 399.1916284561157, Actor Loss: -1222.223217010498  
Episode 2167: Time: 0.15586233139038086, Total Reward: 155.74650804459924, Q Loss: 241.1876106262207, Actor Loss: -773.6388664245605  
Episode 2168: Time: 0.14687442779541016, Total Reward: 146.7317635887723, Q Loss: 202.86981964111328, Actor Loss: -728.0501136779785  
Episode 2169: Time: 0.1292572021484375, Total Reward: 128.1095877368119, Q Loss: 276.95224714279175, Actor Loss: -657.6781959533691  
Episode 2170: Time: 0.10401034355163574, Total Reward: 100.40568363096416, Q Loss: 152.2844696044922, Actor Loss: -503.81744384765625  
Episode 2171: Time: 0.060164451599121094, Total Reward: 53.87624024115991, Q Loss: 113.87815380096436, Actor Loss: -322.5733070373535  
Episode 2172: Time: 0.14667940139770508, Total Reward: 146.70151822185736, Q Loss: 412.7271795272827, Actor Loss: -752.2065620422363  
Episode 2173: Time: 0.1634833812713623, Total Reward: 165.51643153346902, Q Loss: 312.8376512527466, Actor Loss: -847.0132751464844  
Episode 2174: Time: 0.12995386123657227, Total Reward: 126.52335099361937, Q Loss: 222.6129903793335, Actor Loss: -678.8844604492188  
Episode 2175: Time: 0.07758975028991699, Total Reward: 72.72616686549291, Q Loss: 137.3012251853943, Actor Loss: -398.65586853027344  
Episode 2176: Time: 0.1203148365020752, Total Reward: 118.962706210245, Q Loss: 163.478413105011, Actor Loss: -618.6153106689453  
Episode 2177: Time: 0.10379385948181152, Total Reward: 100.26472673167078, Q Loss: 291.0172348022461, Actor Loss: -521.8679466247559  
Episode 2178: Time: 0.1550133228302002, Total Reward: 155.67623438091027, Q Loss: 235.70848178863525, Actor Loss: -807.4697875976562  
Episode 2179: Time: 0.09518718719482422, Total Reward: 90.36869656255367, Q Loss: 145.13377332687378, Actor Loss: -472.7683296203613  
Episode 2180: Time: 0.11203360557556152, Total Reward: 109.83429334254663, Q Loss: 190.93396091461182, Actor Loss: -580.540599822998  
Episode 2181: Time: 0.051926612854003906, Total Reward: 44.575099896931704, Q Loss: 79.98337841033936, Actor Loss: -253.72662734985352  
Episode 2182: Time: 0.06095075607299805, Total Reward: 53.79721473795054, Q Loss: 92.18821907043457, Actor Loss: -320.1578788757324  
Episode 2183: Time: 0.12062883377075195, Total Reward: 118.75759004355646, Q Loss: 197.06562328338623, Actor Loss: -627.764835357666  
Episode 2184: Time: 0.07782125473022461, Total Reward: 72.66269592673912, Q Loss: 132.39558029174805, Actor Loss: -394.0972137451172  
Episode 2185: Time: 0.10376143455505371, Total Reward: 99.01578202958156, Q Loss: 196.59438037872314, Actor Loss: -522.7261924743652  
Episode 2186: Time: 0.0948340892791748, Total Reward: 91.08939276257078, Q Loss: 159.61781883239746, Actor Loss: -479.5747261047363  
Episode 2187: Time: 0.09470820426940918, Total Reward: 91.19658888705858, Q Loss: 153.33175468444824, Actor Loss: -494.0754508972168  
Episode 2188: Time: 0.24140596389770508, Total Reward: 246.85104499175154, Q Loss: 531.5711026191711, Actor Loss: -1253.9598579406738  
Episode 2189: Time: 0.08629775047302246, Total Reward: 81.23091105750541, Q Loss: 195.24671745300293, Actor Loss: -424.96443939208984  
Episode 2190: Time: 0.0950930118560791, Total Reward: 88.45019152482797, Q Loss: 148.89879703521729, Actor Loss: -467.8296432495117

Episode 2191: Time: 0.08688616752624512, Total Reward: 81.17723312318265, Q Loss: 154.4778871536255, Actor Loss: -423.6693534851074  
Episode 2192: Time: 0.19003701210021973, Total Reward: 192.68561906771905, Q Loss: 368.3648157119751, Actor Loss: -1006.1904144287109  
Episode 2193: Time: 0.09564399719238281, Total Reward: 91.149870268476, Q Loss: 130.70201873779297, Actor Loss: -470.3512191772461  
Episode 2194: Time: 0.13824987411499023, Total Reward: 136.48339479078143, Q Loss: 197.9672622680664, Actor Loss: -723.6388969421387  
Episode 2195: Time: 0.13891029357910156, Total Reward: 136.9701577049052, Q Loss: 260.83130741119385, Actor Loss: -718.5601119995117  
Episode 2196: Time: 0.06909036636352539, Total Reward: 63.09659371862488, Q Loss: 106.2443962097168, Actor Loss: -362.2882957458496  
Episode 2197: Time: 0.06913423538208008, Total Reward: 62.79636037580198, Q Loss: 105.7728214263916, Actor Loss: -356.3344306945801  
Episode 2198: Time: 0.1554884910583496, Total Reward: 155.12011636789506, Q Loss: 315.4100179672241, Actor Loss: -815.3317756652832  
Episode 2199: Time: 0.06942939758300781, Total Reward: 62.782352610167, Q Loss: 152.43581581115723, Actor Loss: -377.53720474243164  
Validation Mean: 133.0635131860946, Validation Std: 45.11923965315324  
saving model  
Episode 2200: Time: 0.11304616928100586, Total Reward: 109.44097465637722, Q Loss: 195.2016019821167, Actor Loss: -593.0322189331055  
Episode 2201: Time: 0.1473386287689209, Total Reward: 146.03283026958982, Q Loss: 268.50644874572754, Actor Loss: -769.4597625732422  
Episode 2202: Time: 0.06939911842346191, Total Reward: 63.01148401551306, Q Loss: 106.70485019683838, Actor Loss: -348.4932670593262  
Episode 2203: Time: 0.06934690475463867, Total Reward: 62.51689875433932, Q Loss: 97.75615310668945, Actor Loss: -357.6565132141113  
Episode 2204: Time: 0.09538888931274414, Total Reward: 90.5158343040403, Q Loss: 161.3493824005127, Actor Loss: -508.1901206970215  
Episode 2205: Time: 0.1808786392211914, Total Reward: 183.3566118994615, Q Loss: 313.8345069885254, Actor Loss: -959.1813583374023  
Episode 2206: Time: 0.1724255084991455, Total Reward: 173.8888367588945, Q Loss: 336.0023670196533, Actor Loss: -882.431339263916  
Episode 2207: Time: 0.0519719123840332, Total Reward: 44.45530282802993, Q Loss: 107.54237842559814, Actor Loss: -260.4925003051758  
Episode 2208: Time: 0.11196088790893555, Total Reward: 109.29704922285019, Q Loss: 184.5154733657837, Actor Loss: -591.3642387390137  
Episode 2209: Time: 0.12103438377380371, Total Reward: 118.77838739196682, Q Loss: 175.25236701965332, Actor Loss: -632.8883934020996  
Episode 2210: Time: 0.08642983436584473, Total Reward: 82.06072211806055, Q Loss: 148.72932147979736, Actor Loss: -445.1486167907715  
Episode 2211: Time: 0.138777494430542, Total Reward: 137.29019649300028, Q Loss: 224.38843822479248, Actor Loss: -741.9123306274414  
Episode 2212: Time: 0.1206979751586914, Total Reward: 118.78154411867052, Q Loss: 208.0473198890686, Actor Loss: -629.0994338989258  
Episode 2213: Time: 0.12500905990600586, Total Reward: 118.77824619348675, Q Loss: 258.8050708770752, Actor Loss: -639.135498046875  
Episode 2214: Time: 0.10430574417114258, Total Reward: 100.00023143125675, Q Loss: 190.81594944000244, Actor Loss: -564.6669120788574  
Episode 2215: Time: 0.07786941528320312, Total Reward: 72.72320875684296, Q Loss: 147.0785551071167, Actor Loss: -424.0470275878906  
Episode 2216: Time: 0.08687901496887207, Total Reward: 82.02532012262401, Q Loss: 160.73785305023193, Actor Loss: -454.82516860961914  
Episode 2217: Time: 0.0783071517944336, Total Reward: 72.61465840251618, Q Loss: 115.29073095321655, Actor Loss: -412.5887107849121



Episode 2218: Time: 0.06927728652954102, Total Reward: 62.731677248152636, Q Loss: 106.80536794662476, Actor Loss: -369.0379943847656  
Episode 2219: Time: 0.1561734676361084, Total Reward: 155.23690209771775, Q Loss: 261.36425971984863, Actor Loss: -797.9440040588379  
Episode 2220: Time: 0.190108060836792, Total Reward: 192.0141264429327, Q Loss: 330.67320823669434, Actor Loss: -1013.3924140930176  
Episode 2221: Time: 0.1230630874633789, Total Reward: 118.72805700665172, Q Loss: 205.90211963653564, Actor Loss: -630.9153480529785  
Episode 2222: Time: 0.14693689346313477, Total Reward: 144.99236737955798, Q Loss: 256.31923484802246, Actor Loss: -794.1643486022949  
Episode 2223: Time: 0.06976747512817383, Total Reward: 63.092047665130295, Q Loss: 141.8946237564087, Actor Loss: -385.2460746765137  
Episode 2224: Time: 0.15619802474975586, Total Reward: 155.4250886592332, Q Loss: 308.77128887176514, Actor Loss: -857.881160736084  
Episode 2225: Time: 0.0784454345703125, Total Reward: 71.57901465312162, Q Loss: 144.43556213378906, Actor Loss: -416.96771240234375  
Episode 2226: Time: 0.08655977249145508, Total Reward: 81.10846831722631, Q Loss: 173.0264654159546, Actor Loss: -473.5926322937012  
Episode 2227: Time: 0.1388845443725586, Total Reward: 137.34340454233063, Q Loss: 368.4250249862671, Actor Loss: -734.703742980957  
Episode 2228: Time: 0.10386180877685547, Total Reward: 99.2254774622087, Q Loss: 167.12298107147217, Actor Loss: -548.9400253295898  
Episode 2229: Time: 0.1211996078491211, Total Reward: 118.89831715967654, Q Loss: 200.94365406036377, Actor Loss: -638.293155670166  
Episode 2230: Time: 0.08637380599975586, Total Reward: 81.4861546828391, Q Loss: 174.10488510131836, Actor Loss: -474.9055633544922  
Episode 2231: Time: 0.22573590278625488, Total Reward: 230.4856158057454, Q Loss: 442.5497269630432, Actor Loss: -1214.6993026733398  
Episode 2232: Time: 0.10370206832885742, Total Reward: 100.51604296011487, Q Loss: 243.9539566040039, Actor Loss: -564.1801414489746  
Episode 2233: Time: 0.06051492691040039, Total Reward: 53.63000273872656, Q Loss: 131.4811305999756, Actor Loss: -340.5945472717285  
Episode 2234: Time: 0.1298506259918213, Total Reward: 127.4874369674525, Q Loss: 236.02698612213135, Actor Loss: -696.6485862731934  
Episode 2235: Time: 0.11220002174377441, Total Reward: 108.53242562203506, Q Loss: 203.07065391540527, Actor Loss: -623.5564346313477  
Episode 2236: Time: 0.1643209457397461, Total Reward: 164.49492578029705, Q Loss: 312.3947730064392, Actor Loss: -840.0074920654297  
Episode 2237: Time: 0.06917810440063477, Total Reward: 62.377424283900545, Q Loss: 144.35348320007324, Actor Loss: -373.5050506591797  
Episode 2238: Time: 0.07790327072143555, Total Reward: 72.27090874417745, Q Loss: 157.46689987182617, Actor Loss: -423.7522735595703  
Episode 2239: Time: 0.1728672981262207, Total Reward: 174.70892079445528, Q Loss: 349.40303325653076, Actor Loss: -958.0000534057617  
Episode 2240: Time: 0.12946391105651855, Total Reward: 127.86394661855381, Q Loss: 245.39461421966553, Actor Loss: -704.6695442199707  
Episode 2241: Time: 0.11264610290527344, Total Reward: 109.33554721335427, Q Loss: 269.78222465515137, Actor Loss: -642.490779876709  
Episode 2242: Time: 0.09501791000366211, Total Reward: 90.92390587002309, Q Loss: 196.23285293579102, Actor Loss: -522.9681854248047  
Episode 2243: Time: 0.06905150413513184, Total Reward: 62.48276703794974, Q Loss: 115.44312381744385, Actor Loss: -378.1757354736328  
Episode 2244: Time: 0.147263765335083, Total Reward: 146.41123297385985, Q Loss: 254.4296498298645, Actor Loss: -798.2511329650879  
Episode 2245: Time: 0.12937068939208984, Total Reward: 127.58528869364538, Q Loss: 317.05174255371094, Actor Loss: -723.4128265380859

Episode 2246: Time: 0.3140380382537842, Total Reward: 322.25365963740967, Q Loss: 637.8208141326904, Actor Loss: -1716.2847518920898  
Episode 2247: Time: 0.11303567886352539, Total Reward: 109.90818244726589, Q Loss: 236.13943719863892, Actor Loss: -617.6464424133301  
Episode 2248: Time: 0.08677148818969727, Total Reward: 81.51487518370371, Q Loss: 196.8856897354126, Actor Loss: -463.5988006591797  
Episode 2249: Time: 0.11297249794006348, Total Reward: 109.46575170118034, Q Loss: 254.86939430236816, Actor Loss: -609.245906829834  
Episode 2250: Time: 0.06087040901184082, Total Reward: 52.97843631575356, Q Loss: 136.4948034286499, Actor Loss: -349.2927551269531  
Episode 2251: Time: 0.07814908027648926, Total Reward: 72.73208353627929, Q Loss: 192.138747215271, Actor Loss: -397.8249168395996  
Episode 2252: Time: 0.06055879592895508, Total Reward: 54.117038417308784, Q Loss: 109.99494171142578, Actor Loss: -335.4942817687988  
Episode 2253: Time: 0.07866692543029785, Total Reward: 72.79123717630675, Q Loss: 151.75204944610596, Actor Loss: -440.5161819458008  
Episode 2254: Time: 0.12153220176696777, Total Reward: 118.67847118829566, Q Loss: 218.03880500793457, Actor Loss: -662.7321014404297  
Episode 2255: Time: 0.11311960220336914, Total Reward: 108.7418408084243, Q Loss: 209.3053731918335, Actor Loss: -622.2758903503418  
Episode 2256: Time: 0.1123502254486084, Total Reward: 109.44215521246903, Q Loss: 244.1747341156006, Actor Loss: -626.2953414916992  
Episode 2257: Time: 0.07810568809509277, Total Reward: 71.73468738918902, Q Loss: 141.86816310882568, Actor Loss: -418.55553436279297  
Episode 2258: Time: 0.06960034370422363, Total Reward: 62.940825689210044, Q Loss: 156.14430141448975, Actor Loss: -385.2630157470703  
Episode 2259: Time: 0.25099825859069824, Total Reward: 257.0983168006673, Q Loss: 506.1891632080078, Actor Loss: -1395.0213775634766  
Episode 2260: Time: 0.10378479957580566, Total Reward: 98.90887188269166, Q Loss: 241.2529239654541, Actor Loss: -551.5099639892578  
Episode 2261: Time: 0.15588927268981934, Total Reward: 156.1157751055111, Q Loss: 348.2032136917114, Actor Loss: -872.6675033569336  
Episode 2262: Time: 0.13823485374450684, Total Reward: 137.88860707319947, Q Loss: 273.6834225654602, Actor Loss: -756.9660110473633  
Episode 2263: Time: 0.14722990989685059, Total Reward: 146.60037158989064, Q Loss: 268.37069511413574, Actor Loss: -809.3353881835938  
Episode 2264: Time: 0.13795065879821777, Total Reward: 136.95409415188774, Q Loss: 324.9388599395752, Actor Loss: -781.3557357788086  
Episode 2265: Time: 0.23365473747253418, Total Reward: 240.20307895694333, Q Loss: 502.9463529586792, Actor Loss: -1300.396224975586  
Episode 2266: Time: 0.07798647880554199, Total Reward: 72.51338979830479, Q Loss: 165.55646228790283, Actor Loss: -412.804012298584  
Episode 2267: Time: 0.13862967491149902, Total Reward: 136.77566420888613, Q Loss: 282.87458324432373, Actor Loss: -784.8967895507812  
Episode 2268: Time: 0.1558229923248291, Total Reward: 156.16171898718946, Q Loss: 336.2708716392517, Actor Loss: -889.0423774719238  
Episode 2269: Time: 0.1643047332763672, Total Reward: 164.0142236731075, Q Loss: 408.2237014770508, Actor Loss: -951.4338264465332  
Episode 2270: Time: 0.1295614242553711, Total Reward: 127.5870689889041, Q Loss: 319.124680519104, Actor Loss: -753.4114837646484  
Episode 2271: Time: 0.06929993629455566, Total Reward: 63.18074064393491, Q Loss: 190.35775184631348, Actor Loss: -397.22076416015625  
Episode 2272: Time: 0.07896971702575684, Total Reward: 72.27522933522091, Q Loss: 244.2354736328125, Actor Loss: -413.77403259277344  
Episode 2273: Time: 0.0864877700805664, Total Reward: 81.69961742987596, Q Loss: 218.45320987701416, Actor Loss: -492.5809669494629

Episode 2274: Time: 0.06937408447265625, Total Reward: 62.58009205374413, Q Loss: 182.87226104736328, Actor Loss: -386.6584892272949  
Episode 2275: Time: 0.09549546241760254, Total Reward: 91.34283300635973, Q Loss: 230.90786266326904, Actor Loss: -513.5581207275391  
Episode 2276: Time: 0.1038062572479248, Total Reward: 99.83514371927306, Q Loss: 268.97638034820557, Actor Loss: -590.458366394043  
Episode 2277: Time: 0.2418839931488037, Total Reward: 249.2077309707526, Q Loss: 513.8707647323608, Actor Loss: -1365.9514083862305  
Episode 2278: Time: 0.10348725318908691, Total Reward: 100.32916390667553, Q Loss: 217.1200065612793, Actor Loss: -545.0326766967773  
Episode 2279: Time: 0.09502792358398438, Total Reward: 91.09406863115903, Q Loss: 196.07206344604492, Actor Loss: -547.5917358398438  
Episode 2280: Time: 0.12947559356689453, Total Reward: 127.79875346519242, Q Loss: 303.5633707046509, Actor Loss: -721.5346374511719  
Episode 2281: Time: 0.06915736198425293, Total Reward: 63.39404294732955, Q Loss: 146.23916625976562, Actor Loss: -394.96318435668945  
Episode 2282: Time: 0.06942033767700195, Total Reward: 62.80047757337316, Q Loss: 179.14793491363525, Actor Loss: -394.09812927246094  
Episode 2283: Time: 0.06044960021972656, Total Reward: 54.1260470295874, Q Loss: 140.82906913757324, Actor Loss: -355.53946685791016  
Episode 2284: Time: 0.14681696891784668, Total Reward: 145.17755441059273, Q Loss: 388.91968727111816, Actor Loss: -836.9236831665039  
Episode 2285: Time: 0.16404414176940918, Total Reward: 165.03477571733512, Q Loss: 434.51184272766113, Actor Loss: -950.6964492797852  
Episode 2286: Time: 0.19892191886901855, Total Reward: 202.3659181196778, Q Loss: 520.2191591262817, Actor Loss: -1137.8690643310547  
Episode 2287: Time: 0.09530043601989746, Total Reward: 91.22590050455447, Q Loss: 246.9638328552246, Actor Loss: -538.0859222412109  
Episode 2288: Time: 0.0694434642791748, Total Reward: 63.186206603764965, Q Loss: 183.7758274078369, Actor Loss: -398.83960723876953  
Episode 2289: Time: 0.09584426879882812, Total Reward: 90.7038066259078, Q Loss: 240.53885746002197, Actor Loss: -533.0603790283203  
Episode 2290: Time: 0.19027233123779297, Total Reward: 192.61534281580006, Q Loss: 436.4159107208252, Actor Loss: -1093.6638145446777  
Episode 2291: Time: 0.0871133804321289, Total Reward: 81.48308478347171, Q Loss: 197.76910209655762, Actor Loss: -510.1056098937988  
Episode 2292: Time: 0.27676868438720703, Total Reward: 285.74856565075, Q Loss: 633.2925386428833, Actor Loss: -1593.673683166504  
Episode 2293: Time: 0.14748263359069824, Total Reward: 146.3774390626755, Q Loss: 383.234148979187, Actor Loss: -838.4232635498047  
Episode 2294: Time: 0.1218559741973877, Total Reward: 118.44138659000137, Q Loss: 309.7013740539551, Actor Loss: -712.0408744812012  
Episode 2295: Time: 0.11760807037353516, Total Reward: 91.27120759030582, Q Loss: 216.2663450241089, Actor Loss: -547.8815116882324  
Episode 2296: Time: 0.10427355766296387, Total Reward: 99.57867786801124, Q Loss: 257.3266067504883, Actor Loss: -610.8794021606445  
Episode 2297: Time: 0.1992650032043457, Total Reward: 201.63348848934447, Q Loss: 506.8650140762329, Actor Loss: -1136.661289215088  
Episode 2298: Time: 0.06155204772949219, Total Reward: 53.57731864119105, Q Loss: 150.15149593353271, Actor Loss: -364.5556869506836  
Episode 2299: Time: 0.10432028770446777, Total Reward: 100.73622678260254, Q Loss: 251.0892848968506, Actor Loss: -603.4618644714355  
Validation Mean: 149.56952042933233, Validation Std: 64.11866314442055  
saving model  
Episode 2300: Time: 0.0612940788269043, Total Reward: 53.56760159391483, Q Loss: 129.88849449157715, Actor Loss: -338.24306869506836

Episode 2301: Time: 0.08672022819519043, Total Reward: 81.78796176158541, Q Loss: 205.30766201019287, Actor Loss: -510.78935623168945  
Episode 2302: Time: 0.06979608535766602, Total Reward: 62.647059214494924, Q Loss: 155.55432891845703, Actor Loss: -412.2300834655762  
Episode 2303: Time: 0.10449075698852539, Total Reward: 100.31426251155457, Q Loss: 235.87189102172852, Actor Loss: -601.1530418395996  
Episode 2304: Time: 0.07789397239685059, Total Reward: 71.40061869590724, Q Loss: 215.35513496398926, Actor Loss: -453.5892105102539  
Episode 2305: Time: 0.06995010375976562, Total Reward: 63.23290558786026, Q Loss: 187.96378993988037, Actor Loss: -399.534725189209  
Episode 2306: Time: 0.1382744312286377, Total Reward: 137.28114353799634, Q Loss: 334.44189071655273, Actor Loss: -808.1529235839844  
Episode 2307: Time: 0.09583711624145508, Total Reward: 90.4259163191338, Q Loss: 257.9039478302002, Actor Loss: -558.1255798339844  
Episode 2308: Time: 0.06978988647460938, Total Reward: 62.25878744087902, Q Loss: 197.95454502105713, Actor Loss: -395.5585403442383  
Episode 2309: Time: 0.10350346565246582, Total Reward: 100.22488598328094, Q Loss: 232.31369304656982, Actor Loss: -624.6778793334961  
Episode 2310: Time: 0.09566593170166016, Total Reward: 90.59959042151299, Q Loss: 243.98724937438965, Actor Loss: -578.0068511962891  
Episode 2311: Time: 0.13843846321105957, Total Reward: 137.3931788887418, Q Loss: 369.79425525665283, Actor Loss: -844.6213073730469  
Episode 2312: Time: 0.08749556541442871, Total Reward: 82.1501537457953, Q Loss: 252.13711738586426, Actor Loss: -495.3116989135742  
Episode 2313: Time: 0.11298608779907227, Total Reward: 109.11234576150443, Q Loss: 273.4844217300415, Actor Loss: -650.0433464050293  
Episode 2314: Time: 0.11304068565368652, Total Reward: 109.59467583560719, Q Loss: 257.99564933776855, Actor Loss: -644.8514060974121  
Episode 2315: Time: 0.12976694107055664, Total Reward: 127.5157774103089, Q Loss: 321.8661193847656, Actor Loss: -751.722526550293  
Episode 2316: Time: 0.0694737434387207, Total Reward: 63.39224791355682, Q Loss: 178.91036701202393, Actor Loss: -427.6907958984375  
Episode 2317: Time: 0.13933205604553223, Total Reward: 137.5144860012621, Q Loss: 354.9255418777466, Actor Loss: -815.6567115783691  
Episode 2318: Time: 0.23400640487670898, Total Reward: 238.584851421761, Q Loss: 626.7211446762085, Actor Loss: -1360.7984313964844  
Episode 2319: Time: 0.11246466636657715, Total Reward: 109.76780783837812, Q Loss: 328.35328578948975, Actor Loss: -669.8366737365723  
Episode 2320: Time: 0.060904502868652344, Total Reward: 53.303581291752636, Q Loss: 150.94361019134521, Actor Loss: -387.8174591064453  
Episode 2321: Time: 0.13901877403259277, Total Reward: 137.56112161481346, Q Loss: 412.2965564727783, Actor Loss: -827.7737846374512  
Episode 2322: Time: 0.06104683876037598, Total Reward: 53.8490938675709, Q Loss: 157.9428939819336, Actor Loss: -364.19662857055664  
Episode 2323: Time: 0.10367178916931152, Total Reward: 100.44098493404492, Q Loss: 294.4671630859375, Actor Loss: -621.5292701721191  
Episode 2324: Time: 0.09541654586791992, Total Reward: 91.2740230809225, Q Loss: 287.79113578796387, Actor Loss: -563.008716583252  
Episode 2325: Time: 0.10407257080078125, Total Reward: 100.64806158723216, Q Loss: 307.4684371948242, Actor Loss: -630.4105262756348  
Episode 2326: Time: 0.14738059043884277, Total Reward: 146.73100836025304, Q Loss: 412.94756031036377, Actor Loss: -885.9603309631348  
Episode 2327: Time: 0.0951073169708252, Total Reward: 91.1138366796663, Q Loss: 253.32727813720703, Actor Loss: -565.2812614440918  
Episode 2328: Time: 0.1317276954650879, Total Reward: 127.97403751925359, Q Loss: 330.72910499572754, Actor Loss: -788.1896896362305

Episode 2329: Time: 0.10361576080322266, Total Reward: 100.1799261352976, Q Loss: 267.86101055145264, Actor Loss: -624.8285522460938  
Episode 2330: Time: 0.1991407871246338, Total Reward: 203.10316907201943, Q Loss: 484.74355125427246, Actor Loss: -1204.9970245361328  
Episode 2331: Time: 0.1123206615447998, Total Reward: 108.72110980563929, Q Loss: 308.6229305267334, Actor Loss: -656.5118980407715  
Episode 2332: Time: 0.11257624626159668, Total Reward: 108.79161640693724, Q Loss: 324.7630958557129, Actor Loss: -713.7913093566895  
Episode 2333: Time: 0.1555182933807373, Total Reward: 156.24089702996685, Q Loss: 523.6863307952881, Actor Loss: -956.9190330505371  
Episode 2334: Time: 0.11285257339477539, Total Reward: 109.54517237317822, Q Loss: 304.3856191635132, Actor Loss: -679.6341171264648  
Episode 2335: Time: 0.16382932662963867, Total Reward: 165.1668869473543, Q Loss: 459.46436309814453, Actor Loss: -1005.8554611206055  
Episode 2336: Time: 0.17352890968322754, Total Reward: 174.2259030618741, Q Loss: 459.4474973678589, Actor Loss: -1058.3074264526367  
Episode 2337: Time: 0.15563488006591797, Total Reward: 155.9421421262982, Q Loss: 464.73967456817627, Actor Loss: -927.1143035888672  
Episode 2338: Time: 0.10378456115722656, Total Reward: 99.9794515804539, Q Loss: 287.9991979598999, Actor Loss: -627.8052444458008  
Episode 2339: Time: 0.06919598579406738, Total Reward: 63.3023499424512, Q Loss: 185.09396839141846, Actor Loss: -423.7097702026367  
Episode 2340: Time: 0.1471266746520996, Total Reward: 146.58762057878891, Q Loss: 423.3076171875, Actor Loss: -908.4315185546875  
Episode 2341: Time: 0.2156543731689453, Total Reward: 221.49792008849772, Q Loss: 626.9848928451538, Actor Loss: -1307.8734855651855  
Episode 2342: Time: 0.1296064853668213, Total Reward: 128.04202714822802, Q Loss: 360.4685707092285, Actor Loss: -781.2510414123535  
Episode 2343: Time: 0.09559249877929688, Total Reward: 91.01590529061377, Q Loss: 279.1797285079956, Actor Loss: -590.6219902038574  
Episode 2344: Time: 0.1125788688659668, Total Reward: 109.72806912204818, Q Loss: 339.3241386413574, Actor Loss: -688.4627685546875  
Episode 2345: Time: 0.06100153923034668, Total Reward: 53.61236717899096, Q Loss: 163.61400413513184, Actor Loss: -360.08988189697266  
Episode 2346: Time: 0.12222933769226074, Total Reward: 116.4614546799756, Q Loss: 331.14869499206543, Actor Loss: -724.5569763183594  
Episode 2347: Time: 0.1297764778137207, Total Reward: 127.8836466969346, Q Loss: 374.8810443878174, Actor Loss: -796.0967597961426  
Episode 2348: Time: 0.0957801342010498, Total Reward: 90.79486658233928, Q Loss: 313.08578872680664, Actor Loss: -561.9099769592285  
Episode 2349: Time: 0.08643269538879395, Total Reward: 81.50467175267661, Q Loss: 338.7656478881836, Actor Loss: -534.7108383178711  
Episode 2350: Time: 0.052057504653930664, Total Reward: 44.30866749567632, Q Loss: 141.55362033843994, Actor Loss: -331.28509521484375  
Episode 2351: Time: 0.14732885360717773, Total Reward: 146.67020088507343, Q Loss: 540.7447576522827, Actor Loss: -886.2530899047852  
Episode 2352: Time: 0.1466200351715088, Total Reward: 146.18819773135044, Q Loss: 443.194899559021, Actor Loss: -862.4180107116699  
Episode 2353: Time: 0.209334135055542, Total Reward: 210.92103316135228, Q Loss: 565.1801013946533, Actor Loss: -1268.9701461791992  
Episode 2354: Time: 0.0880124568939209, Total Reward: 81.31996180846726, Q Loss: 273.6705780029297, Actor Loss: -525.196159362793  
Episode 2355: Time: 0.26001644134521484, Total Reward: 266.99432431152115, Q Loss: 868.1427545547485, Actor Loss: -1652.749355316162  
Episode 2356: Time: 0.155548095703125, Total Reward: 155.89940393929453, Q Loss: 483.7626962661743, Actor Loss: -968.2664642333984

Episode 2357: Time: 0.17303466796875, Total Reward: 174.50572896992222, Q Loss: 510.7953290939331, Actor Loss: -1063.8994941711426  
Episode 2358: Time: 0.12102961540222168, Total Reward: 117.68654956715648, Q Loss: 369.6242275238037, Actor Loss: -732.6786918640137  
Episode 2359: Time: 0.16505193710327148, Total Reward: 164.5273927814642, Q Loss: 465.0025825500488, Actor Loss: -1031.0228843688965  
Episode 2360: Time: 0.12147068977355957, Total Reward: 118.34444020889887, Q Loss: 432.52393531799316, Actor Loss: -761.8687438964844  
Episode 2361: Time: 0.11029958724975586, Total Reward: 100.33961939157649, Q Loss: 370.3882064819336, Actor Loss: -643.7721786499023  
Episode 2362: Time: 0.20940303802490234, Total Reward: 210.4488629101344, Q Loss: 650.2348041534424, Actor Loss: -1298.2317504882812  
Episode 2363: Time: 0.12129426002502441, Total Reward: 118.50166068770564, Q Loss: 352.07124519348145, Actor Loss: -745.738842010498  
Episode 2364: Time: 0.12150120735168457, Total Reward: 119.38084645217386, Q Loss: 336.39662075042725, Actor Loss: -741.6387214660645  
Episode 2365: Time: 0.2164614200592041, Total Reward: 219.55151747135804, Q Loss: 741.3736705780029, Actor Loss: -1348.6509590148926  
Episode 2366: Time: 0.17235088348388672, Total Reward: 174.12540108687875, Q Loss: 576.367919921875, Actor Loss: -1102.303524017334  
Episode 2367: Time: 0.11261963844299316, Total Reward: 109.66340444535635, Q Loss: 389.524621963501, Actor Loss: -707.1602783203125  
Episode 2368: Time: 0.15523672103881836, Total Reward: 155.56462548584634, Q Loss: 520.2726402282715, Actor Loss: -972.0097770690918  
Episode 2369: Time: 0.44109153747558594, Total Reward: 461.92789852376757, Q Loss: 1532.6226844787598, Actor Loss: -2745.500556945801  
Episode 2370: Time: 0.12096023559570312, Total Reward: 118.8784687261847, Q Loss: 451.1685733795166, Actor Loss: -806.6083183288574  
Episode 2371: Time: 0.0780646800994873, Total Reward: 72.6156554889147, Q Loss: 298.4837474822998, Actor Loss: -503.69384765625  
Episode 2372: Time: 0.09600114822387695, Total Reward: 91.25187519392364, Q Loss: 309.0703248977661, Actor Loss: -590.6047134399414  
Episode 2373: Time: 0.1383833885192871, Total Reward: 136.75323621994704, Q Loss: 494.76294326782227, Actor Loss: -839.5371627807617  
Episode 2374: Time: 0.06971073150634766, Total Reward: 63.04879077934349, Q Loss: 247.8547019958496, Actor Loss: -446.5437660217285  
Episode 2375: Time: 0.13834261894226074, Total Reward: 137.75721743642342, Q Loss: 493.895565032959, Actor Loss: -895.7017288208008  
Episode 2376: Time: 0.14750957489013672, Total Reward: 146.69316419963957, Q Loss: 464.9314022064209, Actor Loss: -954.5558090209961  
Episode 2377: Time: 0.1984999179840088, Total Reward: 201.5689941323301, Q Loss: 747.0781650543213, Actor Loss: -1289.5927047729492  
Episode 2378: Time: 0.07816505432128906, Total Reward: 72.38083654480853, Q Loss: 264.8139991760254, Actor Loss: -498.65378189086914  
Episode 2379: Time: 0.10326313972473145, Total Reward: 100.20542608962424, Q Loss: 343.17125701904297, Actor Loss: -662.6702575683594  
Episode 2380: Time: 0.3336813449859619, Total Reward: 321.79763917922725, Q Loss: 1061.5961532592773, Actor Loss: -2011.5788879394531  
Episode 2381: Time: 0.14664125442504883, Total Reward: 146.64162546475933, Q Loss: 590.4708442687988, Actor Loss: -958.975643157959  
Episode 2382: Time: 0.07830381393432617, Total Reward: 72.71622016204886, Q Loss: 319.0860080718994, Actor Loss: -512.8823089599609  
Episode 2383: Time: 0.20705485343933105, Total Reward: 210.9468439176784, Q Loss: 814.688060760498, Actor Loss: -1369.926197052002  
Episode 2384: Time: 0.16408753395080566, Total Reward: 165.7952725499273, Q Loss: 607.1910457611084, Actor Loss: -1057.211555480957

Episode 2385: Time: 0.0958261489868164, Total Reward: 89.61843032902112, Q Loss: 292.05203437805176, Actor Loss: -588.8064460754395  
Episode 2386: Time: 0.23371577262878418, Total Reward: 239.8014825924762, Q Loss: 722.3582401275635, Actor Loss: -1476.9222946166992  
Episode 2387: Time: 0.09535717964172363, Total Reward: 91.3117949032361, Q Loss: 371.5812816619873, Actor Loss: -626.6411552429199  
Episode 2388: Time: 0.18161249160766602, Total Reward: 182.17968317947557, Q Loss: 670.2797107696533, Actor Loss: -1169.8341636657715  
Episode 2389: Time: 0.1378641128540039, Total Reward: 137.55252095936723, Q Loss: 516.9355659484863, Actor Loss: -911.5843162536621  
Episode 2390: Time: 0.16419529914855957, Total Reward: 165.0456881130216, Q Loss: 625.6038627624512, Actor Loss: -1058.4178276062012  
Episode 2391: Time: 0.09488463401794434, Total Reward: 91.0675884225684, Q Loss: 325.0207414627075, Actor Loss: -605.7989196777344  
Episode 2392: Time: 0.0863180160522461, Total Reward: 81.46658892024372, Q Loss: 319.5766201019287, Actor Loss: -567.4850883483887  
Episode 2393: Time: 0.15572309494018555, Total Reward: 156.3436449910302, Q Loss: 645.8994331359863, Actor Loss: -1022.6712646484375  
Episode 2394: Time: 0.1208195686340332, Total Reward: 119.2900836172697, Q Loss: 502.19474029541016, Actor Loss: -812.6001434326172  
Episode 2395: Time: 0.06897950172424316, Total Reward: 63.06495740491625, Q Loss: 271.4921245574951, Actor Loss: -425.3009376525879  
Episode 2396: Time: 0.23298072814941406, Total Reward: 238.85180583048052, Q Loss: 902.9747638702393, Actor Loss: -1549.005558013916  
Episode 2397: Time: 0.24144411087036133, Total Reward: 247.28418551442311, Q Loss: 945.1329250335693, Actor Loss: -1585.0069160461426  
Episode 2398: Time: 0.20848727226257324, Total Reward: 211.6128401277975, Q Loss: 738.3917102813721, Actor Loss: -1387.4436492919922  
Episode 2399: Time: 0.155714750289917, Total Reward: 156.38230835601647, Q Loss: 589.2853260040283, Actor Loss: -1011.6163024902344  
Validation Mean: 165.62697429620937, Validation Std: 74.57395673185772  
saving model  
Episode 2400: Time: 0.09587430953979492, Total Reward: 90.92973531908845, Q Loss: 277.2148389816284, Actor Loss: -576.84130859375  
Episode 2401: Time: 0.07837367057800293, Total Reward: 72.02450383178126, Q Loss: 368.5720748901367, Actor Loss: -520.583122253418  
Episode 2402: Time: 0.1126701831817627, Total Reward: 107.70494989515649, Q Loss: 458.87834548950195, Actor Loss: -738.7587013244629  
Episode 2403: Time: 0.0951242446899414, Total Reward: 91.00823420976168, Q Loss: 371.9077396392822, Actor Loss: -645.5241622924805  
Episode 2404: Time: 0.13860177993774414, Total Reward: 137.84561281648524, Q Loss: 580.6053981781006, Actor Loss: -912.2907676696777  
Episode 2405: Time: 0.12099099159240723, Total Reward: 118.93609305297696, Q Loss: 461.6327323913574, Actor Loss: -811.7186851501465  
Episode 2406: Time: 0.11250662803649902, Total Reward: 110.10698666005958, Q Loss: 405.9188461303711, Actor Loss: -704.4582901000977  
Episode 2407: Time: 0.09503722190856934, Total Reward: 90.99020623524639, Q Loss: 361.93834114074707, Actor Loss: -630.5541229248047  
Episode 2408: Time: 0.10347461700439453, Total Reward: 100.03449752508345, Q Loss: 384.1464080810547, Actor Loss: -688.2997589111328  
Episode 2409: Time: 0.1468968391418457, Total Reward: 146.50578637847852, Q Loss: 606.5154628753662, Actor Loss: -985.2939796447754  
Episode 2410: Time: 0.060430288314819336, Total Reward: 53.94092573680781, Q Loss: 240.27027893066406, Actor Loss: -419.02366638183594  
Episode 2411: Time: 0.10342574119567871, Total Reward: 100.36067137383425, Q Loss: 356.456392288208, Actor Loss: -648.330738067627

Episode 2412: Time: 0.09521317481994629, Total Reward: 90.19967680490919, Q Loss: 378.8987693786621, Actor Loss: -598.810546875  
Episode 2413: Time: 0.2508203983306885, Total Reward: 257.8958348362703, Q Loss: 1067.1664142608643, Actor Loss: -1712.347282409668  
Episode 2414: Time: 0.24188661575317383, Total Reward: 247.5926421681329, Q Loss: 1048.740514755249, Actor Loss: -1579.9945373535156  
Episode 2415: Time: 0.06933474540710449, Total Reward: 63.24009216606218, Q Loss: 314.0220432281494, Actor Loss: -458.22250747680664  
Episode 2416: Time: 0.17291903495788574, Total Reward: 171.85657041648489, Q Loss: 781.5831890106201, Actor Loss: -1174.8008918762207  
Episode 2417: Time: 0.11250734329223633, Total Reward: 109.33261221454232, Q Loss: 431.184476852417, Actor Loss: -728.0675811767578  
Episode 2418: Time: 0.13006091117858887, Total Reward: 127.8439879285427, Q Loss: 525.9260320663452, Actor Loss: -824.9666862487793  
Episode 2419: Time: 0.06086468696594238, Total Reward: 53.6036081179966, Q Loss: 222.4270305633545, Actor Loss: -411.5959243774414  
Episode 2420: Time: 0.25060153007507324, Total Reward: 257.9659621006737, Q Loss: 969.6653499603271, Actor Loss: -1675.032154083252  
Episode 2421: Time: 0.10318255424499512, Total Reward: 100.1568747741509, Q Loss: 470.49242782592773, Actor Loss: -695.375804901123  
Episode 2422: Time: 0.12157607078552246, Total Reward: 119.05519789899036, Q Loss: 479.79992485046387, Actor Loss: -779.9645385742188  
Episode 2423: Time: 0.12919306755065918, Total Reward: 127.70133117105394, Q Loss: 585.116886138916, Actor Loss: -865.0061264038086  
Episode 2424: Time: 0.08662176132202148, Total Reward: 81.33153154018109, Q Loss: 388.4947338104248, Actor Loss: -556.5621795654297  
Episode 2425: Time: 0.1977827548980713, Total Reward: 200.96687987741672, Q Loss: 959.7478523254395, Actor Loss: -1355.0975303649902  
Episode 2426: Time: 0.03520846366882324, Total Reward: 26.053518615114687, Q Loss: 117.60633850097656, Actor Loss: -234.9371109008789  
Episode 2427: Time: 0.05199623107910156, Total Reward: 44.22437364935541, Q Loss: 266.94237899780273, Actor Loss: -356.5936622619629  
Episode 2428: Time: 0.06928157806396484, Total Reward: 63.376858723661606, Q Loss: 364.1182670593262, Actor Loss: -470.4773483276367  
Episode 2429: Time: 0.09589886665344238, Total Reward: 89.98372459343214, Q Loss: 391.10551834106445, Actor Loss: -647.9351043701172  
Episode 2430: Time: 0.17283201217651367, Total Reward: 173.93661085175668, Q Loss: 610.6029567718506, Actor Loss: -1109.2914543151855  
Episode 2431: Time: 0.10416722297668457, Total Reward: 99.16148703758483, Q Loss: 506.290828704834, Actor Loss: -712.7884140014648  
Episode 2432: Time: 0.06080341339111328, Total Reward: 53.58371194593286, Q Loss: 285.39081954956055, Actor Loss: -406.3829689025879  
Episode 2433: Time: 0.10373473167419434, Total Reward: 100.42662751343752, Q Loss: 397.6309871673584, Actor Loss: -681.6848678588867  
Episode 2434: Time: 0.061609506607055664, Total Reward: 53.46178676207736, Q Loss: 320.1338691711426, Actor Loss: -424.6319580078125  
Episode 2435: Time: 0.0697476863861084, Total Reward: 62.713908099804904, Q Loss: 328.45056915283203, Actor Loss: -464.29748916625977  
Episode 2436: Time: 0.06949806213378906, Total Reward: 63.08862738718741, Q Loss: 357.56945419311523, Actor Loss: -498.3649482727051  
Episode 2437: Time: 0.07863926887512207, Total Reward: 72.42348420133139, Q Loss: 307.37927436828613, Actor Loss: -498.8196563720703  
Episode 2438: Time: 0.20815134048461914, Total Reward: 210.96416995965205, Q Loss: 942.2816333770752, Actor Loss: -1416.7790145874023  
Episode 2439: Time: 0.06945633888244629, Total Reward: 62.620805106226356, Q Loss: 335.98157501220703, Actor Loss: -461.79222106933594



Episode 2440: Time: 0.12094998359680176, Total Reward: 118.84790529036692, Q Loss: 618.2859706878662, Actor Loss: -807.3615570068359  
Episode 2441: Time: 0.07001447677612305, Total Reward: 63.42871011435788, Q Loss: 309.6990213394165, Actor Loss: -436.8993721008301  
Episode 2442: Time: 0.06941676139831543, Total Reward: 63.27663684824042, Q Loss: 353.5726566314697, Actor Loss: -443.98035049438477  
Episode 2443: Time: 0.060752153396606445, Total Reward: 53.557341337440974, Q Loss: 333.68857192993164, Actor Loss: -409.40733337402344  
Episode 2444: Time: 0.10443544387817383, Total Reward: 99.6201733208484, Q Loss: 550.0631847381592, Actor Loss: -726.3449058532715  
Episode 2445: Time: 0.12939190864562988, Total Reward: 127.3932966205296, Q Loss: 615.0955810546875, Actor Loss: -872.8830718994141  
Episode 2446: Time: 0.07823061943054199, Total Reward: 72.56846645006515, Q Loss: 374.2973117828369, Actor Loss: -528.8877830505371  
Episode 2447: Time: 0.06079554557800293, Total Reward: 53.79212777052446, Q Loss: 255.89170837402344, Actor Loss: -429.6189498901367  
Episode 2448: Time: 0.1121828556060791, Total Reward: 109.86217601554286, Q Loss: 533.3059520721436, Actor Loss: -750.9985237121582  
Episode 2449: Time: 0.11252427101135254, Total Reward: 109.3739648361119, Q Loss: 497.32422637939453, Actor Loss: -774.8706817626953  
Episode 2450: Time: 0.06943535804748535, Total Reward: 63.21146313552887, Q Loss: 338.72099685668945, Actor Loss: -501.24346923828125  
Episode 2451: Time: 0.07785773277282715, Total Reward: 72.9046830934942, Q Loss: 313.76715087890625, Actor Loss: -515.494499206543  
Episode 2452: Time: 0.09546041488647461, Total Reward: 91.47796223092277, Q Loss: 459.7938766479492, Actor Loss: -650.4174270629883  
Episode 2453: Time: 0.10336589813232422, Total Reward: 100.0629558771605, Q Loss: 456.6511745452881, Actor Loss: -700.955451965332  
Episode 2454: Time: 0.05191302299499512, Total Reward: 44.17128612556942, Q Loss: 195.84110641479492, Actor Loss: -331.88109588623047  
Episode 2455: Time: 0.0780785083770752, Total Reward: 71.77510322711156, Q Loss: 282.8898067474365, Actor Loss: -517.0007247924805  
Episode 2456: Time: 0.07760500907897949, Total Reward: 72.34776461311813, Q Loss: 331.95127296447754, Actor Loss: -501.33605575561523  
Episode 2457: Time: 0.14693069458007812, Total Reward: 146.73807776112224, Q Loss: 698.6110897064209, Actor Loss: -1037.3356170654297  
Episode 2458: Time: 0.2669558525085449, Total Reward: 276.4370655792855, Q Loss: 1170.5826358795166, Actor Loss: -1816.317039489746  
Episode 2459: Time: 0.1034543514251709, Total Reward: 100.10035882626272, Q Loss: 550.9777355194092, Actor Loss: -742.0277137756348  
Episode 2460: Time: 0.10367608070373535, Total Reward: 100.6882089980359, Q Loss: 475.23156356811523, Actor Loss: -740.9372291564941  
Episode 2461: Time: 0.2669351100921631, Total Reward: 275.68160931181666, Q Loss: 1258.5149116516113, Actor Loss: -1791.571834564209  
Episode 2462: Time: 0.0691823959350586, Total Reward: 62.95322940771267, Q Loss: 371.7092399597168, Actor Loss: -475.6374816894531  
Episode 2463: Time: 0.21610331535339355, Total Reward: 220.2988412352666, Q Loss: 1179.7284412384033, Actor Loss: -1526.0344696044922  
Episode 2464: Time: 0.2582671642303467, Total Reward: 267.20043289875827, Q Loss: 1169.2026062011719, Actor Loss: -1794.2889518737793  
Episode 2465: Time: 0.16444873809814453, Total Reward: 163.57558562218782, Q Loss: 694.7408924102783, Actor Loss: -1132.7172622680664  
Episode 2466: Time: 0.1469881534576416, Total Reward: 146.29282909648848, Q Loss: 706.0063285827637, Actor Loss: -1031.0487251281738  
Episode 2467: Time: 0.24103283882141113, Total Reward: 247.85040800525718, Q Loss: 1121.4763069152832, Actor Loss: -1708.020606994629

Episode 2468: Time: 0.11201906204223633, Total Reward: 109.38331810166503, Q Loss: 482.4433345794678, Actor Loss: -778.4304847717285  
Episode 2469: Time: 0.12085604667663574, Total Reward: 119.00327145489808, Q Loss: 541.2690391540527, Actor Loss: -855.0071067810059  
Episode 2470: Time: 0.13736939430236816, Total Reward: 137.50319914770236, Q Loss: 664.5169906616211, Actor Loss: -969.3121376037598  
Episode 2471: Time: 0.2069551944732666, Total Reward: 211.8297856997405, Q Loss: 1040.22780418396, Actor Loss: -1441.909839630127  
Episode 2472: Time: 0.10344552993774414, Total Reward: 100.08771286452509, Q Loss: 486.5659484863281, Actor Loss: -752.55615234375  
Episode 2473: Time: 0.1378467082977295, Total Reward: 137.61551464335344, Q Loss: 651.2910499572754, Actor Loss: -962.4799003601074  
Episode 2474: Time: 0.15481066703796387, Total Reward: 154.2702505304005, Q Loss: 773.4668292999268, Actor Loss: -1078.7106819152832  
Episode 2475: Time: 0.12946867942810059, Total Reward: 127.73286551915892, Q Loss: 631.864336013794, Actor Loss: -914.9886627197266  
Episode 2476: Time: 0.08601927757263184, Total Reward: 81.53558230934819, Q Loss: 389.48070335388184, Actor Loss: -582.3199691772461  
Episode 2477: Time: 0.16407251358032227, Total Reward: 165.73040695284908, Q Loss: 812.8292350769043, Actor Loss: -1182.0283164978027  
Episode 2478: Time: 0.1889333724975586, Total Reward: 193.22671797139853, Q Loss: 1031.549711227417, Actor Loss: -1310.6239929199219  
Episode 2479: Time: 0.061159610748291016, Total Reward: 53.2515106515889, Q Loss: 290.73418045043945, Actor Loss: -406.0725440979004  
Episode 2480: Time: 0.3102543354034424, Total Reward: 323.5724331635742, Q Loss: 1703.9035758972168, Actor Loss: -2198.131660461426  
Episode 2481: Time: 0.19860029220581055, Total Reward: 201.32882337158372, Q Loss: 1072.1968784332275, Actor Loss: -1398.4552268981934  
Episode 2482: Time: 0.14694929122924805, Total Reward: 145.94166215374563, Q Loss: 760.565601348877, Actor Loss: -1025.8333435058594  
Episode 2483: Time: 0.13801169395446777, Total Reward: 137.41199130048162, Q Loss: 748.2672920227051, Actor Loss: -1001.4061164855957  
Episode 2484: Time: 0.1381824016571045, Total Reward: 137.2959640402564, Q Loss: 807.1269092559814, Actor Loss: -958.8754692077637  
Episode 2485: Time: 0.10350775718688965, Total Reward: 100.30180724597263, Q Loss: 547.4002933502197, Actor Loss: -741.4796524047852  
Episode 2486: Time: 0.11238431930541992, Total Reward: 109.03374726741197, Q Loss: 628.751874923706, Actor Loss: -822.4398574829102  
Episode 2487: Time: 0.18043971061706543, Total Reward: 184.10354065415794, Q Loss: 979.9236698150635, Actor Loss: -1310.233283996582  
Episode 2488: Time: 0.10368537902832031, Total Reward: 100.5562261241822, Q Loss: 569.7848224639893, Actor Loss: -731.1503486633301  
Episode 2489: Time: 0.1375894546508789, Total Reward: 137.72471859381827, Q Loss: 767.2716999053955, Actor Loss: -969.7861518859863  
Episode 2490: Time: 0.06939148902893066, Total Reward: 62.336907907729085, Q Loss: 344.3805904388428, Actor Loss: -482.1972999572754  
Episode 2491: Time: 0.12035918235778809, Total Reward: 118.76714530441424, Q Loss: 588.4506721496582, Actor Loss: -867.0933799743652  
Episode 2492: Time: 0.10376310348510742, Total Reward: 100.30050903576732, Q Loss: 689.7024765014648, Actor Loss: -723.8484954833984  
Episode 2493: Time: 0.0776209831237793, Total Reward: 71.90555268407515, Q Loss: 484.2038269042969, Actor Loss: -568.4557609558105  
Episode 2494: Time: 0.17309212684631348, Total Reward: 175.03977943133455, Q Loss: 875.0870265960693, Actor Loss: -1249.6396827697754  
Episode 2495: Time: 0.11198163032531738, Total Reward: 109.95293971075432, Q Loss: 637.839937210083, Actor Loss: -799.531681060791

Episode 2496: Time: 0.09560084342956543, Total Reward: 91.03150063483413, Q Loss: 633.2448348999023, Actor Loss: -701.9077949523926  
Episode 2497: Time: 0.10333037376403809, Total Reward: 99.76242348473535, Q Loss: 590.4518604278564, Actor Loss: -761.5908203125  
Episode 2498: Time: 0.12096834182739258, Total Reward: 118.4018339171761, Q Loss: 707.3352546691895, Actor Loss: -866.6684265136719  
Episode 2499: Time: 0.1464691162109375, Total Reward: 146.60676378591046, Q Loss: 934.7937126159668, Actor Loss: -1078.627254486084  
Validation Mean: 186.08172446466997, Validation Std: 81.90766567435332  
saving model  
Episode 2500: Time: 0.11275172233581543, Total Reward: 109.64522479697004, Q Loss: 631.4726257324219, Actor Loss: -814.4493446350098  
Episode 2501: Time: 0.09544539451599121, Total Reward: 90.99994086932232, Q Loss: 496.1430320739746, Actor Loss: -653.5242805480957  
Episode 2502: Time: 0.1377124786376953, Total Reward: 136.80639477932243, Q Loss: 828.6683654785156, Actor Loss: -940.367504119873  
Episode 2503: Time: 0.146773099899292, Total Reward: 146.5539473155675, Q Loss: 833.0009918212891, Actor Loss: -1044.4723052978516  
Episode 2504: Time: 0.1122126579284668, Total Reward: 109.55409290543639, Q Loss: 671.5073776245117, Actor Loss: -819.0110397338867  
Episode 2505: Time: 0.06928753852844238, Total Reward: 63.26918572529317, Q Loss: 321.14316749572754, Actor Loss: -510.4254150390625  
Episode 2506: Time: 0.07826089859008789, Total Reward: 71.94083212663843, Q Loss: 384.925838470459, Actor Loss: -540.9529266357422  
Episode 2507: Time: 0.08652400970458984, Total Reward: 81.2964249075813, Q Loss: 488.98807525634766, Actor Loss: -626.7219390869141  
Episode 2508: Time: 0.15543222427368164, Total Reward: 155.99130852182907, Q Loss: 934.427619934082, Actor Loss: -1137.064151763916  
Episode 2509: Time: 0.18082594871520996, Total Reward: 183.11958976186085, Q Loss: 1047.0164833068848, Actor Loss: -1315.0641784667969  
Episode 2510: Time: 0.34429287910461426, Total Reward: 359.35607002864043, Q Loss: 2003.779375076294, Actor Loss: -2482.4138145446777  
Episode 2511: Time: 0.2583169937133789, Total Reward: 267.1068118026142, Q Loss: 1643.6332817077637, Actor Loss: -1867.190803527832  
Episode 2512: Time: 0.16376996040344238, Total Reward: 164.01406903290348, Q Loss: 957.599817276001, Actor Loss: -1171.7004280090332  
Episode 2513: Time: 0.10392570495605469, Total Reward: 100.6814000901133, Q Loss: 612.7321434020996, Actor Loss: -726.0298156738281  
Episode 2514: Time: 0.24341106414794922, Total Reward: 248.12752095575345, Q Loss: 1294.4985637664795, Actor Loss: -1743.784812927246  
Episode 2515: Time: 0.1248319149017334, Total Reward: 119.29847835337965, Q Loss: 607.083911895752, Actor Loss: -836.8936347961426  
Episode 2516: Time: 0.18217182159423828, Total Reward: 184.3056114720536, Q Loss: 1128.7664833068848, Actor Loss: -1375.4768600463867  
Episode 2517: Time: 0.07872581481933594, Total Reward: 72.66542266152702, Q Loss: 458.40101623535156, Actor Loss: -571.7355613708496  
Episode 2518: Time: 0.21703004837036133, Total Reward: 221.37750322230175, Q Loss: 1236.6272525787354, Actor Loss: -1572.4444274902344  
Episode 2519: Time: 0.1214287281036377, Total Reward: 119.29901874374612, Q Loss: 632.8903522491455, Actor Loss: -864.550910949707  
Episode 2520: Time: 0.2168118953704834, Total Reward: 219.90553868709924, Q Loss: 1470.7411518096924, Actor Loss: -1622.6091423034668  
Episode 2521: Time: 0.09597611427307129, Total Reward: 91.08551541444373, Q Loss: 610.1505279541016, Actor Loss: -678.57958984375  
Episode 2522: Time: 0.225799560546875, Total Reward: 230.7039414992693, Q Loss: 1355.768898010254, Actor Loss: -1674.1439361572266

Episode 2523: Time: 0.12111234664916992, Total Reward: 118.80509819131213, Q Loss: 725.145263671875, Actor Loss: -900.8947982788086  
Episode 2524: Time: 0.08666682243347168, Total Reward: 81.7620068720209, Q Loss: 597.7369842529297, Actor Loss: -666.7282371520996  
Episode 2525: Time: 0.1465282440185547, Total Reward: 146.58223716430555, Q Loss: 1002.5525550842285, Actor Loss: -1132.3564338684082  
Episode 2526: Time: 0.10413217544555664, Total Reward: 100.53529622469439, Q Loss: 671.1096115112305, Actor Loss: -743.9491653442383  
Episode 2527: Time: 0.15543532371520996, Total Reward: 156.0844085016395, Q Loss: 872.1281261444092, Actor Loss: -1161.2930030822754  
Episode 2528: Time: 0.12165594100952148, Total Reward: 119.1114538474082, Q Loss: 624.0789375305176, Actor Loss: -863.7372932434082  
Episode 2529: Time: 0.13002967834472656, Total Reward: 127.63437557927746, Q Loss: 765.3307266235352, Actor Loss: -927.032096862793  
Episode 2530: Time: 0.11314940452575684, Total Reward: 109.34850364157026, Q Loss: 837.073787689209, Actor Loss: -784.8933639526367  
Episode 2531: Time: 0.05233597755432129, Total Reward: 44.45372581304218, Q Loss: 365.71763610839844, Actor Loss: -386.9790954589844  
Episode 2532: Time: 0.18250823020935059, Total Reward: 181.52273913740058, Q Loss: 1039.3473300933838, Actor Loss: -1361.3520736694336  
Episode 2533: Time: 0.09535717964172363, Total Reward: 91.04552148238423, Q Loss: 539.5700244903564, Actor Loss: -695.3917579650879  
Episode 2534: Time: 0.19021201133728027, Total Reward: 193.32593362330311, Q Loss: 1085.0167064666748, Actor Loss: -1408.4557876586914  
Episode 2535: Time: 0.18114757537841797, Total Reward: 182.25998644167856, Q Loss: 1135.3861808776855, Actor Loss: -1355.6905899047852  
Episode 2536: Time: 0.11268973350524902, Total Reward: 110.18484775691503, Q Loss: 723.8656272888184, Actor Loss: -824.5198745727539  
Episode 2537: Time: 0.0692446231842041, Total Reward: 62.99641402824881, Q Loss: 389.34240341186523, Actor Loss: -497.306396484375  
Episode 2538: Time: 0.060562849044799805, Total Reward: 54.12212289101612, Q Loss: 385.36957931518555, Actor Loss: -415.8041763305664  
Episode 2539: Time: 0.07807707786560059, Total Reward: 72.426932108593, Q Loss: 559.92236328125, Actor Loss: -545.6931686401367  
Episode 2540: Time: 0.16350340843200684, Total Reward: 164.93686932571006, Q Loss: 895.8521919250488, Actor Loss: -1215.1457557678223  
Episode 2541: Time: 0.09523129463195801, Total Reward: 91.09317524244652, Q Loss: 586.9273109436035, Actor Loss: -699.559253692627  
Episode 2542: Time: 0.12043046951293945, Total Reward: 118.50694187095937, Q Loss: 639.9227600097656, Actor Loss: -915.6392822265625  
Episode 2543: Time: 0.20682239532470703, Total Reward: 209.86238343864125, Q Loss: 1387.485523223877, Actor Loss: -1550.577003479004  
Episode 2544: Time: 0.06044292449951172, Total Reward: 53.23715622561374, Q Loss: 414.7930488586426, Actor Loss: -442.77332305908203  
Episode 2545: Time: 0.0947418212890625, Total Reward: 91.71311229929367, Q Loss: 675.3944683074951, Actor Loss: -714.9148597717285  
Episode 2546: Time: 0.07786107063293457, Total Reward: 72.5884446162982, Q Loss: 474.1522102355957, Actor Loss: -573.7106590270996  
Episode 2547: Time: 0.10347223281860352, Total Reward: 100.30798437815008, Q Loss: 680.8730621337891, Actor Loss: -781.6374473571777  
Episode 2548: Time: 0.24147558212280273, Total Reward: 248.6446667593936, Q Loss: 1452.3002262115479, Actor Loss: -1788.8418807983398  
Episode 2549: Time: 0.07816624641418457, Total Reward: 72.5446674331796, Q Loss: 521.7724342346191, Actor Loss: -593.4612045288086  
Episode 2550: Time: 0.24185776710510254, Total Reward: 249.01138027801656, Q Loss: 1587.3763465881348, Actor Loss: -1859.7959823608398

Episode 2551: Time: 0.1382122039794922, Total Reward: 137.68894984026488, Q Loss: 901.3208389282227, Actor Loss: -1029.5627479553223  
Episode 2552: Time: 0.18973755836486816, Total Reward: 191.72135934616455, Q Loss: 1266.9272346496582, Actor Loss: -1497.3589248657227  
Episode 2553: Time: 0.10359048843383789, Total Reward: 100.10092780410213, Q Loss: 701.6294631958008, Actor Loss: -783.7894744873047  
Episode 2554: Time: 0.06891155242919922, Total Reward: 63.15321990796191, Q Loss: 470.58526039123535, Actor Loss: -529.8688926696777  
Episode 2555: Time: 0.1900167465209961, Total Reward: 193.11349857536354, Q Loss: 1402.1566543579102, Actor Loss: -1421.198013305664  
Episode 2556: Time: 0.09500932693481445, Total Reward: 90.97346829505982, Q Loss: 652.259349822998, Actor Loss: -690.9714622497559  
Episode 2557: Time: 0.06921648979187012, Total Reward: 63.18274716810023, Q Loss: 499.042179107666, Actor Loss: -517.3095207214355  
Episode 2558: Time: 0.26749300956726074, Total Reward: 276.09414908619607, Q Loss: 1910.5382995605469, Actor Loss: -2018.3469467163086  
Episode 2559: Time: 0.1895754337310791, Total Reward: 193.30705918653084, Q Loss: 1303.4043655395508, Actor Loss: -1465.284309387207  
Episode 2560: Time: 0.0782785415649414, Total Reward: 72.34305278196676, Q Loss: 497.9432907104492, Actor Loss: -588.0326042175293  
Episode 2561: Time: 0.12039828300476074, Total Reward: 119.37929723448234, Q Loss: 800.3456878662109, Actor Loss: -911.215648651123  
Episode 2562: Time: 0.07769775390625, Total Reward: 72.72850680218131, Q Loss: 621.3771057128906, Actor Loss: -552.2744941711426  
Episode 2563: Time: 0.22489356994628906, Total Reward: 230.53075154004617, Q Loss: 1378.1829357147217, Actor Loss: -1659.029094696045  
Episode 2564: Time: 0.2330613136291504, Total Reward: 238.8729854179613, Q Loss: 1433.9688873291016, Actor Loss: -1772.38427734375  
Episode 2565: Time: 0.1294112205505371, Total Reward: 128.2827840227182, Q Loss: 1021.8425216674805, Actor Loss: -977.4687156677246  
Episode 2566: Time: 0.07837820053100586, Total Reward: 72.47938925113594, Q Loss: 508.7461128234863, Actor Loss: -606.8216438293457  
Episode 2567: Time: 0.1353774070739746, Total Reward: 127.2676354237359, Q Loss: 978.4859809875488, Actor Loss: -1011.8248519897461  
Episode 2568: Time: 0.11262130737304688, Total Reward: 109.93013272610247, Q Loss: 816.7799301147461, Actor Loss: -876.337574005127  
Episode 2569: Time: 0.13799715042114258, Total Reward: 136.888299826895, Q Loss: 932.4743957519531, Actor Loss: -1094.1604385375977  
Episode 2570: Time: 0.12976861000061035, Total Reward: 128.12508255644585, Q Loss: 994.368034362793, Actor Loss: -1040.627914428711  
Episode 2571: Time: 0.28462791442871094, Total Reward: 295.25529992899686, Q Loss: 1944.9558753967285, Actor Loss: -2210.8193321228027  
Episode 2572: Time: 0.11212825775146484, Total Reward: 109.51316056683888, Q Loss: 819.6974868774414, Actor Loss: -862.7164649963379  
Episode 2573: Time: 0.18134427070617676, Total Reward: 182.80079588137798, Q Loss: 1276.457176208496, Actor Loss: -1374.271369934082  
Episode 2574: Time: 0.12119197845458984, Total Reward: 118.1558349338959, Q Loss: 764.5328578948975, Actor Loss: -943.7721214294434  
Episode 2575: Time: 0.1098790168762207, Total Reward: 99.94493774818865, Q Loss: 706.149263381958, Actor Loss: -789.8993110656738  
Episode 2576: Time: 0.11308741569519043, Total Reward: 109.73245209053442, Q Loss: 789.5376434326172, Actor Loss: -878.5540084838867  
Episode 2577: Time: 0.06958723068237305, Total Reward: 62.62053955395871, Q Loss: 534.1029510498047, Actor Loss: -511.1687202453613  
Episode 2578: Time: 0.07882976531982422, Total Reward: 72.17450215817915, Q Loss: 568.3864440917969, Actor Loss: -599.4824409484863

Episode 2579: Time: 0.10421967506408691, Total Reward: 100.60736111479677, Q Loss: 836.5382041931152, Actor Loss: -801.6266441345215  
Episode 2580: Time: 0.18215298652648926, Total Reward: 184.01400267220237, Q Loss: 1415.134750366211, Actor Loss: -1405.2441635131836  
Episode 2581: Time: 0.06944632530212402, Total Reward: 62.703565400438166, Q Loss: 436.7718048095703, Actor Loss: -530.7387199401855  
Episode 2582: Time: 0.37964701652526855, Total Reward: 395.66912219981685, Q Loss: 2931.873634338379, Actor Loss: -2901.6246223449707  
Episode 2583: Time: 0.2851572036743164, Total Reward: 295.7950590258149, Q Loss: 1971.5864944458008, Actor Loss: -2198.1966514587402  
Episode 2584: Time: 0.1467270851135254, Total Reward: 146.3143443446381, Q Loss: 984.2246246337891, Actor Loss: -1133.6488647460938  
Episode 2585: Time: 0.10395312309265137, Total Reward: 100.69314053816986, Q Loss: 753.8768997192383, Actor Loss: -814.2011909484863  
Episode 2586: Time: 0.2167344093322754, Total Reward: 221.0282266385386, Q Loss: 1619.6218376159668, Actor Loss: -1674.221523284912  
Episode 2587: Time: 0.09511542320251465, Total Reward: 89.95953406976503, Q Loss: 716.3097648620605, Actor Loss: -783.7046852111816  
Episode 2588: Time: 0.15570569038391113, Total Reward: 154.9702118623655, Q Loss: 1216.4225845336914, Actor Loss: -1170.7805709838867  
Episode 2589: Time: 0.09496784210205078, Total Reward: 90.92015255057579, Q Loss: 710.974609375, Actor Loss: -756.0925636291504  
Episode 2590: Time: 0.10349440574645996, Total Reward: 100.60810370070377, Q Loss: 830.4163970947266, Actor Loss: -856.6180839538574  
Episode 2591: Time: 0.1223149299621582, Total Reward: 118.17922289549742, Q Loss: 908.027021408081, Actor Loss: -954.1936721801758  
Episode 2592: Time: 0.22650384902954102, Total Reward: 229.31893943791624, Q Loss: 2010.265537261963, Actor Loss: -1744.6649856567383  
Episode 2593: Time: 0.13018178939819336, Total Reward: 128.71783409692617, Q Loss: 960.7408905029297, Actor Loss: -1052.1376876831055  
Episode 2594: Time: 0.260333776473999, Total Reward: 266.84716641271206, Q Loss: 1645.7971839904785, Actor Loss: -2008.0602951049805  
Episode 2595: Time: 0.26871681213378906, Total Reward: 273.9836832242835, Q Loss: 2048.819965362549, Actor Loss: -2179.4163818359375  
Episode 2596: Time: 0.06968259811401367, Total Reward: 62.69376129732779, Q Loss: 419.65710830688477, Actor Loss: -517.9839096069336  
Episode 2597: Time: 0.20815277099609375, Total Reward: 210.65909394391227, Q Loss: 1700.2423858642578, Actor Loss: -1648.2568016052246  
Episode 2598: Time: 0.2513301372528076, Total Reward: 258.28465959935403, Q Loss: 1768.013298034668, Actor Loss: -1971.8641662597656  
Episode 2599: Time: 0.12093615531921387, Total Reward: 119.12062482321286, Q Loss: 784.8575954437256, Actor Loss: -951.1455459594727  
Validation Mean: 276.7241983051547, Validation Std: 126.22146519520926  
saving model  
Episode 2600: Time: 0.20149636268615723, Total Reward: 203.01043208542015, Q Loss: 1465.1770057678223, Actor Loss: -1548.1080055236816  
Episode 2601: Time: 0.104827880859375, Total Reward: 99.95962840672367, Q Loss: 824.14306640625, Actor Loss: -827.1939926147461  
Episode 2602: Time: 0.06963658332824707, Total Reward: 63.2997129864981, Q Loss: 509.53981018066406, Actor Loss: -542.8053779602051  
Episode 2603: Time: 0.2766101360321045, Total Reward: 285.3992187398055, Q Loss: 2149.8066177368164, Actor Loss: -2247.119560241699  
Episode 2604: Time: 0.15508508682250977, Total Reward: 154.4166145692651, Q Loss: 1187.2118492126465, Actor Loss: -1286.1388130187988  
Episode 2605: Time: 0.07030630111694336, Total Reward: 62.857354240298406, Q Loss: 544.0354690551758, Actor Loss: -542.393009185791

Episode 2606: Time: 0.2071082592010498, Total Reward: 211.5262480066379, Q Loss: 1618.3371124267578, Actor Loss: -1635.8506126403809  
Episode 2607: Time: 0.3109769821166992, Total Reward: 321.97522884964593, Q Loss: 2392.1396141052246, Actor Loss: -2508.7419090270996  
Episode 2608: Time: 0.18161344528198242, Total Reward: 184.49447551709238, Q Loss: 1423.1826171875, Actor Loss: -1448.8400039672852  
Episode 2609: Time: 0.14760851860046387, Total Reward: 147.16889502359962, Q Loss: 987.5612678527832, Actor Loss: -1156.9227561950684  
Episode 2610: Time: 0.18086552619934082, Total Reward: 183.08061870892368, Q Loss: 1454.753330230713, Actor Loss: -1437.1553077697754  
Episode 2611: Time: 0.1640336513519287, Total Reward: 165.23366565518953, Q Loss: 1362.5700759887695, Actor Loss: -1304.261131286621  
Episode 2612: Time: 0.1899547576904297, Total Reward: 193.59468599233549, Q Loss: 1639.2785949707031, Actor Loss: -1499.6150093078613  
Episode 2613: Time: 0.06957888603210449, Total Reward: 62.504296489202865, Q Loss: 528.7755546569824, Actor Loss: -582.1940383911133  
Episode 2614: Time: 0.12929105758666992, Total Reward: 128.40070789194922, Q Loss: 1184.6532516479492, Actor Loss: -1080.1620254516602  
Episode 2615: Time: 0.2584364414215088, Total Reward: 266.7583189433261, Q Loss: 2052.4003295898438, Actor Loss: -2122.3862686157227  
Episode 2616: Time: 0.13758134841918945, Total Reward: 137.64254400928243, Q Loss: 1343.2014465332031, Actor Loss: -1159.36625289917  
Episode 2617: Time: 0.2582969665527344, Total Reward: 266.8947909096434, Q Loss: 1937.4738960266113, Actor Loss: -2054.0092964172363  
Episode 2618: Time: 0.12163376808166504, Total Reward: 118.87938907304111, Q Loss: 847.8154258728027, Actor Loss: -988.1836280822754  
Episode 2619: Time: 0.1215066909790039, Total Reward: 118.58592472901911, Q Loss: 1036.0119438171387, Actor Loss: -944.5243225097656  
Episode 2620: Time: 0.1474897861480713, Total Reward: 146.1430667227341, Q Loss: 1164.1135749816895, Actor Loss: -1179.9388847351074  
Episode 2621: Time: 0.08728814125061035, Total Reward: 82.1277761521528, Q Loss: 671.5833702087402, Actor Loss: -688.2009353637695  
Episode 2622: Time: 0.0780494213104248, Total Reward: 72.83358023823722, Q Loss: 615.57373046875, Actor Loss: -681.6323852539062  
Episode 2623: Time: 0.08681869506835938, Total Reward: 80.73147713722116, Q Loss: 665.5713996887207, Actor Loss: -718.9323501586914  
Episode 2624: Time: 0.06963992118835449, Total Reward: 62.024839008958146, Q Loss: 646.7882232666016, Actor Loss: -572.5958786010742  
Episode 2625: Time: 0.10399198532104492, Total Reward: 100.41500724158684, Q Loss: 921.6641654968262, Actor Loss: -839.9706764221191  
Episode 2626: Time: 0.13910651206970215, Total Reward: 137.93284805018794, Q Loss: 1164.0602722167969, Actor Loss: -1119.220932006836  
Episode 2627: Time: 0.16439485549926758, Total Reward: 165.02495402111555, Q Loss: 1360.2192192077637, Actor Loss: -1357.997673034668  
Episode 2628: Time: 0.16512322425842285, Total Reward: 163.30892946802913, Q Loss: 1363.9560585021973, Actor Loss: -1381.965217590332  
Episode 2629: Time: 0.14734625816345215, Total Reward: 146.44461922532537, Q Loss: 1206.3377227783203, Actor Loss: -1166.0407981872559  
Episode 2630: Time: 0.11291122436523438, Total Reward: 109.5322730624778, Q Loss: 877.6205062866211, Actor Loss: -927.2608032226562  
Episode 2631: Time: 0.1553514003753662, Total Reward: 155.58226831814747, Q Loss: 1189.8406257629395, Actor Loss: -1248.6996040344238  
Episode 2632: Time: 0.16408038139343262, Total Reward: 165.18681648279588, Q Loss: 1226.6313705444336, Actor Loss: -1331.1437797546387  
Episode 2633: Time: 0.08641576766967773, Total Reward: 81.86370376635895, Q Loss: 824.4196891784668, Actor Loss: -709.5443725585938

Episode 2634: Time: 0.12151575088500977, Total Reward: 117.61770544605884, Q Loss: 966.0230102539062, Actor Loss: -961.7637329101562  
Episode 2635: Time: 0.2246112823486328, Total Reward: 231.12983855210905, Q Loss: 2021.613868713379, Actor Loss: -1832.0261497497559  
Episode 2636: Time: 0.1643509864807129, Total Reward: 164.25616832731993, Q Loss: 1384.8251342773438, Actor Loss: -1369.941047668457  
Episode 2637: Time: 0.14754557609558105, Total Reward: 146.72250894460493, Q Loss: 1108.106159210205, Actor Loss: -1164.0775451660156  
Episode 2638: Time: 0.18089723587036133, Total Reward: 183.5528261270233, Q Loss: 1473.9245986938477, Actor Loss: -1524.0141944885254  
Episode 2639: Time: 0.06091141700744629, Total Reward: 53.973505928983364, Q Loss: 450.91405487060547, Actor Loss: -504.10514068603516  
Episode 2640: Time: 0.10421395301818848, Total Reward: 100.44905110974493, Q Loss: 847.6812171936035, Actor Loss: -817.4995422363281  
Episode 2641: Time: 0.27689456939697266, Total Reward: 284.58120958137215, Q Loss: 2474.462471008301, Actor Loss: -2244.657127380371  
Episode 2642: Time: 0.3019850254058838, Total Reward: 312.8204310409469, Q Loss: 2503.0987606048584, Actor Loss: -2485.798469543457  
Episode 2643: Time: 0.12096214294433594, Total Reward: 118.89331324147027, Q Loss: 1126.220859527588, Actor Loss: -1007.0162811279297  
Episode 2644: Time: 0.13040494918823242, Total Reward: 128.23000354260208, Q Loss: 1006.7077293395996, Actor Loss: -1064.9052391052246  
Episode 2645: Time: 0.29491376876831055, Total Reward: 304.56949822660425, Q Loss: 2693.744804382324, Actor Loss: -2394.844341278076  
Episode 2646: Time: 0.06954336166381836, Total Reward: 62.60344753165203, Q Loss: 765.979621887207, Actor Loss: -538.6235389709473  
Episode 2647: Time: 0.19913911819458008, Total Reward: 203.50008454152248, Q Loss: 1761.070655822754, Actor Loss: -1641.1028175354004  
Episode 2648: Time: 0.22606229782104492, Total Reward: 229.1205862008616, Q Loss: 1787.6526641845703, Actor Loss: -1778.5237617492676  
Episode 2649: Time: 0.19860434532165527, Total Reward: 201.8617457995896, Q Loss: 1588.8136672973633, Actor Loss: -1613.4974822998047  
Episode 2650: Time: 0.1471705436706543, Total Reward: 146.48319795619685, Q Loss: 1238.9426307678223, Actor Loss: -1209.014305114746  
Episode 2651: Time: 0.13837814331054688, Total Reward: 137.50617731215698, Q Loss: 1199.0092468261719, Actor Loss: -1145.9235076904297  
Episode 2652: Time: 0.2934846878051758, Total Reward: 304.51272602417964, Q Loss: 2651.418186187744, Actor Loss: -2429.6915740966797  
Episode 2653: Time: 0.08648300170898438, Total Reward: 82.1457762745345, Q Loss: 720.8004608154297, Actor Loss: -694.9972648620605  
Episode 2654: Time: 0.1558988094329834, Total Reward: 155.72668771957052, Q Loss: 1568.7647552490234, Actor Loss: -1362.2397766113281  
Episode 2655: Time: 0.15531611442565918, Total Reward: 155.6074728586774, Q Loss: 1461.4220962524414, Actor Loss: -1306.2966766357422  
Episode 2656: Time: 0.12158846855163574, Total Reward: 119.44650997403603, Q Loss: 1074.934440612793, Actor Loss: -1039.8062286376953  
Episode 2657: Time: 0.11229968070983887, Total Reward: 108.9885217658987, Q Loss: 1007.5238456726074, Actor Loss: -928.643424987793  
Episode 2658: Time: 0.19870448112487793, Total Reward: 200.99972205274102, Q Loss: 1705.7907180786133, Actor Loss: -1683.093505859375  
Episode 2659: Time: 0.12069821357727051, Total Reward: 118.18887311960168, Q Loss: 1101.421672821045, Actor Loss: -1042.9026336669922  
Episode 2660: Time: 0.2507035732269287, Total Reward: 257.884831934067, Q Loss: 2319.0567359924316, Actor Loss: -2113.455539703369  
Episode 2661: Time: 0.06072211265563965, Total Reward: 53.39504882605989, Q Loss: 536.2494163513184, Actor Loss: -534.7491836547852



Episode 2662: Time: 0.3103759288787842, Total Reward: 321.5409866470958, Q Loss: 2728.3710899353027, Actor Loss: -2590.930709838867  
Episode 2663: Time: 0.12076473236083984, Total Reward: 118.66493756539222, Q Loss: 1166.5680656433105, Actor Loss: -1044.1686630249023  
Episode 2664: Time: 0.12139248847961426, Total Reward: 118.85814566024392, Q Loss: 1180.498722076416, Actor Loss: -1025.821434020996  
Episode 2665: Time: 0.2328042984008789, Total Reward: 238.62603272280543, Q Loss: 2035.1372718811035, Actor Loss: -1999.1032676696777  
Episode 2666: Time: 0.20662236213684082, Total Reward: 211.49046842366323, Q Loss: 1963.2746086120605, Actor Loss: -1784.6154251098633  
Episode 2667: Time: 0.154860258102417, Total Reward: 155.39476228590124, Q Loss: 1403.6847343444824, Actor Loss: -1329.4147186279297  
Episode 2668: Time: 0.2927515506744385, Total Reward: 304.9313184274751, Q Loss: 3039.603889465332, Actor Loss: -2495.67818069458  
Episode 2669: Time: 0.10362768173217773, Total Reward: 100.36108357568696, Q Loss: 1053.3823623657227, Actor Loss: -887.5879364013672  
Episode 2670: Time: 0.17284774780273438, Total Reward: 174.20030204168089, Q Loss: 1832.387996673584, Actor Loss: -1526.5183944702148  
Episode 2671: Time: 0.10342025756835938, Total Reward: 100.22940927544903, Q Loss: 1008.2964019775391, Actor Loss: -892.0400352478027  
Episode 2672: Time: 0.06962275505065918, Total Reward: 63.211971745298015, Q Loss: 655.015697479248, Actor Loss: -603.1513290405273  
Episode 2673: Time: 0.147993803024292, Total Reward: 147.15670807848852, Q Loss: 1587.0591201782227, Actor Loss: -1258.7643699645996  
Episode 2674: Time: 0.18087387084960938, Total Reward: 183.93940377894515, Q Loss: 1922.417552947998, Actor Loss: -1597.3770904541016  
Episode 2675: Time: 0.11231660842895508, Total Reward: 109.09125350032285, Q Loss: 1012.2370948791504, Actor Loss: -951.4435920715332  
Episode 2676: Time: 0.10316991806030273, Total Reward: 100.47086440031029, Q Loss: 1018.8176116943359, Actor Loss: -933.5170669555664  
Episode 2677: Time: 0.24128317832946777, Total Reward: 248.79337410807497, Q Loss: 2402.1073150634766, Actor Loss: -2020.2107238769531  
Episode 2678: Time: 0.12894773483276367, Total Reward: 129.0383087708134, Q Loss: 1183.498556137085, Actor Loss: -1097.6252899169922  
Episode 2679: Time: 0.08664321899414062, Total Reward: 81.45366204298797, Q Loss: 844.2245292663574, Actor Loss: -747.3071212768555  
Episode 2680: Time: 0.07780933380126953, Total Reward: 72.58901308097064, Q Loss: 822.981128692627, Actor Loss: -680.7624588012695  
Episode 2681: Time: 0.14676880836486816, Total Reward: 145.8043709192637, Q Loss: 1345.3585090637207, Actor Loss: -1198.9147911071777  
Episode 2682: Time: 0.09469246864318848, Total Reward: 90.57082285273684, Q Loss: 916.8694248199463, Actor Loss: -824.5011329650879  
Episode 2683: Time: 0.2580270767211914, Total Reward: 266.5767042064093, Q Loss: 2461.860538482666, Actor Loss: -2295.0047302246094  
Episode 2684: Time: 0.17173409461975098, Total Reward: 173.28899567816487, Q Loss: 1691.517677307129, Actor Loss: -1429.4421768188477  
Episode 2685: Time: 0.2757863998413086, Total Reward: 285.62637457523425, Q Loss: 2994.7423667907715, Actor Loss: -2416.803005218506  
Episode 2686: Time: 0.12978267669677734, Total Reward: 127.3326296438549, Q Loss: 1278.1276397705078, Actor Loss: -1144.3538818359375  
Episode 2687: Time: 0.2845306396484375, Total Reward: 293.7074998950693, Q Loss: 2593.2396354675293, Actor Loss: -2447.496894836426  
Episode 2688: Time: 0.07794690132141113, Total Reward: 72.68221637238344, Q Loss: 790.015682220459, Actor Loss: -650.3816375732422  
Episode 2689: Time: 0.19827818870544434, Total Reward: 200.37489680449676, Q Loss: 1947.3088493347168, Actor Loss: -1739.6251068115234

Episode 2690: Time: 0.07780075073242188, Total Reward: 72.9536215608449, Q Loss: 822.0561256408691, Actor Loss: -711.6636428833008  
Episode 2691: Time: 0.13806605339050293, Total Reward: 137.51959348794045, Q Loss: 1402.0251426696777, Actor Loss: -1219.424057006836  
Episode 2692: Time: 0.10365796089172363, Total Reward: 100.22569424251394, Q Loss: 1064.188175201416, Actor Loss: -929.8042068481445  
Episode 2693: Time: 0.11247682571411133, Total Reward: 108.53814784726566, Q Loss: 1059.6831703186035, Actor Loss: -1019.4108810424805  
Episode 2694: Time: 0.11212730407714844, Total Reward: 110.00394128461544, Q Loss: 1257.0791625976562, Actor Loss: -1008.1869735717773  
Episode 2695: Time: 0.19892668724060059, Total Reward: 202.8388986161995, Q Loss: 1965.9169578552246, Actor Loss: -1689.4630546569824  
Episode 2696: Time: 0.13800263404846191, Total Reward: 137.4470986889133, Q Loss: 1454.3646850585938, Actor Loss: -1239.2523727416992  
Episode 2697: Time: 0.18214869499206543, Total Reward: 181.21690199905427, Q Loss: 1858.2002487182617, Actor Loss: -1561.6203231811523  
Episode 2698: Time: 0.0692605972290039, Total Reward: 61.20517901887527, Q Loss: 667.8744506835938, Actor Loss: -593.9727973937988  
Episode 2699: Time: 0.294003963470459, Total Reward: 304.09583220020534, Q Loss: 2794.4013023376465, Actor Loss: -2494.503974914551  
Validation Mean: 350.12258672342216, Validation Std: 128.06775447921086  
saving model  
Episode 2700: Time: 0.1046593189239502, Total Reward: 100.80555865941662, Q Loss: 991.7430801391602, Actor Loss: -906.795352935791  
Episode 2701: Time: 0.06941604614257812, Total Reward: 62.823124580084574, Q Loss: 768.6212768554688, Actor Loss: -608.7275390625  
Episode 2702: Time: 0.16455745697021484, Total Reward: 164.42253431667478, Q Loss: 1986.099464416504, Actor Loss: -1460.036491394043  
Episode 2703: Time: 0.1382770538330078, Total Reward: 135.72206591465041, Q Loss: 1468.3086471557617, Actor Loss: -1242.7299728393555  
Episode 2704: Time: 0.15594244003295898, Total Reward: 155.0824946942566, Q Loss: 1390.5907707214355, Actor Loss: -1388.3789978027344  
Episode 2705: Time: 0.15551185607910156, Total Reward: 156.8431172053534, Q Loss: 1440.1170387268066, Actor Loss: -1324.1545600891113  
Episode 2706: Time: 0.23320746421813965, Total Reward: 239.3059127955233, Q Loss: 2159.101978302002, Actor Loss: -2057.3540420532227  
Episode 2707: Time: 0.24245500564575195, Total Reward: 248.81195454601297, Q Loss: 2439.6334381103516, Actor Loss: -2120.714286804199  
Episode 2708: Time: 0.07809710502624512, Total Reward: 72.55788953581302, Q Loss: 792.3059158325195, Actor Loss: -704.7828979492188  
Episode 2709: Time: 0.2160336971282959, Total Reward: 220.80994535662467, Q Loss: 2423.5942344665527, Actor Loss: -1868.1587448120117  
Episode 2710: Time: 0.4155552387237549, Total Reward: 431.8012060196644, Q Loss: 4187.357288360596, Actor Loss: -3660.4360733032227  
Episode 2711: Time: 0.1557457447052002, Total Reward: 155.72474388509227, Q Loss: 1490.4337272644043, Actor Loss: -1356.5899353027344  
Episode 2712: Time: 0.21652460098266602, Total Reward: 218.58268195220023, Q Loss: 2353.013370513916, Actor Loss: -1947.6476936340332  
Episode 2713: Time: 0.07844161987304688, Total Reward: 72.3837597327496, Q Loss: 825.548397064209, Actor Loss: -708.4157409667969  
Episode 2714: Time: 0.06954240798950195, Total Reward: 62.83979845124641, Q Loss: 772.7951469421387, Actor Loss: -651.3652420043945  
Episode 2715: Time: 0.1216435432434082, Total Reward: 118.6729450044802, Q Loss: 1260.9708709716797, Actor Loss: -1091.7537460327148  
Episode 2716: Time: 0.2599639892578125, Total Reward: 266.85476038801676, Q Loss: 2666.6631622314453, Actor Loss: -2242.7182426452637

Episode 2717: Time: 0.1817171573638916, Total Reward: 184.19476144347675, Q Loss: 2163.236946105957, Actor Loss: -1688.8269729614258  
Episode 2718: Time: 0.23385095596313477, Total Reward: 239.46484217171988, Q Loss: 2932.254135131836, Actor Loss: -2042.583236694336  
Episode 2719: Time: 0.16384172439575195, Total Reward: 165.2035117913462, Q Loss: 1831.265422821045, Actor Loss: -1542.937240600586  
Episode 2720: Time: 0.12143397331237793, Total Reward: 119.1895097020512, Q Loss: 1207.7605056762695, Actor Loss: -1076.8422241210938  
Episode 2721: Time: 0.16359901428222656, Total Reward: 165.31965738454758, Q Loss: 1613.3924560546875, Actor Loss: -1439.9258575439453  
Episode 2722: Time: 0.07802462577819824, Total Reward: 72.8935279703432, Q Loss: 761.3029479980469, Actor Loss: -678.8302917480469  
Episode 2723: Time: 0.21499037742614746, Total Reward: 220.5489996387758, Q Loss: 2396.5012588500977, Actor Loss: -2019.9068984985352  
Episode 2724: Time: 0.266556978225708, Total Reward: 277.34651629979084, Q Loss: 2821.360210418701, Actor Loss: -2404.628200531006  
Episode 2725: Time: 0.19727659225463867, Total Reward: 202.3969989096461, Q Loss: 2078.5567932128906, Actor Loss: -1815.9918823242188  
Episode 2726: Time: 0.13829565048217773, Total Reward: 137.23087545455635, Q Loss: 1568.1287536621094, Actor Loss: -1278.9664001464844  
Episode 2727: Time: 0.1889491081237793, Total Reward: 192.44389736977928, Q Loss: 1924.4774551391602, Actor Loss: -1736.5815124511719  
Episode 2728: Time: 0.1636180877685547, Total Reward: 165.70349565447518, Q Loss: 1700.2014122009277, Actor Loss: -1479.5079727172852  
Episode 2729: Time: 0.258129358291626, Total Reward: 267.14150534002573, Q Loss: 2895.710205078125, Actor Loss: -2393.211067199707  
Episode 2730: Time: 0.10339117050170898, Total Reward: 100.07535432413096, Q Loss: 1030.7844161987305, Actor Loss: -960.3990783691406  
Episode 2731: Time: 0.24096035957336426, Total Reward: 249.39802718083766, Q Loss: 2551.0459365844727, Actor Loss: -2159.4505462646484  
Episode 2732: Time: 0.14641284942626953, Total Reward: 146.65411793043458, Q Loss: 1675.0835876464844, Actor Loss: -1364.341163635254  
Episode 2733: Time: 0.1635913848876953, Total Reward: 165.03072437269248, Q Loss: 1785.9294548034668, Actor Loss: -1501.8341827392578  
Episode 2734: Time: 0.13785791397094727, Total Reward: 137.86574555828375, Q Loss: 1496.1754112243652, Actor Loss: -1260.2044143676758  
Episode 2735: Time: 0.18164610862731934, Total Reward: 183.2646919226552, Q Loss: 1892.6035423278809, Actor Loss: -1737.0230407714844  
Episode 2736: Time: 0.2670104503631592, Total Reward: 275.44375542554155, Q Loss: 3225.9516105651855, Actor Loss: -2450.882987976074  
Episode 2737: Time: 0.22431373596191406, Total Reward: 230.67952906964527, Q Loss: 2428.705062866211, Actor Loss: -2029.4643478393555  
Episode 2738: Time: 0.13962960243225098, Total Reward: 137.52176496856444, Q Loss: 1692.6755447387695, Actor Loss: -1275.125747680664  
Episode 2739: Time: 0.1656966209411621, Total Reward: 165.3563590072731, Q Loss: 2007.197509765625, Actor Loss: -1512.9766998291016  
Episode 2740: Time: 0.12988924980163574, Total Reward: 128.25097178625353, Q Loss: 1538.571662902832, Actor Loss: -1173.5004272460938  
Episode 2741: Time: 0.11284637451171875, Total Reward: 109.76742916594114, Q Loss: 1107.9032745361328, Actor Loss: -1006.4561767578125  
Episode 2742: Time: 0.12117981910705566, Total Reward: 119.31985378609323, Q Loss: 1317.4919662475586, Actor Loss: -1120.2267227172852  
Episode 2743: Time: 0.34877514839172363, Total Reward: 342.50534128244965, Q Loss: 3816.798999786377, Actor Loss: -3001.7266006469727  
Episode 2744: Time: 0.3836526870727539, Total Reward: 396.6468731993445, Q Loss: 4137.558216094971, Actor Loss: -3414.52099609375

Episode 2745: Time: 0.17835068702697754, Total Reward: 174.74258013195887, Q Loss: 1785.2717170715332, Actor Loss: -1590.685302734375  
Episode 2746: Time: 0.07836556434631348, Total Reward: 72.52785198870977, Q Loss: 1015.2675437927246, Actor Loss: -710.738395690918  
Episode 2747: Time: 0.18961095809936523, Total Reward: 193.42553091798047, Q Loss: 2175.324607849121, Actor Loss: -1815.4609146118164  
Episode 2748: Time: 0.0783231258392334, Total Reward: 72.05834758272317, Q Loss: 768.8178443908691, Actor Loss: -718.4404296875  
Episode 2749: Time: 0.20735812187194824, Total Reward: 212.43264726923306, Q Loss: 2435.501720428467, Actor Loss: -1927.1265106201172  
Episode 2750: Time: 0.2849280834197998, Total Reward: 295.00887869242274, Q Loss: 3295.090129852295, Actor Loss: -2685.0787200927734  
Episode 2751: Time: 0.13856005668640137, Total Reward: 137.74918069846547, Q Loss: 1526.2289390563965, Actor Loss: -1310.421287536621  
Episode 2752: Time: 0.198807954788208, Total Reward: 202.49554521920282, Q Loss: 2260.9297065734863, Actor Loss: -1861.0915489196777  
Episode 2753: Time: 0.2853128910064697, Total Reward: 295.7804329849462, Q Loss: 2978.102752685547, Actor Loss: -2637.2633743286133  
Episode 2754: Time: 0.2172837257385254, Total Reward: 220.36353577956922, Q Loss: 2535.285789489746, Actor Loss: -2054.225730895996  
Episode 2755: Time: 0.4736018180847168, Total Reward: 500.74157936773, Q Loss: 5780.358825683594, Actor Loss: -4489.212242126465  
Episode 2756: Time: 0.1216273307800293, Total Reward: 118.22865475097096, Q Loss: 1515.989013671875, Actor Loss: -1126.2692756652832  
Episode 2757: Time: 0.25856637954711914, Total Reward: 268.4948181622449, Q Loss: 2594.2683906555176, Actor Loss: -2370.3743743896484  
Episode 2758: Time: 0.15520739555358887, Total Reward: 155.97795979601003, Q Loss: 1856.9863204956055, Actor Loss: -1477.735336303711  
Episode 2759: Time: 0.24184632301330566, Total Reward: 248.82120897450852, Q Loss: 3047.5781478881836, Actor Loss: -2284.3244705200195  
Episode 2760: Time: 0.31877756118774414, Total Reward: 333.1158873630497, Q Loss: 4002.958354949951, Actor Loss: -3028.380813598633  
Episode 2761: Time: 0.32787084579467773, Total Reward: 341.59026988761565, Q Loss: 3537.761993408203, Actor Loss: -3152.613410949707  
Episode 2762: Time: 0.1721034049987793, Total Reward: 174.82629213857533, Q Loss: 1964.8355102539062, Actor Loss: -1647.6818084716797  
Episode 2763: Time: 0.2845180034637451, Total Reward: 295.6649349670853, Q Loss: 3385.9698371887207, Actor Loss: -2711.651752471924  
Episode 2764: Time: 0.24110960960388184, Total Reward: 249.65518892751348, Q Loss: 2922.4792251586914, Actor Loss: -2334.769821166992  
Episode 2765: Time: 0.06897282600402832, Total Reward: 62.68622040017299, Q Loss: 701.6532936096191, Actor Loss: -639.1218032836914  
Episode 2766: Time: 0.2501974105834961, Total Reward: 258.29328221003163, Q Loss: 2845.043472290039, Actor Loss: -2365.8805923461914  
Episode 2767: Time: 0.21530747413635254, Total Reward: 220.08113165102802, Q Loss: 2633.828414916992, Actor Loss: -2025.4011840820312  
Episode 2768: Time: 0.16352152824401855, Total Reward: 165.30705590396946, Q Loss: 1832.616786956787, Actor Loss: -1602.3426895141602  
Episode 2769: Time: 0.19792866706848145, Total Reward: 201.59190876581107, Q Loss: 2399.8759155273438, Actor Loss: -1848.8226852416992  
Episode 2770: Time: 0.22396397590637207, Total Reward: 229.67061880790686, Q Loss: 2453.407741546631, Actor Loss: -2145.6980514526367  
Episode 2771: Time: 0.27521657943725586, Total Reward: 286.380794287547, Q Loss: 3196.887409210205, Actor Loss: -2631.225570678711  
Episode 2772: Time: 0.13763833045959473, Total Reward: 137.76457881007357, Q Loss: 1649.7218132019043, Actor Loss: -1317.5376815795898

Episode 2773: Time: 0.180861234664917, Total Reward: 184.71737145816917, Q Loss: 2103.853214263916, Actor Loss: -1693.5795288085938  
Episode 2774: Time: 0.23447656631469727, Total Reward: 239.770790747715, Q Loss: 2962.219295501709, Actor Loss: -2261.8120193481445  
Episode 2775: Time: 0.3048264980316162, Total Reward: 314.83541452378785, Q Loss: 4026.828727722168, Actor Loss: -2906.969528198242  
Episode 2776: Time: 0.11417055130004883, Total Reward: 109.94993184709287, Q Loss: 1265.4020690917969, Actor Loss: -1087.5402069091797  
Episode 2777: Time: 0.1563112735748291, Total Reward: 156.3166117650812, Q Loss: 1720.7493934631348, Actor Loss: -1552.0980834960938  
Episode 2778: Time: 0.26076579093933105, Total Reward: 266.558994540915, Q Loss: 3150.279983520508, Actor Loss: -2538.250762939453  
Episode 2779: Time: 0.27701497077941895, Total Reward: 285.42609670957796, Q Loss: 3288.8876419067383, Actor Loss: -2731.0972213745117  
Episode 2780: Time: 0.19921016693115234, Total Reward: 203.25604789428854, Q Loss: 2639.3680877685547, Actor Loss: -1922.2604675292969  
Episode 2781: Time: 0.3553290367126465, Total Reward: 368.62666780212913, Q Loss: 4244.591548919678, Actor Loss: -3373.333625793457  
Episode 2782: Time: 0.11246228218078613, Total Reward: 110.10970136775069, Q Loss: 1486.94140625, Actor Loss: -1119.3792419433594  
Episode 2783: Time: 0.11307024955749512, Total Reward: 110.48950800888987, Q Loss: 1748.0826950073242, Actor Loss: -1104.6399002075195  
Episode 2784: Time: 0.27891087532043457, Total Reward: 286.4776153995163, Q Loss: 3551.6581954956055, Actor Loss: -2748.979461669922  
Episode 2785: Time: 0.08630752563476562, Total Reward: 81.98354888452205, Q Loss: 1097.7963638305664, Actor Loss: -838.5445709228516  
Episode 2786: Time: 0.27820849418640137, Total Reward: 284.9868253310694, Q Loss: 3554.599895477295, Actor Loss: -2723.0014572143555  
Episode 2787: Time: 0.20794963836669922, Total Reward: 212.63290307070795, Q Loss: 2651.81339263916, Actor Loss: -2068.6689453125  
Episode 2788: Time: 0.1476733684539795, Total Reward: 146.38317460386668, Q Loss: 1917.9623489379883, Actor Loss: -1404.9912338256836  
Episode 2789: Time: 0.08646559715270996, Total Reward: 82.4267102355835, Q Loss: 1059.391830444336, Actor Loss: -845.779899597168  
Episode 2790: Time: 0.17310285568237305, Total Reward: 174.2291127322079, Q Loss: 2036.6497535705566, Actor Loss: -1672.5429344177246  
Episode 2791: Time: 0.18247127532958984, Total Reward: 182.92580050961405, Q Loss: 2286.1113052368164, Actor Loss: -1798.6409301757812  
Episode 2792: Time: 0.2511165142059326, Total Reward: 259.09597431018557, Q Loss: 3008.706123352051, Actor Loss: -2481.360565185547  
Episode 2793: Time: 0.13899779319763184, Total Reward: 137.91591282165155, Q Loss: 1570.3020782470703, Actor Loss: -1394.2987060546875  
Episode 2794: Time: 0.15602350234985352, Total Reward: 155.7924243572326, Q Loss: 2092.3286743164062, Actor Loss: -1520.8894653320312  
Episode 2795: Time: 0.2605464458465576, Total Reward: 268.4852432731694, Q Loss: 3361.9306411743164, Actor Loss: -2604.308753967285  
Episode 2796: Time: 0.1384294033050537, Total Reward: 137.88914888098557, Q Loss: 1834.36376953125, Actor Loss: -1381.155632019043  
Episode 2797: Time: 0.2613060474395752, Total Reward: 269.24079356885835, Q Loss: 3591.0617904663086, Actor Loss: -2564.3642807006836  
Episode 2798: Time: 0.15613341331481934, Total Reward: 156.82458085196714, Q Loss: 2059.8759536743164, Actor Loss: -1585.4793167114258  
Episode 2799: Time: 0.21765470504760742, Total Reward: 221.51117108838494, Q Loss: 2838.6034965515137, Actor Loss: -2131.39013671875  
Validation Mean: 299.4362978363312, Validation Std: 88.38604528902388  
saving model

Episode 2800: Time: 0.16468310356140137, Total Reward: 166.0329071235196, Q Loss: 2191.498104095459, Actor Loss: -1649.632339477539  
Episode 2801: Time: 0.11306071281433105, Total Reward: 109.94809641890036, Q Loss: 1170.8000564575195, Actor Loss: -1118.0262603759766  
Episode 2802: Time: 0.09521484375, Total Reward: 90.8805559108032, Q Loss: 166.3439559936523, Actor Loss: -951.7236709594727  
Episode 2803: Time: 0.10411262512207031, Total Reward: 100.7261277962839, Q Loss: 1585.9184112548828, Actor Loss: -1062.2903594970703  
Episode 2804: Time: 0.13962292671203613, Total Reward: 138.1427035901437, Q Loss: 1896.602035522461, Actor Loss: -1356.7993545532227  
Episode 2805: Time: 0.13849759101867676, Total Reward: 137.70991541322044, Q Loss: 1826.210060119629, Actor Loss: -1368.8161315917969  
Episode 2806: Time: 0.3373703956604004, Total Reward: 352.04663417473154, Q Loss: 4387.608985900879, Actor Loss: -3408.1058959960938  
Episode 2807: Time: 0.23313355445861816, Total Reward: 240.93511274928738, Q Loss: 3122.8276596069336, Actor Loss: -2285.6894149780273  
Episode 2808: Time: 0.10329437255859375, Total Reward: 100.86926862877685, Q Loss: 1382.077262878418, Actor Loss: -1047.5093231201172  
Episode 2809: Time: 0.2494831085205078, Total Reward: 257.63534813711357, Q Loss: 3437.0784301757812, Actor Loss: -2513.4091720581055  
Episode 2810: Time: 0.33466458320617676, Total Reward: 352.61772345987737, Q Loss: 4230.3686447143555, Actor Loss: -3292.7092056274414  
Episode 2811: Time: 0.1544201374053955, Total Reward: 155.75542494338944, Q Loss: 2051.3459396362305, Actor Loss: -1559.1430892944336  
Episode 2812: Time: 0.21442222595214844, Total Reward: 221.79842022970428, Q Loss: 2948.612075805664, Actor Loss: -2162.2658767700195  
Episode 2813: Time: 0.40497636795043945, Total Reward: 426.78960146932957, Q Loss: 5566.603839874268, Actor Loss: -4115.4376220703125  
Episode 2814: Time: 0.18120050430297852, Total Reward: 184.6949904274475, Q Loss: 2801.3948287963867, Actor Loss: -1894.497413635254  
Episode 2815: Time: 0.25873231887817383, Total Reward: 265.7542006700994, Q Loss: 3256.6275634765625, Actor Loss: -2674.739288330078  
Episode 2816: Time: 0.0948343276977539, Total Reward: 91.01280740063764, Q Loss: 1208.4724044799805, Actor Loss: -949.2599868774414  
Episode 2817: Time: 0.18986821174621582, Total Reward: 193.49374094479117, Q Loss: 2432.1077575683594, Actor Loss: -1929.488265991211  
Episode 2818: Time: 0.37857508659362793, Total Reward: 399.23342051460764, Q Loss: 5172.891399383545, Actor Loss: -3899.7455825805664  
Episode 2819: Time: 0.26748204231262207, Total Reward: 277.0761023926329, Q Loss: 3411.773124694824, Actor Loss: -2706.04248046875  
Episode 2820: Time: 0.3517589569091797, Total Reward: 369.9472198565502, Q Loss: 4940.6394119262695, Actor Loss: -3622.0794982910156  
Episode 2821: Time: 0.23344635963439941, Total Reward: 239.51150092827706, Q Loss: 3058.8061141967773, Actor Loss: -2402.901336669922  
Episode 2822: Time: 0.1635444164276123, Total Reward: 165.99119327037158, Q Loss: 1934.7798614501953, Actor Loss: -1698.8411865234375  
Episode 2823: Time: 0.16415619850158691, Total Reward: 166.1043665289837, Q Loss: 2457.1533737182617, Actor Loss: -1743.4445724487305  
Episode 2824: Time: 0.08640623092651367, Total Reward: 81.90228368124976, Q Loss: 1004.5900382995605, Actor Loss: -850.2192840576172  
Episode 2825: Time: 0.20721173286437988, Total Reward: 212.04381978391916, Q Loss: 2746.2498168945312, Actor Loss: -2170.80997467041  
Episode 2826: Time: 0.2581014633178711, Total Reward: 266.55127052224464, Q Loss: 3471.587387084961, Actor Loss: -2691.953582763672  
Episode 2827: Time: 0.22340798377990723, Total Reward: 230.21224424970913, Q Loss: 2983.6421432495117, Actor Loss: -2325.1403198242188

Episode 2828: Time: 0.23192167282104492, Total Reward: 239.92772556651477, Q Loss: 3252.2837142944336, Actor Loss: -2359.8003005981445  
Episode 2829: Time: 0.2496037483215332, Total Reward: 256.8146132743168, Q Loss: 3510.5585746765137, Actor Loss: -2556.5233459472656  
Episode 2830: Time: 0.1377718448638916, Total Reward: 137.9287334795747, Q Loss: 1893.0953979492188, Actor Loss: -1429.4823455810547  
Episode 2831: Time: 0.31071972846984863, Total Reward: 323.5941133135642, Q Loss: 4333.952533721924, Actor Loss: -3180.0060958862305  
Episode 2832: Time: 0.24991703033447266, Total Reward: 258.90655263519255, Q Loss: 3720.564552307129, Actor Loss: -2631.5035705566406  
Episode 2833: Time: 0.1551826000213623, Total Reward: 156.76991497867917, Q Loss: 2096.1155395507812, Actor Loss: -1607.3291320800781  
Episode 2834: Time: 0.23313617706298828, Total Reward: 240.49067330707757, Q Loss: 3272.1691818237305, Actor Loss: -2464.6777954101562  
Episode 2835: Time: 0.09497570991516113, Total Reward: 91.56993361341779, Q Loss: 1415.897071838379, Actor Loss: -971.034423828125  
Episode 2836: Time: 0.3016955852508545, Total Reward: 315.2263108924911, Q Loss: 3955.7692337036133, Actor Loss: -3113.1350021362305  
Episode 2837: Time: 0.17439985275268555, Total Reward: 175.43555810887898, Q Loss: 2304.135543823242, Actor Loss: -1824.1908340454102  
Episode 2838: Time: 0.2215723991394043, Total Reward: 220.58658132646235, Q Loss: 2649.689220428467, Actor Loss: -2264.653030395508  
Episode 2839: Time: 0.25002336502075195, Total Reward: 258.8787174386155, Q Loss: 4001.6073570251465, Actor Loss: -2543.2955169677734  
Episode 2840: Time: 0.2873368263244629, Total Reward: 296.4527581185319, Q Loss: 3922.7887001037598, Actor Loss: -2979.9092559814453  
Episode 2841: Time: 0.26990818977355957, Total Reward: 277.69574359507914, Q Loss: 3854.243305206299, Actor Loss: -2721.3740310668945  
Episode 2842: Time: 0.18271660804748535, Total Reward: 184.4929527676326, Q Loss: 2612.289596557617, Actor Loss: -1931.7592391967773  
Episode 2843: Time: 0.234375, Total Reward: 240.2021589545566, Q Loss: 3099.0251083374023, Actor Loss: -2409.7383193969727  
Episode 2844: Time: 0.19125628471374512, Total Reward: 192.15741612768377, Q Loss: 2491.2666778564453, Actor Loss: -2054.622718811035  
Episode 2845: Time: 0.11334633827209473, Total Reward: 110.10146550838078, Q Loss: 1583.279312133789, Actor Loss: -1186.9150009155273  
Episode 2846: Time: 0.2179098129272461, Total Reward: 221.909373582176, Q Loss: 3119.693183898926, Actor Loss: -2292.8178787231445  
Episode 2847: Time: 0.19157648086547852, Total Reward: 193.23685953899053, Q Loss: 2693.549026489258, Actor Loss: -2041.9707794189453  
Episode 2848: Time: 0.1916360855102539, Total Reward: 194.4919048894717, Q Loss: 2561.33837890625, Actor Loss: -1991.19287109375  
Episode 2849: Time: 0.17311382293701172, Total Reward: 175.07197661533507, Q Loss: 2354.0022888183594, Actor Loss: -1892.3125762939453  
Episode 2850: Time: 0.4000430107116699, Total Reward: 417.4239355874185, Q Loss: 5367.685119628906, Actor Loss: -4107.76985168457  
Episode 2851: Time: 0.20867633819580078, Total Reward: 212.45752362541663, Q Loss: 3205.8088912963867, Actor Loss: -2186.4233932495117  
Episode 2852: Time: 0.13168716430664062, Total Reward: 128.88953103129663, Q Loss: 1817.5068359375, Actor Loss: -1381.2793579101562  
Episode 2853: Time: 0.18253350257873535, Total Reward: 184.92913588642026, Q Loss: 2818.263816833496, Actor Loss: -1941.8100204467773  
Episode 2854: Time: 0.25269389152526855, Total Reward: 257.19166069102846, Q Loss: 3439.9074325561523, Actor Loss: -2709.404930114746  
Episode 2855: Time: 0.23445653915405273, Total Reward: 239.72012436567897, Q Loss: 3024.5218505859375, Actor Loss: -2446.4241943359375

Episode 2856: Time: 0.2342979907989502, Total Reward: 240.347326541589, Q Loss: 3314.9482650756836, Actor Loss: -2478.1508865356445  
Episode 2857: Time: 0.1393446922302246, Total Reward: 137.90045550204962, Q Loss: 2101.9207344055176, Actor Loss: -1503.456916809082  
Episode 2858: Time: 0.3211526870727539, Total Reward: 332.09589871956393, Q Loss: 4580.371410369873, Actor Loss: -3381.7001571655273  
Episode 2859: Time: 0.08755755424499512, Total Reward: 82.2509883218201, Q Loss: 1116.0956993103027, Actor Loss: -950.0950546264648  
Episode 2860: Time: 0.10460853576660156, Total Reward: 101.09599124554727, Q Loss: 1537.6758193969727, Actor Loss: -1145.3026428222656  
Episode 2861: Time: 0.22563958168029785, Total Reward: 230.81789620800464, Q Loss: 3230.8017082214355, Actor Loss: -2385.662872314453  
Episode 2862: Time: 0.13004755973815918, Total Reward: 128.93168909793746, Q Loss: 1978.3274154663086, Actor Loss: -1420.3304595947266  
Episode 2863: Time: 0.19128990173339844, Total Reward: 193.75712011658865, Q Loss: 2734.547996520996, Actor Loss: -2083.027069091797  
Episode 2864: Time: 0.21732783317565918, Total Reward: 221.6984723485057, Q Loss: 3353.260772705078, Actor Loss: -2331.186683654785  
Episode 2865: Time: 0.13010072708129883, Total Reward: 128.08748908854318, Q Loss: 1619.146728515625, Actor Loss: -1382.589973449707  
Episode 2866: Time: 0.18284153938293457, Total Reward: 184.85297884947454, Q Loss: 2916.3956298828125, Actor Loss: -2049.8040466308594  
Episode 2867: Time: 0.13949298858642578, Total Reward: 137.67542353743465, Q Loss: 1931.574649810791, Actor Loss: -1429.1503601074219  
Episode 2868: Time: 0.44530797004699707, Total Reward: 435.39777997031297, Q Loss: 6276.877487182617, Actor Loss: -4504.687355041504  
Episode 2869: Time: 0.6196210384368896, Total Reward: 658.4460442063252, Q Loss: 9537.999210357666, Actor Loss: -6777.5108642578125  
Episode 2870: Time: 0.30933117866516113, Total Reward: 322.21926208212244, Q Loss: 4803.160793304443, Actor Loss: -3351.951156616211  
Episode 2871: Time: 0.1201324462890625, Total Reward: 119.05975483706713, Q Loss: 1939.74609375, Actor Loss: -1321.5288925170898  
Episode 2872: Time: 0.08649253845214844, Total Reward: 82.17394217944388, Q Loss: 1352.4925384521484, Actor Loss: -905.0753860473633  
Episode 2873: Time: 0.12032675743103027, Total Reward: 119.36125054978017, Q Loss: 1547.9230651855469, Actor Loss: -1316.1333465576172  
Episode 2874: Time: 0.21509933471679688, Total Reward: 221.03552814467122, Q Loss: 3169.9905700683594, Actor Loss: -2356.4387283325195  
Episode 2875: Time: 0.35210633277893066, Total Reward: 370.50204570343095, Q Loss: 5336.109115600586, Actor Loss: -3942.655471801758  
Episode 2876: Time: 0.1905519962310791, Total Reward: 191.75085673716526, Q Loss: 2774.8442459106445, Actor Loss: -2032.5831680297852  
Episode 2877: Time: 0.23355603218078613, Total Reward: 240.43001243467228, Q Loss: 3240.1417121887207, Actor Loss: -2460.136787414551  
Episode 2878: Time: 0.207322359085083, Total Reward: 212.35357705603406, Q Loss: 3142.272994995117, Actor Loss: -2304.415298461914  
Episode 2879: Time: 0.24997997283935547, Total Reward: 256.27560844226895, Q Loss: 3810.228904724121, Actor Loss: -2626.5352325439453  
Episode 2880: Time: 0.1975996494293213, Total Reward: 203.14134915125283, Q Loss: 3028.550636291504, Actor Loss: -2170.0040130615234  
Episode 2881: Time: 0.18994951248168945, Total Reward: 193.97023056078606, Q Loss: 2754.4870223999023, Actor Loss: -2029.5418243408203  
Episode 2882: Time: 0.21682429313659668, Total Reward: 221.76963138425046, Q Loss: 3238.3838386535645, Actor Loss: -2391.7328491210938  
Episode 2883: Time: 0.24187231063842773, Total Reward: 249.95147390396056, Q Loss: 3246.0040321350098, Actor Loss: -2567.308921813965



Episode 2884: Time: 0.1978321075439453, Total Reward: 203.14974769760386, Q Loss: 3034.347427368164, Actor Loss: -2216.262985229492  
Episode 2885: Time: 0.21520233154296875, Total Reward: 221.1710618119582, Q Loss: 3330.1513061523438, Actor Loss: -2378.3032760620117  
Episode 2886: Time: 0.5858364105224609, Total Reward: 623.7095771074233, Q Loss: 8889.035934448242, Actor Loss: -6550.585639953613  
Episode 2887: Time: 0.10438966751098633, Total Reward: 100.79508478153991, Q Loss: 1623.7419738769531, Actor Loss: -1147.048194885254  
Episode 2888: Time: 0.25867128372192383, Total Reward: 267.7074510012855, Q Loss: 3739.11527633667, Actor Loss: -2823.221519470215  
Episode 2889: Time: 0.15471506118774414, Total Reward: 156.59052753598053, Q Loss: 2245.515354156494, Actor Loss: -1752.9002838134766  
Episode 2890: Time: 0.07816362380981445, Total Reward: 72.57679581887061, Q Loss: 1101.141616821289, Actor Loss: -843.0130844116211  
Episode 2891: Time: 0.22555208206176758, Total Reward: 229.4414310554816, Q Loss: 3250.398262023926, Actor Loss: -2567.2046661376953  
Episode 2892: Time: 0.14668560028076172, Total Reward: 147.56831841310665, Q Loss: 2271.1473388671875, Actor Loss: -1637.863784790039  
Episode 2893: Time: 0.12195825576782227, Total Reward: 120.04513527880678, Q Loss: 1800.5505905151367, Actor Loss: -1356.1184844970703  
Episode 2894: Time: 0.17362117767333984, Total Reward: 175.3193646658784, Q Loss: 3031.559371948242, Actor Loss: -2007.678611755371  
Episode 2895: Time: 0.19121193885803223, Total Reward: 193.00889709604888, Q Loss: 2759.7255630493164, Actor Loss: -2142.490852355957  
Episode 2896: Time: 0.22551441192626953, Total Reward: 230.16561432605226, Q Loss: 3685.888359069824, Actor Loss: -2538.6049423217773  
Episode 2897: Time: 0.20288348197937012, Total Reward: 203.01791474107893, Q Loss: 3425.7060775756836, Actor Loss: -2228.3847885131836  
Episode 2898: Time: 0.09572958946228027, Total Reward: 91.32375702797361, Q Loss: 1577.5989074707031, Actor Loss: -1027.8642959594727  
Episode 2899: Time: 0.20964956283569336, Total Reward: 208.90138936407297, Q Loss: 3229.2662086486816, Actor Loss: -2366.5563354492188  
Validation Mean: 327.4421295338623, Validation Std: 88.3347514663722  
saving model  
Episode 2900: Time: 0.2704916000366211, Total Reward: 277.7035674829607, Q Loss: 4365.819358825684, Actor Loss: -2937.9695739746094  
Episode 2901: Time: 0.16471481323242188, Total Reward: 164.84723668614325, Q Loss: 2492.33065032959, Actor Loss: -1835.406494140625  
Episode 2902: Time: 0.17424702644348145, Total Reward: 175.5772950605094, Q Loss: 2911.5598373413086, Actor Loss: -1946.6591796875  
Episode 2903: Time: 0.21667885780334473, Total Reward: 221.92962422573, Q Loss: 3638.0820846557617, Actor Loss: -2425.007743835449  
Episode 2904: Time: 0.3036470413208008, Total Reward: 314.8852406522345, Q Loss: 4785.541126251221, Actor Loss: -3419.64005279541  
Episode 2905: Time: 0.20881104469299316, Total Reward: 212.21912927622276, Q Loss: 3617.5063705444336, Actor Loss: -2354.287139892578  
Episode 2906: Time: 0.2775757312774658, Total Reward: 286.724085132446, Q Loss: 4390.529090881348, Actor Loss: -3170.294952392578  
Episode 2907: Time: 0.07884097099304199, Total Reward: 72.37517464035747, Q Loss: 1194.903060913086, Actor Loss: -883.9044723510742  
Episode 2908: Time: 0.30327343940734863, Total Reward: 313.3123922285423, Q Loss: 4867.700538635254, Actor Loss: -3464.5186920166016  
Episode 2909: Time: 0.250929594039917, Total Reward: 259.049532190684, Q Loss: 4270.9924392700195, Actor Loss: -2858.5803756713867  
Episode 2910: Time: 0.17330551147460938, Total Reward: 175.6877051784208, Q Loss: 3012.3779525756836, Actor Loss: -1947.0297775268555

Episode 2911: Time: 0.12216687202453613, Total Reward: 119.26318535744792, Q Loss: 1778.0371932983398, Actor Loss: -1427.8639068603516  
Episode 2912: Time: 0.13016009330749512, Total Reward: 128.72292190141184, Q Loss: 1939.2405166625977, Actor Loss: -1466.443220458984  
Episode 2913: Time: 0.2945396900177002, Total Reward: 306.14337182075417, Q Loss: 4821.120506286621, Actor Loss: -3454.43643951416  
Episode 2914: Time: 0.21690082550048828, Total Reward: 221.64168243670997, Q Loss: 3456.6358642578125, Actor Loss: -2471.5921325683594  
Episode 2915: Time: 0.23435425758361816, Total Reward: 240.8266605905667, Q Loss: 3770.519012451172, Actor Loss: -2645.3417892456055  
Episode 2916: Time: 0.25086021423339844, Total Reward: 259.4898272125998, Q Loss: 4135.837608337402, Actor Loss: -2935.436279296875  
Episode 2917: Time: 0.27742743492126465, Total Reward: 286.7446156242209, Q Loss: 4414.38224029541, Actor Loss: -3123.215850830078  
Episode 2918: Time: 0.3442530632019043, Total Reward: 360.8195444509209, Q Loss: 5595.614860534668, Actor Loss: -4083.682083129883  
Episode 2919: Time: 0.20682430267333984, Total Reward: 212.7657437670038, Q Loss: 3301.5175704956055, Actor Loss: -2414.530158996582  
Episode 2920: Time: 0.24127793312072754, Total Reward: 249.78935916203477, Q Loss: 3752.3852157592773, Actor Loss: -2798.1660919189453  
Episode 2921: Time: 0.27556777000427246, Total Reward: 286.4474734086508, Q Loss: 4888.405059814453, Actor Loss: -3132.747817993164  
Episode 2922: Time: 0.19808602333068848, Total Reward: 202.88640865857482, Q Loss: 3224.7539443969727, Actor Loss: -2248.939254760742  
Episode 2923: Time: 0.19792795181274414, Total Reward: 202.96713245308095, Q Loss: 3373.6361770629883, Actor Loss: -2395.092384338379  
Episode 2924: Time: 0.3010070323944092, Total Reward: 314.26512347529905, Q Loss: 5342.18196105957, Actor Loss: -3435.3926544189453  
Episode 2925: Time: 0.2661442756652832, Total Reward: 276.1695329899866, Q Loss: 4249.664260864258, Actor Loss: -3124.020462036133  
Episode 2926: Time: 0.13728022575378418, Total Reward: 138.08171983494745, Q Loss: 2477.6530838012695, Actor Loss: -1581.070899963379  
Episode 2927: Time: 0.18977952003479004, Total Reward: 193.17435902263028, Q Loss: 2744.670524597168, Actor Loss: -2206.1937713623047  
Episode 2928: Time: 0.35409116744995117, Total Reward: 370.88622043561037, Q Loss: 6543.68318939209, Actor Loss: -4072.3927307128906  
Episode 2929: Time: 0.06949663162231445, Total Reward: 62.9387470656615, Q Loss: 916.2742919921875, Actor Loss: -767.6220245361328  
Episode 2930: Time: 0.404665470123291, Total Reward: 427.7756644609221, Q Loss: 7085.770133972168, Actor Loss: -4833.7448806762695  
Episode 2931: Time: 0.1721947193145752, Total Reward: 175.71176630945482, Q Loss: 2828.326904296875, Actor Loss: -2038.7274856567383  
Episode 2932: Time: 0.24140596389770508, Total Reward: 249.42780252186031, Q Loss: 4031.7628479003906, Actor Loss: -2809.8249435424805  
Episode 2933: Time: 0.14633750915527344, Total Reward: 146.99037216898472, Q Loss: 2906.1543350219727, Actor Loss: -1698.535758972168  
Episode 2934: Time: 0.19836211204528809, Total Reward: 202.90818238297476, Q Loss: 3392.5904235839844, Actor Loss: -2370.9671325683594  
Episode 2935: Time: 0.07767868041992188, Total Reward: 72.45253025167051, Q Loss: 1226.7732162475586, Actor Loss: -905.9751205444336  
Episode 2936: Time: 0.2239818572998047, Total Reward: 231.61156009869464, Q Loss: 3692.3385620117188, Actor Loss: -2615.5320434570312  
Episode 2937: Time: 0.1293644905090332, Total Reward: 128.93377833180313, Q Loss: 2020.6268920898438, Actor Loss: -1520.7490463256836  
Episode 2938: Time: 0.11231732368469238, Total Reward: 110.29027912059594, Q Loss: 1945.6759567260742, Actor Loss: -1321.6959533691406

Episode 2939: Time: 0.08637857437133789, Total Reward: 81.70161212633772, Q Loss: 1696.3596496582031, Actor Loss: -1079.573844909668  
Episode 2940: Time: 0.1300504207611084, Total Reward: 128.45887410113357, Q Loss: 2617.3669662475586, Actor Loss: -1589.0997619628906  
Episode 2941: Time: 0.5424628257751465, Total Reward: 573.2633389449726, Q Loss: 9613.343406677246, Actor Loss: -6548.196922302246  
Episode 2942: Time: 0.24144315719604492, Total Reward: 249.43300764511994, Q Loss: 4241.950897216797, Actor Loss: -2901.286460876465  
Episode 2943: Time: 0.3867673873901367, Total Reward: 407.6829604099057, Q Loss: 7468.966285705566, Actor Loss: -4606.959922790527  
Episode 2944: Time: 0.27575039863586426, Total Reward: 286.9955512929787, Q Loss: 4493.410339355469, Actor Loss: -3259.2190170288086  
Episode 2945: Time: 0.41497039794921875, Total Reward: 436.5113877026086, Q Loss: 6915.473320007324, Actor Loss: -4948.996429443359  
Episode 2946: Time: 0.1989576816558838, Total Reward: 202.6174210970277, Q Loss: 3371.821258544922, Actor Loss: -2440.7205352783203  
Episode 2947: Time: 0.13034319877624512, Total Reward: 128.71917347169563, Q Loss: 2437.1723861694336, Actor Loss: -1594.4943389892578  
Episode 2948: Time: 0.24242734909057617, Total Reward: 249.4377781466983, Q Loss: 4596.637168884277, Actor Loss: -2942.1027908325195  
Episode 2949: Time: 0.2754690647125244, Total Reward: 286.9556722067685, Q Loss: 4509.454551696777, Actor Loss: -3226.3281478881836  
Episode 2950: Time: 0.15485239028930664, Total Reward: 155.87758376551042, Q Loss: 2947.087356567383, Actor Loss: -1942.8622665405273  
Episode 2951: Time: 0.13930821418762207, Total Reward: 138.66432130146904, Q Loss: 2294.197738647461, Actor Loss: -1600.912986755371  
Episode 2952: Time: 0.19901680946350098, Total Reward: 202.78393601034875, Q Loss: 3707.5450897216797, Actor Loss: -2449.7589569091797  
Episode 2953: Time: 0.1357414722442627, Total Reward: 128.41836734226575, Q Loss: 2383.8411407470703, Actor Loss: -1560.2505416870117  
Episode 2954: Time: 0.2249298095703125, Total Reward: 230.05033169024222, Q Loss: 4249.22891998291, Actor Loss: -2678.4208221435547  
Episode 2955: Time: 0.1480090618133545, Total Reward: 147.00602202759723, Q Loss: 2817.111831665039, Actor Loss: -1740.6406021118164  
Episode 2956: Time: 0.06949329376220703, Total Reward: 63.21150602913081, Q Loss: 1268.3978424072266, Actor Loss: -872.0880889892578  
Episode 2957: Time: 0.09507298469543457, Total Reward: 91.73448141738216, Q Loss: 1816.7098846435547, Actor Loss: -1118.367416381836  
Episode 2958: Time: 0.30228590965270996, Total Reward: 314.1049597083315, Q Loss: 4766.734901428223, Actor Loss: -3657.7083587646484  
Episode 2959: Time: 0.18088912963867188, Total Reward: 183.642188044802, Q Loss: 3097.247802734375, Actor Loss: -2217.666404724121  
Episode 2960: Time: 0.2328035831451416, Total Reward: 239.3982641083481, Q Loss: 4320.245384216309, Actor Loss: -2873.2644424438477  
Episode 2961: Time: 0.42107295989990234, Total Reward: 446.39439220260357, Q Loss: 7599.036506652832, Actor Loss: -5108.194511413574  
Episode 2962: Time: 0.25847697257995605, Total Reward: 267.17220210351394, Q Loss: 4464.3229637146, Actor Loss: -3099.6242065429688  
Episode 2963: Time: 0.07762289047241211, Total Reward: 72.59938247279423, Q Loss: 1414.1244659423828, Actor Loss: -939.4028549194336  
Episode 2964: Time: 0.25840330123901367, Total Reward: 268.470005004979, Q Loss: 4683.8464279174805, Actor Loss: -3131.2369232177734  
Episode 2965: Time: 0.2922065258026123, Total Reward: 305.4000041186412, Q Loss: 5222.997734069824, Actor Loss: -3575.461051940918  
Episode 2966: Time: 0.2413468360900879, Total Reward: 249.31251028802788, Q Loss: 4743.397163391113, Actor Loss: -2911.988235473633

Episode 2967: Time: 0.15477967262268066, Total Reward: 156.9391761064431, Q Loss: 3031.043731689453, Actor Loss: -1927.194595336914  
Episode 2968: Time: 0.16366982460021973, Total Reward: 166.03802292098533, Q Loss: 3333.697006225586, Actor Loss: -2020.8212280273438  
Episode 2969: Time: 0.1633012294769287, Total Reward: 165.75035334008282, Q Loss: 3375.3675384521484, Actor Loss: -2074.7849349975586  
Episode 2970: Time: 0.17249631881713867, Total Reward: 175.34625528798068, Q Loss: 2953.7373123168945, Actor Loss: -2092.7280502319336  
Episode 2971: Time: 0.3276791572570801, Total Reward: 343.03039466127, Q Loss: 5962.236961364746, Actor Loss: -4048.269577026367  
Episode 2972: Time: 0.26676249504089355, Total Reward: 277.87044072139525, Q Loss: 4668.741683959961, Actor Loss: -3250.062240600586  
Episode 2973: Time: 0.15485310554504395, Total Reward: 156.84881657295279, Q Loss: 3191.1522216796875, Actor Loss: -1912.7635879516602  
Episode 2974: Time: 0.19002723693847656, Total Reward: 194.1763194014525, Q Loss: 3377.1046447753906, Actor Loss: -2313.0783462524414  
Episode 2975: Time: 0.2843184471130371, Total Reward: 294.30365473087136, Q Loss: 4865.108283996582, Actor Loss: -3592.9507369995117  
Episode 2976: Time: 0.2499079704284668, Total Reward: 258.99363488995, Q Loss: 4929.32430267334, Actor Loss: -3193.0327224731445  
Episode 2977: Time: 0.1549079418182373, Total Reward: 155.7155834117647, Q Loss: 3342.9742126464844, Actor Loss: -1937.3608322143555  
Episode 2978: Time: 0.09512114524841309, Total Reward: 90.79439688103889, Q Loss: 1916.781265258789, Actor Loss: -1154.6293869018555  
Episode 2979: Time: 0.12937426567077637, Total Reward: 128.85954486180793, Q Loss: 2259.056251525879, Actor Loss: -1602.3806610107422  
Episode 2980: Time: 0.18945097923278809, Total Reward: 192.64968468933094, Q Loss: 3701.056869506836, Actor Loss: -2340.2688522338867  
Episode 2981: Time: 0.23274803161621094, Total Reward: 240.39569491020092, Q Loss: 4609.749664306641, Actor Loss: -2833.130470275879  
Episode 2982: Time: 0.20699024200439453, Total Reward: 212.1595146732262, Q Loss: 3995.4885177612305, Actor Loss: -2634.88240814209  
Episode 2983: Time: 0.12081074714660645, Total Reward: 118.88829188459106, Q Loss: 2289.7506942749023, Actor Loss: -1579.710594177246  
Episode 2984: Time: 0.2673306465148926, Total Reward: 277.32422661211166, Q Loss: 5078.439163208008, Actor Loss: -3409.258613586426  
Episode 2985: Time: 0.09477663040161133, Total Reward: 91.50191658218299, Q Loss: 1722.5819244384766, Actor Loss: -1191.7703247070312  
Episode 2986: Time: 0.336592435836792, Total Reward: 350.54484759727717, Q Loss: 6209.62784576416, Actor Loss: -4231.957672119141  
Episode 2987: Time: 0.19868183135986328, Total Reward: 204.01845288683893, Q Loss: 3440.530097961426, Actor Loss: -2363.386703491211  
Episode 2988: Time: 0.07828950881958008, Total Reward: 71.40789178832824, Q Loss: 1314.9155960083008, Actor Loss: -954.065299987793  
Episode 2989: Time: 0.10348844528198242, Total Reward: 100.5007372483933, Q Loss: 1880.6380462646484, Actor Loss: -1272.2634658813477  
Episode 2990: Time: 0.3535330295562744, Total Reward: 370.8467705582924, Q Loss: 6759.712432861328, Actor Loss: -4501.720077514648  
Episode 2991: Time: 0.07775616645812988, Total Reward: 71.84794128053686, Q Loss: 1644.1975402832031, Actor Loss: -984.3931579589844  
Episode 2992: Time: 0.2586393356323242, Total Reward: 268.9271308654361, Q Loss: 5145.906562805176, Actor Loss: -3184.053291320801  
Episode 2993: Time: 0.34432482719421387, Total Reward: 362.02439816866956, Q Loss: 6394.596260070801, Actor Loss: -4315.897766113281  
Episode 2994: Time: 0.26766204833984375, Total Reward: 276.935087020648, Q Loss: 5393.661560058594, Actor Loss: -3419.841148376465

Episode 2995: Time: 0.1551375389099121, Total Reward: 156.75564493150333, Q Loss: 3210.0440063476562, Actor Loss: -1987.7428665161133  
Episode 2996: Time: 0.12119865417480469, Total Reward: 119.35565872402915, Q Loss: 2184.70597076416, Actor Loss: -1528.326431274414  
Episode 2997: Time: 0.15594053268432617, Total Reward: 156.52183998026877, Q Loss: 2713.2142791748047, Actor Loss: -1936.538963317871  
Episode 2998: Time: 0.15592622756958008, Total Reward: 156.2879950284732, Q Loss: 2964.042724609375, Actor Loss: -1924.0283432006836  
Episode 2999: Time: 0.19873666763305664, Total Reward: 202.54547414130636, Q Loss: 3387.211082458496, Actor Loss: -2493.5815353393555  
Validation Mean: 444.1743708206403, Validation Std: 181.63165321632746  
saving model  
Episode 3000: Time: 0.21765375137329102, Total Reward: 221.72545022527976, Q Loss: 4340.063888549805, Actor Loss: -2737.1754455566406  
Episode 3001: Time: 0.29448962211608887, Total Reward: 304.5977778415895, Q Loss: 6130.557762145996, Actor Loss: -3698.6950454711914  
Episode 3002: Time: 0.49174046516418457, Total Reward: 520.1213582403639, Q Loss: 9561.516311645508, Actor Loss: -6257.544486999512  
Episode 3003: Time: 0.12100076675415039, Total Reward: 119.32653490010547, Q Loss: 2191.9332733154297, Actor Loss: -1511.7655029296875  
Episode 3004: Time: 0.1821579933166504, Total Reward: 184.54623065586486, Q Loss: 3758.067710876465, Actor Loss: -2285.8992233276367  
Episode 3005: Time: 0.22652792930603027, Total Reward: 231.02377649745551, Q Loss: 4499.965934753418, Actor Loss: -2894.7152099609375  
Episode 3006: Time: 0.18158650398254395, Total Reward: 185.18417713522638, Q Loss: 3557.2425689697266, Actor Loss: -2324.988395690918  
Episode 3007: Time: 0.24187183380126953, Total Reward: 248.82234569569889, Q Loss: 4525.400375366211, Actor Loss: -3127.5608673095703  
Episode 3008: Time: 0.23383522033691406, Total Reward: 240.43258232929966, Q Loss: 4372.436180114746, Actor Loss: -2923.0710220336914  
Episode 3009: Time: 0.1383061408996582, Total Reward: 138.36288472239633, Q Loss: 3224.3473739624023, Actor Loss: -1772.328598022461  
Episode 3010: Time: 0.34998154640197754, Total Reward: 362.1256673850079, Q Loss: 7086.645645141602, Actor Loss: -4346.171005249023  
Episode 3011: Time: 0.26125359535217285, Total Reward: 268.6512566520898, Q Loss: 5242.635559082031, Actor Loss: -3353.4202728271484  
Episode 3012: Time: 0.3801853656768799, Total Reward: 399.46094800192236, Q Loss: 7962.236747741699, Actor Loss: -5004.601829528809  
Episode 3013: Time: 0.15572142601013184, Total Reward: 156.3585988007076, Q Loss: 3050.8437423706055, Actor Loss: -2039.11962890625  
Episode 3014: Time: 0.29346776008605957, Total Reward: 304.60147607306675, Q Loss: 6094.626983642578, Actor Loss: -3844.8693237304688  
Episode 3015: Time: 0.2688257694244385, Total Reward: 276.822035091961, Q Loss: 5168.028491973877, Actor Loss: -3439.0225219726562  
Episode 3016: Time: 0.4238138198852539, Total Reward: 444.17718963835483, Q Loss: 7979.878753662109, Actor Loss: -5603.866348266602  
Episode 3017: Time: 0.10390043258666992, Total Reward: 100.80766950922019, Q Loss: 2087.433853149414, Actor Loss: -1382.4202346801758  
Episode 3018: Time: 0.276536226272583, Total Reward: 287.3160865418526, Q Loss: 5866.201309204102, Actor Loss: -3689.9649505615234  
Episode 3019: Time: 0.20714545249938965, Total Reward: 212.53552303983074, Q Loss: 4665.259132385254, Actor Loss: -2719.3629989624023  
Episode 3020: Time: 0.34537768363952637, Total Reward: 361.81933518792187, Q Loss: 7372.672653198242, Actor Loss: -4577.041633605957  
Episode 3021: Time: 0.47252488136291504, Total Reward: 501.31034165352395, Q Loss: 10026.67928314209, Actor Loss: -6316.935348510742

Episode 3022: Time: 0.30992794036865234, Total Reward: 324.4965186898316, Q Loss: 6566.743698120117, Actor Loss: -4123.039878845215  
Episode 3023: Time: 0.08661031723022461, Total Reward: 82.05677651270594, Q Loss: 1720.223403930664, Actor Loss: -1170.1322784423828  
Episode 3024: Time: 0.07786273956298828, Total Reward: 71.53539436253513, Q Loss: 1848.8194274902344, Actor Loss: -1005.6688766479492  
Episode 3025: Time: 0.07820463180541992, Total Reward: 72.79203771405429, Q Loss: 1494.1408386230469, Actor Loss: -1011.3569793701172  
Episode 3026: Time: 0.19828224182128906, Total Reward: 201.623216617582, Q Loss: 4543.716651916504, Actor Loss: -2656.7940826416016  
Episode 3027: Time: 0.25023794174194336, Total Reward: 258.5246542508427, Q Loss: 5123.338623046875, Actor Loss: -3352.5828704833984  
Episode 3028: Time: 0.21517372131347656, Total Reward: 220.98284859997617, Q Loss: 4623.440734863281, Actor Loss: -2790.9888229370117  
Episode 3029: Time: 0.2064812183380127, Total Reward: 211.38471857119978, Q Loss: 4021.6618270874023, Actor Loss: -2704.7241439819336  
Episode 3030: Time: 0.3442668914794922, Total Reward: 359.63169448483063, Q Loss: 6936.086387634277, Actor Loss: -4644.864906311035  
Episode 3031: Time: 0.07759380340576172, Total Reward: 73.05722568954369, Q Loss: 1645.1765747070312, Actor Loss: -1081.4547882080078  
Episode 3032: Time: 0.2753901481628418, Total Reward: 286.7586011862074, Q Loss: 6253.166793823242, Actor Loss: -3805.069755554199  
Episode 3033: Time: 0.2668802738189697, Total Reward: 278.58807175624895, Q Loss: 5390.03205871582, Actor Loss: -3625.3378677368164  
Episode 3034: Time: 0.21631240844726562, Total Reward: 221.89169013377156, Q Loss: 4633.504623413086, Actor Loss: -2870.7877044677734  
Episode 3035: Time: 0.1468815803527832, Total Reward: 146.57416653030052, Q Loss: 3198.2881240844727, Actor Loss: -1963.1933212280273  
Episode 3036: Time: 0.259371280670166, Total Reward: 269.0171922842614, Q Loss: 5558.556716918945, Actor Loss: -3435.9607696533203  
Episode 3037: Time: 0.15603923797607422, Total Reward: 157.163365575904, Q Loss: 2899.676826477051, Actor Loss: -2081.102470397949  
Episode 3038: Time: 0.09531903266906738, Total Reward: 91.50805848553027, Q Loss: 2342.3574829101562, Actor Loss: -1281.0515518188477  
Episode 3039: Time: 0.16382336616516113, Total Reward: 164.1358628829562, Q Loss: 3223.86759185791, Actor Loss: -2170.9546279907227  
Episode 3040: Time: 0.07857036590576172, Total Reward: 71.16857146153153, Q Loss: 1562.0977020263672, Actor Loss: -1048.9024200439453  
Episode 3041: Time: 0.319774866104126, Total Reward: 333.96200616778316, Q Loss: 6318.978675842285, Actor Loss: -4326.811721801758  
Episode 3042: Time: 0.10355138778686523, Total Reward: 101.14192456950381, Q Loss: 2150.875633239746, Actor Loss: -1381.0852508544922  
Episode 3043: Time: 0.3018038272857666, Total Reward: 315.34823721069, Q Loss: 6384.603355407715, Actor Loss: -4117.594795227051  
Episode 3044: Time: 0.21621203422546387, Total Reward: 220.4241847471274, Q Loss: 5280.670509338379, Actor Loss: -2875.3975830078125  
Episode 3045: Time: 0.21594500541687012, Total Reward: 222.4675801770312, Q Loss: 4691.624206542969, Actor Loss: -2892.2432022094727  
Episode 3046: Time: 0.20763516426086426, Total Reward: 213.27908693398157, Q Loss: 4186.973976135254, Actor Loss: -2831.2680435180664  
Episode 3047: Time: 0.2076878547668457, Total Reward: 212.48939904303876, Q Loss: 4686.176429748535, Actor Loss: -2776.5133209228516  
Episode 3048: Time: 0.22487783432006836, Total Reward: 230.49753447838074, Q Loss: 4605.365982055664, Actor Loss: -3041.474220275879  
Episode 3049: Time: 0.17261409759521484, Total Reward: 174.6839632490805, Q Loss: 3893.284507751465, Actor Loss: -2399.6313400268555

Episode 3050: Time: 0.29335713386535645, Total Reward: 305.32857429995994, Q Loss: 6312.603370666504, Actor Loss: -3938.0855407714844  
Episode 3051: Time: 0.17254853248596191, Total Reward: 175.20756178406307, Q Loss: 3748.276382446289, Actor Loss: -2354.1902389526367  
Episode 3052: Time: 0.24268794059753418, Total Reward: 248.86806850597745, Q Loss: 5101.03205871582, Actor Loss: -3275.907684326172  
Episode 3053: Time: 0.3285377025604248, Total Reward: 342.78969425390835, Q Loss: 6755.351333618164, Actor Loss: -4489.119789123535  
Episode 3054: Time: 0.25078821182250977, Total Reward: 258.98693532926774, Q Loss: 5354.368576049805, Actor Loss: -3327.0319442749023  
Episode 3055: Time: 0.33629751205444336, Total Reward: 350.4794646363363, Q Loss: 7344.097747802734, Actor Loss: -4617.679161071777  
Episode 3056: Time: 0.4832620620727539, Total Reward: 511.1146869500967, Q Loss: 10193.485305786133, Actor Loss: -6680.968940734863  
Episode 3057: Time: 0.1814262866973877, Total Reward: 184.69277105104987, Q Loss: 3834.717758178711, Actor Loss: -2519.9525833129883  
Episode 3058: Time: 0.7077949047088623, Total Reward: 753.668187025341, Q Loss: 15156.074829101562, Actor Loss: -9815.20987701416  
Episode 3059: Time: 0.19899892807006836, Total Reward: 202.4865340012589, Q Loss: 4087.4500427246094, Actor Loss: -2754.7019424438477  
Episode 3060: Time: 0.27568602561950684, Total Reward: 284.65461963748004, Q Loss: 5839.723686218262, Actor Loss: -3847.471824645996  
Episode 3061: Time: 0.18957972526550293, Total Reward: 194.31805915457667, Q Loss: 4106.0096435546875, Actor Loss: -2654.8936614990234  
Episode 3062: Time: 0.21555423736572266, Total Reward: 220.13173236617007, Q Loss: 5553.121017456055, Actor Loss: -3044.014518737793  
Episode 3063: Time: 0.22396111488342285, Total Reward: 231.9024497122243, Q Loss: 4911.3753662109375, Actor Loss: -3009.75594329834  
Episode 3064: Time: 0.32808971405029297, Total Reward: 342.3623254669902, Q Loss: 7499.515716552734, Actor Loss: -4663.056617736816  
Episode 3065: Time: 0.26711392402648926, Total Reward: 275.13805096210643, Q Loss: 6168.922462463379, Actor Loss: -3727.276496887207  
Episode 3066: Time: 0.18961405754089355, Total Reward: 192.84075682781491, Q Loss: 4296.081069946289, Actor Loss: -2711.4495010375977  
Episode 3067: Time: 0.2605764865875244, Total Reward: 267.4667364838128, Q Loss: 6019.720184326172, Actor Loss: -3770.2833251953125  
Episode 3068: Time: 0.28496479988098145, Total Reward: 296.21839921915796, Q Loss: 6708.070373535156, Actor Loss: -4039.2578048706055  
Episode 3069: Time: 0.20710039138793945, Total Reward: 212.5908439191343, Q Loss: 4170.316749572754, Actor Loss: -2910.2247772216797  
Episode 3070: Time: 0.2929997444152832, Total Reward: 304.67166964706524, Q Loss: 7245.581970214844, Actor Loss: -4153.043998718262  
Episode 3071: Time: 0.4138157367706299, Total Reward: 436.2461321021063, Q Loss: 8747.817817687988, Actor Loss: -5804.129493713379  
Episode 3072: Time: 0.12087082862854004, Total Reward: 119.82261915055943, Q Loss: 2983.6446685791016, Actor Loss: -1727.6472396850586  
Episode 3073: Time: 0.1210932731628418, Total Reward: 119.68465149648745, Q Loss: 3132.476547241211, Actor Loss: -1724.2284774780273  
Episode 3074: Time: 0.29352688789367676, Total Reward: 304.38139858712105, Q Loss: 6738.669723510742, Actor Loss: -4162.515411376953  
Episode 3075: Time: 0.2172083854675293, Total Reward: 218.94948983880238, Q Loss: 4640.010856628418, Actor Loss: -3050.546211242676  
Episode 3076: Time: 0.19042563438415527, Total Reward: 194.0196985555105, Q Loss: 4029.0082473754883, Actor Loss: -2766.132797241211  
Episode 3077: Time: 0.19122982025146484, Total Reward: 194.2835863858353, Q Loss: 4100.692008972168, Actor Loss: -2700.259132385254

Episode 3078: Time: 0.15775728225708008, Total Reward: 156.41705414509897, Q Loss: 3391.640953063965, Actor Loss: -2270.1915283203125  
Episode 3079: Time: 0.260608434677124, Total Reward: 267.95391535723275, Q Loss: 5658.290565490723, Actor Loss: -3679.3138732910156  
Episode 3080: Time: 0.17340326309204102, Total Reward: 175.35950305833643, Q Loss: 3405.722427368164, Actor Loss: -2500.7980728149414  
Episode 3081: Time: 0.130357027053833, Total Reward: 128.8389291078391, Q Loss: 3187.253463745117, Actor Loss: -1820.1660385131836  
Episode 3082: Time: 0.09522247314453125, Total Reward: 91.32830457212063, Q Loss: 2020.0783233642578, Actor Loss: -1384.881118774414  
Episode 3083: Time: 0.14740657806396484, Total Reward: 147.43018568155884, Q Loss: 3261.5352325439453, Actor Loss: -2108.0995864868164  
Episode 3084: Time: 0.2078089714050293, Total Reward: 212.41380828166422, Q Loss: 4931.519905090332, Actor Loss: -2930.256561279297  
Episode 3085: Time: 0.11322498321533203, Total Reward: 110.41023636435052, Q Loss: 2285.038299560547, Actor Loss: -1561.2024688720703  
Episode 3086: Time: 0.19902634620666504, Total Reward: 202.6044928535763, Q Loss: 4805.960632324219, Actor Loss: -2864.078582763672  
Episode 3087: Time: 0.07870030403137207, Total Reward: 72.53825909941722, Q Loss: 1546.487564086914, Actor Loss: -1125.5111236572266  
Episode 3088: Time: 0.24128055572509766, Total Reward: 248.23686760254776, Q Loss: 5768.2907791137695, Actor Loss: -3506.8655014038086  
Episode 3089: Time: 0.18085360527038574, Total Reward: 183.14412000445347, Q Loss: 3822.5023651123047, Actor Loss: -2612.3236083984375  
Episode 3090: Time: 0.4469897747039795, Total Reward: 474.1971999407956, Q Loss: 10386.466331481934, Actor Loss: -6416.2971267700195  
Episode 3091: Time: 0.17180156707763672, Total Reward: 173.5677124024575, Q Loss: 3632.2595977783203, Actor Loss: -2446.3454818725586  
Episode 3092: Time: 0.12089180946350098, Total Reward: 119.78344024276869, Q Loss: 2954.1603927612305, Actor Loss: -1812.9293212890625  
Episode 3093: Time: 0.2923710346221924, Total Reward: 305.7529819150799, Q Loss: 6701.356155395508, Actor Loss: -4174.114791870117  
Episode 3094: Time: 0.17159771919250488, Total Reward: 175.39066026208218, Q Loss: 4357.181503295898, Actor Loss: -2609.2933654785156  
Episode 3095: Time: 0.30117011070251465, Total Reward: 314.4889643355845, Q Loss: 6600.515022277832, Actor Loss: -4260.288238525391  
Episode 3096: Time: 0.4135279655456543, Total Reward: 434.66025479894193, Q Loss: 9612.679412841797, Actor Loss: -5843.612342834473  
Episode 3097: Time: 0.27515387535095215, Total Reward: 284.52175792640924, Q Loss: 6738.7204513549805, Actor Loss: -4030.609176635742  
Episode 3098: Time: 0.30927133560180664, Total Reward: 324.9631875229485, Q Loss: 7136.105674743652, Actor Loss: -4569.360877990723  
Episode 3099: Time: 0.31969714164733887, Total Reward: 333.8308118812887, Q Loss: 7406.135139465332, Actor Loss: -4631.910453796387  
Validation Mean: 429.65561025082826, Validation Std: 148.5610941467148  
saving model  
Episode 3100: Time: 0.32024717330932617, Total Reward: 333.9429116945448, Q Loss: 7681.0428466796875, Actor Loss: -4704.504974365234  
Episode 3101: Time: 0.3533310890197754, Total Reward: 370.5407460434125, Q Loss: 8827.345893859863, Actor Loss: -5224.961708068848  
Episode 3102: Time: 0.12058639526367188, Total Reward: 119.20175440783365, Q Loss: 2805.0527267456055, Actor Loss: -1747.6826858520508  
Episode 3103: Time: 0.25864315032958984, Total Reward: 268.19986578705374, Q Loss: 5579.621772766113, Actor Loss: -3878.3776245117188  
Episode 3104: Time: 0.31983351707458496, Total Reward: 333.1647305927943, Q Loss: 7347.648597717285, Actor Loss: -4676.246788024902



Episode 3105: Time: 0.3535628318786621, Total Reward: 371.09139777485854, Q Loss: 8072.611129760742, Actor Loss: -5323.571395874023  
Episode 3106: Time: 0.2327404022216797, Total Reward: 239.15825880064835, Q Loss: 5888.439727783203, Actor Loss: -3607.8180618286133  
Episode 3107: Time: 0.24991798400878906, Total Reward: 258.63589842008884, Q Loss: 4802.436141967773, Actor Loss: -3747.0090866088867  
Episode 3108: Time: 0.3359713554382324, Total Reward: 352.6004431531164, Q Loss: 7893.232696533203, Actor Loss: -5018.050491333008  
Episode 3109: Time: 0.18082380294799805, Total Reward: 183.49583383206058, Q Loss: 4316.344696044922, Actor Loss: -2727.321937561035  
Episode 3110: Time: 0.13826799392700195, Total Reward: 138.29721149756514, Q Loss: 3613.7535705566406, Actor Loss: -2117.254768371582  
Episode 3111: Time: 0.18103861808776855, Total Reward: 185.15611650716582, Q Loss: 4295.063766479492, Actor Loss: -2714.457809448242  
Episode 3112: Time: 0.14662408828735352, Total Reward: 147.04884127369203, Q Loss: 2906.868263244629, Actor Loss: -2186.084297180176  
Episode 3113: Time: 0.05208778381347656, Total Reward: 44.054359937202776, Q Loss: 1199.5588073730469, Actor Loss: -829.7164993286133  
Episode 3114: Time: 0.12945079803466797, Total Reward: 127.44307510751872, Q Loss: 2889.3977279663086, Actor Loss: -1946.528091430664  
Episode 3115: Time: 0.16529130935668945, Total Reward: 165.88124814860345, Q Loss: 3512.3023986816406, Actor Loss: -2509.049415588379  
Episode 3116: Time: 0.21617341041564941, Total Reward: 219.5447786377819, Q Loss: 5007.935615539551, Actor Loss: -3230.9709854125977  
Episode 3117: Time: 0.07848429679870605, Total Reward: 72.81086898425534, Q Loss: 1794.3309478759766, Actor Loss: -1127.771141052246  
Episode 3118: Time: 0.24993181228637695, Total Reward: 258.48896841965245, Q Loss: 5275.81999206543, Actor Loss: -3789.1724700927734  
Episode 3119: Time: 0.18069052696228027, Total Reward: 185.2545109575808, Q Loss: 4039.072166442871, Actor Loss: -2762.0922775268555  
Episode 3120: Time: 0.2759521007537842, Total Reward: 283.92176930324615, Q Loss: 5640.206024169922, Actor Loss: -4117.632369995117  
Episode 3121: Time: 0.18955111503601074, Total Reward: 192.29356191901775, Q Loss: 4620.672981262207, Actor Loss: -2874.0499114990234  
Episode 3122: Time: 0.32765841484069824, Total Reward: 342.4077602632518, Q Loss: 8439.779754638672, Actor Loss: -5082.576835632324  
Episode 3123: Time: 0.3283114433288574, Total Reward: 342.73138168517585, Q Loss: 7514.608963012695, Actor Loss: -5006.330497741699  
Episode 3124: Time: 0.09527134895324707, Total Reward: 91.6130663625061, Q Loss: 2358.2566452026367, Actor Loss: -1417.1962051391602  
Episode 3125: Time: 0.1903533935546875, Total Reward: 193.4300149715286, Q Loss: 4361.772552490234, Actor Loss: -2897.7408142089844  
Episode 3126: Time: 0.17261934280395508, Total Reward: 174.80904685950802, Q Loss: 3914.366241455078, Actor Loss: -2708.5892181396484  
Episode 3127: Time: 0.44461798667907715, Total Reward: 460.9152650842327, Q Loss: 10199.35147857666, Actor Loss: -6725.27131652832  
Episode 3128: Time: 0.32062697410583496, Total Reward: 333.73458590749743, Q Loss: 6954.623741149902, Actor Loss: -4883.3725662231445  
Episode 3129: Time: 0.1295325756072998, Total Reward: 128.72097308451202, Q Loss: 2729.9560012817383, Actor Loss: -2008.5028381347656  
Episode 3130: Time: 0.1729419231414795, Total Reward: 175.23481420684269, Q Loss: 3870.863945007324, Actor Loss: -2760.008544921875  
Episode 3131: Time: 0.3535041809082031, Total Reward: 369.5007548208356, Q Loss: 8592.70238494873, Actor Loss: -5473.182861328125  
Episode 3132: Time: 0.1473839282989502, Total Reward: 147.29120651978351, Q Loss: 4047.2155990600586, Actor Loss: -2294.9068756103516

Episode 3133: Time: 0.11325526237487793, Total Reward: 110.13326170328536, Q Loss: 2556.278366088867, Actor Loss: -1755.4349975585938  
Episode 3134: Time: 0.3743443489074707, Total Reward: 388.9136860267899, Q Loss: 8589.346824645996, Actor Loss: -5817.598876953125  
Episode 3135: Time: 0.2596912384033203, Total Reward: 267.668148960792, Q Loss: 5977.3266525268555, Actor Loss: -4075.915771484375  
Episode 3136: Time: 0.12073755264282227, Total Reward: 119.53428566799167, Q Loss: 3281.1910705566406, Actor Loss: -1872.1266326904297  
Episode 3137: Time: 0.21678566932678223, Total Reward: 219.5482506086833, Q Loss: 5675.406845092773, Actor Loss: -3276.553482055664  
Episode 3138: Time: 0.5011751651763916, Total Reward: 529.8766050209138, Q Loss: 10920.357536315918, Actor Loss: -7757.970458984375  
Episode 3139: Time: 0.44332170486450195, Total Reward: 464.87641500931335, Q Loss: 11000.320999145508, Actor Loss: -6851.292465209961  
Episode 3140: Time: 0.30478572845458984, Total Reward: 314.96598218220674, Q Loss: 7330.214881896973, Actor Loss: -4771.427574157715  
Episode 3141: Time: 0.14831304550170898, Total Reward: 146.25854156768696, Q Loss: 3330.5327072143555, Actor Loss: -2278.182014465332  
Episode 3142: Time: 0.28700971603393555, Total Reward: 296.5064025742437, Q Loss: 7124.905822753906, Actor Loss: -4447.114448547363  
Episode 3143: Time: 0.2250220775604248, Total Reward: 221.5144121461025, Q Loss: 5122.034469604492, Actor Loss: -3379.761032104492  
Episode 3144: Time: 0.21789765357971191, Total Reward: 221.55736225758926, Q Loss: 5232.752311706543, Actor Loss: -3407.9629287719727  
Episode 3145: Time: 0.5112318992614746, Total Reward: 537.1780574661572, Q Loss: 11890.108901977539, Actor Loss: -7910.881729125977  
Episode 3146: Time: 0.12110209465026855, Total Reward: 119.37639932148632, Q Loss: 2811.4400329589844, Actor Loss: -1930.2975463867188  
Episode 3147: Time: 0.34572339057922363, Total Reward: 361.5833177543121, Q Loss: 8722.857833862305, Actor Loss: -5310.214691162109  
Episode 3148: Time: 0.27640771865844727, Total Reward: 287.90291246291173, Q Loss: 6010.915855407715, Actor Loss: -4333.321434020996  
Episode 3149: Time: 0.41426515579223633, Total Reward: 436.3277057172288, Q Loss: 10586.487731933594, Actor Loss: -6698.397399902344  
Episode 3150: Time: 0.6461622714996338, Total Reward: 689.0510152109131, Q Loss: 15478.318405151367, Actor Loss: -10338.460586547852  
Episode 3151: Time: 0.2673153877258301, Total Reward: 277.41051019870815, Q Loss: 6183.847244262695, Actor Loss: -4305.919357299805  
Episode 3152: Time: 0.19891977310180664, Total Reward: 201.9562732457747, Q Loss: 4208.158515930176, Actor Loss: -3167.8989791870117  
Episode 3153: Time: 0.32912111282348633, Total Reward: 341.9388347844063, Q Loss: 8075.514404296875, Actor Loss: -5171.303527832031  
Episode 3154: Time: 0.2856028079986572, Total Reward: 296.8153320994995, Q Loss: 6931.294143676758, Actor Loss: -4557.583045959473  
Episode 3155: Time: 0.37143659591674805, Total Reward: 390.40349446825314, Q Loss: 9856.995376586914, Actor Loss: -6058.785705566406  
Episode 3156: Time: 0.19833922386169434, Total Reward: 203.61596793881168, Q Loss: 5315.893493652344, Actor Loss: -3216.0981063842773  
Episode 3157: Time: 0.1558835506439209, Total Reward: 156.64023863445576, Q Loss: 4050.3756561279297, Actor Loss: -2605.9083709716797  
Episode 3158: Time: 0.10362696647644043, Total Reward: 100.76886954758733, Q Loss: 2477.946144104004, Actor Loss: -1676.0764770507812  
Episode 3159: Time: 0.29312658309936523, Total Reward: 306.11869520013335, Q Loss: 6986.192825317383, Actor Loss: -4691.910179138184  
Episode 3160: Time: 0.14696431159973145, Total Reward: 146.9681068647972, Q Loss: 3841.3871307373047, Actor Loss: -2440.0586853027344

Episode 3161: Time: 0.33647632598876953, Total Reward: 351.41250762181994, Q Loss: 8176.809959411621, Actor Loss: -5438.4791259765625  
Episode 3162: Time: 0.2507753372192383, Total Reward: 259.331589258858, Q Loss: 5903.813331604004, Actor Loss: -4074.5846405029297  
Episode 3163: Time: 0.08632922172546387, Total Reward: 81.8267181893184, Q Loss: 1717.582878112793, Actor Loss: -1384.9786834716797  
Episode 3164: Time: 0.12976980209350586, Total Reward: 129.21573840858625, Q Loss: 3623.523635864258, Actor Loss: -2104.6284790039062  
Episode 3165: Time: 0.44857192039489746, Total Reward: 472.5521329133707, Q Loss: 10928.901977539062, Actor Loss: -7304.036430358887  
Episode 3166: Time: 0.09511923789978027, Total Reward: 91.66167097483718, Q Loss: 1992.49462890625, Actor Loss: -1510.1786193847656  
Episode 3167: Time: 0.5503828525543213, Total Reward: 585.6652000495878, Q Loss: 13240.249473571777, Actor Loss: -8976.649917602539  
Episode 3168: Time: 0.31052494049072266, Total Reward: 324.2469335654851, Q Loss: 8269.889183044434, Actor Loss: -5061.614768981934  
Episode 3169: Time: 0.1729288101196289, Total Reward: 175.53955670590926, Q Loss: 4523.879661560059, Actor Loss: -2733.3504180908203  
Episode 3170: Time: 0.10431504249572754, Total Reward: 101.075889185401, Q Loss: 2792.548049926758, Actor Loss: -1751.959457397461  
Episode 3171: Time: 0.2586510181427002, Total Reward: 268.49188155894535, Q Loss: 6917.166290283203, Actor Loss: -4242.635795593262  
Episode 3172: Time: 0.2066495418548584, Total Reward: 211.84934274131922, Q Loss: 4990.371475219727, Actor Loss: -3488.867172241211  
Episode 3173: Time: 0.19827604293823242, Total Reward: 203.71377030569428, Q Loss: 4845.7813720703125, Actor Loss: -3319.897331237793  
Episode 3174: Time: 0.2077784538269043, Total Reward: 211.5600284283546, Q Loss: 5504.981101989746, Actor Loss: -3541.962257385254  
Episode 3175: Time: 0.20786166191101074, Total Reward: 212.0264403588715, Q Loss: 5155.079383850098, Actor Loss: -3360.1377334594727  
Episode 3176: Time: 0.49153637886047363, Total Reward: 518.2901252240082, Q Loss: 12897.69165802002, Actor Loss: -8208.207244873047  
Episode 3177: Time: 0.35385870933532715, Total Reward: 368.6889852442522, Q Loss: 8667.84684753418, Actor Loss: -5789.664680480957  
Episode 3178: Time: 0.07780623435974121, Total Reward: 72.24962249938058, Q Loss: 1532.830810546875, Actor Loss: -1280.9232482910156  
Episode 3179: Time: 0.2502892017364502, Total Reward: 259.5267686465822, Q Loss: 5948.555953979492, Actor Loss: -4184.505226135254  
Episode 3180: Time: 0.44699883460998535, Total Reward: 471.92778500698273, Q Loss: 11066.243034362793, Actor Loss: -7531.521110534668  
Episode 3181: Time: 0.27515077590942383, Total Reward: 285.3540616736467, Q Loss: 8319.978652954102, Actor Loss: -4583.151832580566  
Episode 3182: Time: 0.1725606918334961, Total Reward: 175.35591452222593, Q Loss: 4540.041732788086, Actor Loss: -2890.4341735839844  
Episode 3183: Time: 0.17287302017211914, Total Reward: 174.59138806474144, Q Loss: 4618.041664123535, Actor Loss: -2812.432441711426  
Episode 3184: Time: 0.29355311393737793, Total Reward: 306.66264493017223, Q Loss: 7829.318008422852, Actor Loss: -4953.17244720459  
Episode 3185: Time: 0.24163246154785156, Total Reward: 249.69203287845744, Q Loss: 5583.059783935547, Actor Loss: -4086.0316467285156  
Episode 3186: Time: 0.1814415454864502, Total Reward: 184.77654882839096, Q Loss: 4618.87744140625, Actor Loss: -3041.351905822754  
Episode 3187: Time: 0.2583317756652832, Total Reward: 267.8529428187427, Q Loss: 7250.775177001953, Actor Loss: -4310.980049133301  
Episode 3188: Time: 0.14111804962158203, Total Reward: 119.2589421602117, Q Loss: 2695.9342041015625, Actor Loss: -1998.2988586425781

Episode 3189: Time: 0.3361077308654785, Total Reward: 352.72015224686817, Q Loss: 9559.561874389648, Actor Loss: -5696.145774841309  
Episode 3190: Time: 0.3969132900238037, Total Reward: 416.1498970365311, Q Loss: 10469.545295715332, Actor Loss: -6620.421615600586  
Episode 3191: Time: 0.24159455299377441, Total Reward: 249.82242707253909, Q Loss: 6308.686180114746, Actor Loss: -4116.518493652344  
Episode 3192: Time: 0.25922322273254395, Total Reward: 266.59066209059057, Q Loss: 6816.820938110352, Actor Loss: -4321.555763244629  
Episode 3193: Time: 0.12070727348327637, Total Reward: 119.31365575194981, Q Loss: 3242.1544647216797, Actor Loss: -2016.5362548828125  
Episode 3194: Time: 0.13028478622436523, Total Reward: 128.85638542477284, Q Loss: 2967.5685501098633, Actor Loss: -2187.986038208008  
Episode 3195: Time: 0.2859957218170166, Total Reward: 296.3080654174215, Q Loss: 8431.109771728516, Actor Loss: -4887.984939575195  
Episode 3196: Time: 0.2842085361480713, Total Reward: 295.30985406029083, Q Loss: 8001.045257568359, Actor Loss: -4936.989898681641  
Episode 3197: Time: 0.2583503723144531, Total Reward: 265.8158093692146, Q Loss: 6246.22917175293, Actor Loss: -4414.372589111328  
Episode 3198: Time: 0.3272120952606201, Total Reward: 340.99057557816354, Q Loss: 9422.40234375, Actor Loss: -5589.438636779785  
Episode 3199: Time: 0.3021552562713623, Total Reward: 314.3701541052112, Q Loss: 8100.758010864258, Actor Loss: -5142.026679992676  
Validation Mean: 470.7117573329534, Validation Std: 183.55274651805945  
saving model  
Episode 3200: Time: 0.30406808853149414, Total Reward: 314.56260320806837, Q Loss: 7674.868713378906, Actor Loss: -5094.702545166016  
Episode 3201: Time: 0.2935793399810791, Total Reward: 305.906461003073, Q Loss: 8939.194984436035, Actor Loss: -5143.168922424316  
Episode 3202: Time: 0.12091326713562012, Total Reward: 119.33076229124745, Q Loss: 3397.8766860961914, Actor Loss: -2002.7283020019531  
Episode 3203: Time: 0.2069103717803955, Total Reward: 212.29339245994944, Q Loss: 5413.318023681641, Actor Loss: -3545.0225830078125  
Episode 3204: Time: 0.08632421493530273, Total Reward: 82.52096504634594, Q Loss: 1948.5790557861328, Actor Loss: -1438.33935546875  
Episode 3205: Time: 0.32711338996887207, Total Reward: 342.1432016960662, Q Loss: 8255.09546661377, Actor Loss: -5762.886245727539  
Episode 3206: Time: 0.1464402675628662, Total Reward: 147.92323908105462, Q Loss: 3459.989646911621, Actor Loss: -2506.0578842163086  
Episode 3207: Time: 0.23296236991882324, Total Reward: 240.13251827159135, Q Loss: 5525.701240539551, Actor Loss: -4120.79963684082  
Episode 3208: Time: 0.3276102542877197, Total Reward: 342.69916550237156, Q Loss: 9250.225814819336, Actor Loss: -5591.414520263672  
Episode 3209: Time: 0.16381359100341797, Total Reward: 165.62662371363544, Q Loss: 4794.617034912109, Actor Loss: -2840.192367553711  
Episode 3210: Time: 0.20673465728759766, Total Reward: 213.15808091346, Q Loss: 5287.729301452637, Actor Loss: -3609.6780853271484  
Episode 3211: Time: 0.10393452644348145, Total Reward: 100.56152825667616, Q Loss: 2989.6141967773438, Actor Loss: -1811.7530670166016  
Episode 3212: Time: 0.30224013328552246, Total Reward: 314.09621577165944, Q Loss: 8964.747871398926, Actor Loss: -5213.935264587402  
Episode 3213: Time: 0.20683789253234863, Total Reward: 212.81761794318422, Q Loss: 5208.321762084961, Actor Loss: -3511.34366607666  
Episode 3214: Time: 0.3100264072418213, Total Reward: 323.6786756165141, Q Loss: 8896.97775757373, Actor Loss: -5514.509635925293  
Episode 3215: Time: 0.17234420776367188, Total Reward: 175.41484570083773, Q Loss: 4369.621063232422, Actor Loss: -3043.9256896972656

Episode 3216: Time: 0.25867772102355957, Total Reward: 266.9198073479411, Q Loss: 6694.850791931152, Actor Loss: -4588.772605895996  
Episode 3217: Time: 0.2414844036102295, Total Reward: 250.81313737939277, Q Loss: 6455.954315185547, Actor Loss: -4306.673049926758  
Episode 3218: Time: 0.17213106155395508, Total Reward: 174.98542080456005, Q Loss: 4454.503570556641, Actor Loss: -3049.3848266601562  
Episode 3219: Time: 0.11284708976745605, Total Reward: 109.84519104929578, Q Loss: 3620.279495239258, Actor Loss: -1966.4902954101562  
Episode 3220: Time: 0.103759765625, Total Reward: 100.86160790434856, Q Loss: 2869.4188079833984, Actor Loss: -1777.9443664550781  
Episode 3221: Time: 0.35314321517944336, Total Reward: 369.72818258702273, Q Loss: 10517.117683410645, Actor Loss: -6242.116981506348  
Episode 3222: Time: 0.32697319984436035, Total Reward: 341.3904241423739, Q Loss: 8930.41822052002, Actor Loss: -5755.6199951171875  
Episode 3223: Time: 0.2413632869720459, Total Reward: 249.8288595761722, Q Loss: 6709.193710327148, Actor Loss: -4358.961318969727  
Episode 3224: Time: 0.17264556884765625, Total Reward: 174.66883028080895, Q Loss: 4959.708251953125, Actor Loss: -3057.6590881347656  
Episode 3225: Time: 0.11257433891296387, Total Reward: 110.11949986332316, Q Loss: 3157.2158584594727, Actor Loss: -1989.6396942138672  
Episode 3226: Time: 0.10353279113769531, Total Reward: 100.2062188252063, Q Loss: 3045.5941772460938, Actor Loss: -1911.241195678711  
Episode 3227: Time: 0.11242008209228516, Total Reward: 110.17646173184377, Q Loss: 2940.9752044677734, Actor Loss: -1954.7748336791992  
Episode 3228: Time: 0.30204010009765625, Total Reward: 315.2902087089644, Q Loss: 8415.893524169922, Actor Loss: -5504.005477905273  
Episode 3229: Time: 0.28456902503967285, Total Reward: 296.57678270801375, Q Loss: 7935.491287231445, Actor Loss: -5033.910614013672  
Episode 3230: Time: 0.10346865653991699, Total Reward: 101.04232616550055, Q Loss: 2943.338249206543, Actor Loss: -1764.7872161865234  
Episode 3231: Time: 0.21584534645080566, Total Reward: 222.39611091558882, Q Loss: 5744.726898193359, Actor Loss: -3801.593734741211  
Episode 3232: Time: 0.12089896202087402, Total Reward: 119.20297180872626, Q Loss: 2592.0771255493164, Actor Loss: -2103.5962524414062  
Episode 3233: Time: 0.12128376960754395, Total Reward: 118.82356469188144, Q Loss: 2931.5266876220703, Actor Loss: -2118.5472717285156  
Episode 3234: Time: 0.3283882141113281, Total Reward: 343.44665209085935, Q Loss: 9110.930114746094, Actor Loss: -6000.478424072266  
Episode 3235: Time: 0.25893425941467285, Total Reward: 267.03406369411516, Q Loss: 7415.752822875977, Actor Loss: -4709.468765258789  
Episode 3236: Time: 0.3275914192199707, Total Reward: 342.88808029524046, Q Loss: 8842.080322265625, Actor Loss: -5797.627304077148  
Episode 3237: Time: 0.233245849609375, Total Reward: 239.99370885867765, Q Loss: 6164.829559326172, Actor Loss: -4163.233871459961  
Episode 3238: Time: 0.07781171798706055, Total Reward: 72.77004892785078, Q Loss: 2019.8953857421875, Actor Loss: -1330.3278579711914  
Episode 3239: Time: 0.46527767181396484, Total Reward: 491.4301598608144, Q Loss: 12687.13208770752, Actor Loss: -8373.581077575684  
Episode 3240: Time: 0.11252188682556152, Total Reward: 110.43470475010534, Q Loss: 2876.69766998291, Actor Loss: -2024.9716186523438  
Episode 3241: Time: 0.31171417236328125, Total Reward: 323.73713650909906, Q Loss: 8808.620712280273, Actor Loss: -5653.528694152832  
Episode 3242: Time: 0.2429649829864502, Total Reward: 249.84163333744974, Q Loss: 6515.165733337402, Actor Loss: -4366.89030456543  
Episode 3243: Time: 0.16386866569519043, Total Reward: 166.60478070017083, Q Loss: 4470.062599182129, Actor Loss: -2868.9667205810547

Episode 3244: Time: 0.1929948329925537, Total Reward: 194.35676172416217, Q Loss: 5242.494979858398, Actor Loss: -3540.6963500976562  
Episode 3245: Time: 0.1901869773864746, Total Reward: 192.85959785571995, Q Loss: 5725.4818115234375, Actor Loss: -3424.7967681884766  
Episode 3246: Time: 0.21602153778076172, Total Reward: 221.4216609912079, Q Loss: 6944.7025146484375, Actor Loss: -3951.472900390625  
Episode 3247: Time: 0.29412269592285156, Total Reward: 302.8392099093531, Q Loss: 9298.592468261719, Actor Loss: -5284.974685668945  
Episode 3248: Time: 0.3026914596557617, Total Reward: 314.4998339587377, Q Loss: 8356.783683776855, Actor Loss: -5570.990951538086  
Episode 3249: Time: 0.12952876091003418, Total Reward: 128.73326500546767, Q Loss: 3130.657730102539, Actor Loss: -2301.4227600097656  
Episode 3250: Time: 0.32485198974609375, Total Reward: 333.8701992435039, Q Loss: 8873.942459106445, Actor Loss: -5822.569152832031  
Episode 3251: Time: 0.09555983543395996, Total Reward: 91.75947466282094, Q Loss: 2582.118423461914, Actor Loss: -1762.2193603515625  
Episode 3252: Time: 0.26773619651794434, Total Reward: 277.7725969063816, Q Loss: 7236.654823303223, Actor Loss: -4940.10823059082  
Episode 3253: Time: 0.17239618301391602, Total Reward: 175.53391926165432, Q Loss: 5281.780059814453, Actor Loss: -3152.070526123047  
Episode 3254: Time: 0.26729536056518555, Total Reward: 277.05448913247085, Q Loss: 8656.676727294922, Actor Loss: -4973.6488037109375  
Episode 3255: Time: 0.1298229694366455, Total Reward: 128.63529589798503, Q Loss: 3493.261260986328, Actor Loss: -2399.7100524902344  
Episode 3256: Time: 0.22520661354064941, Total Reward: 229.2865650254538, Q Loss: 6393.8145751953125, Actor Loss: -4264.491455078125  
Episode 3257: Time: 0.19800996780395508, Total Reward: 203.54839935527664, Q Loss: 5202.33757019043, Actor Loss: -3715.8597412109375  
Episode 3258: Time: 0.29359960556030273, Total Reward: 306.13902012583515, Q Loss: 8001.117790222168, Actor Loss: -5490.07746887207  
Episode 3259: Time: 0.1723620891571045, Total Reward: 176.0506182712088, Q Loss: 4722.519477844238, Actor Loss: -3249.7326049804688  
Episode 3260: Time: 0.5942480564117432, Total Reward: 631.1139768763234, Q Loss: 16976.681434631348, Actor Loss: -11026.363327026367  
Episode 3261: Time: 0.09516382217407227, Total Reward: 91.18902068135297, Q Loss: 3042.6089935302734, Actor Loss: -1782.5253601074219  
Episode 3262: Time: 0.1900629997253418, Total Reward: 193.7024027872074, Q Loss: 5801.488708496094, Actor Loss: -3551.848419189453  
Episode 3263: Time: 0.25919628143310547, Total Reward: 266.32701575768124, Q Loss: 8227.618324279785, Actor Loss: -4822.041244506836  
Episode 3264: Time: 0.13805580139160156, Total Reward: 137.84230499682533, Q Loss: 4111.772018432617, Actor Loss: -2728.1489868164062  
Episode 3265: Time: 0.19041776657104492, Total Reward: 191.6220405288648, Q Loss: 5613.6348876953125, Actor Loss: -3632.7075958251953  
Episode 3266: Time: 0.4739818572998047, Total Reward: 501.8868853555675, Q Loss: 12843.062110900879, Actor Loss: -8853.29997253418  
Episode 3267: Time: 0.12041568756103516, Total Reward: 119.41291367236609, Q Loss: 3457.8107528686523, Actor Loss: -2337.016616821289  
Episode 3268: Time: 0.20695972442626953, Total Reward: 212.96582356125694, Q Loss: 6250.377670288086, Actor Loss: -3810.2245330810547  
Episode 3269: Time: 0.07777571678161621, Total Reward: 72.69785524111943, Q Loss: 1959.6161499023438, Actor Loss: -1373.4403228759766  
Episode 3270: Time: 0.6016480922698975, Total Reward: 639.8185639624303, Q Loss: 17567.967010498047, Actor Loss: -11357.984344482422  
Episode 3271: Time: 0.24991416931152344, Total Reward: 258.6109507297783, Q Loss: 8100.083724975586, Actor Loss: -4712.9637451171875

Episode 3272: Time: 0.08660292625427246, Total Reward: 82.29056562898728, Q Loss: 2666.4539489746094, Actor Loss: -1630.0371856689453  
Episode 3273: Time: 0.2066173553466797, Total Reward: 212.0822824679372, Q Loss: 5991.4111328125, Actor Loss: -3933.0796813964844  
Episode 3274: Time: 0.29245662689208984, Total Reward: 305.7197179774506, Q Loss: 10506.863403320312, Actor Loss: -5522.24739074707  
Episode 3275: Time: 0.13788819313049316, Total Reward: 137.69676769453528, Q Loss: 4126.056259155273, Actor Loss: -2621.769821166992  
Episode 3276: Time: 0.2416374683380127, Total Reward: 247.30760462839447, Q Loss: 7436.010307312012, Actor Loss: -4578.94465637207  
Episode 3277: Time: 0.23375844955444336, Total Reward: 240.8736007499075, Q Loss: 6881.254745483398, Actor Loss: -4384.380294799805  
Episode 3278: Time: 0.22448325157165527, Total Reward: 230.86401964092533, Q Loss: 6648.923156738281, Actor Loss: -4262.860794067383  
Episode 3279: Time: 0.1811234951019287, Total Reward: 183.31330924426052, Q Loss: 4949.766387939453, Actor Loss: -3459.782455444336  
Episode 3280: Time: 0.13827872276306152, Total Reward: 137.72858483122565, Q Loss: 4225.764373779297, Actor Loss: -2557.1998901367188  
Episode 3281: Time: 0.22403287887573242, Total Reward: 231.62341918680337, Q Loss: 6481.8143310546875, Actor Loss: -4272.943588256836  
Episode 3282: Time: 0.22445106506347656, Total Reward: 230.57218846912846, Q Loss: 6674.607391357422, Actor Loss: -4409.026550292969  
Episode 3283: Time: 0.38776540756225586, Total Reward: 409.04377019115384, Q Loss: 11890.116355895996, Actor Loss: -7344.541366577148  
Episode 3284: Time: 0.21599912643432617, Total Reward: 220.98194439278643, Q Loss: 6434.546325683594, Actor Loss: -4107.531097412109  
Episode 3285: Time: 0.18192005157470703, Total Reward: 184.1826334655368, Q Loss: 5323.059356689453, Actor Loss: -3547.192672729492  
Episode 3286: Time: 0.20787358283996582, Total Reward: 212.39380633288647, Q Loss: 5970.519813537598, Actor Loss: -3904.4290618896484  
Episode 3287: Time: 0.3454430103302002, Total Reward: 359.78010648882395, Q Loss: 10213.646545410156, Actor Loss: -6750.0013427734375  
Episode 3288: Time: 0.2850606441497803, Total Reward: 296.4633829441208, Q Loss: 7838.381408691406, Actor Loss: -5464.981979370117  
Episode 3289: Time: 0.19855475425720215, Total Reward: 203.20135438501447, Q Loss: 6474.184188842773, Actor Loss: -3799.544937133789  
Episode 3290: Time: 0.07843255996704102, Total Reward: 72.70605353875334, Q Loss: 1966.3477020263672, Actor Loss: -1429.5714492797852  
Episode 3291: Time: 0.2505037784576416, Total Reward: 257.42602984465657, Q Loss: 8135.431617736816, Actor Loss: -4818.633987426758  
Episode 3292: Time: 0.2504739761352539, Total Reward: 258.82457406647524, Q Loss: 6438.971343994141, Actor Loss: -4899.252578735352  
Episode 3293: Time: 0.25032472610473633, Total Reward: 256.98707714048504, Q Loss: 6883.81071472168, Actor Loss: -4708.951904296875  
Episode 3294: Time: 0.464846134185791, Total Reward: 492.1216392829166, Q Loss: 13963.314880371094, Actor Loss: -8974.960037231445  
Episode 3295: Time: 0.30181050300598145, Total Reward: 315.0250226657303, Q Loss: 8153.165664672852, Actor Loss: -5937.755874633789  
Episode 3296: Time: 0.06926202774047852, Total Reward: 63.23517710844396, Q Loss: 1781.583724975586, Actor Loss: -1354.3214416503906  
Episode 3297: Time: 0.1819310188293457, Total Reward: 183.96334423026084, Q Loss: 4679.4400634765625, Actor Loss: -3462.9031829833984  
Episode 3298: Time: 0.3454744815826416, Total Reward: 361.1775551086964, Q Loss: 11539.939544677734, Actor Loss: -6608.354476928711  
Episode 3299: Time: 0.27645254135131836, Total Reward: 286.8829874448381, Q Loss: 7494.1076736450195, Actor Loss: -5405.244491577148

Validation Mean: 539.9930986331442, Validation Std: 227.62351941674083

saving model

Episode 3300: Time: 0.37519049644470215, Total Reward: 369.00920585851475, Q Loss: 10825.83822631836, Actor Loss: -6969.943634033203  
Episode 3301: Time: 0.19974517822265625, Total Reward: 201.11304042275475, Q Loss: 6044.660415649414, Actor Loss: -3862.7020568847656  
Episode 3302: Time: 0.15614771842956543, Total Reward: 157.14272862057544, Q Loss: 4934.723045349121, Actor Loss: -3058.622589111328  
Episode 3303: Time: 0.25107502937316895, Total Reward: 258.6944043761663, Q Loss: 7438.748023986816, Actor Loss: -4902.237579345703  
Episode 3304: Time: 0.2676980495452881, Total Reward: 277.4998694755436, Q Loss: 7882.279708862305, Actor Loss: -5177.519912719727  
Episode 3305: Time: 0.2506542205810547, Total Reward: 259.13431356661505, Q Loss: 8291.111083984375, Actor Loss: -4980.1201171875  
Episode 3306: Time: 0.16330313682556152, Total Reward: 166.30781249283325, Q Loss: 5441.986015319824, Actor Loss: -3154.898483276367  
Episode 3307: Time: 0.35284948348999023, Total Reward: 369.1810008444106, Q Loss: 11737.280670166016, Actor Loss: -7028.438323974609  
Episode 3308: Time: 0.190171480178833, Total Reward: 191.43324711852705, Q Loss: 6079.250244140625, Actor Loss: -3800.845230102539  
Episode 3309: Time: 0.21578741073608398, Total Reward: 219.83925557739138, Q Loss: 6645.321517944336, Actor Loss: -4294.522155761719  
Episode 3310: Time: 0.36502575874328613, Total Reward: 378.02148103467084, Q Loss: 12127.452354431152, Actor Loss: -7133.856842041016  
Episode 3311: Time: 0.35495948791503906, Total Reward: 371.5125153508031, Q Loss: 10966.795600891113, Actor Loss: -6860.6744384765625  
Episode 3312: Time: 0.32829737663269043, Total Reward: 342.7204067977919, Q Loss: 9844.122009277344, Actor Loss: -6404.95182800293  
Episode 3313: Time: 0.17330312728881836, Total Reward: 172.49065414383617, Q Loss: 5736.133857727051, Actor Loss: -3432.931671142578  
Episode 3314: Time: 0.41405510902404785, Total Reward: 435.0978447354606, Q Loss: 13737.460372924805, Actor Loss: -8244.673858642578  
Episode 3315: Time: 0.20691537857055664, Total Reward: 212.29832864793192, Q Loss: 6311.1965408325195, Actor Loss: -4131.537048339844  
Episode 3316: Time: 0.22440052032470703, Total Reward: 230.3031390825036, Q Loss: 6392.112380981445, Actor Loss: -4445.893524169922  
Episode 3317: Time: 0.3288149833679199, Total Reward: 342.05893089324246, Q Loss: 10478.200073242188, Actor Loss: -6682.79216003418  
Episode 3318: Time: 0.22534966468811035, Total Reward: 230.74240270376887, Q Loss: 6423.105484008789, Actor Loss: -4603.312057495117  
Episode 3319: Time: 0.14661121368408203, Total Reward: 147.5948109651973, Q Loss: 4501.418075561523, Actor Loss: -3013.7619018554688  
Episode 3320: Time: 0.27627038955688477, Total Reward: 286.73228250368356, Q Loss: 8767.802505493164, Actor Loss: -5491.135009765625  
Episode 3321: Time: 0.12952256202697754, Total Reward: 128.07217101328524, Q Loss: 4151.854339599609, Actor Loss: -2627.4676055908203  
Episode 3322: Time: 0.3708486557006836, Total Reward: 388.8612976761917, Q Loss: 11175.040748596191, Actor Loss: -7353.487213134766  
Episode 3323: Time: 0.24157285690307617, Total Reward: 247.93819085309806, Q Loss: 8632.939682006836, Actor Loss: -4840.228591918945  
Episode 3324: Time: 0.2501192092895508, Total Reward: 258.259297485036, Q Loss: 8445.31615447998, Actor Loss: -5160.757629394531  
Episode 3325: Time: 0.21572494506835938, Total Reward: 221.62434944107068, Q Loss: 7752.574356079102, Actor Loss: -4411.426330566406  
Episode 3326: Time: 0.2854177951812744, Total Reward: 295.07460780859367, Q Loss: 10282.230056762695, Actor Loss: -5618.857498168945



Episode 3327: Time: 0.19835782051086426, Total Reward: 203.19986371692926, Q Loss: 6286.117126464844, Actor Loss: -4078.5530395507812

Episode 3328: Time: 0.2503213882446289, Total Reward: 258.866193721704, Q Loss: 8051.855239868164, Actor Loss: -4988.676544189453

Episode 3329: Time: 0.2594642639160156, Total Reward: 268.00421965573906, Q Loss: 9069.763168334961, Actor Loss: -5231.727935791016

Episode 3330: Time: 0.23248863220214844, Total Reward: 240.47648928320785, Q Loss: 7510.022308349609, Actor Loss: -4679.455780029297

Episode 3331: Time: 0.3524439334869385, Total Reward: 370.6799250447426, Q Loss: 12000.026779174805, Actor Loss: -7142.838333129883

Episode 3332: Time: 0.24976086616516113, Total Reward: 258.6693161890155, Q Loss: 8121.77294921875, Actor Loss: -5249.175140380859

Episode 3333: Time: 0.2757241725921631, Total Reward: 283.83876574668716, Q Loss: 9166.167388916016, Actor Loss: -5713.221466064453

Episode 3334: Time: 0.3534977436065674, Total Reward: 370.22722207480535, Q Loss: 11665.060516357422, Actor Loss: -7117.730773925781

Episode 3335: Time: 0.3962399959564209, Total Reward: 416.8665873805635, Q Loss: 13953.745101928711, Actor Loss: -8109.010437011719

Episode 3336: Time: 0.2501695156097412, Total Reward: 257.47427502685485, Q Loss: 8590.636367797852, Actor Loss: -5045.818511962891

Episode 3337: Time: 0.1979973316192627, Total Reward: 202.94804227542065, Q Loss: 6674.573684692383, Actor Loss: -4123.047744750977

Episode 3338: Time: 0.18094396591186523, Total Reward: 184.23159832294155, Q Loss: 6297.645866394043, Actor Loss: -3779.115737915039

Episode 3339: Time: 0.2756977081298828, Total Reward: 285.90130816337694, Q Loss: 9521.165298461914, Actor Loss: -5769.883148193359

Episode 3340: Time: 0.3095686435699463, Total Reward: 324.4449586236639, Q Loss: 10049.684005737305, Actor Loss: -6519.965591430664

Episode 3341: Time: 0.21610283851623535, Total Reward: 221.36615808024155, Q Loss: 7286.413330078125, Actor Loss: -4535.2332763671875

Episode 3342: Time: 0.25092315673828125, Total Reward: 258.9298328943838, Q Loss: 8174.640853881836, Actor Loss: -5117.030197143555

Episode 3343: Time: 0.11261725425720215, Total Reward: 110.27476023529447, Q Loss: 3690.0479583740234, Actor Loss: -2278.188278198242

Episode 3344: Time: 0.23323655128479004, Total Reward: 239.6796145264135, Q Loss: 8068.477676391602, Actor Loss: -4864.966522216797

Episode 3345: Time: 0.1894521713256836, Total Reward: 192.95690820975545, Q Loss: 5843.963668823242, Actor Loss: -3911.982147216797

Episode 3346: Time: 0.27579689025878906, Total Reward: 285.65056848671037, Q Loss: 9661.257064819336, Actor Loss: -5811.407302856445

Episode 3347: Time: 0.1379547119140625, Total Reward: 137.75727750023944, Q Loss: 3838.369827270508, Actor Loss: -2817.520034790039

Episode 3348: Time: 0.3108334541320801, Total Reward: 323.3513347185955, Q Loss: 8798.145751953125, Actor Loss: -6537.511627197266

Episode 3349: Time: 0.3438596725463867, Total Reward: 362.44498761990855, Q Loss: 11376.24545288086, Actor Loss: -7154.673538208008

Episode 3350: Time: 0.28437209129333496, Total Reward: 295.8176752672143, Q Loss: 9758.982452392578, Actor Loss: -5892.742263793945

Episode 3351: Time: 0.22425508499145508, Total Reward: 229.94322312491465, Q Loss: 7678.547866821289, Actor Loss: -4790.755584716797

Episode 3352: Time: 0.20667219161987305, Total Reward: 212.02616818862688, Q Loss: 6667.668647766113, Actor Loss: -4274.050338745117

Episode 3353: Time: 0.17222309112548828, Total Reward: 174.12127511356388, Q Loss: 4860.6187744140625, Actor Loss: -3615.0284881591797

Episode 3354: Time: 0.16394710540771484, Total Reward: 165.27204337446688, Q Loss: 6597.256698608398, Actor Loss: -3445.6543884277344

Episode 3355: Time: 0.2073652744293213, Total Reward: 212.46006483916386, Q Loss: 7132.366050720215, Actor Loss: -4206.931625366211  
Episode 3356: Time: 0.4907970428466797, Total Reward: 520.3481615333845, Q Loss: 18533.179946899414, Actor Loss: -10239.023376464844  
Episode 3357: Time: 0.3459055423736572, Total Reward: 360.3525738883906, Q Loss: 12341.98715209961, Actor Loss: -7374.427917480469  
Episode 3358: Time: 0.2187328338623047, Total Reward: 222.0764684595718, Q Loss: 7179.13826751709, Actor Loss: -4511.12971496582  
Episode 3359: Time: 0.24331903457641602, Total Reward: 248.940165227752, Q Loss: 7565.463233947754, Actor Loss: -5074.83056640625  
Episode 3360: Time: 0.2510695457458496, Total Reward: 258.6314196275664, Q Loss: 9664.29721069336, Actor Loss: -5341.539138793945  
Episode 3361: Time: 0.27666807174682617, Total Reward: 287.4468653097763, Q Loss: 10152.528427124023, Actor Loss: -5867.743423461914  
Episode 3362: Time: 0.12981319427490234, Total Reward: 128.37467569066996, Q Loss: 4826.002899169922, Actor Loss: -2849.5518951416016  
Episode 3363: Time: 0.38858985900878906, Total Reward: 407.91671433296966, Q Loss: 12933.532272338867, Actor Loss: -8214.897552490234  
Episode 3364: Time: 0.1560530662536621, Total Reward: 156.60988740740882, Q Loss: 5214.782043457031, Actor Loss: -3211.091064453125  
Episode 3365: Time: 0.17682766914367676, Total Reward: 175.35962090733585, Q Loss: 6372.568328857422, Actor Loss: -3690.0338287353516  
Episode 3366: Time: 0.08653545379638672, Total Reward: 82.19715987468032, Q Loss: 3026.055374145508, Actor Loss: -1814.9037628173828  
Episode 3367: Time: 0.2339320182800293, Total Reward: 239.9342211589839, Q Loss: 8353.808700561523, Actor Loss: -5090.840637207031  
Episode 3368: Time: 0.2345428466796875, Total Reward: 240.90294715474647, Q Loss: 7976.126663208008, Actor Loss: -4898.958648681641  
Episode 3369: Time: 0.07802271842956543, Total Reward: 72.31868073648191, Q Loss: 2782.3392181396484, Actor Loss: -1617.3955078125  
Episode 3370: Time: 0.2507357597351074, Total Reward: 258.0218131840263, Q Loss: 9163.120193481445, Actor Loss: -5398.909774780273  
Episode 3371: Time: 0.22498226165771484, Total Reward: 230.25027814869688, Q Loss: 7762.16943359375, Actor Loss: -4813.629547119141  
Episode 3372: Time: 0.18123221397399902, Total Reward: 184.14849998786642, Q Loss: 6138.146942138672, Actor Loss: -3917.9381713867188  
Episode 3373: Time: 0.12147641181945801, Total Reward: 119.59872030338822, Q Loss: 4715.069778442383, Actor Loss: -2608.9471588134766  
Episode 3374: Time: 0.1637256145477295, Total Reward: 165.70916558747143, Q Loss: 5730.1981201171875, Actor Loss: -3555.5843658447266  
Episode 3375: Time: 0.26883816719055176, Total Reward: 276.8596257540161, Q Loss: 8744.092041015625, Actor Loss: -5658.65153503418  
Episode 3376: Time: 0.23322510719299316, Total Reward: 240.6889059741694, Q Loss: 9299.48501586914, Actor Loss: -5094.502944946289  
Episode 3377: Time: 0.3293137550354004, Total Reward: 342.5567931203483, Q Loss: 12071.656188964844, Actor Loss: -7191.919219970703  
Episode 3378: Time: 0.27719640731811523, Total Reward: 286.61993689242735, Q Loss: 9711.032775878906, Actor Loss: -5818.545364379883  
Episode 3379: Time: 0.2251138687133789, Total Reward: 231.48690300147481, Q Loss: 8291.866516113281, Actor Loss: -4812.7518310546875  
Episode 3380: Time: 0.21656179428100586, Total Reward: 221.2087548626635, Q Loss: 8151.757247924805, Actor Loss: -4643.225967407227  
Episode 3381: Time: 0.2083749771118164, Total Reward: 212.7264124716307, Q Loss: 7790.215560913086, Actor Loss: -4640.667495727539  
Episode 3382: Time: 0.25169920921325684, Total Reward: 257.8545582651289, Q Loss: 10218.608428955078, Actor Loss: -5390.179443359375

Episode 3383: Time: 0.15571093559265137, Total Reward: 157.28458477412184, Q Loss: 5052.481704711914, Actor Loss: -3362.950454711914  
Episode 3384: Time: 0.406463623046875, Total Reward: 426.94084233353686, Q Loss: 15129.78793334961, Actor Loss: -8793.190185546875  
Episode 3385: Time: 0.2251911163330078, Total Reward: 231.39104710781547, Q Loss: 8307.569625854492, Actor Loss: -4896.809906005859  
Episode 3386: Time: 0.2862989902496338, Total Reward: 295.14708383051436, Q Loss: 9651.022155761719, Actor Loss: -6097.190078735352  
Episode 3387: Time: 0.2509138584136963, Total Reward: 256.83888162928986, Q Loss: 9318.849624633789, Actor Loss: -5529.801254272461  
Episode 3388: Time: 0.30316781997680664, Total Reward: 315.27362678398424, Q Loss: 11208.375045776367, Actor Loss: -6704.511337280273  
Episode 3389: Time: 0.42325687408447266, Total Reward: 444.30377703597713, Q Loss: 15147.040283203125, Actor Loss: -9228.862030029297  
Episode 3390: Time: 0.12190771102905273, Total Reward: 119.160256866698, Q Loss: 5679.651412963867, Actor Loss: -2573.607711791992  
Episode 3391: Time: 0.23401951789855957, Total Reward: 239.73306267308192, Q Loss: 9871.751525878906, Actor Loss: -5238.774185180664  
Episode 3392: Time: 0.1736893653869629, Total Reward: 173.98233328719658, Q Loss: 6768.593643188477, Actor Loss: -3844.497543334961  
Episode 3393: Time: 0.19121909141540527, Total Reward: 193.32833245021988, Q Loss: 6343.897705078125, Actor Loss: -4286.218795776367  
Episode 3394: Time: 0.2783517837524414, Total Reward: 284.4903600718635, Q Loss: 10288.754333496094, Actor Loss: -6037.375198364258  
Episode 3395: Time: 0.18262982368469238, Total Reward: 184.57653737275297, Q Loss: 7387.219833374023, Actor Loss: -4097.1865234375  
Episode 3396: Time: 0.2603423595428467, Total Reward: 269.12265358931086, Q Loss: 8327.218856811523, Actor Loss: -5650.863967895508  
Episode 3397: Time: 0.11327934265136719, Total Reward: 110.27172314069905, Q Loss: 3813.0252990722656, Actor Loss: -2553.460678100586  
Episode 3398: Time: 0.2684786319732666, Total Reward: 277.5221082614103, Q Loss: 9963.629623413086, Actor Loss: -5958.412506103516  
Episode 3399: Time: 0.22594928741455078, Total Reward: 229.32935748366504, Q Loss: 8119.160758972168, Actor Loss: -4862.321395874023  
Validation Mean: 628.6413506801913, Validation Std: 244.30382374246565  
saving model  
Episode 3400: Time: 0.12286376953125, Total Reward: 119.50892155342086, Q Loss: 4636.815139770508, Actor Loss: -2699.246078491211  
Episode 3401: Time: 0.20807838439941406, Total Reward: 212.2627652100882, Q Loss: 9153.746170043945, Actor Loss: -4641.289138793945  
Episode 3402: Time: 0.12149763107299805, Total Reward: 119.63923223029776, Q Loss: 4476.8743896484375, Actor Loss: -2758.288589477539  
Episode 3403: Time: 0.3681368827819824, Total Reward: 378.5945058021507, Q Loss: 12975.675735473633, Actor Loss: -7952.917098999023  
Episode 3404: Time: 0.303511381149292, Total Reward: 314.4327680018274, Q Loss: 12562.106369018555, Actor Loss: -6574.891143798828  
Episode 3405: Time: 0.33736371994018555, Total Reward: 352.62337958365606, Q Loss: 12128.23013305664, Actor Loss: -7666.161468505859  
Episode 3406: Time: 0.15590524673461914, Total Reward: 155.89547205774502, Q Loss: 6348.734512329102, Actor Loss: -3431.590805053711  
Episode 3407: Time: 0.26840901374816895, Total Reward: 276.86408905581686, Q Loss: 9009.509353637695, Actor Loss: -5885.157577514648  
Episode 3408: Time: 0.26822447776794434, Total Reward: 277.56987516401443, Q Loss: 10726.988006591797, Actor Loss: -5951.2847900390625  
Episode 3409: Time: 0.30370259284973145, Total Reward: 315.674446950174, Q Loss: 10880.809341430664, Actor Loss: -6767.077209472656

Episode 3410: Time: 0.39974117279052734, Total Reward: 417.7266184576229, Q Loss: 16978.70408630371, Actor Loss: -8864.271881103516  
Episode 3411: Time: 0.2517416477203369, Total Reward: 259.4666559002641, Q Loss: 10088.399520874023, Actor Loss: -5720.751022338867  
Episode 3412: Time: 0.20003914833068848, Total Reward: 202.485462555301, Q Loss: 8147.21369934082, Actor Loss: -4551.831481933594  
Episode 3413: Time: 0.3558962345123291, Total Reward: 371.2189744105234, Q Loss: 14288.861907958984, Actor Loss: -7881.079055786133  
Episode 3414: Time: 0.28649401664733887, Total Reward: 296.36523624858074, Q Loss: 12541.947021484375, Actor Loss: -6541.022689819336  
Episode 3415: Time: 0.19067955017089844, Total Reward: 194.04849290562584, Q Loss: 8112.387710571289, Actor Loss: -4261.2122802734375  
Episode 3416: Time: 0.07896971702575684, Total Reward: 72.77767353376639, Q Loss: 3266.752227783203, Actor Loss: -1658.41845703125  
Episode 3417: Time: 0.07836246490478516, Total Reward: 72.42298826010311, Q Loss: 3176.9907989501953, Actor Loss: -1651.3834686279297  
Episode 3418: Time: 0.5796928405761719, Total Reward: 612.9680530535115, Q Loss: 23567.759338378906, Actor Loss: -13065.670593261719  
Episode 3419: Time: 0.13006830215454102, Total Reward: 128.7283963819548, Q Loss: 5514.866851806641, Actor Loss: -2931.588150024414  
Episode 3420: Time: 0.3636057376861572, Total Reward: 379.4229492700561, Q Loss: 13894.56950378418, Actor Loss: -8431.476699829102  
Episode 3421: Time: 0.24306607246398926, Total Reward: 248.42137722377893, Q Loss: 11236.41763305664, Actor Loss: -5453.858673095703  
Episode 3422: Time: 0.30423998832702637, Total Reward: 312.657190052824, Q Loss: 14407.140640258789, Actor Loss: -6969.986419677734  
Episode 3423: Time: 0.5113010406494141, Total Reward: 536.7500860506532, Q Loss: 19957.88671875, Actor Loss: -11636.185150146484  
Episode 3424: Time: 0.28679418563842773, Total Reward: 295.8074586928306, Q Loss: 12366.994277954102, Actor Loss: -6590.204193115234  
Episode 3425: Time: 0.2526130676269531, Total Reward: 258.85204061135215, Q Loss: 10759.564239501953, Actor Loss: -5645.588531494141  
Episode 3426: Time: 0.2172226905822754, Total Reward: 221.26224594627968, Q Loss: 8683.223007202148, Actor Loss: -4938.349273681641  
Episode 3427: Time: 0.20885777473449707, Total Reward: 212.3545369013955, Q Loss: 9508.8173828125, Actor Loss: -4853.989364624023  
Episode 3428: Time: 0.28618574142456055, Total Reward: 297.1722553379142, Q Loss: 12193.954498291016, Actor Loss: -6731.904449462891  
Episode 3429: Time: 0.2081148624420166, Total Reward: 212.48340008761457, Q Loss: 8578.965682983398, Actor Loss: -4692.256317138672  
Episode 3430: Time: 0.09537482261657715, Total Reward: 91.49500261846444, Q Loss: 4164.857986450195, Actor Loss: -2164.0294799804688  
Episode 3431: Time: 0.23506903648376465, Total Reward: 240.58209030721255, Q Loss: 10403.16928100586, Actor Loss: -5245.335556030273  
Episode 3432: Time: 0.1647806167602539, Total Reward: 165.80766019054062, Q Loss: 7402.028274536133, Actor Loss: -3825.6299743652344  
Episode 3433: Time: 0.294996976852417, Total Reward: 305.5937713701017, Q Loss: 12039.923202514648, Actor Loss: -6615.040435791016  
Episode 3434: Time: 0.1906890869140625, Total Reward: 191.83759743487062, Q Loss: 8505.560073852539, Actor Loss: -4386.995864868164  
Episode 3435: Time: 0.2256627082824707, Total Reward: 230.84835297222034, Q Loss: 8616.497634887695, Actor Loss: -5282.24739074707  
Episode 3436: Time: 0.24299216270446777, Total Reward: 249.34827726427804, Q Loss: 10550.684295654297, Actor Loss: -5691.536468505859  
Episode 3437: Time: 0.3032643795013428, Total Reward: 313.98767926428576, Q Loss: 12270.12484741211, Actor Loss: -6871.537902832031

Episode 3438: Time: 0.20795035362243652, Total Reward: 212.34990426951998, Q Loss: 8406.65005493164, Actor Loss: -4718.631530761719  
Episode 3439: Time: 0.3285391330718994, Total Reward: 343.36443085020863, Q Loss: 12847.564140319824, Actor Loss: -7680.413864135742  
Episode 3440: Time: 0.4752774238586426, Total Reward: 500.43935523286115, Q Loss: 19373.167068481445, Actor Loss: -11064.518081665039  
Episode 3441: Time: 0.11252069473266602, Total Reward: 110.14139088540936, Q Loss: 6107.7288818359375, Actor Loss: -2685.8724670410156  
Episode 3442: Time: 0.20006322860717773, Total Reward: 203.00347538498525, Q Loss: 8400.513534545898, Actor Loss: -4689.714157104492  
Episode 3443: Time: 0.2250661849975586, Total Reward: 229.92472696028184, Q Loss: 10049.295776367188, Actor Loss: -5221.201843261719  
Episode 3444: Time: 0.1298673152923584, Total Reward: 128.6649994570588, Q Loss: 4799.306343078613, Actor Loss: -3016.4829864501953  
Episode 3445: Time: 0.22524809837341309, Total Reward: 230.21763600437788, Q Loss: 8616.249954223633, Actor Loss: -5322.328048706055  
Episode 3446: Time: 0.2424163818359375, Total Reward: 246.27884618125438, Q Loss: 9522.143569946289, Actor Loss: -5573.163421630859  
Episode 3447: Time: 0.1640329360961914, Total Reward: 165.58361750199893, Q Loss: 7418.205154418945, Actor Loss: -3911.1541595458984  
Episode 3448: Time: 0.24202346801757812, Total Reward: 248.33822244190696, Q Loss: 11809.954818725586, Actor Loss: -5694.478622436523  
Episode 3449: Time: 0.1811385154724121, Total Reward: 184.91532434218445, Q Loss: 7075.327011108398, Actor Loss: -4262.921905517578  
Episode 3450: Time: 0.10407757759094238, Total Reward: 99.90665790153751, Q Loss: 4372.282180786133, Actor Loss: -2456.9652099609375  
Episode 3451: Time: 0.18107843399047852, Total Reward: 183.08657680730832, Q Loss: 7784.914962768555, Actor Loss: -4191.404312133789  
Episode 3452: Time: 0.05234122276306152, Total Reward: 43.99618293900395, Q Loss: 2660.2740478515625, Actor Loss: -1246.0087127685547  
Episode 3453: Time: 0.2852206230163574, Total Reward: 296.51890134972064, Q Loss: 12357.886459350586, Actor Loss: -6722.907363891602  
Episode 3454: Time: 0.35384273529052734, Total Reward: 370.2556146202051, Q Loss: 14647.408493041992, Actor Loss: -8216.569290161133  
Episode 3455: Time: 0.2505831718444824, Total Reward: 257.4068589142483, Q Loss: 9787.215408325195, Actor Loss: -5905.411651611328  
Episode 3456: Time: 0.13824796676635742, Total Reward: 138.02177729863882, Q Loss: 5216.436004638672, Actor Loss: -3283.7515411376953  
Episode 3457: Time: 0.21581792831420898, Total Reward: 221.144226296266, Q Loss: 8747.193756103516, Actor Loss: -5160.0758056640625  
Episode 3458: Time: 0.15472745895385742, Total Reward: 155.8929659804232, Q Loss: 5762.541931152344, Actor Loss: -3458.299545288086  
Episode 3459: Time: 0.2239527702331543, Total Reward: 230.07885308225627, Q Loss: 9723.031967163086, Actor Loss: -5349.830383300781  
Episode 3460: Time: 0.26628589630126953, Total Reward: 276.4833540421475, Q Loss: 11887.39958190918, Actor Loss: -6276.767761230469  
Episode 3461: Time: 0.19780874252319336, Total Reward: 201.51890369895983, Q Loss: 8083.798049926758, Actor Loss: -4746.0224609375  
Episode 3462: Time: 0.3097076416015625, Total Reward: 323.37308475290314, Q Loss: 13385.060913085938, Actor Loss: -7444.551895141602  
Episode 3463: Time: 0.25817418098449707, Total Reward: 268.15932945131266, Q Loss: 9806.980758666992, Actor Loss: -6227.393951416016  
Episode 3464: Time: 0.3444480895996094, Total Reward: 357.21603173244773, Q Loss: 14829.298126220703, Actor Loss: -8259.933792114258  
Episode 3465: Time: 0.2673680782318115, Total Reward: 277.48251101287985, Q Loss: 11237.995559692383, Actor Loss: -6389.450332641602

Episode 3466: Time: 0.0863804817199707, Total Reward: 82.43294012127319, Q Loss: 4168.037246704102, Actor Loss: -2104.562057495117  
Episode 3467: Time: 0.3267178535461426, Total Reward: 343.33646614998554, Q Loss: 14194.703964233398, Actor Loss: -8069.58464050293  
Episode 3468: Time: 0.5239429473876953, Total Reward: 555.6540643219599, Q Loss: 23702.743865966797, Actor Loss: -12715.347274780273  
Episode 3469: Time: 0.18923497200012207, Total Reward: 194.4353694627155, Q Loss: 10450.437889099121, Actor Loss: -4593.467300415039  
Episode 3470: Time: 0.1639251708984375, Total Reward: 165.9533824631785, Q Loss: 6504.973541259766, Actor Loss: -3877.674057006836  
Episode 3471: Time: 0.3184971809387207, Total Reward: 333.7631495381466, Q Loss: 12523.495162963867, Actor Loss: -7463.514938354492  
Episode 3472: Time: 0.1462419033050537, Total Reward: 146.91193405982887, Q Loss: 5867.124313354492, Actor Loss: -3529.548370361328  
Episode 3473: Time: 0.1383044719696045, Total Reward: 138.1684443488552, Q Loss: 5321.215728759766, Actor Loss: -3414.6234741210938  
Episode 3474: Time: 0.1885683536529541, Total Reward: 192.3413002979754, Q Loss: 9864.131927490234, Actor Loss: -4540.937164306641  
Episode 3475: Time: 0.4386725425720215, Total Reward: 464.3867164440802, Q Loss: 21598.597381591797, Actor Loss: -10662.604278564453  
Episode 3476: Time: 0.25353312492370605, Total Reward: 259.29469998413947, Q Loss: 10374.399398803711, Actor Loss: -6084.569320678711  
Episode 3477: Time: 0.2673342227935791, Total Reward: 275.43665279147183, Q Loss: 12683.395050048828, Actor Loss: -6334.909332275391  
Episode 3478: Time: 0.21569395065307617, Total Reward: 220.02528597579902, Q Loss: 9060.068115234375, Actor Loss: -5210.960678100586  
Episode 3479: Time: 0.335113525390625, Total Reward: 352.407854626818, Q Loss: 17865.341751098633, Actor Loss: -8200.956741333008  
Episode 3480: Time: 0.2671642303466797, Total Reward: 277.7605000279206, Q Loss: 11900.272552490234, Actor Loss: -6581.559280395508  
Episode 3481: Time: 0.1464838981628418, Total Reward: 146.32522396983305, Q Loss: 6301.119003295898, Actor Loss: -3642.9688568115234  
Episode 3482: Time: 0.10371828079223633, Total Reward: 101.0303439330336, Q Loss: 5265.9666748046875, Actor Loss: -2503.9393310546875  
Episode 3483: Time: 0.7364964485168457, Total Reward: 780.6223575057138, Q Loss: 33773.134201049805, Actor Loss: -18147.556640625  
Episode 3484: Time: 0.10409188270568848, Total Reward: 101.07866433314085, Q Loss: 4279.935302734375, Actor Loss: -2527.2578887939453  
Episode 3485: Time: 0.22492313385009766, Total Reward: 229.63224372301076, Q Loss: 10583.360168457031, Actor Loss: -5589.439605712891  
Episode 3486: Time: 0.2671506404876709, Total Reward: 277.6216785863663, Q Loss: 12143.609359741211, Actor Loss: -6508.6346435546875  
Episode 3487: Time: 0.3953514099121094, Total Reward: 417.39455629152854, Q Loss: 20056.510543823242, Actor Loss: -9910.546768188477  
Episode 3488: Time: 0.24906349182128906, Total Reward: 257.1437025774244, Q Loss: 11851.736236572266, Actor Loss: -6342.225006103516  
Episode 3489: Time: 0.1973559856414795, Total Reward: 202.90174985777816, Q Loss: 11075.278701782227, Actor Loss: -5007.475280761719  
Episode 3490: Time: 0.24086833000183105, Total Reward: 250.2325666633343, Q Loss: 12673.046463012695, Actor Loss: -6002.968338012695  
Episode 3491: Time: 0.27493810653686523, Total Reward: 285.6931492841744, Q Loss: 13392.906494140625, Actor Loss: -6820.549835205078  
Episode 3492: Time: 0.29198694229125977, Total Reward: 306.23298529342253, Q Loss: 12226.947555541992, Actor Loss: -7390.526748657227  
Episode 3493: Time: 0.23267221450805664, Total Reward: 238.22212864426538, Q Loss: 10270.975341796875, Actor Loss: -5934.911712646484

Episode 3494: Time: 0.22354841232299805, Total Reward: 230.90350498124974, Q Loss: 10228.326858520508, Actor Loss: -5574.86994934082  
Episode 3495: Time: 0.3266947269439697, Total Reward: 343.55576278080986, Q Loss: 16197.533584594727, Actor Loss: -8267.088455200195  
Episode 3496: Time: 0.14621734619140625, Total Reward: 147.1236742561375, Q Loss: 6182.665168762207, Actor Loss: -3755.7166290283203  
Episode 3497: Time: 0.14629626274108887, Total Reward: 146.8978785494495, Q Loss: 7167.550003051758, Actor Loss: -3530.8226470947266  
Episode 3498: Time: 0.24086689949035645, Total Reward: 250.04519776581054, Q Loss: 11656.579177856445, Actor Loss: -6035.548934936523  
Episode 3499: Time: 0.25833868980407715, Total Reward: 268.34001426429376, Q Loss: 13639.389465332031, Actor Loss: -6504.815124511719  
Validation Mean: 548.5400818468636, Validation Std: 244.82236003605308  
saving model  
Episode 3500: Time: 0.1902761459350586, Total Reward: 192.2908392305401, Q Loss: 8567.99234008789, Actor Loss: -4798.956924438477  
Episode 3501: Time: 0.2405686378479004, Total Reward: 249.6221396346491, Q Loss: 13008.639297485352, Actor Loss: -6110.488296508789  
Episode 3502: Time: 0.21585845947265625, Total Reward: 221.4373710489064, Q Loss: 10249.219223022461, Actor Loss: -5408.5098876953125  
Episode 3503: Time: 0.12054300308227539, Total Reward: 119.41216075850109, Q Loss: 7032.729431152344, Actor Loss: -2989.7146759033203  
Episode 3504: Time: 0.12085247039794922, Total Reward: 119.55174122878921, Q Loss: 5297.689483642578, Actor Loss: -2996.5787353515625  
Episode 3505: Time: 0.33596205711364746, Total Reward: 351.70347599478214, Q Loss: 15529.7646484375, Actor Loss: -8306.90054321289  
Episode 3506: Time: 0.24962115287780762, Total Reward: 257.2173608660745, Q Loss: 12251.00471496582, Actor Loss: -6298.689849853516  
Episode 3507: Time: 0.29186320304870605, Total Reward: 305.3600842639056, Q Loss: 15554.681396484375, Actor Loss: -7313.506912231445  
Episode 3508: Time: 0.3094484806060791, Total Reward: 323.240912586798, Q Loss: 14434.455444335938, Actor Loss: -7848.264465332031  
Episode 3509: Time: 0.12128782272338867, Total Reward: 119.26516992148734, Q Loss: 6038.957214355469, Actor Loss: -2986.9900665283203  
Episode 3510: Time: 0.16390132904052734, Total Reward: 163.99461506010383, Q Loss: 8802.466094970703, Actor Loss: -4086.7748260498047  
Episode 3511: Time: 0.20651888847351074, Total Reward: 210.6705568352295, Q Loss: 10498.87126159668, Actor Loss: -5181.6016845703125  
Episode 3512: Time: 0.1291210651397705, Total Reward: 127.98461808257704, Q Loss: 6091.27458190918, Actor Loss: -3410.380401611328  
Episode 3513: Time: 0.21526193618774414, Total Reward: 220.4135402715082, Q Loss: 9252.456146240234, Actor Loss: -5416.306015014648  
Episode 3514: Time: 0.24059271812438965, Total Reward: 249.88971775915905, Q Loss: 12068.668472290039, Actor Loss: -6114.390670776367  
Episode 3515: Time: 0.18858814239501953, Total Reward: 194.23431813514068, Q Loss: 9445.743148803711, Actor Loss: -4986.410919189453  
Episode 3516: Time: 0.12898874282836914, Total Reward: 128.6082873938799, Q Loss: 6769.037994384766, Actor Loss: -3414.030014038086  
Episode 3517: Time: 0.3090214729309082, Total Reward: 323.9812818012991, Q Loss: 15439.046798706055, Actor Loss: -7924.669448852539  
Episode 3518: Time: 0.1035618782043457, Total Reward: 101.1085698984132, Q Loss: 5635.30419921875, Actor Loss: -2618.522979736328  
Episode 3519: Time: 0.26616764068603516, Total Reward: 276.9690495749856, Q Loss: 12496.715438842773, Actor Loss: -6898.068695068359  
Episode 3520: Time: 0.4213895797729492, Total Reward: 445.7894346305676, Q Loss: 21219.714401245117, Actor Loss: -10609.151596069336

Episode 3521: Time: 0.2760136127471924, Total Reward: 286.7622565777899, Q Loss: 13885.065795898438, Actor Loss: -7052.751449584961  
Episode 3522: Time: 0.266951322555542, Total Reward: 277.3263736504345, Q Loss: 17057.480926513672, Actor Loss: -6935.735610961914  
Episode 3523: Time: 0.19782423973083496, Total Reward: 202.4921777401684, Q Loss: 10049.650283813477, Actor Loss: -5012.556060791016  
Episode 3524: Time: 0.3344743251800537, Total Reward: 350.9917942494225, Q Loss: 16607.5184173584, Actor Loss: -8615.508346557617  
Episode 3525: Time: 0.4202547073364258, Total Reward: 445.96115742119065, Q Loss: 21537.44171142578, Actor Loss: -10710.485458374023  
Episode 3526: Time: 0.12862825393676758, Total Reward: 125.74346005785029, Q Loss: 6649.2877197265625, Actor Loss: -3342.7349548339844  
Episode 3527: Time: 0.14640355110168457, Total Reward: 146.87907243087886, Q Loss: 8108.236145019531, Actor Loss: -3705.8818359375  
Episode 3528: Time: 0.29242777824401855, Total Reward: 304.8491115832345, Q Loss: 16216.767181396484, Actor Loss: -7531.331527709961  
Episode 3529: Time: 0.2759249210357666, Total Reward: 286.19214896736895, Q Loss: 13602.286651611328, Actor Loss: -7053.690734863281  
Episode 3530: Time: 0.29291486740112305, Total Reward: 304.68837822696145, Q Loss: 15007.248397827148, Actor Loss: -7650.905456542969  
Episode 3531: Time: 0.13787198066711426, Total Reward: 138.09188203548484, Q Loss: 7654.279449462891, Actor Loss: -3644.0157318115234  
Episode 3532: Time: 0.36969709396362305, Total Reward: 388.4874833980694, Q Loss: 22072.321044921875, Actor Loss: -9487.424270629883  
Episode 3533: Time: 0.23228979110717773, Total Reward: 240.51863761771955, Q Loss: 12997.064331054688, Actor Loss: -6003.576904296875  
Episode 3534: Time: 0.2494962215423584, Total Reward: 259.302053252903, Q Loss: 11174.782287597656, Actor Loss: -6525.033889770508  
Episode 3535: Time: 0.21503329277038574, Total Reward: 220.6632005566001, Q Loss: 12407.948684692383, Actor Loss: -5666.615493774414  
Episode 3536: Time: 0.09464812278747559, Total Reward: 91.45924339267572, Q Loss: 4609.236221313477, Actor Loss: -2488.553955078125  
Episode 3537: Time: 0.4982001781463623, Total Reward: 529.3786621212747, Q Loss: 24647.770904541016, Actor Loss: -13180.9755859375  
Episode 3538: Time: 0.12067461013793945, Total Reward: 117.16274519466596, Q Loss: 6909.0430908203125, Actor Loss: -3099.1511993408203  
Episode 3539: Time: 0.22488832473754883, Total Reward: 230.39780728114053, Q Loss: 11889.980484008789, Actor Loss: -5858.952774047852  
Episode 3540: Time: 0.14619064331054688, Total Reward: 147.72535410691427, Q Loss: 6507.926376342773, Actor Loss: -3811.1505126953125  
Episode 3541: Time: 0.08644509315490723, Total Reward: 81.89354961117952, Q Loss: 4424.2437744140625, Actor Loss: -2282.9141845703125  
Episode 3542: Time: 0.22355127334594727, Total Reward: 230.31925629219504, Q Loss: 11174.271865844727, Actor Loss: -5765.687927246094  
Episode 3543: Time: 0.206573486328125, Total Reward: 212.54248498828807, Q Loss: 11154.726516723633, Actor Loss: -5396.602996826172  
Episode 3544: Time: 0.17180490493774414, Total Reward: 174.25049479197426, Q Loss: 9992.876571655273, Actor Loss: -4537.764144897461  
Episode 3545: Time: 0.1892399787902832, Total Reward: 193.69150871771024, Q Loss: 10640.385116577148, Actor Loss: -5012.194259643555  
Episode 3546: Time: 0.3954503536224365, Total Reward: 418.29548941427004, Q Loss: 23445.922286987305, Actor Loss: -10486.173095703125  
Episode 3547: Time: 0.3187291622161865, Total Reward: 334.3670289586262, Q Loss: 15756.354034423828, Actor Loss: -8429.473724365234  
Episode 3548: Time: 0.23232269287109375, Total Reward: 239.7929069986211, Q Loss: 10482.727279663086, Actor Loss: -6023.169784545898



Episode 3549: Time: 0.31793665885925293, Total Reward: 332.89130102262095, Q Loss: 18741.632263183594, Actor Loss: -8475.78857421875  
Episode 3550: Time: 0.44651198387145996, Total Reward: 474.61079542025135, Q Loss: 23050.794036865234, Actor Loss: -12033.640640258789  
Episode 3551: Time: 0.09468388557434082, Total Reward: 91.97871530449872, Q Loss: 5764.566925048828, Actor Loss: -2458.357620239258  
Episode 3552: Time: 0.44801902770996094, Total Reward: 474.043066155678, Q Loss: 24776.716598510742, Actor Loss: -11972.715393066406  
Episode 3553: Time: 0.19751667976379395, Total Reward: 201.61983777162365, Q Loss: 10195.923706054688, Actor Loss: -5377.225051879883  
Episode 3554: Time: 0.16431188583374023, Total Reward: 166.09452412876848, Q Loss: 8642.993194580078, Actor Loss: -4307.135787963867  
Episode 3555: Time: 0.1890251636505127, Total Reward: 194.50091622941775, Q Loss: 10081.570419311523, Actor Loss: -5051.77326965332  
Episode 3556: Time: 0.24084019660949707, Total Reward: 249.69402933659015, Q Loss: 13286.377304077148, Actor Loss: -6583.123611450195  
Episode 3557: Time: 0.3528003692626953, Total Reward: 370.3593589039773, Q Loss: 17468.060028076172, Actor Loss: -9289.777893066406  
Episode 3558: Time: 0.13762402534484863, Total Reward: 137.95732954803674, Q Loss: 6554.033157348633, Actor Loss: -3587.344253540039  
Episode 3559: Time: 0.23276519775390625, Total Reward: 237.83715756524984, Q Loss: 12903.80679321289, Actor Loss: -6314.967346191406  
Episode 3560: Time: 0.17188358306884766, Total Reward: 174.64356655202178, Q Loss: 11022.448120117188, Actor Loss: -4543.811859130859  
Episode 3561: Time: 0.06955337524414062, Total Reward: 63.031679386320015, Q Loss: 3331.6069946289062, Actor Loss: -1805.9130096435547  
Episode 3562: Time: 0.28380465507507324, Total Reward: 294.9957600611988, Q Loss: 15019.422485351562, Actor Loss: -7498.135818481445  
Episode 3563: Time: 0.3452889919281006, Total Reward: 361.8216198938286, Q Loss: 19467.04067993164, Actor Loss: -9069.26432800293  
Episode 3564: Time: 0.1463165283203125, Total Reward: 146.47098187310883, Q Loss: 7374.682800292969, Actor Loss: -3939.6929473876953  
Episode 3565: Time: 0.15536928176879883, Total Reward: 157.14276592733228, Q Loss: 8642.984283447266, Actor Loss: -4133.181289672852  
Episode 3566: Time: 0.5491485595703125, Total Reward: 583.3942567852058, Q Loss: 30586.87825012207, Actor Loss: -14802.268051147461  
Episode 3567: Time: 0.15491151809692383, Total Reward: 157.33696713096617, Q Loss: 8264.971420288086, Actor Loss: -3949.560073852539  
Episode 3568: Time: 0.3098757266998291, Total Reward: 320.26304235453614, Q Loss: 18567.229583740234, Actor Loss: -8298.978378295898  
Episode 3569: Time: 0.3184030055999756, Total Reward: 334.0100833913167, Q Loss: 18432.236938476562, Actor Loss: -8616.708221435547  
Episode 3570: Time: 0.17243599891662598, Total Reward: 174.84118531028835, Q Loss: 10527.67317199707, Actor Loss: -4705.317932128906  
Episode 3571: Time: 0.36148953437805176, Total Reward: 380.42588241387847, Q Loss: 19713.027282714844, Actor Loss: -9749.642639160156  
Episode 3572: Time: 0.524097204208374, Total Reward: 558.052930359923, Q Loss: 28192.41845703125, Actor Loss: -14087.069061279297  
Episode 3573: Time: 0.22414374351501465, Total Reward: 231.13142548187548, Q Loss: 14035.754165649414, Actor Loss: -6099.076202392578  
Episode 3574: Time: 0.16319847106933594, Total Reward: 163.80446159683632, Q Loss: 9778.841537475586, Actor Loss: -4545.785491943359  
Episode 3575: Time: 0.23277544975280762, Total Reward: 239.88003876882865, Q Loss: 11928.925567626953, Actor Loss: -6284.937271118164  
Episode 3576: Time: 0.08613085746765137, Total Reward: 81.86107418583646, Q Loss: 4449.089080810547, Actor Loss: -2353.548828125

Episode 3577: Time: 0.11174869537353516, Total Reward: 109.9717583672641, Q Loss: 5742.339492797852, Actor Loss: -2986.373260498047  
Episode 3578: Time: 0.32639551162719727, Total Reward: 342.27624396484464, Q Loss: 18714.329864501953, Actor Loss: -8814.838104248047  
Episode 3579: Time: 0.3093414306640625, Total Reward: 322.58504068722186, Q Loss: 18366.591094970703, Actor Loss: -8505.749938964844  
Episode 3580: Time: 0.5927298069000244, Total Reward: 630.4051554578938, Q Loss: 35376.87203979492, Actor Loss: -16337.339157104492  
Episode 3581: Time: 0.32662224769592285, Total Reward: 341.88878417230217, Q Loss: 21748.295196533203, Actor Loss: -8988.505065917969  
Episode 3582: Time: 0.12059617042541504, Total Reward: 119.53611510542225, Q Loss: 6802.567230224609, Actor Loss: -3271.4625549316406  
Episode 3583: Time: 0.16368961334228516, Total Reward: 165.49203532883848, Q Loss: 6940.688018798828, Actor Loss: -4430.710067749023  
Episode 3584: Time: 0.07760024070739746, Total Reward: 72.32241154461074, Q Loss: 3581.4707641601562, Actor Loss: -2038.290298461914  
Episode 3585: Time: 0.18894314765930176, Total Reward: 193.28893859861753, Q Loss: 10822.868270874023, Actor Loss: -5204.709579467773  
Episode 3586: Time: 0.4071347713470459, Total Reward: 428.125397588929, Q Loss: 23819.331466674805, Actor Loss: -11229.833450317383  
Episode 3587: Time: 0.24989557266235352, Total Reward: 257.89509118943494, Q Loss: 14181.948455810547, Actor Loss: -6751.690689086914  
Episode 3588: Time: 0.12073326110839844, Total Reward: 119.3116995566398, Q Loss: 6087.35969543457, Actor Loss: -3355.1136322021484  
Episode 3589: Time: 0.2584035396575928, Total Reward: 268.2403206401645, Q Loss: 17076.670135498047, Actor Loss: -6861.297454833984  
Episode 3590: Time: 0.16359877586364746, Total Reward: 166.38957213164272, Q Loss: 8784.442794799805, Actor Loss: -4489.758316040039  
Episode 3591: Time: 0.17232608795166016, Total Reward: 174.43949774876273, Q Loss: 10338.533721923828, Actor Loss: -4752.828598022461  
Episode 3592: Time: 0.1403059959411621, Total Reward: 138.2479077572827, Q Loss: 7475.747512817383, Actor Loss: -3833.294906616211  
Episode 3593: Time: 0.4222452640533447, Total Reward: 442.85186446019105, Q Loss: 21140.28921508789, Actor Loss: -11470.762329101562  
Episode 3594: Time: 0.20616436004638672, Total Reward: 211.42913604601992, Q Loss: 12327.106246948242, Actor Loss: -5791.286056518555  
Episode 3595: Time: 0.7030344009399414, Total Reward: 669.0295158814645, Q Loss: 39789.5666809082, Actor Loss: -17684.163482666016  
Episode 3596: Time: 0.3395199775695801, Total Reward: 258.9497123151614, Q Loss: 14404.088012695312, Actor Loss: -7037.470642089844  
Episode 3597: Time: 0.3504023551940918, Total Reward: 268.50764961405804, Q Loss: 14102.716720581055, Actor Loss: -7270.423492431641  
Episode 3598: Time: 0.3153500556945801, Total Reward: 238.73443702424777, Q Loss: 12786.074737548828, Actor Loss: -6411.4588623046875  
Episode 3599: Time: 0.2800583839416504, Total Reward: 211.62082686083437, Q Loss: 12758.286407470703, Actor Loss: -5776.420440673828  
Validation Mean: 368.3436427765686, Validation Std: 69.92442502604061  
saving model  
Episode 3600: Time: 0.18766212463378906, Total Reward: 138.3250235456335, Q Loss: 7153.5836181640625, Actor Loss: -3784.1717376708984  
Episode 3601: Time: 0.5367605686187744, Total Reward: 416.6019975763384, Q Loss: 23752.17660522461, Actor Loss: -10940.25016784668  
Episode 3602: Time: 0.2802770137786865, Total Reward: 211.99433782478263, Q Loss: 14486.556671142578, Actor Loss: -5913.699005126953  
Episode 3603: Time: 0.30352210998535156, Total Reward: 231.8365054410636, Q Loss: 13789.984832763672, Actor Loss: -6480.036605834961

Episode 3604: Time: 0.16356348991394043, Total Reward: 119.3490696879271, Q Loss: 5868.34407043457, Actor Loss: -3420.7561798095703  
Episode 3605: Time: 0.47774529457092285, Total Reward: 371.5033184592994, Q Loss: 21857.46304321289, Actor Loss: -10035.632461547852  
Episode 3606: Time: 0.24527764320373535, Total Reward: 184.241840941525, Q Loss: 12008.397644042969, Actor Loss: -5057.788513183594  
Episode 3607: Time: 0.22187018394470215, Total Reward: 165.8105042473975, Q Loss: 10521.641357421875, Actor Loss: -4563.957794189453  
Episode 3608: Time: 0.25678539276123047, Total Reward: 190.36803347949942, Q Loss: 12199.106384277344, Actor Loss: -5193.67497253418  
Episode 3609: Time: 0.23369860649108887, Total Reward: 175.24956763096023, Q Loss: 11131.682189941406, Actor Loss: -4862.791046142578  
Episode 3610: Time: 0.3859379291534424, Total Reward: 293.8762477438861, Q Loss: 17320.905364990234, Actor Loss: -7824.31201171875  
Episode 3611: Time: 0.524425745010376, Total Reward: 406.32643653398344, Q Loss: 25296.556243896484, Actor Loss: -11190.292465209961  
Episode 3612: Time: 0.3267195224761963, Total Reward: 249.70366999123155, Q Loss: 16630.8544921875, Actor Loss: -6858.225173950195  
Episode 3613: Time: 0.44328737258911133, Total Reward: 341.5854998218209, Q Loss: 24115.265365600586, Actor Loss: -9210.045776367188  
Episode 3614: Time: 0.26876139640808105, Total Reward: 202.343433815231, Q Loss: 11565.046569824219, Actor Loss: -5680.124542236328  
Episode 3615: Time: 0.23347139358520508, Total Reward: 175.53846883757822, Q Loss: 10779.415802001953, Actor Loss: -4709.364334106445  
Episode 3616: Time: 0.36176562309265137, Total Reward: 277.84395271226344, Q Loss: 16408.098022460938, Actor Loss: -7487.135025024414  
Episode 3617: Time: 0.3612675666809082, Total Reward: 276.98605268813674, Q Loss: 14861.331420898438, Actor Loss: -7692.333084106445  
Episode 3618: Time: 0.8501849174499512, Total Reward: 668.423978234646, Q Loss: 38904.876953125, Actor Loss: -18380.5234375  
Episode 3619: Time: 0.14003276824951172, Total Reward: 100.82779473554972, Q Loss: 6988.03369140625, Actor Loss: -2904.884307861328  
Episode 3620: Time: 0.4315969944000244, Total Reward: 333.3809317176121, Q Loss: 21634.99951171875, Actor Loss: -9000.857986450195  
Episode 3621: Time: 0.30287933349609375, Total Reward: 228.5101550246978, Q Loss: 15394.644897460938, Actor Loss: -6388.987396240234  
Episode 3622: Time: 0.4546229839324951, Total Reward: 352.46130148831946, Q Loss: 23872.31965637207, Actor Loss: -9791.746887207031  
Episode 3623: Time: 0.3498213291168213, Total Reward: 267.3385028421036, Q Loss: 18110.97738647461, Actor Loss: -7537.706497192383  
Episode 3624: Time: 0.7814650535583496, Total Reward: 613.2922597764264, Q Loss: 35634.863021850586, Actor Loss: -16408.2628326416  
Episode 3625: Time: 0.10507440567016602, Total Reward: 72.77426643536964, Q Loss: 4580.354339599609, Actor Loss: -2289.4583435058594  
Episode 3626: Time: 0.43109893798828125, Total Reward: 333.90456654485195, Q Loss: 22956.470184326172, Actor Loss: -9045.928405761719  
Episode 3627: Time: 0.1283128261566162, Total Reward: 91.55739687746778, Q Loss: 6405.065460205078, Actor Loss: -2696.686264038086  
Episode 3628: Time: 0.2568209171295166, Total Reward: 192.92629472053903, Q Loss: 14013.807861328125, Actor Loss: -5570.043914794922  
Episode 3629: Time: 0.455385684967041, Total Reward: 351.44793219969756, Q Loss: 18969.259368896484, Actor Loss: -9834.159484863281  
Episode 3630: Time: 0.7125041484832764, Total Reward: 558.0057008090931, Q Loss: 34008.97579956055, Actor Loss: -15232.088104248047  
Episode 3631: Time: 0.4787266254425049, Total Reward: 370.78792363038787, Q Loss: 23391.461181640625, Actor Loss: -10421.154998779297

Episode 3632: Time: 0.26917576789855957, Total Reward: 202.59377194273128, Q Loss: 13426.681289672852, Actor Loss: -5736.010528564453  
Episode 3633: Time: 0.418595552444458, Total Reward: 323.5107460111776, Q Loss: 20349.41537475586, Actor Loss: -9092.052230834961  
Episode 3634: Time: 0.22143793106079102, Total Reward: 165.43418229231477, Q Loss: 10881.508087158203, Actor Loss: -4735.913665771484  
Episode 3635: Time: 0.3512415885925293, Total Reward: 268.05862755356156, Q Loss: 18578.636657714844, Actor Loss: -7343.016143798828  
Episode 3636: Time: 0.17531085014343262, Total Reward: 128.77096323774597, Q Loss: 9221.059295654297, Actor Loss: -3786.485122680664  
Episode 3637: Time: 0.37305235862731934, Total Reward: 286.30396819018904, Q Loss: 18108.336715698242, Actor Loss: -7927.416976928711  
Episode 3638: Time: 0.20995616912841797, Total Reward: 156.1964981311174, Q Loss: 9246.459503173828, Actor Loss: -4603.831954956055  
Episode 3639: Time: 0.37285423278808594, Total Reward: 287.5023553806557, Q Loss: 19495.398956298828, Actor Loss: -8042.674011230469  
Episode 3640: Time: 0.2335066795349121, Total Reward: 175.77117824156159, Q Loss: 12835.725967407227, Actor Loss: -5010.763763427734  
Episode 3641: Time: 0.1748812198638916, Total Reward: 129.06283254418642, Q Loss: 7649.332824707031, Actor Loss: -3758.231964111328  
Episode 3642: Time: 0.5663654804229736, Total Reward: 426.5021370576699, Q Loss: 26864.701141357422, Actor Loss: -11968.021697998047  
Episode 3643: Time: 0.6081893444061279, Total Reward: 472.78406147613026, Q Loss: 26183.12628173828, Actor Loss: -13347.17367553711  
Episode 3644: Time: 0.25728511810302734, Total Reward: 193.38619716882013, Q Loss: 11863.164352416992, Actor Loss: -5711.573593139648  
Episode 3645: Time: 0.3276634216308594, Total Reward: 248.57026550336315, Q Loss: 17272.769485473633, Actor Loss: -7041.410919189453  
Episode 3646: Time: 0.3155021667480469, Total Reward: 237.98166827780952, Q Loss: 15519.557403564453, Actor Loss: -6849.712509155273  
Episode 3647: Time: 0.8169944286346436, Total Reward: 639.6436651816022, Q Loss: 37041.41133117676, Actor Loss: -17887.17318725586  
Episode 3648: Time: 0.2692563533782959, Total Reward: 203.49375074967537, Q Loss: 12346.002182006836, Actor Loss: -5738.861968994141  
Episode 3649: Time: 0.21066546440124512, Total Reward: 155.91228113789015, Q Loss: 9135.044494628906, Actor Loss: -4657.344055175781  
Episode 3650: Time: 0.16355633735656738, Total Reward: 119.0571381587238, Q Loss: 8918.184967041016, Actor Loss: -3496.7530822753906  
Episode 3651: Time: 0.10519552230834961, Total Reward: 72.62832357347185, Q Loss: 5637.955871582031, Actor Loss: -2244.082046508789  
Episode 3652: Time: 0.41829609870910645, Total Reward: 324.1733538585202, Q Loss: 21091.870559692383, Actor Loss: -9100.779586791992  
Episode 3653: Time: 0.36055850982666016, Total Reward: 276.860684220733, Q Loss: 19311.0225982666, Actor Loss: -7951.475311279297  
Episode 3654: Time: 0.07022643089294434, Total Reward: 44.68734291646849, Q Loss: 2254.7264862060547, Actor Loss: -1523.8890075683594  
Episode 3655: Time: 0.47649073600769043, Total Reward: 371.8218542818252, Q Loss: 23476.507522583008, Actor Loss: -10440.593948364258  
Episode 3656: Time: 0.12827157974243164, Total Reward: 91.30881167207946, Q Loss: 5751.680999755859, Actor Loss: -2772.2220916748047  
Episode 3657: Time: 0.23415255546569824, Total Reward: 175.44358324962863, Q Loss: 10386.182174682617, Actor Loss: -5084.209335327148  
Episode 3658: Time: 0.23378896713256836, Total Reward: 174.91625395583404, Q Loss: 13481.5341796875, Actor Loss: -5231.065124511719  
Episode 3659: Time: 0.4904625415802002, Total Reward: 379.36678688018384, Q Loss: 25839.70294189453, Actor Loss: -10808.38688659668

Episode 3660: Time: 0.3504343032836914, Total Reward: 268.8215840245606, Q Loss: 17051.416213989258, Actor Loss: -7726.598770141602  
Episode 3661: Time: 0.8275423049926758, Total Reward: 648.9207920859202, Q Loss: 42466.134704589844, Actor Loss: -18251.233688354492  
Episode 3662: Time: 0.28003621101379395, Total Reward: 212.0401353319674, Q Loss: 15377.790710449219, Actor Loss: -6003.112899780273  
Episode 3663: Time: 0.23368477821350098, Total Reward: 172.90883829095213, Q Loss: 11327.37142944336, Actor Loss: -5097.864318847656  
Episode 3664: Time: 0.31499361991882324, Total Reward: 239.84561774359025, Q Loss: 20462.152221679688, Actor Loss: -6884.37287902832  
Episode 3665: Time: 0.5022847652435303, Total Reward: 390.5175361750352, Q Loss: 26614.849151611328, Actor Loss: -11141.404602050781  
Episode 3666: Time: 0.27323246002197266, Total Reward: 211.8867245504647, Q Loss: 14644.051986694336, Actor Loss: -6371.227447509766  
Episode 3667: Time: 0.1920759677886963, Total Reward: 183.0982518994308, Q Loss: 12700.934844970703, Actor Loss: -5212.115982055664  
Episode 3668: Time: 0.2842693328857422, Total Reward: 295.2573068057826, Q Loss: 22130.55926513672, Actor Loss: -8508.06509399414  
Episode 3669: Time: 0.7476449012756348, Total Reward: 800.2109742709802, Q Loss: 54850.1622467041, Actor Loss: -22484.91714477539  
Episode 3670: Time: 0.24963736534118652, Total Reward: 258.74767019332467, Q Loss: 17783.18914794922, Actor Loss: -7543.881896972656  
Episode 3671: Time: 0.20697927474975586, Total Reward: 211.82625201674603, Q Loss: 12891.443359375, Actor Loss: -6375.368103027344  
Episode 3672: Time: 0.31916332244873047, Total Reward: 331.3815279606043, Q Loss: 22229.076110839844, Actor Loss: -9647.491668701172  
Episode 3673: Time: 0.31070423126220703, Total Reward: 323.7427856567259, Q Loss: 24105.44953918457, Actor Loss: -9544.799301147461  
Episode 3674: Time: 0.1993861198425293, Total Reward: 202.64982904392141, Q Loss: 14337.264724731445, Actor Loss: -6180.020294189453  
Episode 3675: Time: 0.22541046142578125, Total Reward: 231.04313049749135, Q Loss: 15228.79965209961, Actor Loss: -6702.379898071289  
Episode 3676: Time: 0.10354089736938477, Total Reward: 100.80713614565235, Q Loss: 7783.905609130859, Actor Loss: -3171.925521850586  
Episode 3677: Time: 0.18171429634094238, Total Reward: 184.3386683561417, Q Loss: 13590.748626708984, Actor Loss: -5433.354965209961  
Episode 3678: Time: 0.20704221725463867, Total Reward: 211.48403722709764, Q Loss: 14155.690856933594, Actor Loss: -6474.377517700195  
Episode 3679: Time: 0.19815945625305176, Total Reward: 203.25790611668393, Q Loss: 13520.330123901367, Actor Loss: -5986.844940185547  
Episode 3680: Time: 0.1215522289276123, Total Reward: 119.63750144638679, Q Loss: 8452.647430419922, Actor Loss: -3634.4139556884766  
Episode 3681: Time: 0.16550779342651367, Total Reward: 165.29682102787768, Q Loss: 11983.397888183594, Actor Loss: -4862.891464233398  
Episode 3682: Time: 0.2438356876373291, Total Reward: 250.09715133081716, Q Loss: 19484.940368652344, Actor Loss: -7330.682144165039  
Episode 3683: Time: 0.25356125831604004, Total Reward: 258.22460853447564, Q Loss: 17205.28106689453, Actor Loss: -7548.637435913086  
Episode 3684: Time: 0.18386006355285645, Total Reward: 184.163977507826, Q Loss: 11654.655792236328, Actor Loss: -5525.218673706055  
Episode 3685: Time: 0.22710132598876953, Total Reward: 228.73442156246188, Q Loss: 17010.794219970703, Actor Loss: -6827.241653442383  
Episode 3686: Time: 0.3648712635040283, Total Reward: 380.49134683820336, Q Loss: 24834.27703857422, Actor Loss: -11198.009796142578  
Episode 3687: Time: 0.21703600883483887, Total Reward: 221.23436770526814, Q Loss: 15760.257110595703, Actor Loss: -6548.6324462890625

Episode 3688: Time: 0.20879459381103516, Total Reward: 210.80235527763546, Q Loss: 15612.581298828125, Actor Loss: -6217.468307495117  
Episode 3689: Time: 0.1988506317138672, Total Reward: 201.79778852037998, Q Loss: 14255.675216674805, Actor Loss: -6155.102676391602  
Episode 3690: Time: 0.1047201156616211, Total Reward: 100.78141249743442, Q Loss: 6739.169342041016, Actor Loss: -3175.7840728759766  
Episode 3691: Time: 0.09555482864379883, Total Reward: 90.7446546742132, Q Loss: 7030.550872802734, Actor Loss: -3070.0741119384766  
Episode 3692: Time: 0.18319320678710938, Total Reward: 183.47356733159498, Q Loss: 13534.312622070312, Actor Loss: -5549.209915161133  
Episode 3693: Time: 0.16470956802368164, Total Reward: 165.34587465446947, Q Loss: 11905.1328125, Actor Loss: -4986.6763916015625  
Episode 3694: Time: 0.10437440872192383, Total Reward: 100.76388518316695, Q Loss: 7351.992095947266, Actor Loss: -3190.5736694335938  
Episode 3695: Time: 0.30458688735961914, Total Reward: 313.83709525527155, Q Loss: 21017.738555908203, Actor Loss: -9379.309020996094  
Episode 3696: Time: 0.10421395301818848, Total Reward: 100.8626830258042, Q Loss: 6864.622741699219, Actor Loss: -3105.1648712158203  
Episode 3697: Time: 0.2703678607940674, Total Reward: 276.20659918116894, Q Loss: 18088.063415527344, Actor Loss: -8043.8497314453125  
Episode 3698: Time: 0.17436552047729492, Total Reward: 175.62260894233467, Q Loss: 11715.37973022461, Actor Loss: -5536.376800537109  
Episode 3699: Time: 0.41756296157836914, Total Reward: 435.8625279624745, Q Loss: 29510.484436035156, Actor Loss: -13051.251022338867  
Validation Mean: 448.8293830011505, Validation Std: 120.42146100446614  
saving model  
Episode 3700: Time: 0.32230091094970703, Total Reward: 333.87538915496384, Q Loss: 22840.92172241211, Actor Loss: -9707.450256347656  
Episode 3701: Time: 0.09669756889343262, Total Reward: 91.30944794972582, Q Loss: 7168.227081298828, Actor Loss: -2978.326385498047  
Episode 3702: Time: 0.1398015022277832, Total Reward: 137.88943439383283, Q Loss: 8952.291946411133, Actor Loss: -4221.986907958984  
Episode 3703: Time: 0.15700602531433105, Total Reward: 156.6895534292037, Q Loss: 10044.536804199219, Actor Loss: -4704.74267578125  
Episode 3704: Time: 0.10513949394226074, Total Reward: 101.11390713191813, Q Loss: 7841.298583984375, Actor Loss: -3248.5806884765625  
Episode 3705: Time: 0.18276262283325195, Total Reward: 184.6226235644447, Q Loss: 12758.363311767578, Actor Loss: -5493.457901000977  
Episode 3706: Time: 0.23529672622680664, Total Reward: 239.12234847885313, Q Loss: 18009.577575683594, Actor Loss: -7282.88069152832  
Episode 3707: Time: 0.12173199653625488, Total Reward: 119.28252378580868, Q Loss: 9134.764862060547, Actor Loss: -3895.1472930908203  
Episode 3708: Time: 0.10506439208984375, Total Reward: 101.1626707452157, Q Loss: 6500.5130615234375, Actor Loss: -3263.7665405273438  
Episode 3709: Time: 0.21821379661560059, Total Reward: 222.13316407710025, Q Loss: 16555.302856445312, Actor Loss: -6772.708724975586  
Episode 3710: Time: 0.2700042724609375, Total Reward: 277.8817894622812, Q Loss: 21125.301818847656, Actor Loss: -8289.586685180664  
Episode 3711: Time: 0.1831967830657959, Total Reward: 184.53334480028835, Q Loss: 12619.539001464844, Actor Loss: -5545.23860168457  
Episode 3712: Time: 0.1832730770111084, Total Reward: 184.50905752267587, Q Loss: 14983.952178955078, Actor Loss: -5658.677169799805  
Episode 3713: Time: 0.17427444458007812, Total Reward: 173.37011392437182, Q Loss: 11361.391021728516, Actor Loss: -5364.824310302734  
Episode 3714: Time: 0.27848148345947266, Total Reward: 285.78105244106285, Q Loss: 20644.62353515625, Actor Loss: -8472.387130737305

Episode 3715: Time: 0.46098971366882324, Total Reward: 482.73858475790513, Q Loss: 37067.49694824219, Actor Loss: -14520.154373168945  
Episode 3716: Time: 0.33080458641052246, Total Reward: 342.4522306042963, Q Loss: 25595.500213623047, Actor Loss: -10133.818283081055  
Episode 3717: Time: 0.39975595474243164, Total Reward: 416.78051632472517, Q Loss: 30543.840240478516, Actor Loss: -12275.708206176758  
Episode 3718: Time: 0.26987743377685547, Total Reward: 278.1244018031866, Q Loss: 20316.635498046875, Actor Loss: -8501.414962768555  
Episode 3719: Time: 0.06976628303527832, Total Reward: 63.44188408185571, Q Loss: 4667.211151123047, Actor Loss: -2131.7174224853516  
Episode 3720: Time: 0.13054943084716797, Total Reward: 128.4964000722446, Q Loss: 11863.238067626953, Actor Loss: -4167.393905639648  
Episode 3721: Time: 0.3344871997833252, Total Reward: 343.5228151173576, Q Loss: 27696.77471923828, Actor Loss: -10314.694915771484  
Episode 3722: Time: 0.12305378913879395, Total Reward: 119.33391053241012, Q Loss: 8490.905715942383, Actor Loss: -3754.2460021972656  
Episode 3723: Time: 0.19266462326049805, Total Reward: 194.38594251681786, Q Loss: 16020.650756835938, Actor Loss: -5979.022201538086  
Episode 3724: Time: 0.19193100929260254, Total Reward: 190.88811419732994, Q Loss: 15139.504898071289, Actor Loss: -5857.0736083984375  
Episode 3725: Time: 0.23585224151611328, Total Reward: 240.06539674236964, Q Loss: 19850.386260986328, Actor Loss: -7720.837554931641  
Episode 3726: Time: 0.23505306243896484, Total Reward: 236.98416289933945, Q Loss: 19210.93147277832, Actor Loss: -7395.041061401367  
Episode 3727: Time: 0.4523274898529053, Total Reward: 473.7160381168304, Q Loss: 38256.75198364258, Actor Loss: -14523.156295776367  
Episode 3728: Time: 0.28708624839782715, Total Reward: 296.64070341769315, Q Loss: 22102.862396240234, Actor Loss: -8887.821273803711  
Episode 3729: Time: 0.16489791870117188, Total Reward: 164.7566077796229, Q Loss: 11624.389846801758, Actor Loss: -5144.901748657227  
Episode 3730: Time: 0.2093064785003662, Total Reward: 209.28146155062558, Q Loss: 18802.923736572266, Actor Loss: -6558.339096069336  
Episode 3731: Time: 0.09614062309265137, Total Reward: 91.60434640994237, Q Loss: 7455.419464111328, Actor Loss: -3025.1798553466797  
Episode 3732: Time: 0.14802789688110352, Total Reward: 146.94919992434768, Q Loss: 12234.110626220703, Actor Loss: -4397.575088500977  
Episode 3733: Time: 0.20944523811340332, Total Reward: 212.25541667294223, Q Loss: 15302.687286376953, Actor Loss: -6744.084457397461  
Episode 3734: Time: 0.25298404693603516, Total Reward: 258.10008113817054, Q Loss: 18968.5771484375, Actor Loss: -7924.335205078125  
Episode 3735: Time: 0.21851706504821777, Total Reward: 220.38349354577196, Q Loss: 18004.220611572266, Actor Loss: -6701.186447143555  
Episode 3736: Time: 0.4529094696044922, Total Reward: 473.77048284543105, Q Loss: 36230.32373046875, Actor Loss: -14260.431045532227  
Episode 3737: Time: 0.3307504653930664, Total Reward: 342.97651230371304, Q Loss: 25812.370727539062, Actor Loss: -10503.608032226562  
Episode 3738: Time: 0.2528197765350342, Total Reward: 258.2923224626095, Q Loss: 19187.473236083984, Actor Loss: -8066.570297241211  
Episode 3739: Time: 0.24354934692382812, Total Reward: 249.0150370255597, Q Loss: 19097.318267822266, Actor Loss: -7708.166946411133  
Episode 3740: Time: 0.10444521903991699, Total Reward: 100.83115425681825, Q Loss: 8415.511322021484, Actor Loss: -3394.722930908203  
Episode 3741: Time: 0.20077061653137207, Total Reward: 202.08520807335515, Q Loss: 14655.710723876953, Actor Loss: -6461.075622558594  
Episode 3742: Time: 0.13118410110473633, Total Reward: 128.68472727738234, Q Loss: 10504.119445800781, Actor Loss: -4118.963241577148

Episode 3743: Time: 0.26944661140441895, Total Reward: 278.1486014421502, Q Loss: 20850.638626098633, Actor Loss: -8559.322387695312  
Episode 3744: Time: 0.1651778221130371, Total Reward: 164.7148181007509, Q Loss: 11957.355041503906, Actor Loss: -5248.667022705078  
Episode 3745: Time: 0.31362009048461914, Total Reward: 324.49867382289364, Q Loss: 25935.73779296875, Actor Loss: -9870.32583618164  
Episode 3746: Time: 0.0698862075805664, Total Reward: 62.6651543054629, Q Loss: 5114.948471069336, Actor Loss: -2193.299285888672  
Episode 3747: Time: 0.25415611267089844, Total Reward: 258.8585581830397, Q Loss: 17927.669555664062, Actor Loss: -7814.563995361328  
Episode 3748: Time: 0.2703537940979004, Total Reward: 276.74577621023167, Q Loss: 23517.446380615234, Actor Loss: -8777.532211303711  
Episode 3749: Time: 0.08739781379699707, Total Reward: 82.30415577493649, Q Loss: 6252.482727050781, Actor Loss: -2877.8974609375  
Episode 3750: Time: 0.16661500930786133, Total Reward: 164.32313942266455, Q Loss: 14643.40478515625, Actor Loss: -5276.112258911133  
Episode 3751: Time: 0.2355661392211914, Total Reward: 240.2414440608865, Q Loss: 21532.339965820312, Actor Loss: -7537.247131347656  
Episode 3752: Time: 0.26140499114990234, Total Reward: 268.29183876183487, Q Loss: 22117.749633789062, Actor Loss: -8369.508987426758  
Episode 3753: Time: 0.2795276641845703, Total Reward: 285.17351833427693, Q Loss: 21783.67529296875, Actor Loss: -8751.818908691406  
Episode 3754: Time: 0.15773844718933105, Total Reward: 156.95753612226392, Q Loss: 13041.044311523438, Actor Loss: -5169.749588012695  
Episode 3755: Time: 0.22756671905517578, Total Reward: 229.62366324704433, Q Loss: 18919.792602539062, Actor Loss: -7321.006851196289  
Episode 3756: Time: 0.13053441047668457, Total Reward: 128.979637141363, Q Loss: 11476.23063659668, Actor Loss: -4256.520050048828  
Episode 3757: Time: 0.15702247619628906, Total Reward: 156.6608901645066, Q Loss: 13052.698364257812, Actor Loss: -5018.510955810547  
Episode 3758: Time: 0.12180471420288086, Total Reward: 118.7887201163096, Q Loss: 10328.116760253906, Actor Loss: -3827.243637084961  
Episode 3759: Time: 0.30455446243286133, Total Reward: 314.71788512577444, Q Loss: 24331.74464416504, Actor Loss: -10064.689926147461  
Episode 3760: Time: 0.11377453804016113, Total Reward: 110.17416790107542, Q Loss: 10215.404418945312, Actor Loss: -3560.299774169922  
Episode 3761: Time: 0.20486879348754883, Total Reward: 184.5679918044376, Q Loss: 14627.887084960938, Actor Loss: -5832.626434326172  
Episode 3762: Time: 0.5049412250518799, Total Reward: 433.78927366125794, Q Loss: 40268.156829833984, Actor Loss: -13180.24674987793  
Episode 3763: Time: 0.08454751968383789, Total Reward: 63.05024501429925, Q Loss: 5100.890655517578, Actor Loss: -2247.907241821289  
Episode 3764: Time: 0.31683874130249023, Total Reward: 267.86762846534145, Q Loss: 21414.35235595703, Actor Loss: -8497.551544189453  
Episode 3765: Time: 0.2215712070465088, Total Reward: 180.6968206258028, Q Loss: 14982.91244506836, Actor Loss: -5819.745178222656  
Episode 3766: Time: 0.1688854694366455, Total Reward: 138.36673344714262, Q Loss: 11799.264556884766, Actor Loss: -4426.646911621094  
Episode 3767: Time: 0.3904557228088379, Total Reward: 334.0784896698555, Q Loss: 26188.973999023438, Actor Loss: -10327.0732421875  
Episode 3768: Time: 0.7997159957885742, Total Reward: 697.3897308089417, Q Loss: 54745.079650878906, Actor Loss: -20927.450775146484  
Episode 3769: Time: 0.15793275833129883, Total Reward: 129.00452726269629, Q Loss: 12885.596069335938, Actor Loss: -4161.451309204102  
Episode 3770: Time: 0.3899707794189453, Total Reward: 331.99571033695713, Q Loss: 28418.07159423828, Actor Loss: -10502.36294555664



Episode 3771: Time: 0.13712310791015625, Total Reward: 110.03533040713587, Q Loss: 9842.031127929688, Actor Loss: -3646.329132080078  
Episode 3772: Time: 0.36916065216064453, Total Reward: 313.277181494462, Q Loss: 24653.361785888672, Actor Loss: -9568.004409790039  
Episode 3773: Time: 0.38065576553344727, Total Reward: 323.3621207713646, Q Loss: 24522.761810302734, Actor Loss: -10186.903945922852  
Episode 3774: Time: 0.3695530891418457, Total Reward: 312.6234666295771, Q Loss: 23194.90411376953, Actor Loss: -9665.707885742188  
Episode 3775: Time: 0.40108656883239746, Total Reward: 342.07801445508466, Q Loss: 32320.88168334961, Actor Loss: -10916.878860473633  
Episode 3776: Time: 0.29602670669555664, Total Reward: 246.46077891102968, Q Loss: 21374.524322509766, Actor Loss: -8034.458099365234  
Episode 3777: Time: 0.14802932739257812, Total Reward: 119.43941943646477, Q Loss: 10252.97280883789, Actor Loss: -4082.4075317382812  
Episode 3778: Time: 0.08517932891845703, Total Reward: 62.70180745472126, Q Loss: 6828.658996582031, Actor Loss: -2357.4854431152344  
Episode 3779: Time: 0.24290680885314941, Total Reward: 202.60128327955226, Q Loss: 17149.852600097656, Actor Loss: -6469.238067626953  
Episode 3780: Time: 0.21155762672424316, Total Reward: 175.57701780254502, Q Loss: 16475.599807739258, Actor Loss: -5641.196243286133  
Episode 3781: Time: 0.27486205101013184, Total Reward: 229.07810611982597, Q Loss: 19888.38638305664, Actor Loss: -7649.751449584961  
Episode 3782: Time: 0.1480259895324707, Total Reward: 119.36650356062462, Q Loss: 10983.89794921875, Actor Loss: -3876.361129760742  
Episode 3783: Time: 0.2012791633605957, Total Reward: 166.26261857673418, Q Loss: 14531.23208618164, Actor Loss: -5501.807342529297  
Episode 3784: Time: 0.2113208770751953, Total Reward: 175.2343937644382, Q Loss: 16643.233673095703, Actor Loss: -5756.923431396484  
Episode 3785: Time: 0.2641334533691406, Total Reward: 220.8669890320863, Q Loss: 17269.50131225586, Actor Loss: -7059.1727294921875  
Episode 3786: Time: 0.22200918197631836, Total Reward: 185.14165055495823, Q Loss: 15946.994598388672, Actor Loss: -5920.372833251953  
Episode 3787: Time: 0.3074374198913574, Total Reward: 255.55139465764384, Q Loss: 24792.54833984375, Actor Loss: -8378.195617675781  
Episode 3788: Time: 0.2543962001800537, Total Reward: 212.28102457835763, Q Loss: 17478.36895751953, Actor Loss: -6801.7489013671875  
Episode 3789: Time: 0.22225189208984375, Total Reward: 185.13119987250127, Q Loss: 17641.086303710938, Actor Loss: -6315.226623535156  
Episode 3790: Time: 0.13736414909362793, Total Reward: 109.62935752494481, Q Loss: 10110.072692871094, Actor Loss: -3875.2986755371094  
Episode 3791: Time: 0.560093879699707, Total Reward: 481.80802718455675, Q Loss: 40447.32369995117, Actor Loss: -15294.40071105957  
Episode 3792: Time: 0.3592967987060547, Total Reward: 305.7022476585266, Q Loss: 26103.119842529297, Actor Loss: -10113.571166992188  
Episode 3793: Time: 0.3174314498901367, Total Reward: 267.92733418643616, Q Loss: 20875.21710205078, Actor Loss: -8542.350677490234  
Episode 3794: Time: 0.30609917640686035, Total Reward: 257.0938468072882, Q Loss: 23083.235382080078, Actor Loss: -8396.081726074219  
Episode 3795: Time: 0.20045709609985352, Total Reward: 165.4986531673151, Q Loss: 18144.049591064453, Actor Loss: -5339.240753173828  
Episode 3796: Time: 0.21209239959716797, Total Reward: 173.72854187615903, Q Loss: 13785.988311767578, Actor Loss: -5652.746765136719  
Episode 3797: Time: 0.49742650985717773, Total Reward: 427.28914316671086, Q Loss: 33529.69369506836, Actor Loss: -13498.937606811523  
Episode 3798: Time: 0.4120340347290039, Total Reward: 351.2378380917002, Q Loss: 31793.125610351562, Actor Loss: -11157.653579711914

Episode 3799: Time: 0.39070844650268555, Total Reward: 333.9824727512853, Q Loss: 31008.854370117188, Actor Loss: -10702.151962280273  
Validation Mean: 451.4941615517754, Validation Std: 93.14084384369403  
saving model  
Episode 3800: Time: 0.22393083572387695, Total Reward: 184.316543379946, Q Loss: 16688.14141845703, Actor Loss: -6177.048233032227  
Episode 3801: Time: 0.3488321304321289, Total Reward: 296.0268926475827, Q Loss: 25992.563858032227, Actor Loss: -9421.996841430664  
Episode 3802: Time: 0.10581064224243164, Total Reward: 81.84148408787708, Q Loss: 9403.920593261719, Actor Loss: -2979.5888671875  
Episode 3803: Time: 0.4752929210662842, Total Reward: 408.7304432206761, Q Loss: 35884.14047241211, Actor Loss: -13025.440628051758  
Episode 3804: Time: 0.4018113613128662, Total Reward: 343.8757265666964, Q Loss: 35552.159240722656, Actor Loss: -11053.085693359375  
Episode 3805: Time: 0.09555959701538086, Total Reward: 73.0624654868757, Q Loss: 7223.040924072266, Actor Loss: -2582.7064208984375  
Episode 3806: Time: 0.26450300216674805, Total Reward: 221.51714281899615, Q Loss: 20594.771362304688, Actor Loss: -7397.316253662109  
Episode 3807: Time: 0.23280739784240723, Total Reward: 193.98759044285495, Q Loss: 19956.83172607422, Actor Loss: -6513.031036376953  
Episode 3808: Time: 0.1583249568939209, Total Reward: 128.73109846585234, Q Loss: 10569.118774414062, Actor Loss: -4313.202056884766  
Episode 3809: Time: 0.18003129959106445, Total Reward: 147.19877815125665, Q Loss: 12728.420623779297, Actor Loss: -4919.987503051758  
Episode 3810: Time: 0.38063669204711914, Total Reward: 324.5961928608195, Q Loss: 30618.35531616211, Actor Loss: -10486.926712036133  
Episode 3811: Time: 0.23281359672546387, Total Reward: 194.4776711926744, Q Loss: 15561.267944335938, Actor Loss: -6548.520111083984  
Episode 3812: Time: 0.32787370681762695, Total Reward: 277.2409313741524, Q Loss: 24112.148895263672, Actor Loss: -9060.670272827148  
Episode 3813: Time: 0.28536534309387207, Total Reward: 240.33427269405692, Q Loss: 23035.82781982422, Actor Loss: -8108.4486083984375  
Episode 3814: Time: 0.6020472049713135, Total Reward: 518.2095987837107, Q Loss: 44389.73907470703, Actor Loss: -16653.82290649414  
Episode 3815: Time: 0.29618263244628906, Total Reward: 248.94424159246125, Q Loss: 18484.256256103516, Actor Loss: -7937.7989501953125  
Episode 3816: Time: 0.5279648303985596, Total Reward: 454.1963950904875, Q Loss: 40893.88215637207, Actor Loss: -14443.228546142578  
Episode 3817: Time: 0.14776372909545898, Total Reward: 118.82003296543972, Q Loss: 10885.422729492188, Actor Loss: -4096.799697875977  
Episode 3818: Time: 0.12720584869384766, Total Reward: 100.67613672929076, Q Loss: 10364.270446777344, Actor Loss: -3518.59814453125  
Episode 3819: Time: 0.29611706733703613, Total Reward: 248.43861283789514, Q Loss: 24126.790130615234, Actor Loss: -8195.493957519531  
Episode 3820: Time: 0.44312047958374023, Total Reward: 380.310329309627, Q Loss: 33876.55358886719, Actor Loss: -12134.742767333984  
Episode 3821: Time: 0.285977840423584, Total Reward: 238.2282126459936, Q Loss: 25705.886444091797, Actor Loss: -7907.970367431641  
Episode 3822: Time: 0.3173332214355469, Total Reward: 267.0694632435434, Q Loss: 28230.93829345703, Actor Loss: -9097.921173095703  
Episode 3823: Time: 0.14825201034545898, Total Reward: 119.78322989528262, Q Loss: 11220.14404296875, Actor Loss: -4166.114105224609  
Episode 3824: Time: 0.24355053901672363, Total Reward: 203.06222498976192, Q Loss: 20393.114227294922, Actor Loss: -6934.795379638672  
Episode 3825: Time: 0.1479787826538086, Total Reward: 119.02978472838018, Q Loss: 11019.673095703125, Actor Loss: -4072.9468383789062

Episode 3826: Time: 0.6445374488830566, Total Reward: 557.2572752960594, Q Loss: 52056.712493896484, Actor Loss: -17873.90802001953  
Episode 3827: Time: 0.25389742851257324, Total Reward: 212.46850883495483, Q Loss: 19517.016571044922, Actor Loss: -6980.416290283203  
Episode 3828: Time: 0.495086669921875, Total Reward: 425.69816535572807, Q Loss: 36999.93240356445, Actor Loss: -13918.566345214844  
Episode 3829: Time: 0.35895419120788574, Total Reward: 305.4636879532578, Q Loss: 28007.995574951172, Actor Loss: -9858.972412109375  
Episode 3830: Time: 0.2851855754852295, Total Reward: 238.9469332934648, Q Loss: 23632.41290283203, Actor Loss: -8012.8367919921875  
Episode 3831: Time: 0.2006380558013916, Total Reward: 166.29626576301993, Q Loss: 16381.322692871094, Actor Loss: -5647.439910888672  
Episode 3832: Time: 0.20070815086364746, Total Reward: 166.34221545490266, Q Loss: 17186.442626953125, Actor Loss: -5807.371032714844  
Episode 3833: Time: 0.31642627716064453, Total Reward: 268.60808559130743, Q Loss: 29898.67950439453, Actor Loss: -8696.511352539062  
Episode 3834: Time: 0.2330765724182129, Total Reward: 191.53001519058844, Q Loss: 20402.452026367188, Actor Loss: -6713.961151123047  
Episode 3835: Time: 0.5170905590057373, Total Reward: 445.09506354836424, Q Loss: 43604.62533569336, Actor Loss: -14475.044464111328  
Episode 3836: Time: 0.2958261966705322, Total Reward: 249.80429553174235, Q Loss: 22652.264862060547, Actor Loss: -7976.48225402832  
Episode 3837: Time: 0.6008563041687012, Total Reward: 520.0541438688921, Q Loss: 48455.77770996094, Actor Loss: -17190.16993713379  
Episode 3838: Time: 0.3592343330383301, Total Reward: 305.62119144328835, Q Loss: 33054.98498535156, Actor Loss: -10118.644500732422  
Episode 3839: Time: 0.4320244789123535, Total Reward: 370.95720822486066, Q Loss: 39566.607666015625, Actor Loss: -12702.516006469727  
Episode 3840: Time: 0.07413506507873535, Total Reward: 53.89824117322102, Q Loss: 5974.665771484375, Actor Loss: -2108.1109619140625  
Episode 3841: Time: 0.13797307014465332, Total Reward: 109.83498548165413, Q Loss: 9651.915130615234, Actor Loss: -3959.674591064453  
Episode 3842: Time: 0.32726311683654785, Total Reward: 277.42894497990767, Q Loss: 28435.205810546875, Actor Loss: -9420.892120361328  
Episode 3843: Time: 0.22211241722106934, Total Reward: 184.51853207808284, Q Loss: 19062.49154663086, Actor Loss: -6388.740386962891  
Episode 3844: Time: 0.12671995162963867, Total Reward: 100.3843307591791, Q Loss: 8310.346954345703, Actor Loss: -3705.9720764160156  
Episode 3845: Time: 0.10627555847167969, Total Reward: 82.48680924840397, Q Loss: 9422.17514038086, Actor Loss: -3093.483154296875  
Episode 3846: Time: 0.19057917594909668, Total Reward: 156.75940284351057, Q Loss: 19088.793670654297, Actor Loss: -5560.223724365234  
Episode 3847: Time: 0.2760164737701416, Total Reward: 229.25037734306125, Q Loss: 21681.456268310547, Actor Loss: -7734.863464355469  
Episode 3848: Time: 0.6552567481994629, Total Reward: 564.7296412974245, Q Loss: 51053.70248413086, Actor Loss: -18786.28776550293  
Episode 3849: Time: 0.17947626113891602, Total Reward: 147.32181440298672, Q Loss: 13339.621490478516, Actor Loss: -5029.541595458984  
Episode 3850: Time: 0.2011866569519043, Total Reward: 165.036916855829, Q Loss: 20897.15835571289, Actor Loss: -5725.399322509766  
Episode 3851: Time: 0.24352622032165527, Total Reward: 203.19471024571519, Q Loss: 21883.571990966797, Actor Loss: -7012.423400878906  
Episode 3852: Time: 0.25386953353881836, Total Reward: 212.67032238677618, Q Loss: 21900.99575805664, Actor Loss: -7179.133758544922  
Episode 3853: Time: 0.275057315826416, Total Reward: 228.19545994898573, Q Loss: 22121.92446899414, Actor Loss: -7832.7017822265625

Episode 3854: Time: 0.49666857719421387, Total Reward: 427.720702217975, Q Loss: 38774.427963256836, Actor Loss: -14064.942306518555  
Episode 3855: Time: 0.2746133804321289, Total Reward: 230.74073642292532, Q Loss: 20196.998443603516, Actor Loss: -7854.971527099609  
Episode 3856: Time: 0.15837907791137695, Total Reward: 128.4766473237977, Q Loss: 13462.677062988281, Actor Loss: -4442.012542724609  
Episode 3857: Time: 0.44318485260009766, Total Reward: 379.65983512011815, Q Loss: 39625.554779052734, Actor Loss: -12684.92953491211  
Episode 3858: Time: 0.34758710861206055, Total Reward: 296.46602185537677, Q Loss: 26328.819213867188, Actor Loss: -10084.299880981445  
Episode 3859: Time: 0.4216444492340088, Total Reward: 361.37770000148146, Q Loss: 37252.005767822266, Actor Loss: -12708.462646484375  
Episode 3860: Time: 0.2109365463256836, Total Reward: 172.69479020055692, Q Loss: 17042.110412597656, Actor Loss: -6079.859436035156  
Episode 3861: Time: 0.14780759811401367, Total Reward: 117.95124170467032, Q Loss: 11914.546905517578, Actor Loss: -4256.106307983398  
Episode 3862: Time: 0.6009578704833984, Total Reward: 519.3335876850738, Q Loss: 58033.902923583984, Actor Loss: -17362.33056640625  
Episode 3863: Time: 0.3166837692260742, Total Reward: 268.10783349224465, Q Loss: 23566.505126953125, Actor Loss: -9084.646759033203  
Episode 3864: Time: 0.1055912971496582, Total Reward: 82.35447039100428, Q Loss: 7191.891754150391, Actor Loss: -3014.452850341797  
Episode 3865: Time: 0.17970705032348633, Total Reward: 147.2573618037272, Q Loss: 18999.177612304688, Actor Loss: -5267.884704589844  
Episode 3866: Time: 0.40137672424316406, Total Reward: 341.51878719040536, Q Loss: 35580.20559692383, Actor Loss: -11832.929443359375  
Episode 3867: Time: 0.36965107917785645, Total Reward: 314.99193203228594, Q Loss: 34018.88528442383, Actor Loss: -10770.247787475586  
Episode 3868: Time: 0.2854907512664795, Total Reward: 238.99964225584287, Q Loss: 21777.939514160156, Actor Loss: -8312.874877929688  
Episode 3869: Time: 0.3273200988769531, Total Reward: 276.48205198541353, Q Loss: 28429.925262451172, Actor Loss: -9460.608154296875  
Episode 3870: Time: 0.13735485076904297, Total Reward: 110.26290620382689, Q Loss: 14515.964324951172, Actor Loss: -3998.316680908203  
Episode 3871: Time: 0.32745933532714844, Total Reward: 276.5357646989909, Q Loss: 26731.678680419922, Actor Loss: -9497.346496582031  
Episode 3872: Time: 0.25384044647216797, Total Reward: 212.03298309006948, Q Loss: 21747.584045410156, Actor Loss: -7673.164413452148  
Episode 3873: Time: 0.1374819278717041, Total Reward: 109.45485246580594, Q Loss: 11993.61996459961, Actor Loss: -4231.067687988281  
Episode 3874: Time: 1.433821678161621, Total Reward: 1255.1063008459107, Q Loss: 124008.31552124023, Actor Loss: -41843.93405151367  
Episode 3875: Time: 0.38974714279174805, Total Reward: 330.8914831349878, Q Loss: 32433.062713623047, Actor Loss: -11716.457550048828  
Episode 3876: Time: 0.3482527732849121, Total Reward: 294.5439853072783, Q Loss: 29061.70492553711, Actor Loss: -10256.469955444336  
Episode 3877: Time: 0.33858180046081543, Total Reward: 287.1913306795503, Q Loss: 32228.748474121094, Actor Loss: -9800.687713623047  
Episode 3878: Time: 0.46408581733703613, Total Reward: 396.773661626924, Q Loss: 43250.39483642578, Actor Loss: -13654.156967163086  
Episode 3879: Time: 0.35927653312683105, Total Reward: 306.2755628560758, Q Loss: 30244.218963623047, Actor Loss: -10359.340148925781  
Episode 3880: Time: 0.09532666206359863, Total Reward: 72.14128751342372, Q Loss: 9818.35873413086, Actor Loss: -2734.5126342773438  
Episode 3881: Time: 0.33802223205566406, Total Reward: 285.74819735703454, Q Loss: 35603.396728515625, Actor Loss: -10232.4169921875

Episode 3882: Time: 0.33840227127075195, Total Reward: 286.24618988143925, Q Loss: 39348.131774902344, Actor Loss: -9869.24560546875  
Episode 3883: Time: 0.4125175476074219, Total Reward: 350.89609848888887, Q Loss: 35028.98681640625, Actor Loss: -12088.642395019531  
Episode 3884: Time: 0.5805389881134033, Total Reward: 500.6896013073527, Q Loss: 56964.36544799805, Actor Loss: -17643.603393554688  
Episode 3885: Time: 1.1188483238220215, Total Reward: 975.9489216243038, Q Loss: 99427.05850219727, Actor Loss: -33343.37245178223  
Episode 3886: Time: 0.2965071201324463, Total Reward: 249.72271978200615, Q Loss: 23856.680419921875, Actor Loss: -8924.985534667969  
Episode 3887: Time: 0.1480112075805664, Total Reward: 119.34295643123548, Q Loss: 15101.088317871094, Actor Loss: -4441.028106689453  
Episode 3888: Time: 0.29596638679504395, Total Reward: 250.27190523177208, Q Loss: 25591.642028808594, Actor Loss: -8772.183288574219  
Episode 3889: Time: 0.39266204833984375, Total Reward: 333.6820014493513, Q Loss: 34412.43634033203, Actor Loss: -11857.520050048828  
Episode 3890: Time: 0.2655673027038574, Total Reward: 221.2076993800595, Q Loss: 24125.67901611328, Actor Loss: -7947.187759399414  
Episode 3891: Time: 0.11652326583862305, Total Reward: 91.41861459573971, Q Loss: 14011.809967041016, Actor Loss: -3301.707763671875  
Episode 3892: Time: 0.30637502670288086, Total Reward: 259.41117148733014, Q Loss: 28428.61981201172, Actor Loss: -9271.593780517578  
Episode 3893: Time: 0.2854480743408203, Total Reward: 239.12903550853835, Q Loss: 27442.859588623047, Actor Loss: -8318.385726928711  
Episode 3894: Time: 0.23262906074523926, Total Reward: 193.69725557561756, Q Loss: 24452.05694580078, Actor Loss: -7137.4783935546875  
Episode 3895: Time: 0.3904416561126709, Total Reward: 332.7908779297698, Q Loss: 33230.80407714844, Actor Loss: -12252.274139404297  
Episode 3896: Time: 0.14807415008544922, Total Reward: 119.10828947377841, Q Loss: 13623.396911621094, Actor Loss: -4355.880065917969  
Episode 3897: Time: 0.2747156620025635, Total Reward: 229.6352100020921, Q Loss: 24592.204711914062, Actor Loss: -8308.582611083984  
Episode 3898: Time: 0.2536044120788574, Total Reward: 210.77707274628557, Q Loss: 22678.151489257812, Actor Loss: -7532.971038818359  
Episode 3899: Time: 0.2327589988708496, Total Reward: 192.11136067138992, Q Loss: 25964.228515625, Actor Loss: -7202.974639892578  
Validation Mean: 501.73497308052555, Validation Std: 81.50011340690546  
saving model  
Episode 3900: Time: 0.17009615898132324, Total Reward: 137.56799343893297, Q Loss: 14077.915222167969, Actor Loss: -5159.846038818359  
Episode 3901: Time: 0.28613853454589844, Total Reward: 238.2281745432973, Q Loss: 26979.174072265625, Actor Loss: -8596.326293945312  
Episode 3902: Time: 0.3486604690551758, Total Reward: 296.0737994577784, Q Loss: 30660.56719970703, Actor Loss: -10653.90771484375  
Episode 3903: Time: 0.25404977798461914, Total Reward: 212.17634659080662, Q Loss: 25433.82144165039, Actor Loss: -7632.511123657227  
Episode 3904: Time: 0.2847161293029785, Total Reward: 239.635680428208, Q Loss: 25266.397216796875, Actor Loss: -8605.403717041016  
Episode 3905: Time: 0.24282193183898926, Total Reward: 203.2038488173384, Q Loss: 23566.780334472656, Actor Loss: -7415.226623535156  
Episode 3906: Time: 0.28510260581970215, Total Reward: 240.32434088507168, Q Loss: 29005.704132080078, Actor Loss: -8519.08544921875  
Episode 3907: Time: 0.1791534423828125, Total Reward: 147.71994071789578, Q Loss: 18496.33740234375, Actor Loss: -5261.985900878906  
Episode 3908: Time: 0.17991971969604492, Total Reward: 147.3353492022549, Q Loss: 23196.718017578125, Actor Loss: -5475.130096435547

Episode 3909: Time: 0.17960095405578613, Total Reward: 146.41444515702491, Q Loss: 14830.992736816406, Actor Loss: -5526.0595703125  
Episode 3910: Time: 0.23291969299316406, Total Reward: 193.05428281191408, Q Loss: 20410.723999023438, Actor Loss: -7124.736480712891  
Episode 3911: Time: 0.2961428165435791, Total Reward: 249.29996617394758, Q Loss: 24726.73745727539, Actor Loss: -9077.25064086914  
Episode 3912: Time: 0.3486800193786621, Total Reward: 296.2142671889108, Q Loss: 31515.358276367188, Actor Loss: -10834.38607788086  
Episode 3913: Time: 0.5385982990264893, Total Reward: 462.9759278989077, Q Loss: 50829.466064453125, Actor Loss: -16088.647430419922  
Episode 3914: Time: 0.3062403202056885, Total Reward: 258.24190171969695, Q Loss: 26744.67724609375, Actor Loss: -9362.47607421875  
Episode 3915: Time: 0.28554821014404297, Total Reward: 238.77577947318, Q Loss: 25720.956420898438, Actor Loss: -8626.71322631836  
Episode 3916: Time: 0.23241353034973145, Total Reward: 191.7917350430491, Q Loss: 20687.62469482422, Actor Loss: -7078.858825683594  
Episode 3917: Time: 0.2960076332092285, Total Reward: 247.39154578478016, Q Loss: 27882.93670654297, Actor Loss: -8927.157257080078  
Episode 3918: Time: 0.1479816436767578, Total Reward: 119.97203438971651, Q Loss: 13119.873077392578, Actor Loss: -4669.818328857422  
Episode 3919: Time: 0.11684751510620117, Total Reward: 91.4000970935138, Q Loss: 12297.856811523438, Actor Loss: -3661.068115234375  
Episode 3920: Time: 0.2858700752258301, Total Reward: 239.16543828405938, Q Loss: 24426.006927490234, Actor Loss: -8555.908203125  
Episode 3921: Time: 0.22197771072387695, Total Reward: 185.26378565484944, Q Loss: 23160.47933959961, Actor Loss: -6693.876892089844  
Episode 3922: Time: 0.15848374366760254, Total Reward: 129.04190556940512, Q Loss: 18325.567443847656, Actor Loss: -4950.145446777344  
Episode 3923: Time: 0.2537038326263428, Total Reward: 212.24962567232282, Q Loss: 24659.826721191406, Actor Loss: -7739.905670166016  
Episode 3924: Time: 0.29577040672302246, Total Reward: 249.99327736867863, Q Loss: 32904.03155517578, Actor Loss: -8997.321960449219  
Episode 3925: Time: 0.2638378143310547, Total Reward: 217.93732040425633, Q Loss: 23756.96127319336, Actor Loss: -8113.768646240234  
Episode 3926: Time: 0.31654858589172363, Total Reward: 267.1420449927885, Q Loss: 28651.643981933594, Actor Loss: -9738.580154418945  
Episode 3927: Time: 0.1797935962677002, Total Reward: 146.30067794860457, Q Loss: 14725.167785644531, Actor Loss: -5400.281555175781  
Episode 3928: Time: 0.23301219940185547, Total Reward: 191.70270993302375, Q Loss: 20931.513641357422, Actor Loss: -6933.157501220703  
Episode 3929: Time: 0.8544213771820068, Total Reward: 743.5354745806075, Q Loss: 95784.76821899414, Actor Loss: -26315.024047851562  
Episode 3930: Time: 0.5807678699493408, Total Reward: 501.80722783881697, Q Loss: 60639.18673706055, Actor Loss: -17688.83204650879  
Episode 3931: Time: 0.1056668758392334, Total Reward: 81.96971889583244, Q Loss: 9964.479064941406, Actor Loss: -3159.5079956054688  
Episode 3932: Time: 0.16932129859924316, Total Reward: 137.18091725963976, Q Loss: 19807.76593017578, Actor Loss: -5151.138977050781  
Episode 3933: Time: 0.2117757797241211, Total Reward: 175.25183501354726, Q Loss: 22157.573944091797, Actor Loss: -6643.9935302734375  
Episode 3934: Time: 0.23244214057922363, Total Reward: 194.29133520325237, Q Loss: 26994.735473632812, Actor Loss: -7034.871429443359  
Episode 3935: Time: 0.3166632652282715, Total Reward: 265.96768044119557, Q Loss: 35232.586364746094, Actor Loss: -9657.44775390625  
Episode 3936: Time: 0.11652231216430664, Total Reward: 91.45434288994791, Q Loss: 9868.281524658203, Actor Loss: -3561.2691955566406

Episode 3937: Time: 0.3071894645690918, Total Reward: 257.90391391881195, Q Loss: 31906.32470703125, Actor Loss: -9362.386535644531  
Episode 3938: Time: 0.1483449935913086, Total Reward: 119.76874539389534, Q Loss: 14707.530395507812, Actor Loss: -4458.62190246582  
Episode 3939: Time: 0.3697397708892822, Total Reward: 314.7070491962129, Q Loss: 40982.815490722656, Actor Loss: -11559.034545898438  
Episode 3940: Time: 0.296372652053833, Total Reward: 248.80301214743855, Q Loss: 32859.95184326172, Actor Loss: -9364.816772460938  
Episode 3941: Time: 0.6752026081085205, Total Reward: 585.5688105859128, Q Loss: 68284.54113769531, Actor Loss: -20980.849349975586  
Episode 3942: Time: 0.3273320198059082, Total Reward: 277.6447140456104, Q Loss: 34450.554931640625, Actor Loss: -10206.218811035156  
Episode 3943: Time: 0.3493311405181885, Total Reward: 295.9488211789927, Q Loss: 37829.059631347656, Actor Loss: -10701.389556884766  
Episode 3944: Time: 0.2751491069793701, Total Reward: 231.33702118797407, Q Loss: 30317.802795410156, Actor Loss: -8682.679748535156  
Episode 3945: Time: 0.2225799560546875, Total Reward: 182.75653662164123, Q Loss: 25335.199768066406, Actor Loss: -6765.331024169922  
Episode 3946: Time: 0.48650097846984863, Total Reward: 417.7950408838903, Q Loss: 49348.828063964844, Actor Loss: -15187.265426635742  
Episode 3947: Time: 0.1590726375579834, Total Reward: 128.64617017491418, Q Loss: 15909.948120117188, Actor Loss: -5066.47265625  
Episode 3948: Time: 0.4860243797302246, Total Reward: 416.07992398957504, Q Loss: 44357.305419921875, Actor Loss: -15282.319061279297  
Episode 3949: Time: 0.12707185745239258, Total Reward: 100.12005444906934, Q Loss: 14024.213775634766, Actor Loss: -3998.383819580078  
Episode 3950: Time: 0.09575653076171875, Total Reward: 72.6385232863832, Q Loss: 10487.191040039062, Actor Loss: -3002.16015625  
Episode 3951: Time: 0.2117919921875, Total Reward: 174.3329106458549, Q Loss: 20589.09146118164, Actor Loss: -6580.1201171875  
Episode 3952: Time: 0.19014358520507812, Total Reward: 156.06875182408763, Q Loss: 14472.91275024414, Actor Loss: -5732.227935791016  
Episode 3953: Time: 0.09593725204467773, Total Reward: 72.11021302080273, Q Loss: 9124.471374511719, Actor Loss: -3042.6798095703125  
Episode 3954: Time: 0.780787467956543, Total Reward: 678.525928345568, Q Loss: 77191.31506347656, Actor Loss: -24497.15805053711  
Episode 3955: Time: 0.10592007637023926, Total Reward: 82.32727824349323, Q Loss: 11115.211059570312, Actor Loss: -3149.0489196777344  
Episode 3956: Time: 0.37002062797546387, Total Reward: 314.53806374739537, Q Loss: 43259.125915527344, Actor Loss: -11942.750457763672  
Episode 3957: Time: 0.30658602714538574, Total Reward: 258.3539023737822, Q Loss: 34002.74768066406, Actor Loss: -9573.458923339844  
Episode 3958: Time: 0.454754114151001, Total Reward: 389.1600243456739, Q Loss: 47809.47561645508, Actor Loss: -14333.333312988281  
Episode 3959: Time: 0.5494639873504639, Total Reward: 472.85613814912267, Q Loss: 60833.04443359375, Actor Loss: -17631.643966674805  
Episode 3960: Time: 0.22254109382629395, Total Reward: 184.6102715670385, Q Loss: 25762.65789794922, Actor Loss: -7058.473449707031  
Episode 3961: Time: 0.10602760314941406, Total Reward: 82.25223122665363, Q Loss: 12488.714172363281, Actor Loss: -3321.0624389648438  
Episode 3962: Time: 0.42320966720581055, Total Reward: 360.50472206866283, Q Loss: 48783.25866699219, Actor Loss: -13708.420959472656  
Episode 3963: Time: 0.14809060096740723, Total Reward: 119.4986260205526, Q Loss: 17744.758270263672, Actor Loss: -4687.532760620117  
Episode 3964: Time: 0.1273801326751709, Total Reward: 100.61203987014791, Q Loss: 12803.590789794922, Actor Loss: -3877.23583984375

Episode 3965: Time: 0.1586461067199707, Total Reward: 128.91233608494383, Q Loss: 14672.885437011719, Actor Loss: -5020.350982666016  
Episode 3966: Time: 0.5277302265167236, Total Reward: 452.2778695762166, Q Loss: 53151.67333984375, Actor Loss: -16906.696578979492  
Episode 3967: Time: 0.3169405460357666, Total Reward: 266.9015947188083, Q Loss: 31582.79995727539, Actor Loss: -10235.595886230469  
Episode 3968: Time: 0.3909010887145996, Total Reward: 330.1140559626102, Q Loss: 39047.572265625, Actor Loss: -12574.379455566406  
Episode 3969: Time: 0.2854783535003662, Total Reward: 238.56186818148566, Q Loss: 30769.51531982422, Actor Loss: -9139.012023925781  
Episode 3970: Time: 0.3385021686553955, Total Reward: 286.97339601245847, Q Loss: 34421.28366088867, Actor Loss: -10798.606750488281  
Episode 3971: Time: 0.4637770652770996, Total Reward: 399.0479725493238, Q Loss: 51328.1125793457, Actor Loss: -14636.169036865234  
Episode 3972: Time: 0.2645890712738037, Total Reward: 220.46756619189432, Q Loss: 28986.96014404297, Actor Loss: -8734.079986572266  
Episode 3973: Time: 0.19005846977233887, Total Reward: 156.47744208929973, Q Loss: 19073.036376953125, Actor Loss: -6018.676239013672  
Episode 3974: Time: 0.1483621597290039, Total Reward: 119.34772285928132, Q Loss: 16366.054748535156, Actor Loss: -4882.061676025391  
Episode 3975: Time: 0.31702423095703125, Total Reward: 268.46136091339224, Q Loss: 34066.345642089844, Actor Loss: -10333.361877441406  
Episode 3976: Time: 0.211561918258667, Total Reward: 175.46947349155988, Q Loss: 18831.05355834961, Actor Loss: -6812.898651123047  
Episode 3977: Time: 0.4651973247528076, Total Reward: 398.07113135404876, Q Loss: 47991.460510253906, Actor Loss: -14925.629699707031  
Episode 3978: Time: 0.2855994701385498, Total Reward: 241.02749305055175, Q Loss: 29550.435943603516, Actor Loss: -9260.434692382812  
Episode 3979: Time: 0.15870022773742676, Total Reward: 128.6489649982819, Q Loss: 15449.080963134766, Actor Loss: -4942.8277587890625  
Episode 3980: Time: 0.29587721824645996, Total Reward: 248.87760767512057, Q Loss: 32700.64324951172, Actor Loss: -9285.49380493164  
Episode 3981: Time: 0.20164704322814941, Total Reward: 166.08979187930896, Q Loss: 23469.822875976562, Actor Loss: -6462.452606201172  
Episode 3982: Time: 0.328136682510376, Total Reward: 277.4438522533616, Q Loss: 39532.615478515625, Actor Loss: -10689.995727539062  
Episode 3983: Time: 0.26480770111083984, Total Reward: 221.91636681147503, Q Loss: 29444.899932861328, Actor Loss: -8184.414825439453  
Episode 3984: Time: 0.3064002990722656, Total Reward: 258.5308758964469, Q Loss: 35735.13888549805, Actor Loss: -9559.455261230469  
Episode 3985: Time: 0.22176170349121094, Total Reward: 183.10939240533713, Q Loss: 24504.42202758789, Actor Loss: -7058.649963378906  
Episode 3986: Time: 0.14866328239440918, Total Reward: 119.32118864644053, Q Loss: 14558.992797851562, Actor Loss: -4715.546722412109  
Episode 3987: Time: 0.23266291618347168, Total Reward: 192.79715070944997, Q Loss: 24398.890167236328, Actor Loss: -7481.573425292969  
Episode 3988: Time: 0.24415922164916992, Total Reward: 203.34380617254163, Q Loss: 28094.099609375, Actor Loss: -8026.171325683594  
Episode 3989: Time: 0.32964539527893066, Total Reward: 274.93948912420365, Q Loss: 31317.318115234375, Actor Loss: -10538.396026611328  
Episode 3990: Time: 0.2546086311340332, Total Reward: 210.047353295672, Q Loss: 25693.837493896484, Actor Loss: -7979.221618652344  
Episode 3991: Time: 0.2445058822631836, Total Reward: 203.4593772784641, Q Loss: 30396.525939941406, Actor Loss: -7981.527679443359  
Episode 3992: Time: 0.29714226722717285, Total Reward: 248.6094714603635, Q Loss: 35618.83181762695, Actor Loss: -9566.61196899414



Episode 3993: Time: 0.4340078830718994, Total Reward: 370.85275128313333, Q Loss: 44652.1142578125, Actor Loss: -13904.41162109375  
Episode 3994: Time: 0.27530455589294434, Total Reward: 230.09614587834633, Q Loss: 29046.463806152344, Actor Loss: -8832.777862548828  
Episode 3995: Time: 0.179595947265625, Total Reward: 147.46909404410425, Q Loss: 16694.40301513672, Actor Loss: -5822.891906738281  
Episode 3996: Time: 0.1696760654449463, Total Reward: 138.22569529263853, Q Loss: 20545.975036621094, Actor Loss: -5541.444763183594  
Episode 3997: Time: 0.21197986602783203, Total Reward: 174.97294626047216, Q Loss: 22259.91748046875, Actor Loss: -7056.881317138672  
Episode 3998: Time: 0.16946148872375488, Total Reward: 137.49307164170415, Q Loss: 19553.64727783203, Actor Loss: -5677.414215087891  
Episode 3999: Time: 0.12751197814941406, Total Reward: 100.76228869469831, Q Loss: 12805.18002319336, Actor Loss: -4038.604034423828  
Validation Mean: 500.66037100313565, Validation Std: 85.25244016894577  
saving model  
Episode 4000: Time: 0.44537830352783203, Total Reward: 378.5298962149952, Q Loss: 53388.05676269531, Actor Loss: -14576.638305664062  
Episode 4001: Time: 0.561272144317627, Total Reward: 481.6023230049979, Q Loss: 55882.17248535156, Actor Loss: -18108.281661987305  
Episode 4002: Time: 0.44413018226623535, Total Reward: 380.35498075032535, Q Loss: 53598.66632080078, Actor Loss: -14575.401153564453  
Episode 4003: Time: 0.13742399215698242, Total Reward: 110.4761185548052, Q Loss: 19257.73046875, Actor Loss: -4504.267547607422  
Episode 4004: Time: 0.30712175369262695, Total Reward: 258.67105693730036, Q Loss: 33125.89862060547, Actor Loss: -10064.068542480469  
Episode 4005: Time: 0.3923976421356201, Total Reward: 332.37022443558953, Q Loss: 44865.62545776367, Actor Loss: -12921.220230102539  
Episode 4006: Time: 0.15924906730651855, Total Reward: 128.44681264113, Q Loss: 19309.630767822266, Actor Loss: -5222.0965576171875  
Episode 4007: Time: 0.561246395111084, Total Reward: 482.60446567259174, Q Loss: 64598.757720947266, Actor Loss: -18022.775421142578  
Episode 4008: Time: 0.6241641044616699, Total Reward: 538.0363842843694, Q Loss: 66178.33056640625, Actor Loss: -20435.27850341797  
Episode 4009: Time: 0.24414348602294922, Total Reward: 203.06289001199556, Q Loss: 28912.901916503906, Actor Loss: -7967.094940185547  
Episode 4010: Time: 0.26508378982543945, Total Reward: 220.69810843155201, Q Loss: 28676.79669189453, Actor Loss: -8986.078308105469  
Episode 4011: Time: 0.28625011444091797, Total Reward: 239.37994244579536, Q Loss: 33552.333435058594, Actor Loss: -9460.654022216797  
Episode 4012: Time: 0.12766408920288086, Total Reward: 100.7051243313671, Q Loss: 16417.828247070312, Actor Loss: -4196.1597900390625  
Episode 4013: Time: 0.26491594314575195, Total Reward: 222.10079968152812, Q Loss: 26943.505004882812, Actor Loss: -8493.766479492188  
Episode 4014: Time: 0.25486040115356445, Total Reward: 210.82456194663152, Q Loss: 30412.741821289062, Actor Loss: -8564.105194091797  
Episode 4015: Time: 0.3074643611907959, Total Reward: 258.2161104305189, Q Loss: 37849.87939453125, Actor Loss: -10055.82388305664  
Episode 4016: Time: 0.13785386085510254, Total Reward: 110.13487250065619, Q Loss: 15373.998046875, Actor Loss: -4504.771942138672  
Episode 4017: Time: 0.20163512229919434, Total Reward: 165.77075393679306, Q Loss: 25249.21990966797, Actor Loss: -6539.483673095703  
Episode 4018: Time: 0.7932817935943604, Total Reward: 685.2409270449851, Q Loss: 89678.95687866211, Actor Loss: -26527.74755859375  
Episode 4019: Time: 0.21241164207458496, Total Reward: 175.73954830142674, Q Loss: 25201.117584228516, Actor Loss: -7085.220230102539

Episode 4020: Time: 0.3499281406402588, Total Reward: 296.57172506515747, Q Loss: 42007.72790527344, Actor Loss: -11541.534606933594  
Episode 4021: Time: 0.27587103843688965, Total Reward: 230.4165035758017, Q Loss: 31800.346313476562, Actor Loss: -9336.763610839844  
Episode 4022: Time: 0.2446730136871338, Total Reward: 201.88916423564402, Q Loss: 28292.837188720703, Actor Loss: -8150.3106689453125  
Episode 4023: Time: 0.4451780319213867, Total Reward: 377.7296977717253, Q Loss: 54638.21307373047, Actor Loss: -14580.996063232422  
Episode 4024: Time: 0.5815157890319824, Total Reward: 501.1098310784461, Q Loss: 70753.49591064453, Actor Loss: -19184.554412841797  
Episode 4025: Time: 0.6131482124328613, Total Reward: 528.2854871892511, Q Loss: 71672.92724609375, Actor Loss: -20530.45770263672  
Episode 4026: Time: 0.39147186279296875, Total Reward: 333.6129332227782, Q Loss: 41559.688049316406, Actor Loss: -12927.973937988281  
Episode 4027: Time: 0.09554553031921387, Total Reward: 72.02068021180476, Q Loss: 11269.164123535156, Actor Loss: -3228.758056640625  
Episode 4028: Time: 0.4241335391998291, Total Reward: 359.4764419499325, Q Loss: 43711.87380981445, Actor Loss: -14205.396392822266  
Episode 4029: Time: 0.47751832008361816, Total Reward: 404.9472296293258, Q Loss: 61424.023864746094, Actor Loss: -15511.646667480469  
Episode 4030: Time: 0.212646484375, Total Reward: 175.4411725991425, Q Loss: 25472.376403808594, Actor Loss: -6946.17138671875  
Episode 4031: Time: 0.24440240859985352, Total Reward: 202.69891031160802, Q Loss: 27447.31622314453, Actor Loss: -8106.562896728516  
Episode 4032: Time: 0.3084831237792969, Total Reward: 258.5839285856498, Q Loss: 31129.866760253906, Actor Loss: -10158.897933959961  
Episode 4033: Time: 0.2974574565887451, Total Reward: 247.8753541999883, Q Loss: 39063.33740234375, Actor Loss: -9745.752471923828  
Episode 4034: Time: 0.3920783996582031, Total Reward: 333.85544847688874, Q Loss: 43445.005920410156, Actor Loss: -12825.982971191406  
Episode 4035: Time: 0.265547513961792, Total Reward: 219.73050722805775, Q Loss: 34380.70635986328, Actor Loss: -9037.190795898438  
Episode 4036: Time: 0.4780256748199463, Total Reward: 405.3861059366002, Q Loss: 57588.982421875, Actor Loss: -16349.85092163086  
Episode 4037: Time: 0.5301885604858398, Total Reward: 454.8400047446692, Q Loss: 68340.63165283203, Actor Loss: -17447.679321289062  
Episode 4038: Time: 0.2869222164154053, Total Reward: 239.071989295754, Q Loss: 36290.298400878906, Actor Loss: -9706.188598632812  
Episode 4039: Time: 0.1276719570159912, Total Reward: 100.45077613445247, Q Loss: 16045.653686523438, Actor Loss: -4219.0150146484375  
Episode 4040: Time: 0.32889676094055176, Total Reward: 276.0836490068706, Q Loss: 41749.13232421875, Actor Loss: -10834.633880615234  
Episode 4041: Time: 0.18047738075256348, Total Reward: 147.52678231234364, Q Loss: 20204.673095703125, Actor Loss: -6242.157867431641  
Episode 4042: Time: 0.4353468418121338, Total Reward: 368.97507437820894, Q Loss: 53842.080322265625, Actor Loss: -14555.514251708984  
Episode 4043: Time: 0.24466204643249512, Total Reward: 201.7186650152125, Q Loss: 27880.1376953125, Actor Loss: -8146.234954833984  
Episode 4044: Time: 0.20209217071533203, Total Reward: 165.7323895770995, Q Loss: 21173.303100585938, Actor Loss: -6763.242980957031  
Episode 4045: Time: 0.10644221305847168, Total Reward: 81.92734670808132, Q Loss: 13074.563354492188, Actor Loss: -3605.9160766601562  
Episode 4046: Time: 0.5296931266784668, Total Reward: 453.62983023705294, Q Loss: 57880.979064941406, Actor Loss: -17748.973114013672  
Episode 4047: Time: 0.24431848526000977, Total Reward: 201.89235650947083, Q Loss: 29163.55157470703, Actor Loss: -8335.421356201172

Episode 4048: Time: 0.34999656677246094, Total Reward: 296.00686391198496, Q Loss: 38867.15466308594, Actor Loss: -12027.414764404297  
Episode 4049: Time: 0.37162089347839355, Total Reward: 314.0619580601417, Q Loss: 44409.40246582031, Actor Loss: -12535.437316894531  
Episode 4050: Time: 0.45563554763793945, Total Reward: 387.17297343352595, Q Loss: 49976.37097167969, Actor Loss: -15716.819946289062  
Episode 4051: Time: 0.12737274169921875, Total Reward: 100.94523136003609, Q Loss: 16314.305053710938, Actor Loss: -4416.234466552734  
Episode 4052: Time: 0.3709280490875244, Total Reward: 313.40887023811894, Q Loss: 49503.350036621094, Actor Loss: -12957.467468261719  
Episode 4053: Time: 0.28682971000671387, Total Reward: 237.91832466623498, Q Loss: 42479.880432128906, Actor Loss: -9841.32681274414  
Episode 4054: Time: 0.6778335571289062, Total Reward: 583.8440875714185, Q Loss: 95713.94610595703, Actor Loss: -23186.915740966797  
Episode 4055: Time: 0.22329092025756836, Total Reward: 183.07032020012096, Q Loss: 31201.209594726562, Actor Loss: -7604.763275146484  
Episode 4056: Time: 0.276364803314209, Total Reward: 230.00022249920133, Q Loss: 31648.12515258789, Actor Loss: -9334.561645507812  
Episode 4057: Time: 0.09572291374206543, Total Reward: 72.40178156542945, Q Loss: 11998.942657470703, Actor Loss: -3254.4947814941406  
Episode 4058: Time: 0.1807854175567627, Total Reward: 145.96759697492297, Q Loss: 23138.205200195312, Actor Loss: -6135.445281982422  
Episode 4059: Time: 0.2973763942718506, Total Reward: 249.64328093201559, Q Loss: 39822.88214111328, Actor Loss: -10144.071594238281  
Episode 4060: Time: 0.12743020057678223, Total Reward: 100.55993020805971, Q Loss: 15235.24658203125, Actor Loss: -4465.717132568359  
Episode 4061: Time: 0.21259379386901855, Total Reward: 172.5946459466227, Q Loss: 24444.25213623047, Actor Loss: -7314.493133544922  
Episode 4062: Time: 0.1913290023803711, Total Reward: 156.81629816223384, Q Loss: 22076.080444335938, Actor Loss: -6380.791290283203  
Episode 4063: Time: 0.3080005645751953, Total Reward: 256.8261223621313, Q Loss: 37823.505615234375, Actor Loss: -10309.607818603516  
Episode 4064: Time: 0.1696760654449463, Total Reward: 138.49899542819472, Q Loss: 20891.78436279297, Actor Loss: -5773.8477783203125  
Episode 4065: Time: 0.32845354080200195, Total Reward: 277.1727932403837, Q Loss: 37132.1999206543, Actor Loss: -11049.526489257812  
Episode 4066: Time: 0.39191317558288574, Total Reward: 334.3026055130613, Q Loss: 44981.84292602539, Actor Loss: -13286.825469970703  
Episode 4067: Time: 0.5817627906799316, Total Reward: 501.9518766211264, Q Loss: 74536.89782714844, Actor Loss: -20334.963134765625  
Episode 4068: Time: 0.5604374408721924, Total Reward: 481.94454056351196, Q Loss: 69883.01586914062, Actor Loss: -19421.120330810547  
Episode 4069: Time: 0.32875752449035645, Total Reward: 277.57996334865084, Q Loss: 40036.33135986328, Actor Loss: -11381.66909790039  
Episode 4070: Time: 0.30741167068481445, Total Reward: 257.295494093685, Q Loss: 40987.797119140625, Actor Loss: -10859.486389160156  
Episode 4071: Time: 0.1809244155883789, Total Reward: 147.75756715615606, Q Loss: 24878.378479003906, Actor Loss: -6394.003021240234  
Episode 4072: Time: 0.666743278503418, Total Reward: 574.0457278618038, Q Loss: 87500.42974853516, Actor Loss: -23756.940216064453  
Episode 4073: Time: 0.4557502269744873, Total Reward: 386.6107732534789, Q Loss: 60524.690002441406, Actor Loss: -16036.409790039062  
Episode 4074: Time: 0.40413761138916016, Total Reward: 341.1975740709727, Q Loss: 48071.94708251953, Actor Loss: -14210.833709716797  
Episode 4075: Time: 0.12757372856140137, Total Reward: 100.35962022800199, Q Loss: 14695.934265136719, Actor Loss: -4532.990234375

Episode 4076: Time: 0.21358656883239746, Total Reward: 174.50071118993463, Q Loss: 24915.937133789062, Actor Loss: -7436.691680908203  
Episode 4077: Time: 0.30914974212646484, Total Reward: 258.528803958276, Q Loss: 37493.74365234375, Actor Loss: -10485.823486328125  
Episode 4078: Time: 0.2448577880859375, Total Reward: 203.66987417716314, Q Loss: 30236.44110107422, Actor Loss: -8572.130889892578  
Episode 4079: Time: 0.2554507255554199, Total Reward: 210.10327225960006, Q Loss: 33777.685485839844, Actor Loss: -9071.593505859375  
Episode 4080: Time: 0.22325873374938965, Total Reward: 183.93501192525449, Q Loss: 29699.469604492188, Actor Loss: -7790.433807373047  
Episode 4081: Time: 0.13841867446899414, Total Reward: 109.95234316483973, Q Loss: 20327.910705566406, Actor Loss: -4965.914520263672  
Episode 4082: Time: 0.09605765342712402, Total Reward: 72.39929594907579, Q Loss: 10442.19921875, Actor Loss: -3262.7442932128906  
Episode 4083: Time: 0.3080751895904541, Total Reward: 257.1293235779693, Q Loss: 39253.865661621094, Actor Loss: -10695.26693725586  
Episode 4084: Time: 0.44553065299987793, Total Reward: 379.71506469699085, Q Loss: 57430.72442626953, Actor Loss: -15306.674224853516  
Episode 4085: Time: 0.11690759658813477, Total Reward: 91.5507600817847, Q Loss: 15347.232971191406, Actor Loss: -4146.325469970703  
Episode 4086: Time: 0.31754326820373535, Total Reward: 267.58975078259243, Q Loss: 45197.208557128906, Actor Loss: -11352.962677001953  
Episode 4087: Time: 0.3295736312866211, Total Reward: 277.26084297016024, Q Loss: 44923.93957519531, Actor Loss: -11486.362854003906  
Episode 4088: Time: 0.1590726375579834, Total Reward: 128.954995810857, Q Loss: 27232.583862304688, Actor Loss: -5574.7930908203125  
Episode 4089: Time: 0.138336181640625, Total Reward: 110.02271212172302, Q Loss: 19492.23223876953, Actor Loss: -4895.516387939453  
Episode 4090: Time: 0.39272403717041016, Total Reward: 332.71940774506487, Q Loss: 44365.54620361328, Actor Loss: -13963.041473388672  
Episode 4091: Time: 0.12774348258972168, Total Reward: 100.97456020119652, Q Loss: 15554.5029296875, Actor Loss: -4429.001007080078  
Episode 4092: Time: 0.14903926849365234, Total Reward: 119.35196116453714, Q Loss: 18907.749145507812, Actor Loss: -5169.177490234375  
Episode 4093: Time: 0.27645206451416016, Total Reward: 229.33810696443499, Q Loss: 40040.10607910156, Actor Loss: -9748.970672607422  
Episode 4094: Time: 0.5938019752502441, Total Reward: 509.28554103424375, Q Loss: 75295.9033203125, Actor Loss: -21121.126983642578  
Episode 4095: Time: 0.13818955421447754, Total Reward: 110.00082478647464, Q Loss: 16826.01446533203, Actor Loss: -4647.476287841797  
Episode 4096: Time: 0.39349937438964844, Total Reward: 330.9594577847752, Q Loss: 44114.090881347656, Actor Loss: -14105.387878417969  
Episode 4097: Time: 0.7529077529907227, Total Reward: 649.3793111639317, Q Loss: 98802.84286499023, Actor Loss: -27072.635681152344  
Episode 4098: Time: 0.4246644973754883, Total Reward: 360.52806947523726, Q Loss: 53964.501403808594, Actor Loss: -14609.43862915039  
Episode 4099: Time: 0.22356581687927246, Total Reward: 185.2747205754686, Q Loss: 30508.411987304688, Actor Loss: -7739.287200927734  
Validation Mean: 659.3722639257551, Validation Std: 51.97543425289989  
saving model  
Episode 4100: Time: 0.23569965362548828, Total Reward: 193.52194047378524, Q Loss: 28217.06219482422, Actor Loss: -8218.534790039062  
Episode 4101: Time: 0.21355080604553223, Total Reward: 175.92545937731867, Q Loss: 25468.392700195312, Actor Loss: -7261.586730957031  
Episode 4102: Time: 0.8176124095916748, Total Reward: 706.4737594587771, Q Loss: 110277.5327758789, Actor Loss: -28992.278869628906

Episode 4103: Time: 0.4248692989349365, Total Reward: 359.2464978964197, Q Loss: 52314.06719970703, Actor Loss: -15334.744995117188  
Episode 4104: Time: 0.5412170886993408, Total Reward: 464.3375351351393, Q Loss: 72785.81640625, Actor Loss: -19593.52215576172  
Episode 4105: Time: 0.297778844833374, Total Reward: 247.6480678243833, Q Loss: 40542.2548828125, Actor Loss: -10691.132507324219  
Episode 4106: Time: 0.26611876487731934, Total Reward: 220.75721784194232, Q Loss: 38502.412170410156, Actor Loss: -9705.059143066406  
Episode 4107: Time: 0.5210633277893066, Total Reward: 445.42649600176753, Q Loss: 67733.62994384766, Actor Loss: -18780.255157470703  
Episode 4108: Time: 0.40373778343200684, Total Reward: 343.142639753178, Q Loss: 50574.207275390625, Actor Loss: -14544.491119384766  
Episode 4109: Time: 0.37303757667541504, Total Reward: 314.8325128415982, Q Loss: 51928.4560546875, Actor Loss: -13421.044219970703  
Episode 4110: Time: 0.0855109691619873, Total Reward: 62.94403760144101, Q Loss: 11263.380065917969, Actor Loss: -3167.9981689453125  
Episode 4111: Time: 0.20229148864746094, Total Reward: 165.2088122219746, Q Loss: 26623.85140991211, Actor Loss: -7263.9996337890625  
Episode 4112: Time: 0.3519914150238037, Total Reward: 295.3598893680252, Q Loss: 49232.165283203125, Actor Loss: -12988.037292480469  
Episode 4113: Time: 0.42615818977355957, Total Reward: 361.1585004582174, Q Loss: 56920.584899902344, Actor Loss: -15543.043823242188  
Episode 4114: Time: 0.4052906036376953, Total Reward: 342.85034180745794, Q Loss: 61209.48403930664, Actor Loss: -14584.363464355469  
Episode 4115: Time: 0.0963282585144043, Total Reward: 72.66200185505684, Q Loss: 15046.828857421875, Actor Loss: -3592.1784057617188  
Episode 4116: Time: 0.25583791732788086, Total Reward: 211.37503438606575, Q Loss: 30633.579833984375, Actor Loss: -9083.765350341797  
Episode 4117: Time: 0.09619283676147461, Total Reward: 72.86700220456166, Q Loss: 14962.906616210938, Actor Loss: -3408.889434814453  
Episode 4118: Time: 0.5320241451263428, Total Reward: 453.9738470509968, Q Loss: 76256.3530883789, Actor Loss: -19585.409423828125  
Episode 4119: Time: 0.11726832389831543, Total Reward: 90.48364801181286, Q Loss: 14629.266357421875, Actor Loss: -4177.294891357422  
Episode 4120: Time: 0.21288633346557617, Total Reward: 175.634117356386, Q Loss: 30004.321838378906, Actor Loss: -7785.310791015625  
Episode 4121: Time: 0.2663917541503906, Total Reward: 220.9930805855207, Q Loss: 36394.18389892578, Actor Loss: -9637.832641601562  
Episode 4122: Time: 0.3191993236541748, Total Reward: 267.9631887456239, Q Loss: 45338.58154296875, Actor Loss: -11540.001068115234  
Episode 4123: Time: 0.3403182029724121, Total Reward: 285.77880999982057, Q Loss: 51426.66488647461, Actor Loss: -12282.216796875  
Episode 4124: Time: 0.21299362182617188, Total Reward: 174.11569671785438, Q Loss: 31762.35369873047, Actor Loss: -7509.114837646484  
Episode 4125: Time: 0.180952787399292, Total Reward: 147.46288274968447, Q Loss: 26746.864990234375, Actor Loss: -6653.419036865234  
Episode 4126: Time: 0.13849997520446777, Total Reward: 110.42742025735207, Q Loss: 17056.16323852539, Actor Loss: -4992.756042480469  
Episode 4127: Time: 0.14870476722717285, Total Reward: 119.12538948661265, Q Loss: 21937.658569335938, Actor Loss: -5420.462097167969  
Episode 4128: Time: 0.18088173866271973, Total Reward: 147.8249460843431, Q Loss: 22853.480102539062, Actor Loss: -6577.750335693359  
Episode 4129: Time: 0.2022230625152588, Total Reward: 166.18194111149927, Q Loss: 27213.901885986328, Actor Loss: -7455.821258544922  
Episode 4130: Time: 0.13844585418701172, Total Reward: 110.62668440182942, Q Loss: 20450.647827148438, Actor Loss: -5032.228576660156

Episode 4131: Time: 0.13851118087768555, Total Reward: 110.10537699402184, Q Loss: 17445.66534423828, Actor Loss: -4994.574768066406  
Episode 4132: Time: 0.6268081665039062, Total Reward: 538.6234578279965, Q Loss: 86259.06616210938, Actor Loss: -22730.068145751953  
Episode 4133: Time: 0.28731513023376465, Total Reward: 238.91898069572048, Q Loss: 34706.6513671875, Actor Loss: -10379.426086425781  
Episode 4134: Time: 0.3296394348144531, Total Reward: 275.27711776836645, Q Loss: 47367.52960205078, Actor Loss: -12033.177825927734  
Episode 4135: Time: 0.5098280906677246, Total Reward: 436.0584299355081, Q Loss: 63523.86410522461, Actor Loss: -18678.432037353516  
Episode 4136: Time: 0.22353434562683105, Total Reward: 182.73256036270317, Q Loss: 39602.19940185547, Actor Loss: -8162.285430908203  
Episode 4137: Time: 0.22342991828918457, Total Reward: 183.97652539129774, Q Loss: 30681.059936523438, Actor Loss: -7967.300628662109  
Episode 4138: Time: 0.2980821132659912, Total Reward: 248.35218703973248, Q Loss: 44857.99044799805, Actor Loss: -10783.126159667969  
Episode 4139: Time: 0.2234182357788086, Total Reward: 182.58367336698603, Q Loss: 38808.403869628906, Actor Loss: -8127.543243408203  
Episode 4140: Time: 0.31956934928894043, Total Reward: 267.83079386190093, Q Loss: 49849.72119140625, Actor Loss: -11427.022705078125  
Episode 4141: Time: 0.16997957229614258, Total Reward: 136.60817854332996, Q Loss: 23547.472595214844, Actor Loss: -6202.173370361328  
Episode 4142: Time: 0.24458527565002441, Total Reward: 202.25340734453644, Q Loss: 30615.345153808594, Actor Loss: -8879.149810791016  
Episode 4143: Time: 0.2550640106201172, Total Reward: 211.87372638264196, Q Loss: 35557.55322265625, Actor Loss: -9627.58578491211  
Episode 4144: Time: 0.10650062561035156, Total Reward: 82.29359066238604, Q Loss: 13841.753173828125, Actor Loss: -4017.070281982422  
Episode 4145: Time: 0.24465417861938477, Total Reward: 202.88253119169727, Q Loss: 30002.14129638672, Actor Loss: -8769.793670654297  
Episode 4146: Time: 0.149522066116333, Total Reward: 119.02076661715775, Q Loss: 22132.597229003906, Actor Loss: -5422.282958984375  
Episode 4147: Time: 0.30832552909851074, Total Reward: 259.6318248757875, Q Loss: 37602.8857421875, Actor Loss: -11466.588836669922  
Episode 4148: Time: 0.605412483215332, Total Reward: 519.4684086282786, Q Loss: 87279.34466552734, Actor Loss: -22098.477478027344  
Episode 4149: Time: 0.2972695827484131, Total Reward: 249.82092496581507, Q Loss: 44202.722595214844, Actor Loss: -11208.996551513672  
Episode 4150: Time: 0.17052555084228516, Total Reward: 137.9123494125529, Q Loss: 25796.11456298828, Actor Loss: -6400.888122558594  
Episode 4151: Time: 0.09626364707946777, Total Reward: 72.48379071318335, Q Loss: 14410.18603515625, Actor Loss: -3497.988311767578  
Episode 4152: Time: 0.20227313041687012, Total Reward: 164.45881274251445, Q Loss: 39197.584533691406, Actor Loss: -7521.230285644531  
Episode 4153: Time: 0.31882691383361816, Total Reward: 267.8115512768451, Q Loss: 44102.10900878906, Actor Loss: -11580.0361328125  
Episode 4154: Time: 0.2666032314300537, Total Reward: 222.2401870353589, Q Loss: 41847.68017578125, Actor Loss: -10286.196105957031  
Episode 4155: Time: 0.3934504985809326, Total Reward: 333.0175885760749, Q Loss: 48687.83740234375, Actor Loss: -14724.645782470703  
Episode 4156: Time: 0.20223450660705566, Total Reward: 166.5766951178905, Q Loss: 30192.902557373047, Actor Loss: -7401.2628173828125  
Episode 4157: Time: 0.351409912109375, Total Reward: 294.4863204749141, Q Loss: 43152.88684082031, Actor Loss: -12780.540313720703  
Episode 4158: Time: 0.20222783088684082, Total Reward: 166.40034024419597, Q Loss: 31323.342407226562, Actor Loss: -7522.871337890625

Episode 4159: Time: 0.1382608413696289, Total Reward: 110.25144013814273, Q Loss: 17113.646362304688, Actor Loss: -5109.734130859375  
Episode 4160: Time: 0.33989429473876953, Total Reward: 286.78831327842084, Q Loss: 48201.23376464844, Actor Loss: -12885.619689941406  
Episode 4161: Time: 0.18069076538085938, Total Reward: 146.9432309697196, Q Loss: 24532.78631591797, Actor Loss: -6816.9114990234375  
Episode 4162: Time: 0.5518488883972168, Total Reward: 473.3429528466623, Q Loss: 76292.91998291016, Actor Loss: -20328.553436279297  
Episode 4163: Time: 0.3829023838043213, Total Reward: 320.3292310019714, Q Loss: 53655.45361328125, Actor Loss: -14198.043060302734  
Episode 4164: Time: 0.23459148406982422, Total Reward: 194.10381683457032, Q Loss: 32699.789672851562, Actor Loss: -8238.573303222656  
Episode 4165: Time: 1.0838217735290527, Total Reward: 939.4789217000751, Q Loss: 172873.6381225586, Actor Loss: -40694.45642089844  
Episode 4166: Time: 0.07474827766418457, Total Reward: 53.48976277635235, Q Loss: 10975.909912109375, Actor Loss: -2718.3170776367188  
Episode 4167: Time: 0.39380526542663574, Total Reward: 333.6222784444019, Q Loss: 60597.320373535156, Actor Loss: -14822.17251586914  
Episode 4168: Time: 0.309520959854126, Total Reward: 257.49349230980766, Q Loss: 42112.504455566406, Actor Loss: -11639.480194091797  
Episode 4169: Time: 0.41620588302612305, Total Reward: 349.2793572313504, Q Loss: 62176.65100097656, Actor Loss: -15643.188995361328  
Episode 4170: Time: 0.11777710914611816, Total Reward: 91.30672304469854, Q Loss: 16097.038391113281, Actor Loss: -4239.564208984375  
Episode 4171: Time: 0.35175037384033203, Total Reward: 294.2366884819333, Q Loss: 52201.904235839844, Actor Loss: -13322.003967285156  
Episode 4172: Time: 0.14903688430786133, Total Reward: 119.37549001314706, Q Loss: 19311.348571777344, Actor Loss: -5547.358184814453  
Episode 4173: Time: 0.20241332054138184, Total Reward: 166.10725502165016, Q Loss: 28293.227905273438, Actor Loss: -7649.508636474609  
Episode 4174: Time: 0.14922022819519043, Total Reward: 119.84923007457182, Q Loss: 19293.336639404297, Actor Loss: -5612.775238037109  
Episode 4175: Time: 0.2556936740875244, Total Reward: 212.38763321799394, Q Loss: 39242.34881591797, Actor Loss: -9324.548797607422  
Episode 4176: Time: 0.234818696975708, Total Reward: 192.2045649185472, Q Loss: 28620.985229492188, Actor Loss: -8783.127227783203  
Episode 4177: Time: 0.21381855010986328, Total Reward: 174.04605728462647, Q Loss: 32629.152099609375, Actor Loss: -7840.735107421875  
Episode 4178: Time: 0.1597883701324463, Total Reward: 128.5635172202489, Q Loss: 29614.605590820312, Actor Loss: -5913.3206787109375  
Episode 4179: Time: 0.5107879638671875, Total Reward: 434.88233878889446, Q Loss: 79949.73999023438, Actor Loss: -19629.521270751953  
Episode 4180: Time: 0.25616908073425293, Total Reward: 212.85112466629602, Q Loss: 40423.91680908203, Actor Loss: -9897.121276855469  
Episode 4181: Time: 0.1492767333984375, Total Reward: 119.30881377285513, Q Loss: 26104.0380859375, Actor Loss: -5679.799377441406  
Episode 4182: Time: 0.17087721824645996, Total Reward: 138.1100556946186, Q Loss: 24394.806762695312, Actor Loss: -6627.59033203125  
Episode 4183: Time: 0.18109726905822754, Total Reward: 147.81889731249242, Q Loss: 25767.123046875, Actor Loss: -6788.057312011719  
Episode 4184: Time: 0.13881254196166992, Total Reward: 109.99186085217995, Q Loss: 23606.819091796875, Actor Loss: -5250.477691650391  
Episode 4185: Time: 0.330066442489624, Total Reward: 276.27745555011296, Q Loss: 53058.68377685547, Actor Loss: -12518.113067626953  
Episode 4186: Time: 0.4996328353881836, Total Reward: 427.2618378587572, Q Loss: 75322.51159667969, Actor Loss: -19486.352142333984

Episode 4187: Time: 0.18112492561340332, Total Reward: 147.0039372389371, Q Loss: 27466.941040039062, Actor Loss: -6896.186798095703  
Episode 4188: Time: 0.29811668395996094, Total Reward: 249.0315670733905, Q Loss: 42218.13000488281, Actor Loss: -11551.134063720703  
Episode 4189: Time: 0.3408389091491699, Total Reward: 286.5297874839154, Q Loss: 54511.97900390625, Actor Loss: -12874.932006835938  
Episode 4190: Time: 0.21321725845336914, Total Reward: 175.2185947449903, Q Loss: 31199.98583984375, Actor Loss: -7834.1669921875  
Episode 4191: Time: 0.2876591682434082, Total Reward: 239.39866672334804, Q Loss: 49066.35565185547, Actor Loss: -11159.611572265625  
Episode 4192: Time: 0.3297145366668701, Total Reward: 278.24530702872516, Q Loss: 55378.96240234375, Actor Loss: -12332.68032836914  
Episode 4193: Time: 0.3405933380126953, Total Reward: 287.15005495671517, Q Loss: 52404.40100097656, Actor Loss: -13268.747283935547  
Episode 4194: Time: 0.6695504188537598, Total Reward: 574.6112787513501, Q Loss: 99469.11083984375, Actor Loss: -25536.112823486328  
Episode 4195: Time: 0.39423298835754395, Total Reward: 332.65149368800803, Q Loss: 60780.34094238281, Actor Loss: -15183.132202148438  
Episode 4196: Time: 0.3831627368927002, Total Reward: 324.97497284838636, Q Loss: 56239.59851074219, Actor Loss: -14488.144561767578  
Episode 4197: Time: 0.2561516761779785, Total Reward: 211.48415228130474, Q Loss: 36534.177001953125, Actor Loss: -9715.78939819336  
Episode 4198: Time: 0.12845635414123535, Total Reward: 100.0349640059832, Q Loss: 19115.95928955078, Actor Loss: -4706.5458984375  
Episode 4199: Time: 0.49024295806884766, Total Reward: 416.2074536471515, Q Loss: 76784.21453857422, Actor Loss: -19218.063873291016  
Validation Mean: 9353.188337411573, Validation Std: 0.1471044258033916  
saving model  
Episode 4200: Time: 0.16146612167358398, Total Reward: 128.56190447625366, Q Loss: 21965.69659423828, Actor Loss: -6136.3612060546875  
Episode 4201: Time: 0.2786598205566406, Total Reward: 230.54106942988687, Q Loss: 39312.85009765625, Actor Loss: -10475.84701538086  
Episode 4202: Time: 0.21390390396118164, Total Reward: 175.68297061402376, Q Loss: 37543.16857910156, Actor Loss: -8049.846221923828  
Episode 4203: Time: 0.27786874771118164, Total Reward: 231.35661262795534, Q Loss: 42620.202880859375, Actor Loss: -10739.903930664062  
Episode 4204: Time: 0.14957189559936523, Total Reward: 119.43593474451046, Q Loss: 25997.279174804688, Actor Loss: -5729.4219970703125  
Episode 4205: Time: 0.08610296249389648, Total Reward: 62.92363500654332, Q Loss: 12128.655151367188, Actor Loss: -3267.434356689453  
Episode 4206: Time: 0.3411853313446045, Total Reward: 286.4150538910085, Q Loss: 50466.676513671875, Actor Loss: -13130.840911865234  
Episode 4207: Time: 0.32033705711364746, Total Reward: 268.9400833372525, Q Loss: 44244.101165771484, Actor Loss: -11769.73583984375  
Episode 4208: Time: 0.266707181930542, Total Reward: 221.06315226812845, Q Loss: 34970.40216064453, Actor Loss: -10267.390747070312  
Episode 4209: Time: 0.22440528869628906, Total Reward: 184.39069481729155, Q Loss: 39489.32452392578, Actor Loss: -8709.240753173828  
Episode 4210: Time: 0.36243581771850586, Total Reward: 304.82174626077506, Q Loss: 62120.7763671875, Actor Loss: -14023.234344482422  
Episode 4211: Time: 0.5642509460449219, Total Reward: 483.40590667297243, Q Loss: 81975.13073730469, Actor Loss: -21732.527099609375  
Episode 4212: Time: 0.36219000816345215, Total Reward: 305.5263998778331, Q Loss: 53870.76336669922, Actor Loss: -14344.848052978516  
Episode 4213: Time: 0.2987215518951416, Total Reward: 246.8888209630032, Q Loss: 43681.573791503906, Actor Loss: -11616.894470214844



Episode 4214: Time: 0.11750388145446777, Total Reward: 90.9482540666799, Q Loss: 14877.071533203125, Actor Loss: -4467.025787353516  
Episode 4215: Time: 0.2563188076019287, Total Reward: 212.07263698851497, Q Loss: 40959.778076171875, Actor Loss: -10105.127563476562  
Episode 4216: Time: 0.2664921283721924, Total Reward: 222.43919940511256, Q Loss: 37941.61608886719, Actor Loss: -10392.77914428711  
Episode 4217: Time: 0.42595767974853516, Total Reward: 361.50666103881946, Q Loss: 69222.77157592773, Actor Loss: -16534.84927368164  
Episode 4218: Time: 0.5111508369445801, Total Reward: 435.87000888826094, Q Loss: 82262.66418457031, Actor Loss: -20276.279235839844  
Episode 4219: Time: 0.27795910835266113, Total Reward: 229.2010244394903, Q Loss: 43713.82995605469, Actor Loss: -10777.457489013672  
Episode 4220: Time: 0.40524935722351074, Total Reward: 342.15396350670215, Q Loss: 60699.85873413086, Actor Loss: -15931.40151977539  
Episode 4221: Time: 0.34122371673583984, Total Reward: 286.8335460692269, Q Loss: 47579.9560546875, Actor Loss: -12879.280975341797  
Episode 4222: Time: 0.6928083896636963, Total Reward: 595.0322618513601, Q Loss: 101919.55603027344, Actor Loss: -27004.768524169922  
Episode 4223: Time: 0.36317944526672363, Total Reward: 304.84573285696376, Q Loss: 52394.2294921875, Actor Loss: -14222.324615478516  
Episode 4224: Time: 0.23545336723327637, Total Reward: 191.7672363826058, Q Loss: 38076.961364746094, Actor Loss: -8964.471221923828  
Episode 4225: Time: 0.1921238899230957, Total Reward: 156.51928033009176, Q Loss: 28024.250366210938, Actor Loss: -7487.5433349609375  
Episode 4226: Time: 0.40477561950683594, Total Reward: 342.6339075825682, Q Loss: 68362.16680908203, Actor Loss: -15583.283020019531  
Episode 4227: Time: 0.17074060440063477, Total Reward: 135.5197296937432, Q Loss: 27641.190979003906, Actor Loss: -6817.834259033203  
Episode 4228: Time: 0.17088937759399414, Total Reward: 138.01975547589365, Q Loss: 29153.14923095703, Actor Loss: -6810.316345214844  
Episode 4229: Time: 0.10669612884521484, Total Reward: 82.12968239407132, Q Loss: 17575.967224121094, Actor Loss: -4203.250030517578  
Episode 4230: Time: 0.522392988204956, Total Reward: 445.3529687242985, Q Loss: 85729.95349121094, Actor Loss: -20941.961456298828  
Episode 4231: Time: 0.37325263023376465, Total Reward: 314.02234855967345, Q Loss: 58140.18182373047, Actor Loss: -14415.4873046875  
Episode 4232: Time: 0.24530887603759766, Total Reward: 202.52844170390586, Q Loss: 43082.03839111328, Actor Loss: -9323.494903564453  
Episode 4233: Time: 0.4905822277069092, Total Reward: 416.33355564030046, Q Loss: 77801.98272705078, Actor Loss: -19036.35043334961  
Episode 4234: Time: 0.19264578819274902, Total Reward: 156.7990334990476, Q Loss: 31162.092163085938, Actor Loss: -7438.446807861328  
Episode 4235: Time: 0.20364165306091309, Total Reward: 165.27280712280387, Q Loss: 32567.5908203125, Actor Loss: -7848.173583984375  
Episode 4236: Time: 0.21462059020996094, Total Reward: 175.67826661295382, Q Loss: 38052.31384277344, Actor Loss: -8621.758911132812  
Episode 4237: Time: 0.28901243209838867, Total Reward: 239.29661016207078, Q Loss: 44301.176818847656, Actor Loss: -11373.015502929688  
Episode 4238: Time: 0.14968204498291016, Total Reward: 118.81260255179757, Q Loss: 21406.869201660156, Actor Loss: -5795.889831542969  
Episode 4239: Time: 0.4378840923309326, Total Reward: 370.515665754918, Q Loss: 72381.00378417969, Actor Loss: -16899.77670288086  
Episode 4240: Time: 0.5346176624298096, Total Reward: 454.32668044618896, Q Loss: 82923.39877319336, Actor Loss: -20768.297607421875  
Episode 4241: Time: 0.39575719833374023, Total Reward: 334.1116946037349, Q Loss: 63132.77038574219, Actor Loss: -15743.77133178711

Episode 4242: Time: 0.502220630645752, Total Reward: 425.66507712930115, Q Loss: 85717.74108886719, Actor Loss: -20066.016967773438  
Episode 4243: Time: 0.20354247093200684, Total Reward: 165.43798490013936, Q Loss: 35095.32958984375, Actor Loss: -7886.496978759766  
Episode 4244: Time: 0.3108837604522705, Total Reward: 258.80137889717304, Q Loss: 46586.88165283203, Actor Loss: -12124.405334472656  
Episode 4245: Time: 0.28867602348327637, Total Reward: 240.67630825273994, Q Loss: 45254.73254394531, Actor Loss: -11416.22964477539  
Episode 4246: Time: 0.49088621139526367, Total Reward: 414.6700947522536, Q Loss: 71588.03500366211, Actor Loss: -19272.940368652344  
Episode 4247: Time: 0.32141995429992676, Total Reward: 268.6179318569298, Q Loss: 48908.33853149414, Actor Loss: -12648.4892578125  
Episode 4248: Time: 0.40634989738464355, Total Reward: 343.89848733134636, Q Loss: 65861.11264038086, Actor Loss: -16001.101318359375  
Episode 4249: Time: 0.5354623794555664, Total Reward: 455.02397244447945, Q Loss: 79020.2017211914, Actor Loss: -21273.93569946289  
Episode 4250: Time: 0.22509217262268066, Total Reward: 184.92997149873074, Q Loss: 42619.214416503906, Actor Loss: -9202.38949584961  
Episode 4251: Time: 0.41812801361083984, Total Reward: 349.93459378111373, Q Loss: 69284.09185791016, Actor Loss: -17066.74252319336  
Episode 4252: Time: 0.6203737258911133, Total Reward: 526.9501186434466, Q Loss: 104052.6137084961, Actor Loss: -24659.134490966797  
Episode 4253: Time: 0.22494173049926758, Total Reward: 184.28880396330925, Q Loss: 40162.0129699707, Actor Loss: -8820.502868652344  
Episode 4254: Time: 0.23649001121520996, Total Reward: 192.25315163041182, Q Loss: 40921.396240234375, Actor Loss: -9352.057037353516  
Episode 4255: Time: 0.10747480392456055, Total Reward: 81.87851377437845, Q Loss: 15591.138244628906, Actor Loss: -4277.721588134766  
Episode 4256: Time: 0.4083724021911621, Total Reward: 343.1268301314944, Q Loss: 60179.76495361328, Actor Loss: -16482.071197509766  
Episode 4257: Time: 0.28968167304992676, Total Reward: 239.64706855791658, Q Loss: 47095.62365722656, Actor Loss: -11802.176025390625  
Episode 4258: Time: 0.19311761856079102, Total Reward: 157.0712903032122, Q Loss: 30393.923461914062, Actor Loss: -7801.458709716797  
Episode 4259: Time: 0.22599029541015625, Total Reward: 183.3942604210646, Q Loss: 41347.92907714844, Actor Loss: -8983.364471435547  
Episode 4260: Time: 0.9205982685089111, Total Reward: 789.3785500333389, Q Loss: 155085.05255126953, Actor Loss: -37403.82061767578  
Episode 4261: Time: 0.26766443252563477, Total Reward: 222.09959972734458, Q Loss: 46286.572998046875, Actor Loss: -10982.347930908203  
Episode 4262: Time: 0.4071826934814453, Total Reward: 339.9979878037071, Q Loss: 73306.38842773438, Actor Loss: -16302.814086914062  
Episode 4263: Time: 0.26833605766296387, Total Reward: 220.20762541599305, Q Loss: 41532.271240234375, Actor Loss: -11200.507629394531  
Episode 4264: Time: 0.40668678283691406, Total Reward: 343.22155917411374, Q Loss: 65481.51525878906, Actor Loss: -16005.885162353516  
Episode 4265: Time: 0.1608123779296875, Total Reward: 128.04011134423908, Q Loss: 24279.797241210938, Actor Loss: -6151.17578125  
Episode 4266: Time: 0.43804240226745605, Total Reward: 370.77999661175477, Q Loss: 66102.46279907227, Actor Loss: -17376.817626953125  
Episode 4267: Time: 0.9298126697540283, Total Reward: 799.7255012879525, Q Loss: 168238.14239501953, Actor Loss: -37640.42724609375  
Episode 4268: Time: 0.2675302028656006, Total Reward: 222.03838237909073, Q Loss: 51517.7490234375, Actor Loss: -10903.907928466797  
Episode 4269: Time: 0.19271111488342285, Total Reward: 156.6752453404621, Q Loss: 31647.331298828125, Actor Loss: -7678.076446533203

Episode 4270: Time: 0.41715168952941895, Total Reward: 352.2467284457865, Q Loss: 64674.52526855469, Actor Loss: -16763.636810302734  
Episode 4271: Time: 0.2035655975341797, Total Reward: 166.082855616522, Q Loss: 29654.355895996094, Actor Loss: -8302.513122558594  
Episode 4272: Time: 0.32053446769714355, Total Reward: 268.90946119307256, Q Loss: 48977.43634033203, Actor Loss: -12981.325164794922  
Episode 4273: Time: 0.20324230194091797, Total Reward: 165.93782988229896, Q Loss: 36072.87976074219, Actor Loss: -8221.702880859375  
Episode 4274: Time: 1.0144565105438232, Total Reward: 873.9827081413383, Q Loss: 164309.69995117188, Actor Loss: -42368.98947143555  
Episode 4275: Time: 0.29945802688598633, Total Reward: 248.58722838577262, Q Loss: 50617.883361816406, Actor Loss: -12288.554168701172  
Episode 4276: Time: 0.29973721504211426, Total Reward: 249.87770007505873, Q Loss: 54578.057373046875, Actor Loss: -12107.331909179688  
Episode 4277: Time: 0.41713404655456543, Total Reward: 351.2918499371594, Q Loss: 69262.75213623047, Actor Loss: -17177.77471923828  
Episode 4278: Time: 0.28876590728759766, Total Reward: 238.9742731941658, Q Loss: 45079.242919921875, Actor Loss: -12271.58627319336  
Episode 4279: Time: 0.40632033348083496, Total Reward: 343.3931286885036, Q Loss: 72219.25732421875, Actor Loss: -16731.140350341797  
Episode 4280: Time: 0.16061091423034668, Total Reward: 127.93474837173308, Q Loss: 25546.92950439453, Actor Loss: -6550.341796875  
Episode 4281: Time: 0.1400279998779297, Total Reward: 110.11853839235785, Q Loss: 22129.4443359375, Actor Loss: -5744.774078369141  
Episode 4282: Time: 0.2895047664642334, Total Reward: 237.77833689728143, Q Loss: 46060.74542236328, Actor Loss: -12030.231994628906  
Episode 4283: Time: 0.2890033721923828, Total Reward: 240.02919106518212, Q Loss: 46172.15744018555, Actor Loss: -11833.691925048828  
Episode 4284: Time: 0.48111414909362793, Total Reward: 407.27936735546473, Q Loss: 86197.69799804688, Actor Loss: -19758.397735595703  
Episode 4285: Time: 0.18226885795593262, Total Reward: 146.62372141709318, Q Loss: 30890.305603027344, Actor Loss: -7189.466400146484  
Episode 4286: Time: 0.3852851390838623, Total Reward: 323.71076333973474, Q Loss: 63936.338623046875, Actor Loss: -15687.372161865234  
Episode 4287: Time: 0.3213083744049072, Total Reward: 266.1560158310685, Q Loss: 65564.99871826172, Actor Loss: -13566.76528930664  
Episode 4288: Time: 0.5664293766021729, Total Reward: 481.8233704291622, Q Loss: 89047.48272705078, Actor Loss: -23363.920288085938  
Episode 4289: Time: 0.2464277744293213, Total Reward: 203.33283748163822, Q Loss: 42039.52276611328, Actor Loss: -10405.639831542969  
Episode 4290: Time: 0.2358565330505371, Total Reward: 192.0025915610511, Q Loss: 37486.54461669922, Actor Loss: -10034.489776611328  
Episode 4291: Time: 0.48115992546081543, Total Reward: 406.49661798112874, Q Loss: 75083.98370361328, Actor Loss: -20004.175659179688  
Episode 4292: Time: 0.22515153884887695, Total Reward: 184.66836979425548, Q Loss: 34208.94592285156, Actor Loss: -9068.954223632812  
Episode 4293: Time: 0.18192267417907715, Total Reward: 147.65695034708662, Q Loss: 38433.12585449219, Actor Loss: -7706.556457519531  
Episode 4294: Time: 0.2679121494293213, Total Reward: 220.8198153326324, Q Loss: 44143.708435058594, Actor Loss: -10972.082916259766  
Episode 4295: Time: 0.49187803268432617, Total Reward: 417.0194913293208, Q Loss: 84614.91571044922, Actor Loss: -20376.60235595703  
Episode 4296: Time: 0.2785799503326416, Total Reward: 229.71751299541108, Q Loss: 55683.51403808594, Actor Loss: -11583.474212646484  
Episode 4297: Time: 0.38539981842041016, Total Reward: 323.89068842712015, Q Loss: 71149.09295654297, Actor Loss: -16232.999938964844

Episode 4298: Time: 0.20394539833068848, Total Reward: 165.41936000350773, Q Loss: 42075.576110839844, Actor Loss: -8279.870391845703  
Episode 4299: Time: 0.1713275909423828, Total Reward: 136.8166190948708, Q Loss: 30556.58319091797, Actor Loss: -7337.953887939453  
Validation Mean: 9354.770123355902, Validation Std: 0.2826771652608475  
saving model  
Episode 4300: Time: 0.21695804595947266, Total Reward: 174.46727267693444, Q Loss: 33239.356384277344, Actor Loss: -8626.932739257812  
Episode 4301: Time: 0.13990139961242676, Total Reward: 109.82137498618549, Q Loss: 25965.176025390625, Actor Loss: -5658.814239501953  
Episode 4302: Time: 0.3218193054199219, Total Reward: 268.4612072211617, Q Loss: 59526.45947265625, Actor Loss: -13441.286865234375  
Episode 4303: Time: 0.41776156425476074, Total Reward: 351.66283777252835, Q Loss: 74682.87780761719, Actor Loss: -17778.76483154297  
Episode 4304: Time: 0.2998523712158203, Total Reward: 249.83062116569073, Q Loss: 59762.34912109375, Actor Loss: -12652.96206665039  
Episode 4305: Time: 0.31119704246520996, Total Reward: 258.2034600619207, Q Loss: 41670.27819824219, Actor Loss: -13102.939208984375  
Episode 4306: Time: 0.28023314476013184, Total Reward: 231.4388918909362, Q Loss: 51807.45690917969, Actor Loss: -11755.40380859375  
Episode 4307: Time: 0.13990354537963867, Total Reward: 110.04667869635333, Q Loss: 23588.394165039062, Actor Loss: -5999.347808837891  
Episode 4308: Time: 0.471935510635376, Total Reward: 398.13215808710765, Q Loss: 84616.04992675781, Actor Loss: -19686.134033203125  
Episode 4309: Time: 0.11846280097961426, Total Reward: 91.33518428629435, Q Loss: 30676.327514648438, Actor Loss: -5043.756134033203  
Episode 4310: Time: 0.3970954418182373, Total Reward: 332.8973939743159, Q Loss: 68473.67199707031, Actor Loss: -16334.18408203125  
Episode 4311: Time: 0.38576197624206543, Total Reward: 323.60736697664623, Q Loss: 73792.19763183594, Actor Loss: -16123.679595947266  
Episode 4312: Time: 0.17145586013793945, Total Reward: 136.72031324406834, Q Loss: 36117.84014892578, Actor Loss: -7412.089111328125  
Episode 4313: Time: 0.3106083869934082, Total Reward: 259.2211570294847, Q Loss: 56338.084228515625, Actor Loss: -13059.973052978516  
Episode 4314: Time: 0.6745631694793701, Total Reward: 576.3298392885476, Q Loss: 142499.37854003906, Actor Loss: -28488.38363647461  
Episode 4315: Time: 0.5775425434112549, Total Reward: 491.7168300985917, Q Loss: 103897.01477050781, Actor Loss: -24588.327209472656  
Episode 4316: Time: 0.32120823860168457, Total Reward: 268.22996810458346, Q Loss: 62978.43475341797, Actor Loss: -13984.336456298828  
Episode 4317: Time: 0.054062604904174805, Total Reward: 35.21520291931029, Q Loss: 14106.293212890625, Actor Loss: -2337.230682373047  
Episode 4318: Time: 0.20371460914611816, Total Reward: 165.20771313479085, Q Loss: 40980.7958984375, Actor Loss: -8409.793487548828  
Episode 4319: Time: 0.26830577850341797, Total Reward: 219.90932952832983, Q Loss: 40997.272705078125, Actor Loss: -11183.99282836914  
Episode 4320: Time: 0.1826171875, Total Reward: 147.49959338628898, Q Loss: 35206.68469238281, Actor Loss: -7607.044158935547  
Episode 4321: Time: 0.5029189586639404, Total Reward: 426.65002365233113, Q Loss: 84627.30853271484, Actor Loss: -21632.366638183594  
Episode 4322: Time: 0.18180346488952637, Total Reward: 147.50345164466336, Q Loss: 33200.99768066406, Actor Loss: -7604.810119628906  
Episode 4323: Time: 0.7907190322875977, Total Reward: 677.9048729204652, Q Loss: 137105.42065429688, Actor Loss: -33661.70391845703  
Episode 4324: Time: 0.5019543170928955, Total Reward: 426.859708661242, Q Loss: 87508.25408935547, Actor Loss: -21176.506378173828

Episode 4325: Time: 0.994373083114624, Total Reward: 855.3788403145643, Q Loss: 178223.86529541016, Actor Loss: -42506.841400146484  
Episode 4326: Time: 0.2257375717163086, Total Reward: 184.63677265286043, Q Loss: 37562.105224609375, Actor Loss: -9726.239715576172  
Episode 4327: Time: 0.19288873672485352, Total Reward: 155.65913324178385, Q Loss: 42616.412353515625, Actor Loss: -8337.993865966797  
Episode 4328: Time: 0.2685713768005371, Total Reward: 220.27205138567655, Q Loss: 52020.83038330078, Actor Loss: -11554.090240478516  
Episode 4329: Time: 0.44927120208740234, Total Reward: 379.94525899986513, Q Loss: 73679.33508300781, Actor Loss: -19083.672790527344  
Episode 4330: Time: 0.1607379913330078, Total Reward: 127.8600457880154, Q Loss: 28948.892364501953, Actor Loss: -6859.370025634766  
Episode 4331: Time: 0.47118496894836426, Total Reward: 398.8284644714641, Q Loss: 83636.3998413086, Actor Loss: -20681.548217773438  
Episode 4332: Time: 0.12910246849060059, Total Reward: 99.19187713733707, Q Loss: 21707.167419433594, Actor Loss: -5525.269073486328  
Episode 4333: Time: 0.1827847957611084, Total Reward: 145.7136937079772, Q Loss: 34935.07458496094, Actor Loss: -8110.148345947266  
Episode 4334: Time: 0.503817081451416, Total Reward: 426.0081185077783, Q Loss: 106208.15539550781, Actor Loss: -21459.571899414062  
Episode 4335: Time: 0.3646707534790039, Total Reward: 304.5275216930221, Q Loss: 78174.72717285156, Actor Loss: -15823.030578613281  
Episode 4336: Time: 0.6643426418304443, Total Reward: 567.04037576568, Q Loss: 122309.81329345703, Actor Loss: -29093.467041015625  
Episode 4337: Time: 0.267833948135376, Total Reward: 221.85156792698953, Q Loss: 43551.65734863281, Actor Loss: -11742.750885009766  
Episode 4338: Time: 0.13959479331970215, Total Reward: 110.52536500755818, Q Loss: 25551.665283203125, Actor Loss: -6028.894439697266  
Episode 4339: Time: 0.37526893615722656, Total Reward: 313.56681862512914, Q Loss: 76420.14367675781, Actor Loss: -15886.452911376953  
Episode 4340: Time: 0.36481666564941406, Total Reward: 305.2969401771234, Q Loss: 70600.5991821289, Actor Loss: -15804.972930908203  
Episode 4341: Time: 0.20430779457092285, Total Reward: 165.8926473712994, Q Loss: 40890.080810546875, Actor Loss: -8678.848449707031  
Episode 4342: Time: 0.4078941345214844, Total Reward: 342.5188337646502, Q Loss: 77859.65759277344, Actor Loss: -17843.370635986328  
Episode 4343: Time: 0.3219943046569824, Total Reward: 269.0026437371728, Q Loss: 64582.97100830078, Actor Loss: -13465.563537597656  
Episode 4344: Time: 0.25803256034851074, Total Reward: 211.02679896208724, Q Loss: 56015.099365234375, Actor Loss: -11419.137390136719  
Episode 4345: Time: 0.27908849716186523, Total Reward: 229.49549661089682, Q Loss: 53894.079528808594, Actor Loss: -11972.624328613281  
Episode 4346: Time: 0.6657676696777344, Total Reward: 564.9344764336162, Q Loss: 110784.92373657227, Actor Loss: -28663.160186767578  
Episode 4347: Time: 0.1826179027557373, Total Reward: 146.69832245573483, Q Loss: 39570.37811279297, Actor Loss: -7720.186981201172  
Episode 4348: Time: 0.08658528327941895, Total Reward: 63.39276020084649, Q Loss: 14035.096496582031, Actor Loss: -3723.6806640625  
Episode 4349: Time: 0.4618351459503174, Total Reward: 387.4703375467217, Q Loss: 87840.26538085938, Actor Loss: -20245.973602294922  
Episode 4350: Time: 0.2795836925506592, Total Reward: 230.88355803429812, Q Loss: 56276.17596435547, Actor Loss: -12414.635467529297  
Episode 4351: Time: 0.3005707263946533, Total Reward: 249.38962833157274, Q Loss: 51915.214111328125, Actor Loss: -13244.415435791016  
Episode 4352: Time: 0.23647332191467285, Total Reward: 192.76825709124668, Q Loss: 53821.365478515625, Actor Loss: -10361.349792480469

Episode 4353: Time: 1.0396432876586914, Total Reward: 892.8454104423247, Q Loss: 191871.34375, Actor Loss: -45009.44790649414  
Episode 4354: Time: 0.23622989654541016, Total Reward: 194.28013027722824, Q Loss: 44376.66094970703, Actor Loss: -10050.053833007812  
Episode 4355: Time: 0.09714579582214355, Total Reward: 72.76104883113723, Q Loss: 15967.164428710938, Actor Loss: -4310.197814941406  
Episode 4356: Time: 0.34444427490234375, Total Reward: 286.9091608322305, Q Loss: 60488.02880859375, Actor Loss: -15306.721496582031  
Episode 4357: Time: 0.7630269527435303, Total Reward: 649.9041869324041, Q Loss: 156908.82287597656, Actor Loss: -33870.250732421875  
Episode 4358: Time: 0.13961338996887207, Total Reward: 109.87195989023456, Q Loss: 29732.855102539062, Actor Loss: -5865.235778808594  
Episode 4359: Time: 0.10804033279418945, Total Reward: 81.47533068740422, Q Loss: 25116.999755859375, Actor Loss: -4695.232360839844  
Episode 4360: Time: 0.5265028476715088, Total Reward: 440.4866772819855, Q Loss: 96129.35382080078, Actor Loss: -23044.036651611328  
Episode 4361: Time: 0.13973402976989746, Total Reward: 110.22821702587156, Q Loss: 25934.339904785156, Actor Loss: -6284.253631591797  
Episode 4362: Time: 0.5797891616821289, Total Reward: 489.5415767032133, Q Loss: 116604.5775756836, Actor Loss: -26064.252716064453  
Episode 4363: Time: 0.3543543815612793, Total Reward: 294.3439237331609, Q Loss: 67551.29229736328, Actor Loss: -16319.079681396484  
Episode 4364: Time: 0.353496789932251, Total Reward: 295.62503788155425, Q Loss: 60659.53985595703, Actor Loss: -15815.104400634766  
Episode 4365: Time: 0.3329038619995117, Total Reward: 275.2235056742667, Q Loss: 60192.62774658203, Actor Loss: -15205.578796386719  
Episode 4366: Time: 0.5778920650482178, Total Reward: 488.61863240267894, Q Loss: 115550.23272705078, Actor Loss: -25725.284057617188  
Episode 4367: Time: 0.32207465171813965, Total Reward: 268.25760481718646, Q Loss: 68753.66455078125, Actor Loss: -14398.975402832031  
Episode 4368: Time: 0.20387721061706543, Total Reward: 165.90496350372942, Q Loss: 31651.562255859375, Actor Loss: -9212.118194580078  
Episode 4369: Time: 0.45064353942871094, Total Reward: 380.3574687459117, Q Loss: 86466.6890258789, Actor Loss: -19608.561889648438  
Episode 4370: Time: 0.4294884204864502, Total Reward: 359.48826336454783, Q Loss: 71829.11291503906, Actor Loss: -19635.83184814453  
Episode 4371: Time: 0.17190265655517578, Total Reward: 136.8744802875794, Q Loss: 36578.4306640625, Actor Loss: -7616.588439941406  
Episode 4372: Time: 0.3116011619567871, Total Reward: 259.10413687252213, Q Loss: 71102.31463623047, Actor Loss: -13853.186553955078  
Episode 4373: Time: 0.525484561920166, Total Reward: 444.69718876514435, Q Loss: 99049.50622558594, Actor Loss: -23580.673889160156  
Episode 4374: Time: 0.2901754379272461, Total Reward: 238.96849066008735, Q Loss: 48466.560607910156, Actor Loss: -12941.021850585938  
Episode 4375: Time: 0.39738917350769043, Total Reward: 333.27756543839604, Q Loss: 86687.16333007812, Actor Loss: -18370.836791992188  
Episode 4376: Time: 0.12913799285888672, Total Reward: 100.8863640175107, Q Loss: 23594.872314453125, Actor Loss: -5665.468170166016  
Episode 4377: Time: 0.3336794376373291, Total Reward: 277.226641142265, Q Loss: 73745.39916992188, Actor Loss: -14720.366638183594  
Episode 4378: Time: 0.3334665298461914, Total Reward: 276.9165747461317, Q Loss: 62608.80645751953, Actor Loss: -15231.549438476562  
Episode 4379: Time: 0.1292111873626709, Total Reward: 100.82018507839263, Q Loss: 29506.64013671875, Actor Loss: -5987.322662353516  
Episode 4380: Time: 0.07568049430847168, Total Reward: 54.070906106195054, Q Loss: 11781.827453613281, Actor Loss: -3205.3955688476562

Episode 4381: Time: 0.376309871673584, Total Reward: 311.4285912614372, Q Loss: 72133.70678710938, Actor Loss: -16338.827270507812  
Episode 4382: Time: 0.33257484436035156, Total Reward: 274.7822073665961, Q Loss: 62966.86279296875, Actor Loss: -15204.736755371094  
Episode 4383: Time: 0.1720280647277832, Total Reward: 136.84659859193022, Q Loss: 36518.43927001953, Actor Loss: -7654.5894775390625  
Episode 4384: Time: 0.30132555961608887, Total Reward: 249.47562705887492, Q Loss: 82331.32592773438, Actor Loss: -13382.959838867188  
Episode 4385: Time: 0.2584352493286133, Total Reward: 212.11783236330422, Q Loss: 42796.213439941406, Actor Loss: -11339.988189697266  
Episode 4386: Time: 0.5801396369934082, Total Reward: 491.15695670618487, Q Loss: 108793.96075439453, Actor Loss: -25684.421173095703  
Episode 4387: Time: 0.5055868625640869, Total Reward: 427.81904767324204, Q Loss: 118332.31530761719, Actor Loss: -23248.826202392578  
Episode 4388: Time: 0.28043031692504883, Total Reward: 230.01226599919042, Q Loss: 52459.825134277344, Actor Loss: -12353.460540771484  
Episode 4389: Time: 0.33367013931274414, Total Reward: 276.7235297681743, Q Loss: 62233.338928222656, Actor Loss: -14952.386260986328  
Episode 4390: Time: 0.7095112800598145, Total Reward: 599.980302638524, Q Loss: 125590.61071777344, Actor Loss: -32234.31039428711  
Episode 4391: Time: 0.2049107551574707, Total Reward: 166.09189108842867, Q Loss: 36842.51708984375, Actor Loss: -9288.140228271484  
Episode 4392: Time: 0.3230903148651123, Total Reward: 268.7758634317414, Q Loss: 59507.978515625, Actor Loss: -14462.101867675781  
Episode 4393: Time: 0.19458985328674316, Total Reward: 155.75625085918125, Q Loss: 45869.75732421875, Actor Loss: -8878.260925292969  
Episode 4394: Time: 0.5479083061218262, Total Reward: 460.68656118296906, Q Loss: 116892.89184570312, Actor Loss: -24892.129943847656  
Episode 4395: Time: 0.3227956295013428, Total Reward: 267.01048007124075, Q Loss: 66410.80285644531, Actor Loss: -14466.276458740234  
Episode 4396: Time: 0.13997435569763184, Total Reward: 110.20191355877192, Q Loss: 32760.076232910156, Actor Loss: -6666.673767089844  
Episode 4397: Time: 0.38695216178894043, Total Reward: 319.5614707885586, Q Loss: 86462.94519042969, Actor Loss: -17715.220764160156  
Episode 4398: Time: 0.2046511173248291, Total Reward: 165.65479239510609, Q Loss: 41817.987548828125, Actor Loss: -9081.15249633789  
Episode 4399: Time: 0.13986992835998535, Total Reward: 108.39210302715684, Q Loss: 34086.7109375, Actor Loss: -6340.720886230469  
Validation Mean: 9356.096358991732, Validation Std: 0.23140550099915033  
saving model  
Episode 4400: Time: 0.6259663105010986, Total Reward: 529.4716729389684, Q Loss: 116360.90356445312, Actor Loss: -28480.988800048828  
Episode 4401: Time: 0.6016416549682617, Total Reward: 508.24766486282806, Q Loss: 121316.90454101562, Actor Loss: -27332.48748779297  
Episode 4402: Time: 0.3121812343597412, Total Reward: 258.45019454148434, Q Loss: 61468.08770751953, Actor Loss: -14209.510284423828  
Episode 4403: Time: 0.3665041923522949, Total Reward: 303.2199160612682, Q Loss: 89060.00817871094, Actor Loss: -17074.63427734375  
Episode 4404: Time: 0.3025369644165039, Total Reward: 248.57373679042774, Q Loss: 65875.23937988281, Actor Loss: -14048.435485839844  
Episode 4405: Time: 0.7524440288543701, Total Reward: 638.8672737857192, Q Loss: 149804.59869384766, Actor Loss: -34593.36071777344  
Episode 4406: Time: 0.7199862003326416, Total Reward: 611.7548071919667, Q Loss: 155311.2764892578, Actor Loss: -33410.1188659668  
Episode 4407: Time: 0.21535205841064453, Total Reward: 174.40237066942058, Q Loss: 48998.127685546875, Actor Loss: -9915.306213378906

Episode 4408: Time: 0.29040956497192383, Total Reward: 240.73945350705958, Q Loss: 67142.84979248047, Actor Loss: -13073.779357910156  
Episode 4409: Time: 0.29051947593688965, Total Reward: 240.89685143946312, Q Loss: 65369.109130859375, Actor Loss: -13141.237274169922  
Episode 4410: Time: 0.5912747383117676, Total Reward: 500.2428833903567, Q Loss: 125391.66772460938, Actor Loss: -28035.91778564453  
Episode 4411: Time: 0.24790430068969727, Total Reward: 202.2154837391963, Q Loss: 50462.584716796875, Actor Loss: -11338.025512695312  
Episode 4412: Time: 0.3336048126220703, Total Reward: 277.04601112985256, Q Loss: 58818.613708496094, Actor Loss: -15630.065490722656  
Episode 4413: Time: 0.19332551956176758, Total Reward: 157.27805233220187, Q Loss: 38641.32275390625, Actor Loss: -8854.02505493164  
Episode 4414: Time: 0.3657991886138916, Total Reward: 304.98007901576005, Q Loss: 73603.25512695312, Actor Loss: -17250.965942382812  
Episode 4415: Time: 0.15079712867736816, Total Reward: 119.44431584242122, Q Loss: 32612.40673828125, Actor Loss: -7010.9224853515625  
Episode 4416: Time: 0.5594451427459717, Total Reward: 474.44354307649473, Q Loss: 126574.40478515625, Actor Loss: -26084.73895263672  
Episode 4417: Time: 0.08640432357788086, Total Reward: 63.47812400464823, Q Loss: 24202.610717773438, Actor Loss: -3972.318084716797  
Episode 4418: Time: 0.4950411319732666, Total Reward: 417.934286629266, Q Loss: 108830.5546875, Actor Loss: -22900.498138427734  
Episode 4419: Time: 0.41984057426452637, Total Reward: 351.7423787991393, Q Loss: 87522.13635253906, Actor Loss: -19190.816131591797  
Episode 4420: Time: 0.4415247440338135, Total Reward: 371.7007483761585, Q Loss: 91100.3179321289, Actor Loss: -20640.062103271484  
Episode 4421: Time: 0.15131616592407227, Total Reward: 119.57093952768886, Q Loss: 31084.247314453125, Actor Loss: -6629.8477783203125  
Episode 4422: Time: 0.4738154411315918, Total Reward: 398.727893213448, Q Loss: 112498.01513671875, Actor Loss: -22167.68182373047  
Episode 4423: Time: 0.41904187202453613, Total Reward: 351.76491955266397, Q Loss: 103056.9907836914, Actor Loss: -19832.662841796875  
Episode 4424: Time: 0.37638378143310547, Total Reward: 315.3690441787577, Q Loss: 73449.88604736328, Actor Loss: -17617.666015625  
Episode 4425: Time: 0.2692873477935791, Total Reward: 221.41264628696905, Q Loss: 67237.22680664062, Actor Loss: -12945.065063476562  
Episode 4426: Time: 0.6123733520507812, Total Reward: 520.744972561254, Q Loss: 134379.47723388672, Actor Loss: -28848.61407470703  
Episode 4427: Time: 0.26905012130737305, Total Reward: 220.48529365462727, Q Loss: 59191.14678955078, Actor Loss: -12560.263641357422  
Episode 4428: Time: 0.3013432025909424, Total Reward: 248.73330768989507, Q Loss: 62518.40417480469, Actor Loss: -14087.234252929688  
Episode 4429: Time: 0.19387221336364746, Total Reward: 156.41717732419096, Q Loss: 43164.614013671875, Actor Loss: -8884.515075683594  
Episode 4430: Time: 0.8374772071838379, Total Reward: 714.8243431235267, Q Loss: 185557.43280029297, Actor Loss: -39812.562072753906  
Episode 4431: Time: 0.3876180648803711, Total Reward: 323.1661302220417, Q Loss: 93794.58703613281, Actor Loss: -18304.333435058594  
Episode 4432: Time: 0.36647963523864746, Total Reward: 306.33959129373596, Q Loss: 93942.43310546875, Actor Loss: -17474.574432373047  
Episode 4433: Time: 0.20566749572753906, Total Reward: 165.68457348459233, Q Loss: 51529.844482421875, Actor Loss: -9801.43130493164  
Episode 4434: Time: 0.17283105850219727, Total Reward: 138.22192746651356, Q Loss: 38469.744873046875, Actor Loss: -8617.901245117188  
Episode 4435: Time: 0.9445695877075195, Total Reward: 807.0445530796196, Q Loss: 200865.00360107422, Actor Loss: -45322.47268676758



Episode 4436: Time: 0.4291865825653076, Total Reward: 359.9792704200233, Q Loss: 98788.89190673828, Actor Loss: -20300.545318603516  
Episode 4437: Time: 0.7834033966064453, Total Reward: 668.2425285663721, Q Loss: 192471.53674316406, Actor Loss: -38086.93716430664  
Episode 4438: Time: 0.538499116897583, Total Reward: 453.58248852677116, Q Loss: 128291.98040771484, Actor Loss: -25614.116821289062  
Episode 4439: Time: 0.48433518409729004, Total Reward: 408.44997576854433, Q Loss: 106819.85290527344, Actor Loss: -23617.164276123047  
Episode 4440: Time: 0.15064740180969238, Total Reward: 119.20970027967265, Q Loss: 40364.35437011719, Actor Loss: -7406.4012451171875  
Episode 4441: Time: 0.5377867221832275, Total Reward: 453.79801054756217, Q Loss: 124579.6162109375, Actor Loss: -25884.869354248047  
Episode 4442: Time: 0.5479834079742432, Total Reward: 462.1288710831784, Q Loss: 126700.40856933594, Actor Loss: -26184.03924560547  
Episode 4443: Time: 0.2585148811340332, Total Reward: 212.25526502292186, Q Loss: 58414.703186035156, Actor Loss: -12459.700073242188  
Episode 4444: Time: 0.3887307643890381, Total Reward: 323.56708848541933, Q Loss: 92927.9189453125, Actor Loss: -18403.42611694336  
Episode 4445: Time: 0.47335100173950195, Total Reward: 395.87333596524513, Q Loss: 103831.25537109375, Actor Loss: -22901.72869873047  
Episode 4446: Time: 0.5804443359375, Total Reward: 491.0181728374755, Q Loss: 132885.3670654297, Actor Loss: -28186.86981201172  
Episode 4447: Time: 0.15122318267822266, Total Reward: 118.94750109969168, Q Loss: 30087.5126953125, Actor Loss: -7195.551513671875  
Episode 4448: Time: 0.1297740936279297, Total Reward: 100.92056171649791, Q Loss: 26236.41082763672, Actor Loss: -6189.1868896484375  
Episode 4449: Time: 0.31130194664001465, Total Reward: 259.2399825898695, Q Loss: 89551.83825683594, Actor Loss: -14844.672088623047  
Episode 4450: Time: 0.3013944625854492, Total Reward: 249.69523850092025, Q Loss: 71477.9443359375, Actor Loss: -14512.357238769531  
Episode 4451: Time: 0.2368459701538086, Total Reward: 194.30308477800082, Q Loss: 61688.19470214844, Actor Loss: -11495.57406616211  
Episode 4452: Time: 0.09688520431518555, Total Reward: 73.04671238559136, Q Loss: 20471.081298828125, Actor Loss: -4533.214630126953  
Episode 4453: Time: 0.2795283794403076, Total Reward: 231.17390468026286, Q Loss: 56221.97766113281, Actor Loss: -13520.163452148438  
Episode 4454: Time: 0.1936173439025879, Total Reward: 156.3940862074938, Q Loss: 57618.80505371094, Actor Loss: -9479.206329345703  
Episode 4455: Time: 0.22635746002197266, Total Reward: 184.1618182417111, Q Loss: 53698.529296875, Actor Loss: -10955.702545166016  
Episode 4456: Time: 0.2480611801147461, Total Reward: 203.33135821208185, Q Loss: 61875.712463378906, Actor Loss: -12047.253509521484  
Episode 4457: Time: 0.3874349594116211, Total Reward: 323.27110851186586, Q Loss: 104558.1904296875, Actor Loss: -18992.293670654297  
Episode 4458: Time: 0.3231511116027832, Total Reward: 268.65021967950565, Q Loss: 75636.69067382812, Actor Loss: -15746.136047363281  
Episode 4459: Time: 0.559420108795166, Total Reward: 472.32758163881044, Q Loss: 118742.56713867188, Actor Loss: -27494.02182006836  
Episode 4460: Time: 0.39814114570617676, Total Reward: 332.83502428187967, Q Loss: 91601.00659179688, Actor Loss: -19379.68588256836  
Episode 4461: Time: 0.28043699264526367, Total Reward: 230.66291523688636, Q Loss: 66487.4408569336, Actor Loss: -13258.74755859375  
Episode 4462: Time: 0.2589707374572754, Total Reward: 212.74188299543448, Q Loss: 61321.480712890625, Actor Loss: -12661.791900634766  
Episode 4463: Time: 0.43061256408691406, Total Reward: 360.46451222795497, Q Loss: 110949.1294555664, Actor Loss: -20813.286254882812

Episode 4464: Time: 0.16154265403747559, Total Reward: 128.839350750484, Q Loss: 36683.7568359375, Actor Loss: -7948.635406494141  
Episode 4465: Time: 0.3551151752471924, Total Reward: 296.25392597201983, Q Loss: 87754.8193359375, Actor Loss: -17293.600158691406  
Episode 4466: Time: 0.12919235229492188, Total Reward: 101.10972926542854, Q Loss: 30918.316040039062, Actor Loss: -6299.297790527344  
Episode 4467: Time: 0.09737825393676758, Total Reward: 72.67526439880459, Q Loss: 25002.453491210938, Actor Loss: -4730.973541259766  
Episode 4468: Time: 0.4734513759613037, Total Reward: 399.1052027050974, Q Loss: 106338.22717285156, Actor Loss: -23144.787078857422  
Episode 4469: Time: 0.22592401504516602, Total Reward: 184.5330877009867, Q Loss: 48679.031677246094, Actor Loss: -11083.140808105469  
Episode 4470: Time: 0.21563005447387695, Total Reward: 173.53622961959093, Q Loss: 60240.126708984375, Actor Loss: -10573.685791015625  
Episode 4471: Time: 0.2796299457550049, Total Reward: 230.79524036454242, Q Loss: 67659.04577636719, Actor Loss: -13376.96939086914  
Episode 4472: Time: 0.44100403785705566, Total Reward: 370.60092661473385, Q Loss: 105214.82666015625, Actor Loss: -21227.189178466797  
Episode 4473: Time: 0.3228316307067871, Total Reward: 268.42037418448126, Q Loss: 85936.06091308594, Actor Loss: -15813.282958984375  
Episode 4474: Time: 0.23683786392211914, Total Reward: 192.85121044678732, Q Loss: 50662.145263671875, Actor Loss: -11255.40591430664  
Episode 4475: Time: 0.48478150367736816, Total Reward: 405.78801485609387, Q Loss: 111629.9107055664, Actor Loss: -23452.953979492188  
Episode 4476: Time: 0.3654613494873047, Total Reward: 306.12222544759436, Q Loss: 78007.74432373047, Actor Loss: -18243.530487060547  
Episode 4477: Time: 0.40886640548706055, Total Reward: 342.38981751877856, Q Loss: 92603.07019042969, Actor Loss: -20073.758331298828  
Episode 4478: Time: 0.24780774116516113, Total Reward: 203.23320640071478, Q Loss: 53155.77490234375, Actor Loss: -12500.290588378906  
Episode 4479: Time: 1.0109903812408447, Total Reward: 861.1156502947833, Q Loss: 247855.96716308594, Actor Loss: -51112.37191772461  
Episode 4480: Time: 0.2476208209991455, Total Reward: 203.27376990449918, Q Loss: 55407.454528808594, Actor Loss: -12301.712524414062  
Episode 4481: Time: 0.34483909606933594, Total Reward: 285.9122967714077, Q Loss: 84677.03631591797, Actor Loss: -17290.536865234375  
Episode 4482: Time: 0.4954047203063965, Total Reward: 417.34095762665413, Q Loss: 118795.48889160156, Actor Loss: -24501.090057373047  
Episode 4483: Time: 0.2050800323486328, Total Reward: 165.31607703629066, Q Loss: 51050.17999267578, Actor Loss: -10418.697723388672  
Episode 4484: Time: 0.34463071823120117, Total Reward: 287.38382479446454, Q Loss: 82757.56262207031, Actor Loss: -17451.413299560547  
Episode 4485: Time: 0.29122495651245117, Total Reward: 240.50755863437743, Q Loss: 71871.7250366211, Actor Loss: -14793.801483154297  
Episode 4486: Time: 0.40973997116088867, Total Reward: 342.7466511824758, Q Loss: 95555.34783935547, Actor Loss: -20545.747436523438  
Episode 4487: Time: 0.22701621055603027, Total Reward: 184.71201700630917, Q Loss: 57626.8076171875, Actor Loss: -10989.985321044922  
Episode 4488: Time: 0.24823832511901855, Total Reward: 202.6447353698158, Q Loss: 68015.71362304688, Actor Loss: -12410.187774658203  
Episode 4489: Time: 0.23750710487365723, Total Reward: 192.50761195329326, Q Loss: 74186.15270996094, Actor Loss: -11670.29086303711  
Episode 4490: Time: 0.33385372161865234, Total Reward: 278.3023860020819, Q Loss: 98837.92785644531, Actor Loss: -16516.211853027344  
Episode 4491: Time: 0.10783982276916504, Total Reward: 81.46365028035821, Q Loss: 23711.831176757812, Actor Loss: -5196.009002685547

Episode 4492: Time: 0.15107464790344238, Total Reward: 119.35406515172424, Q Loss: 32470.321716308594, Actor Loss: -7217.170349121094  
Episode 4493: Time: 0.22683453559875488, Total Reward: 183.5633087057778, Q Loss: 57973.56530761719, Actor Loss: -11651.814849853516  
Episode 4494: Time: 0.3017251491546631, Total Reward: 249.78528278555623, Q Loss: 82886.81555175781, Actor Loss: -15239.72787475586  
Episode 4495: Time: 0.1506059169769287, Total Reward: 119.91041881380487, Q Loss: 35792.58837890625, Actor Loss: -7698.073211669922  
Episode 4496: Time: 0.4414234161376953, Total Reward: 371.0115417557757, Q Loss: 126333.49114990234, Actor Loss: -22746.336151123047  
Episode 4497: Time: 0.3876922130584717, Total Reward: 321.5508675745375, Q Loss: 88220.96087646484, Actor Loss: -19735.557861328125  
Episode 4498: Time: 0.2262561321258545, Total Reward: 184.48175465796223, Q Loss: 56511.158935546875, Actor Loss: -11498.114776611328  
Episode 4499: Time: 0.2589395046234131, Total Reward: 209.73070342754767, Q Loss: 70460.55004882812, Actor Loss: -13195.354766845703  
Validation Mean: 9352.592472693685, Validation Std: 0.7998048421757015  
saving model  
Episode 4500: Time: 0.4005584716796875, Total Reward: 333.40960181513407, Q Loss: 100197.58374023438, Actor Loss: -20116.59848022461  
Episode 4501: Time: 0.3124532699584961, Total Reward: 258.598001700089, Q Loss: 77199.4794921875, Actor Loss: -15528.598602294922  
Episode 4502: Time: 0.33416104316711426, Total Reward: 277.37144385672343, Q Loss: 79489.31610107422, Actor Loss: -16787.339233398438  
Episode 4503: Time: 0.4310171604156494, Total Reward: 361.6851386671696, Q Loss: 95242.11431884766, Actor Loss: -21760.909545898438  
Episode 4504: Time: 0.6023919582366943, Total Reward: 510.4060860826516, Q Loss: 135727.20654296875, Actor Loss: -30504.900909423828  
Episode 4505: Time: 0.2492516040802002, Total Reward: 199.70694748396275, Q Loss: 71356.21630859375, Actor Loss: -12627.891723632812  
Episode 4506: Time: 0.24839520454406738, Total Reward: 201.8939260060276, Q Loss: 67212.47180175781, Actor Loss: -12347.930450439453  
Episode 4507: Time: 0.7105104923248291, Total Reward: 603.1650189658258, Q Loss: 182701.8155517578, Actor Loss: -35665.13330078125  
Episode 4508: Time: 0.22647356986999512, Total Reward: 184.67568228378326, Q Loss: 55380.692932128906, Actor Loss: -11806.943145751953  
Episode 4509: Time: 0.16150593757629395, Total Reward: 128.73410144499775, Q Loss: 46201.727783203125, Actor Loss: -8443.569946289062  
Episode 4510: Time: 0.495013952255249, Total Reward: 417.3749048104372, Q Loss: 133712.673828125, Actor Loss: -24822.57958984375  
Episode 4511: Time: 0.22684216499328613, Total Reward: 182.2015451342417, Q Loss: 54825.82287597656, Actor Loss: -11269.5419921875  
Episode 4512: Time: 0.4534032344818115, Total Reward: 379.9958006777808, Q Loss: 110628.12420654297, Actor Loss: -22495.459442138672  
Episode 4513: Time: 0.3987269401550293, Total Reward: 332.6212485943557, Q Loss: 92950.69360351562, Actor Loss: -19962.652099609375  
Episode 4514: Time: 0.19382596015930176, Total Reward: 157.05991457847327, Q Loss: 45245.55694580078, Actor Loss: -9974.721069335938  
Episode 4515: Time: 0.0973210334777832, Total Reward: 72.21915018742337, Q Loss: 29132.979736328125, Actor Loss: -4813.121551513672  
Episode 4516: Time: 0.23722600936889648, Total Reward: 192.08057176143114, Q Loss: 62760.31335449219, Actor Loss: -12141.288757324219  
Episode 4517: Time: 0.537938117980957, Total Reward: 454.5089773987061, Q Loss: 138253.12969970703, Actor Loss: -27845.537048339844  
Episode 4518: Time: 0.12949824333190918, Total Reward: 100.79323653971915, Q Loss: 43327.88024902344, Actor Loss: -6991.075744628906

Episode 4519: Time: 0.4206264019012451, Total Reward: 351.24511124645096, Q Loss: 115220.01330566406, Actor Loss: -21432.785888671875  
Episode 4520: Time: 0.3127107620239258, Total Reward: 258.8171985439321, Q Loss: 82945.1781616211, Actor Loss: -15764.715026855469  
Episode 4521: Time: 0.5491673946380615, Total Reward: 464.1664102164491, Q Loss: 125936.45080566406, Actor Loss: -28051.555145263672  
Episode 4522: Time: 0.14033246040344238, Total Reward: 109.99738754040715, Q Loss: 30819.247619628906, Actor Loss: -6968.656341552734  
Episode 4523: Time: 0.19452929496765137, Total Reward: 156.0538881891971, Q Loss: 49808.32727050781, Actor Loss: -9869.289245605469  
Episode 4524: Time: 0.20557117462158203, Total Reward: 165.86001444352164, Q Loss: 46436.21520996094, Actor Loss: -10269.235656738281  
Episode 4525: Time: 0.19424033164978027, Total Reward: 156.12463924278444, Q Loss: 46245.91491699219, Actor Loss: -9849.585906982422  
Episode 4526: Time: 0.3448982238769531, Total Reward: 286.43069835565296, Q Loss: 73606.81762695312, Actor Loss: -17756.317291259766  
Episode 4527: Time: 0.17264723777770996, Total Reward: 137.11064317929743, Q Loss: 38333.76452636719, Actor Loss: -8708.630645751953  
Episode 4528: Time: 0.8931534290313721, Total Reward: 760.1279858811356, Q Loss: 246923.54150390625, Actor Loss: -46619.83480834961  
Episode 4529: Time: 0.5915954113006592, Total Reward: 502.35769956609414, Q Loss: 158663.50219726562, Actor Loss: -30757.553985595703  
Episode 4530: Time: 0.2377336025238037, Total Reward: 192.64358761436426, Q Loss: 60619.55651855469, Actor Loss: -12316.867431640625  
Episode 4531: Time: 0.1616833209991455, Total Reward: 127.00675063473764, Q Loss: 42426.32312011719, Actor Loss: -8428.233001708984  
Episode 4532: Time: 0.12999176979064941, Total Reward: 100.63427803311626, Q Loss: 35021.63635253906, Actor Loss: -6463.8572998046875  
Episode 4533: Time: 0.34474968910217285, Total Reward: 286.87746028968496, Q Loss: 84918.25769042969, Actor Loss: -17747.30404663086  
Episode 4534: Time: 0.29137468338012695, Total Reward: 239.75346241530468, Q Loss: 65021.773193359375, Actor Loss: -14874.27279663086  
Episode 4535: Time: 0.1293954849243164, Total Reward: 100.18650172172, Q Loss: 32240.958740234375, Actor Loss: -6676.779357910156  
Episode 4536: Time: 0.366685152053833, Total Reward: 305.53410101151394, Q Loss: 92501.8388671875, Actor Loss: -19109.973663330078  
Episode 4537: Time: 0.5919477939605713, Total Reward: 500.6221457465094, Q Loss: 147254.3106689453, Actor Loss: -30805.159606933594  
Episode 4538: Time: 0.2264854907989502, Total Reward: 184.46750048996148, Q Loss: 47120.704345703125, Actor Loss: -11845.90771484375  
Episode 4539: Time: 0.3344898223876953, Total Reward: 277.17092586742496, Q Loss: 82853.99615478516, Actor Loss: -17717.135314941406  
Episode 4540: Time: 0.1830277442932129, Total Reward: 146.7364271977301, Q Loss: 48003.20568847656, Actor Loss: -9712.926818847656  
Episode 4541: Time: 0.3441438674926758, Total Reward: 286.91920242014095, Q Loss: 76892.25402832031, Actor Loss: -17876.98861694336  
Episode 4542: Time: 0.2912731170654297, Total Reward: 240.10408577122394, Q Loss: 80898.99133300781, Actor Loss: -15184.358306884766  
Episode 4543: Time: 0.3450937271118164, Total Reward: 287.0196885245422, Q Loss: 88037.88720703125, Actor Loss: -17791.088500976562  
Episode 4544: Time: 0.22660112380981445, Total Reward: 184.95792820597762, Q Loss: 50124.78063964844, Actor Loss: -11952.176361083984  
Episode 4545: Time: 0.21590924263000488, Total Reward: 175.33218091407997, Q Loss: 56850.36535644531, Actor Loss: -11529.296173095703  
Episode 4546: Time: 0.1511852741241455, Total Reward: 119.55091544086679, Q Loss: 31964.479248046875, Actor Loss: -7977.559783935547

Episode 4547: Time: 0.4306454658508301, Total Reward: 361.1188677041428, Q Loss: 106386.80224609375, Actor Loss: -22472.527404785156  
Episode 4548: Time: 0.08657503128051758, Total Reward: 62.583761521180286, Q Loss: 19628.153198242188, Actor Loss: -4572.555816650391  
Episode 4549: Time: 0.34493494033813477, Total Reward: 286.5981627258627, Q Loss: 102039.45837402344, Actor Loss: -17630.757354736328  
Episode 4550: Time: 0.33417701721191406, Total Reward: 276.51212396759473, Q Loss: 84633.64050292969, Actor Loss: -18259.664489746094  
Episode 4551: Time: 0.24823713302612305, Total Reward: 202.81593002958704, Q Loss: 64737.11633300781, Actor Loss: -13530.532348632812  
Episode 4552: Time: 0.44182896614074707, Total Reward: 369.61800237957715, Q Loss: 120354.96435546875, Actor Loss: -23117.168975830078  
Episode 4553: Time: 0.1508941650390625, Total Reward: 118.6050866567529, Q Loss: 42550.00061035156, Actor Loss: -8383.074462890625  
Episode 4554: Time: 0.7530076503753662, Total Reward: 641.188672629326, Q Loss: 203162.41876220703, Actor Loss: -39841.753356933594  
Episode 4555: Time: 0.2160632610321045, Total Reward: 174.6028552818505, Q Loss: 56437.804931640625, Actor Loss: -11596.005432128906  
Episode 4556: Time: 0.28121304512023926, Total Reward: 230.63394408887447, Q Loss: 65848.01354980469, Actor Loss: -14390.261932373047  
Episode 4557: Time: 0.7536146640777588, Total Reward: 637.7520682498374, Q Loss: 208240.36486816406, Actor Loss: -39457.19338989258  
Episode 4558: Time: 0.32315611839294434, Total Reward: 268.46168418497706, Q Loss: 97727.22888183594, Actor Loss: -17411.222564697266  
Episode 4559: Time: 0.2478489875793457, Total Reward: 201.03250436616622, Q Loss: 65764.314453125, Actor Loss: -12978.676940917969  
Episode 4560: Time: 0.1831526756286621, Total Reward: 146.70807434562818, Q Loss: 54915.48791503906, Actor Loss: -9984.120300292969  
Episode 4561: Time: 0.5059285163879395, Total Reward: 426.93330496036646, Q Loss: 139927.4451904297, Actor Loss: -26767.985748291016  
Episode 4562: Time: 0.18333029747009277, Total Reward: 147.39762873053027, Q Loss: 61911.42687988281, Actor Loss: -9838.061462402344  
Episode 4563: Time: 0.16228413581848145, Total Reward: 129.13146844749667, Q Loss: 47557.8720703125, Actor Loss: -8582.17529296875  
Episode 4564: Time: 0.3234267234802246, Total Reward: 268.08827782989357, Q Loss: 85466.93133544922, Actor Loss: -17208.640533447266  
Episode 4565: Time: 0.30193424224853516, Total Reward: 248.37672904461581, Q Loss: 86481.46264648438, Actor Loss: -15845.508483886719  
Episode 4566: Time: 0.14013671875, Total Reward: 110.09130518218173, Q Loss: 40031.198974609375, Actor Loss: -7475.367401123047  
Episode 4567: Time: 0.45389509201049805, Total Reward: 380.5192252782582, Q Loss: 132548.58367919922, Actor Loss: -23929.71859741211  
Episode 4568: Time: 0.1729581356048584, Total Reward: 137.69317417557374, Q Loss: 52126.407958984375, Actor Loss: -9670.9423828125  
Episode 4569: Time: 0.549968957901001, Total Reward: 461.297885129632, Q Loss: 157075.50567626953, Actor Loss: -29005.70541381836  
Episode 4570: Time: 0.27996373176574707, Total Reward: 230.92561195310753, Q Loss: 70278.32995605469, Actor Loss: -14644.088470458984  
Episode 4571: Time: 0.33423566818237305, Total Reward: 277.5429588555676, Q Loss: 95414.26977539062, Actor Loss: -17830.081970214844  
Episode 4572: Time: 0.20499920845031738, Total Reward: 164.7260468212152, Q Loss: 67298.12524414062, Actor Loss: -10927.894561767578  
Episode 4573: Time: 0.08647489547729492, Total Reward: 63.05624650598905, Q Loss: 27175.094970703125, Actor Loss: -4698.360107421875  
Episode 4574: Time: 0.6238284111022949, Total Reward: 529.4601584872062, Q Loss: 163661.2528076172, Actor Loss: -33656.03387451172

Episode 4575: Time: 0.20497369766235352, Total Reward: 165.40424206418973, Q Loss: 52363.46057128906, Actor Loss: -11219.114868164062  
Episode 4576: Time: 0.2047121524810791, Total Reward: 164.5779971445829, Q Loss: 65112.14001464844, Actor Loss: -11049.46533203125  
Episode 4577: Time: 0.15060853958129883, Total Reward: 119.2534496810887, Q Loss: 47225.362365722656, Actor Loss: -8118.850524902344  
Episode 4578: Time: 0.24794936180114746, Total Reward: 203.2975907460881, Q Loss: 76601.76586914062, Actor Loss: -13282.742126464844  
Episode 4579: Time: 0.1614084243774414, Total Reward: 129.32307734180176, Q Loss: 39840.089111328125, Actor Loss: -8767.651611328125  
Episode 4580: Time: 0.10827040672302246, Total Reward: 81.88056840344761, Q Loss: 27128.43603515625, Actor Loss: -5952.5711669921875  
Episode 4581: Time: 0.09699130058288574, Total Reward: 72.47473604062029, Q Loss: 24234.667236328125, Actor Loss: -5025.391296386719  
Episode 4582: Time: 0.18329501152038574, Total Reward: 147.38240377254667, Q Loss: 52168.85046386719, Actor Loss: -10053.280456542969  
Episode 4583: Time: 0.33292412757873535, Total Reward: 275.76894445131677, Q Loss: 92464.37841796875, Actor Loss: -17702.655639648438  
Episode 4584: Time: 0.24807476997375488, Total Reward: 201.25486985505043, Q Loss: 62458.33435058594, Actor Loss: -13227.171478271484  
Episode 4585: Time: 0.22605156898498535, Total Reward: 183.3011285288279, Q Loss: 65478.08728027344, Actor Loss: -11975.440734863281  
Episode 4586: Time: 0.19408631324768066, Total Reward: 156.36068769794102, Q Loss: 59892.276611328125, Actor Loss: -10264.209686279297  
Episode 4587: Time: 0.3767373561859131, Total Reward: 313.6194940246121, Q Loss: 119985.58599853516, Actor Loss: -21024.730834960938  
Episode 4588: Time: 0.1078946590423584, Total Reward: 82.5295677611747, Q Loss: 30700.3388671875, Actor Loss: -5930.0555419921875  
Episode 4589: Time: 0.741523265838623, Total Reward: 629.5360609610668, Q Loss: 202810.37420654297, Actor Loss: -40581.59848022461  
Episode 4590: Time: 0.269695520401001, Total Reward: 220.4413885398547, Q Loss: 65310.00457763672, Actor Loss: -14789.724182128906  
Episode 4591: Time: 0.19430828094482422, Total Reward: 156.13697474911072, Q Loss: 53489.14074707031, Actor Loss: -10106.821472167969  
Episode 4592: Time: 0.1520555019378662, Total Reward: 119.07542680144648, Q Loss: 40367.88806152344, Actor Loss: -8091.245910644531  
Episode 4593: Time: 0.22683167457580566, Total Reward: 181.01180214895348, Q Loss: 70618.76782226562, Actor Loss: -12143.08432006836  
Episode 4594: Time: 0.18349313735961914, Total Reward: 146.4944442213027, Q Loss: 54489.171630859375, Actor Loss: -10204.219177246094  
Episode 4595: Time: 0.3124425411224365, Total Reward: 256.357350755997, Q Loss: 69783.53942871094, Actor Loss: -17046.049255371094  
Episode 4596: Time: 0.1937732696533203, Total Reward: 156.9613434699432, Q Loss: 41562.34423828125, Actor Loss: -10437.43423461914  
Episode 4597: Time: 0.4512965679168701, Total Reward: 377.2886651990193, Q Loss: 126709.83752441406, Actor Loss: -24884.333557128906  
Episode 4598: Time: 0.18281769752502441, Total Reward: 146.9504519448563, Q Loss: 50142.19970703125, Actor Loss: -10014.930908203125  
Episode 4599: Time: 0.20493793487548828, Total Reward: 165.38047331498615, Q Loss: 61680.53942871094, Actor Loss: -11185.45199584961  
Validation Mean: 9355.168443440205, Validation Std: 0.220492093129164  
saving model  
Episode 4600: Time: 0.21765899658203125, Total Reward: 175.54430489283016, Q Loss: 54695.63684082031, Actor Loss: -11740.567565917969  
Episode 4601: Time: 0.527764081954956, Total Reward: 444.6007842221891, Q Loss: 151642.5014038086, Actor Loss: -28379.367065429688

Episode 4602: Time: 0.10798907279968262, Total Reward: 81.48803347729084, Q Loss: 29343.885498046875, Actor Loss: -6137.236267089844  
Episode 4603: Time: 0.2688589096069336, Total Reward: 222.13673804891314, Q Loss: 74723.24267578125, Actor Loss: -15007.5400390625  
Episode 4604: Time: 0.5585329532623291, Total Reward: 471.6999303918512, Q Loss: 157188.12072753906, Actor Loss: -30448.13232421875  
Episode 4605: Time: 0.1723020076751709, Total Reward: 137.898964397194, Q Loss: 57373.27575683594, Actor Loss: -8944.324127197266  
Episode 4606: Time: 0.9252641201019287, Total Reward: 789.670446927678, Q Loss: 260293.4732055664, Actor Loss: -49621.73941040039  
Episode 4607: Time: 0.4852113723754883, Total Reward: 409.12770223030503, Q Loss: 124382.943359375, Actor Loss: -26478.780487060547  
Episode 4608: Time: 0.39905714988708496, Total Reward: 331.34634352797445, Q Loss: 115892.05908203125, Actor Loss: -22055.73358154297  
Episode 4609: Time: 0.3452565670013428, Total Reward: 285.5165276828199, Q Loss: 104056.05834960938, Actor Loss: -18934.71728515625  
Episode 4610: Time: 0.15113186836242676, Total Reward: 118.87879045173088, Q Loss: 38281.58264160156, Actor Loss: -8463.463470458984  
Episode 4611: Time: 0.2696573734283447, Total Reward: 219.34560569784855, Q Loss: 90252.65710449219, Actor Loss: -14764.587677001953  
Episode 4612: Time: 0.18332958221435547, Total Reward: 147.1267915152433, Q Loss: 74400.96154785156, Actor Loss: -9740.824340820312  
Episode 4613: Time: 0.25889062881469727, Total Reward: 211.5992282451251, Q Loss: 70024.39343261719, Actor Loss: -14231.647491455078  
Episode 4614: Time: 0.549325704574585, Total Reward: 463.8828034152108, Q Loss: 147575.34075927734, Actor Loss: -30499.489013671875  
Episode 4615: Time: 0.2586479187011719, Total Reward: 211.99191154795307, Q Loss: 77145.84851074219, Actor Loss: -14448.877624511719  
Episode 4616: Time: 0.2259082794189453, Total Reward: 183.97813152275737, Q Loss: 69067.83715820312, Actor Loss: -12607.823364257812  
Episode 4617: Time: 0.483870267868042, Total Reward: 407.1613629579198, Q Loss: 131604.1580810547, Actor Loss: -26962.604278564453  
Episode 4618: Time: 0.23645615577697754, Total Reward: 193.6599667035438, Q Loss: 65456.04992675781, Actor Loss: -13298.462036132812  
Episode 4619: Time: 0.5367879867553711, Total Reward: 454.3853447374043, Q Loss: 164381.18981933594, Actor Loss: -29577.083374023438  
Episode 4620: Time: 0.3339080810546875, Total Reward: 277.5997278717641, Q Loss: 104016.9609375, Actor Loss: -18343.071258544922  
Episode 4621: Time: 0.3121068477630615, Total Reward: 259.60171970387694, Q Loss: 97536.71411132812, Actor Loss: -17614.768188476562  
Episode 4622: Time: 0.30185723304748535, Total Reward: 249.1765024030423, Q Loss: 95570.50561523438, Actor Loss: -16909.978118896484  
Episode 4623: Time: 0.6348013877868652, Total Reward: 539.4122420804589, Q Loss: 199644.5369873047, Actor Loss: -34938.9309387207  
Episode 4624: Time: 0.4418611526489258, Total Reward: 366.9685420203024, Q Loss: 144178.2442626953, Actor Loss: -24777.467010498047  
Episode 4625: Time: 0.615135669708252, Total Reward: 516.3118763480832, Q Loss: 196610.82934570312, Actor Loss: -34336.13391113281  
Episode 4626: Time: 1.1403205394744873, Total Reward: 973.3518260527471, Q Loss: 331375.9063720703, Actor Loss: -63712.15213012695  
Episode 4627: Time: 1.042372226715088, Total Reward: 890.8676098547177, Q Loss: 327837.2862548828, Actor Loss: -57370.035095214844  
Episode 4628: Time: 0.2905430793762207, Total Reward: 239.98741076458964, Q Loss: 94854.23193359375, Actor Loss: -16012.742218017578  
Episode 4629: Time: 0.5050148963928223, Total Reward: 426.68016340517784, Q Loss: 160010.07275390625, Actor Loss: -28676.1591796875

Episode 4630: Time: 0.37673139572143555, Total Reward: 314.8992562369309, Q Loss: 117203.19189453125, Actor Loss: -21342.66421508789  
Episode 4631: Time: 0.37757301330566406, Total Reward: 314.06678461055236, Q Loss: 114851.92895507812, Actor Loss: -21685.192138671875  
Episode 4632: Time: 0.37714338302612305, Total Reward: 313.2569827753029, Q Loss: 104010.17797851562, Actor Loss: -21209.26141357422  
Episode 4633: Time: 0.17206788063049316, Total Reward: 137.56543886757026, Q Loss: 51179.81628417969, Actor Loss: -9544.552856445312  
Episode 4634: Time: 1.319655179977417, Total Reward: 1134.7479960259564, Q Loss: 421623.76599121094, Actor Loss: -75892.19122314453  
Episode 4635: Time: 0.5377187728881836, Total Reward: 454.1415239360412, Q Loss: 158235.00708007812, Actor Loss: -30760.272216796875  
Episode 4636: Time: 0.37599778175354004, Total Reward: 315.4366150289687, Q Loss: 113677.68908691406, Actor Loss: -21444.537170410156  
Episode 4637: Time: 0.5266268253326416, Total Reward: 444.61201753376326, Q Loss: 177166.9541015625, Actor Loss: -30172.648010253906  
Episode 4638: Time: 0.4197220802307129, Total Reward: 351.6200195548051, Q Loss: 149148.2452392578, Actor Loss: -23938.240020751953  
Episode 4639: Time: 0.3121774196624756, Total Reward: 257.2109864553365, Q Loss: 111155.76574707031, Actor Loss: -18228.786865234375  
Episode 4640: Time: 0.32352328300476074, Total Reward: 268.25538222495254, Q Loss: 112269.05017089844, Actor Loss: -18474.17987060547  
Episode 4641: Time: 0.20509576797485352, Total Reward: 166.20870601478407, Q Loss: 62535.18017578125, Actor Loss: -11839.429107666016  
Episode 4642: Time: 0.3235650062561035, Total Reward: 268.39287559331933, Q Loss: 114962.52209472656, Actor Loss: -17966.082763671875  
Episode 4643: Time: 0.2911067008972168, Total Reward: 240.35228898769992, Q Loss: 92628.42895507812, Actor Loss: -16615.235900878906  
Episode 4644: Time: 0.55938720703125, Total Reward: 472.7247766408482, Q Loss: 187219.14099121094, Actor Loss: -32319.700164794922  
Episode 4645: Time: 0.280200719833374, Total Reward: 229.68386968124702, Q Loss: 83917.4814453125, Actor Loss: -16300.679321289062  
Episode 4646: Time: 0.1837465763092041, Total Reward: 147.43615881430256, Q Loss: 60197.484619140625, Actor Loss: -10557.3603515625  
Episode 4647: Time: 0.3021259307861328, Total Reward: 248.841160811669, Q Loss: 101640.35412597656, Actor Loss: -17369.746215820312  
Episode 4648: Time: 0.2589242458343506, Total Reward: 211.79128556064114, Q Loss: 97597.69848632812, Actor Loss: -15232.007690429688  
Episode 4649: Time: 0.23749732971191406, Total Reward: 191.98556740399115, Q Loss: 87986.62451171875, Actor Loss: -13389.950592041016  
Episode 4650: Time: 0.31226420402526855, Total Reward: 258.89859760303113, Q Loss: 110009.79711914062, Actor Loss: -17679.417419433594  
Episode 4651: Time: 0.49521946907043457, Total Reward: 416.63192495277497, Q Loss: 166319.22674560547, Actor Loss: -29023.841827392578  
Episode 4652: Time: 0.22628259658813477, Total Reward: 184.4416168423967, Q Loss: 68797.6279296875, Actor Loss: -12873.674377441406  
Episode 4653: Time: 0.3986661434173584, Total Reward: 334.28476861487314, Q Loss: 123304.0400390625, Actor Loss: -22743.815185546875  
Episode 4654: Time: 0.205031156539917, Total Reward: 165.04570037443335, Q Loss: 93683.64916992188, Actor Loss: -12123.754211425781  
Episode 4655: Time: 0.2911059856414795, Total Reward: 240.37653206077908, Q Loss: 80940.24450683594, Actor Loss: -16214.370300292969  
Episode 4656: Time: 0.17269682884216309, Total Reward: 137.83786658638041, Q Loss: 56424.829345703125, Actor Loss: -10170.867431640625  
Episode 4657: Time: 0.32357048988342285, Total Reward: 266.03731770826244, Q Loss: 120232.3916015625, Actor Loss: -19195.94158935547



Episode 4658: Time: 0.33440470695495605, Total Reward: 276.5628249855359, Q Loss: 119278.94177246094, Actor Loss: -19573.445861816406  
Episode 4659: Time: 0.3557870388031006, Total Reward: 295.8043965761229, Q Loss: 124478.32971191406, Actor Loss: -20372.828155517578  
Episode 4660: Time: 0.24805021286010742, Total Reward: 202.60115054504035, Q Loss: 73172.77770996094, Actor Loss: -14501.678771972656  
Episode 4661: Time: 0.3563244342803955, Total Reward: 296.98160929261275, Q Loss: 109220.74731445312, Actor Loss: -20653.21371459961  
Episode 4662: Time: 0.20524859428405762, Total Reward: 166.1273712637413, Q Loss: 62067.175537109375, Actor Loss: -11549.932495117188  
Episode 4663: Time: 0.5068144798278809, Total Reward: 425.0277936172853, Q Loss: 155577.7882080078, Actor Loss: -28455.58172607422  
Episode 4664: Time: 0.3665738105773926, Total Reward: 304.70385974065357, Q Loss: 126273.15490722656, Actor Loss: -21334.746459960938  
Episode 4665: Time: 0.7849066257476807, Total Reward: 667.9473572291733, Q Loss: 249027.2462158203, Actor Loss: -46056.45379638672  
Episode 4666: Time: 0.12942218780517578, Total Reward: 100.23600922782842, Q Loss: 41048.393798828125, Actor Loss: -6902.724029541016  
Episode 4667: Time: 0.20526814460754395, Total Reward: 165.97171821640345, Q Loss: 56915.060302734375, Actor Loss: -11760.944793701172  
Episode 4668: Time: 0.37822937965393066, Total Reward: 312.1570041028677, Q Loss: 126277.375, Actor Loss: -21869.604431152344  
Episode 4669: Time: 0.1725602149963379, Total Reward: 137.1596508991841, Q Loss: 54339.15954589844, Actor Loss: -9859.938293457031  
Episode 4670: Time: 0.42052721977233887, Total Reward: 352.33680846701566, Q Loss: 145787.5135498047, Actor Loss: -24472.242950439453  
Episode 4671: Time: 0.34476470947265625, Total Reward: 286.66912038897993, Q Loss: 117446.14306640625, Actor Loss: -20671.15170288086  
Episode 4672: Time: 0.26963090896606445, Total Reward: 220.9767860713151, Q Loss: 88484.28771972656, Actor Loss: -15509.780700683594  
Episode 4673: Time: 0.08648276329040527, Total Reward: 62.83344450810749, Q Loss: 25996.000732421875, Actor Loss: -4879.404113769531  
Episode 4674: Time: 0.2481675148010254, Total Reward: 201.81343691955547, Q Loss: 84612.02551269531, Actor Loss: -14769.360229492188  
Episode 4675: Time: 0.34496426582336426, Total Reward: 286.3858246545118, Q Loss: 116404.06103515625, Actor Loss: -20462.166442871094  
Episode 4676: Time: 0.31203246116638184, Total Reward: 258.96594463015293, Q Loss: 123825.80590820312, Actor Loss: -18376.582641601562  
Episode 4677: Time: 0.4307212829589844, Total Reward: 361.24723887837547, Q Loss: 148423.5928955078, Actor Loss: -25464.04052734375  
Episode 4678: Time: 0.291095495223999, Total Reward: 238.31343188320028, Q Loss: 110051.12719726562, Actor Loss: -17203.076599121094  
Episode 4679: Time: 0.24841856956481934, Total Reward: 201.9597073298185, Q Loss: 78099.50158691406, Actor Loss: -13964.045684814453  
Episode 4680: Time: 0.2908353805541992, Total Reward: 240.15402737651596, Q Loss: 122720.64147949219, Actor Loss: -17273.294006347656  
Episode 4681: Time: 0.32311439514160156, Total Reward: 265.8252695189608, Q Loss: 109917.01525878906, Actor Loss: -19086.831909179688  
Episode 4682: Time: 0.12936067581176758, Total Reward: 100.06190578917035, Q Loss: 40788.224853515625, Actor Loss: -7627.2108154296875  
Episode 4683: Time: 0.1838514804840088, Total Reward: 147.64272278325393, Q Loss: 70418.9619140625, Actor Loss: -11122.681396484375  
Episode 4684: Time: 0.17235469818115234, Total Reward: 137.99998973961561, Q Loss: 52193.77233886719, Actor Loss: -10212.83447265625  
Episode 4685: Time: 0.4846634864807129, Total Reward: 407.69560266593214, Q Loss: 183751.28540039062, Actor Loss: -28719.177642822266

Episode 4686: Time: 0.5491933822631836, Total Reward: 463.7427155491329, Q Loss: 201269.19897460938, Actor Loss: -32153.213317871094  
Episode 4687: Time: 0.17250752449035645, Total Reward: 138.3949515620949, Q Loss: 66906.18188476562, Actor Loss: -10225.774475097656  
Episode 4688: Time: 0.2910032272338867, Total Reward: 239.0330021528723, Q Loss: 112347.45178222656, Actor Loss: -17078.40478515625  
Episode 4689: Time: 0.3233504295349121, Total Reward: 267.3997033651977, Q Loss: 105405.96508789062, Actor Loss: -19147.853942871094  
Episode 4690: Time: 0.2914009094238281, Total Reward: 240.55847345795308, Q Loss: 80435.33435058594, Actor Loss: -17364.62371826172  
Episode 4691: Time: 0.26983046531677246, Total Reward: 221.90602352536794, Q Loss: 79808.05126953125, Actor Loss: -15401.243713378906  
Episode 4692: Time: 0.4846358299255371, Total Reward: 408.5936115542584, Q Loss: 165385.71850585938, Actor Loss: -29112.935119628906  
Episode 4693: Time: 0.3876073360443115, Total Reward: 323.0286345855583, Q Loss: 146385.0574951172, Actor Loss: -23190.397033691406  
Episode 4694: Time: 0.4314084053039551, Total Reward: 360.33486307530956, Q Loss: 169870.31860351562, Actor Loss: -25953.519104003906  
Episode 4695: Time: 0.22657346725463867, Total Reward: 184.96666387807693, Q Loss: 81759.86694335938, Actor Loss: -13531.915893554688  
Episode 4696: Time: 0.2697484493255615, Total Reward: 222.12792660783143, Q Loss: 98924.603515625, Actor Loss: -16482.443359375  
Episode 4697: Time: 0.5274386405944824, Total Reward: 444.95873331211374, Q Loss: 180480.80908203125, Actor Loss: -30563.11834716797  
Episode 4698: Time: 0.5261328220367432, Total Reward: 441.4019733024598, Q Loss: 181547.48693847656, Actor Loss: -31111.46533203125  
Episode 4699: Time: 0.23703241348266602, Total Reward: 193.43751979449536, Q Loss: 76541.28942871094, Actor Loss: -14254.182678222656  
Validation Mean: 9355.480597753058, Validation Std: 0.586135648491027  
saving model  
Episode 4700: Time: 0.1632544994354248, Total Reward: 127.97654802937893, Q Loss: 55833.77880859375, Actor Loss: -9649.40771484375  
Episode 4701: Time: 0.08715629577636719, Total Reward: 61.49092578078924, Q Loss: 29806.5830078125, Actor Loss: -4934.771057128906  
Episode 4702: Time: 1.0219988822937012, Total Reward: 871.3921279598898, Q Loss: 345825.9757080078, Actor Loss: -61491.088287353516  
Episode 4703: Time: 0.4415018558502197, Total Reward: 369.23792202336705, Q Loss: 152058.03479003906, Actor Loss: -26856.35531616211  
Episode 4704: Time: 0.20487427711486816, Total Reward: 164.8730655334302, Q Loss: 77190.25561523438, Actor Loss: -12500.641662597656  
Episode 4705: Time: 0.2156989574432373, Total Reward: 175.38812333270712, Q Loss: 68905.60083007812, Actor Loss: -12666.867584228516  
Episode 4706: Time: 0.2585480213165283, Total Reward: 212.27245793841251, Q Loss: 91558.15747070312, Actor Loss: -16161.641174316406  
Episode 4707: Time: 0.1726245880126953, Total Reward: 138.05159646941624, Q Loss: 73069.48321533203, Actor Loss: -10306.810485839844  
Episode 4708: Time: 0.18343138694763184, Total Reward: 146.50135002232224, Q Loss: 66571.11804199219, Actor Loss: -11331.4765625  
Episode 4709: Time: 0.4204905033111572, Total Reward: 352.0695823771813, Q Loss: 143330.388671875, Actor Loss: -25309.806884765625  
Episode 4710: Time: 0.30240726470947266, Total Reward: 249.09947589132247, Q Loss: 101698.11059570312, Actor Loss: -18363.654663085938  
Episode 4711: Time: 0.3560299873352051, Total Reward: 295.1302022370227, Q Loss: 145682.70849609375, Actor Loss: -20546.976989746094  
Episode 4712: Time: 0.42012548446655273, Total Reward: 352.1669848665775, Q Loss: 164922.25842285156, Actor Loss: -26049.692504882812

Episode 4713: Time: 0.42006611824035645, Total Reward: 350.98619216252996, Q Loss: 136776.89184570312, Actor Loss: -24983.321838378906  
Episode 4714: Time: 0.09746098518371582, Total Reward: 72.93671585793506, Q Loss: 30329.44384765625, Actor Loss: -5702.19482421875  
Episode 4715: Time: 0.31308746337890625, Total Reward: 258.7219643219733, Q Loss: 112408.32604980469, Actor Loss: -18639.34423828125  
Episode 4716: Time: 0.625007152557373, Total Reward: 528.6473644423088, Q Loss: 218277.58923339844, Actor Loss: -37870.90756225586  
Episode 4717: Time: 0.677950382232666, Total Reward: 575.0039912853339, Q Loss: 249360.7075805664, Actor Loss: -41185.18688964844  
Episode 4718: Time: 0.4741954803466797, Total Reward: 398.7466503958643, Q Loss: 161746.64190673828, Actor Loss: -28296.326416015625  
Episode 4719: Time: 0.3237340450286865, Total Reward: 267.117748105438, Q Loss: 103329.57043457031, Actor Loss: -19414.021850585938  
Episode 4720: Time: 0.570204496383667, Total Reward: 483.5641095869676, Q Loss: 181676.85205078125, Actor Loss: -34335.27557373047  
Episode 4721: Time: 0.559685468673706, Total Reward: 471.75902175180755, Q Loss: 202478.87841796875, Actor Loss: -34833.974853515625  
Episode 4722: Time: 0.15111589431762695, Total Reward: 119.15425682641143, Q Loss: 46894.91174316406, Actor Loss: -9284.722534179688  
Episode 4723: Time: 0.420013427734375, Total Reward: 350.0286810773529, Q Loss: 142212.67602539062, Actor Loss: -25654.586486816406  
Episode 4724: Time: 0.2702198028564453, Total Reward: 220.91196843407852, Q Loss: 98943.46948242188, Actor Loss: -16486.26336669922  
Episode 4725: Time: 0.2377026081085205, Total Reward: 192.57299091031504, Q Loss: 89486.14428710938, Actor Loss: -14498.028076171875  
Episode 4726: Time: 0.2052173614501953, Total Reward: 166.05053929148343, Q Loss: 87373.44946289062, Actor Loss: -13042.924560546875  
Episode 4727: Time: 0.4525737762451172, Total Reward: 378.8362622570592, Q Loss: 153042.98474121094, Actor Loss: -27790.20281982422  
Episode 4728: Time: 0.29121851921081543, Total Reward: 240.56378359683785, Q Loss: 115989.23400878906, Actor Loss: -17827.87109375  
Episode 4729: Time: 0.18349003791809082, Total Reward: 147.38546134562029, Q Loss: 61863.91296386719, Actor Loss: -11710.574401855469  
Episode 4730: Time: 0.08668994903564453, Total Reward: 62.63673031035214, Q Loss: 30950.197265625, Actor Loss: -5058.559997558594  
Episode 4731: Time: 0.15099048614501953, Total Reward: 118.63159238120501, Q Loss: 67441.60034179688, Actor Loss: -9307.884094238281  
Episode 4732: Time: 0.23734641075134277, Total Reward: 193.55915418110243, Q Loss: 102250.57006835938, Actor Loss: -14839.999633789062  
Episode 4733: Time: 0.10808253288269043, Total Reward: 82.2000973962639, Q Loss: 30352.609130859375, Actor Loss: -6603.193115234375  
Episode 4734: Time: 0.32331109046936035, Total Reward: 267.2218513442437, Q Loss: 110113.27758789062, Actor Loss: -19888.923248291016  
Episode 4735: Time: 0.6149260997772217, Total Reward: 517.9626704282463, Q Loss: 252216.78930664062, Actor Loss: -38256.82635498047  
Episode 4736: Time: 0.20542335510253906, Total Reward: 165.3559621156156, Q Loss: 72757.74584960938, Actor Loss: -12235.317565917969  
Episode 4737: Time: 0.2698383331298828, Total Reward: 219.03529182930887, Q Loss: 98151.14807128906, Actor Loss: -17093.971313476562  
Episode 4738: Time: 0.2590808868408203, Total Reward: 212.94789515550244, Q Loss: 85245.62268066406, Actor Loss: -16619.263061523438  
Episode 4739: Time: 0.2267780303955078, Total Reward: 185.0889698136876, Q Loss: 82803.81823730469, Actor Loss: -13786.415893554688  
Episode 4740: Time: 0.49605321884155273, Total Reward: 417.1748522384077, Q Loss: 176129.1533203125, Actor Loss: -30935.565063476562

Episode 4741: Time: 0.4851362705230713, Total Reward: 406.3163268753061, Q Loss: 177363.77612304688, Actor Loss: -30692.36407470703  
Episode 4742: Time: 0.6356160640716553, Total Reward: 536.8332856276882, Q Loss: 237554.20141601562, Actor Loss: -38828.227294921875  
Episode 4743: Time: 0.1621692180633545, Total Reward: 128.63849535347404, Q Loss: 59806.32482910156, Actor Loss: -10035.025634765625  
Episode 4744: Time: 0.3775012493133545, Total Reward: 315.6230922806988, Q Loss: 147103.75708007812, Actor Loss: -23011.520568847656  
Episode 4745: Time: 0.52817702293396, Total Reward: 443.5843260230204, Q Loss: 188856.3145751953, Actor Loss: -32329.920776367188  
Episode 4746: Time: 0.18334078788757324, Total Reward: 145.99623523099274, Q Loss: 69531.69592285156, Actor Loss: -11536.813110351562  
Episode 4747: Time: 0.3127439022064209, Total Reward: 257.5274332648174, Q Loss: 111946.54187011719, Actor Loss: -19382.85369873047  
Episode 4748: Time: 0.14014148712158203, Total Reward: 108.64481713666832, Q Loss: 35729.16662597656, Actor Loss: -8706.084777832031  
Episode 4749: Time: 0.5486388206481934, Total Reward: 463.8344852755152, Q Loss: 205999.29809570312, Actor Loss: -33918.994873046875  
Episode 4750: Time: 0.22638964653015137, Total Reward: 184.95549793341235, Q Loss: 82928.14221191406, Actor Loss: -14104.317077636719  
Episode 4751: Time: 0.484039306640625, Total Reward: 408.6466183392629, Q Loss: 179237.47509765625, Actor Loss: -30664.284057617188  
Episode 4752: Time: 0.09706735610961914, Total Reward: 72.50665178124255, Q Loss: 42938.83044433594, Actor Loss: -6144.278137207031  
Episode 4753: Time: 0.2804405689239502, Total Reward: 230.3987231172334, Q Loss: 92980.13659667969, Actor Loss: -17854.710083007812  
Episode 4754: Time: 0.20452642440795898, Total Reward: 164.75985459815942, Q Loss: 92161.7939453125, Actor Loss: -12921.340942382812  
Episode 4755: Time: 0.10819721221923828, Total Reward: 81.67318464040092, Q Loss: 52738.576171875, Actor Loss: -6401.648193359375  
Episode 4756: Time: 0.1622636318206787, Total Reward: 128.94313718985302, Q Loss: 62328.49328613281, Actor Loss: -10309.991455078125  
Episode 4757: Time: 0.42017054557800293, Total Reward: 351.89967822061715, Q Loss: 150350.880859375, Actor Loss: -26939.358520507812  
Episode 4758: Time: 0.09720516204833984, Total Reward: 72.76116130999684, Q Loss: 37831.823486328125, Actor Loss: -6026.0836181640625  
Episode 4759: Time: 0.3237133026123047, Total Reward: 266.7559993374429, Q Loss: 130765.83972167969, Actor Loss: -20423.636596679688  
Episode 4760: Time: 0.32370686531066895, Total Reward: 266.1259908552821, Q Loss: 143669.81860351562, Actor Loss: -20392.46240234375  
Episode 4761: Time: 0.29175519943237305, Total Reward: 238.6768186864523, Q Loss: 114136.74877929688, Actor Loss: -18112.014099121094  
Episode 4762: Time: 0.30187249183654785, Total Reward: 250.23983951099132, Q Loss: 103883.08227539062, Actor Loss: -19097.81915283203  
Episode 4763: Time: 0.18321704864501953, Total Reward: 146.64069773040984, Q Loss: 86563.71069335938, Actor Loss: -12009.682556152344  
Episode 4764: Time: 0.16212701797485352, Total Reward: 128.3742828478847, Q Loss: 59484.52844238281, Actor Loss: -10416.98779296875  
Episode 4765: Time: 0.2804892063140869, Total Reward: 231.33169542379088, Q Loss: 99014.96923828125, Actor Loss: -17179.241638183594  
Episode 4766: Time: 0.5379409790039062, Total Reward: 454.3210573104758, Q Loss: 193282.6474609375, Actor Loss: -34106.21032714844  
Episode 4767: Time: 0.24803709983825684, Total Reward: 203.1995473265712, Q Loss: 89231.53576660156, Actor Loss: -15848.063781738281  
Episode 4768: Time: 0.3126034736633301, Total Reward: 257.1076859515676, Q Loss: 123201.11669921875, Actor Loss: -19654.82403564453

Episode 4769: Time: 0.2804901599884033, Total Reward: 229.44834447242405, Q Loss: 133005.86352539062, Actor Loss: -18551.684143066406  
Episode 4770: Time: 0.06496930122375488, Total Reward: 44.49027167863935, Q Loss: 21583.820556640625, Actor Loss: -3950.808349609375  
Episode 4771: Time: 0.2694883346557617, Total Reward: 221.82134042746515, Q Loss: 103420.59582519531, Actor Loss: -17071.925659179688  
Episode 4772: Time: 0.41973876953125, Total Reward: 347.98793303950396, Q Loss: 174807.2901611328, Actor Loss: -26027.62481689453  
Episode 4773: Time: 0.4736213684082031, Total Reward: 397.47240152828965, Q Loss: 188431.1278076172, Actor Loss: -30582.885498046875  
Episode 4774: Time: 0.3670165538787842, Total Reward: 303.9918807298866, Q Loss: 127664.56591796875, Actor Loss: -23002.31951904297  
Episode 4775: Time: 0.9380958080291748, Total Reward: 798.6877573910424, Q Loss: 334608.7160644531, Actor Loss: -59194.60876464844  
Episode 4776: Time: 0.1628119945526123, Total Reward: 128.76803156293872, Q Loss: 62897.65576171875, Actor Loss: -10472.315185546875  
Episode 4777: Time: 0.1303703784942627, Total Reward: 99.9795734275108, Q Loss: 33527.67395019531, Actor Loss: -8079.975036621094  
Episode 4778: Time: 0.2488548755645752, Total Reward: 202.95989624838938, Q Loss: 96625.91723632812, Actor Loss: -15446.055969238281  
Episode 4779: Time: 0.6364569664001465, Total Reward: 538.1924583905859, Q Loss: 272949.95349121094, Actor Loss: -41603.01202392578  
Episode 4780: Time: 0.539358377456665, Total Reward: 452.54987804622175, Q Loss: 183324.32177734375, Actor Loss: -34824.55773925781  
Episode 4781: Time: 0.5069215297698975, Total Reward: 427.42038399371324, Q Loss: 191208.93920898438, Actor Loss: -32533.66925048828  
Episode 4782: Time: 0.194413423538208, Total Reward: 156.71028702380508, Q Loss: 77709.81628417969, Actor Loss: -12113.256774902344  
Episode 4783: Time: 0.7658708095550537, Total Reward: 649.6368673905856, Q Loss: 322221.62829589844, Actor Loss: -49275.149475097656  
Episode 4784: Time: 0.5613789558410645, Total Reward: 471.2253099370601, Q Loss: 236523.56225585938, Actor Loss: -36873.402770996094  
Episode 4785: Time: 0.45348072052001953, Total Reward: 380.22119938535707, Q Loss: 180941.17504882812, Actor Loss: -29033.714416503906  
Episode 4786: Time: 0.2486250400543213, Total Reward: 202.98824532023116, Q Loss: 119936.65258789062, Actor Loss: -15996.421813964844  
Episode 4787: Time: 0.2705361843109131, Total Reward: 221.94220825507676, Q Loss: 103799.10095214844, Actor Loss: -17556.095275878906  
Episode 4788: Time: 0.37862205505371094, Total Reward: 313.51195862636837, Q Loss: 142390.00268554688, Actor Loss: -24579.41375732422  
Episode 4789: Time: 0.16213631629943848, Total Reward: 128.88606618749478, Q Loss: 82791.03247070312, Actor Loss: -10119.261413574219  
Episode 4790: Time: 0.6787443161010742, Total Reward: 575.3479478096618, Q Loss: 297544.49841308594, Actor Loss: -44275.86260986328  
Episode 4791: Time: 0.5068531036376953, Total Reward: 425.5933319111858, Q Loss: 196824.82958984375, Actor Loss: -32636.999877929688  
Episode 4792: Time: 0.2704429626464844, Total Reward: 221.0205099535472, Q Loss: 109855.27416992188, Actor Loss: -17021.006286621094  
Episode 4793: Time: 0.19457650184631348, Total Reward: 156.59863255316353, Q Loss: 79543.57568359375, Actor Loss: -12624.25927734375  
Episode 4794: Time: 0.30275416374206543, Total Reward: 249.50077062698855, Q Loss: 103947.02233886719, Actor Loss: -19698.817749023438  
Episode 4795: Time: 0.7339093685150146, Total Reward: 621.8219013234896, Q Loss: 330615.30822753906, Actor Loss: -47860.73645019531  
Episode 4796: Time: 0.25946831703186035, Total Reward: 211.78804199877013, Q Loss: 86286.63793945312, Actor Loss: -16673.55487060547

Episode 4797: Time: 0.2811570167541504, Total Reward: 228.1711566831635, Q Loss: 121736.55444335938, Actor Loss: -18798.521850585938  
Episode 4798: Time: 0.18400859832763672, Total Reward: 147.16135909774908, Q Loss: 88408.22192382812, Actor Loss: -11768.283142089844  
Episode 4799: Time: 0.47504401206970215, Total Reward: 398.6550299354787, Q Loss: 202716.94787597656, Actor Loss: -30807.620239257812  
Validation Mean: 9356.45403324444, Validation Std: 0.20566760543733667  
saving model  
Episode 4800: Time: 0.33690500259399414, Total Reward: 276.750380006866, Q Loss: 120093.7841796875, Actor Loss: -22449.214233398438  
Episode 4801: Time: 0.21632623672485352, Total Reward: 174.69757262495412, Q Loss: 96280.21643066406, Actor Loss: -13898.289916992188  
Episode 4802: Time: 0.11880373954772949, Total Reward: 91.09176850989071, Q Loss: 49324.943603515625, Actor Loss: -7890.841369628906  
Episode 4803: Time: 0.3561420440673828, Total Reward: 296.47428673100933, Q Loss: 153237.7198486328, Actor Loss: -23542.867614746094  
Episode 4804: Time: 0.5824594497680664, Total Reward: 490.05959206379583, Q Loss: 230718.2772216797, Actor Loss: -38491.479553222656  
Episode 4805: Time: 0.4097585678100586, Total Reward: 341.4277148043007, Q Loss: 200361.58264160156, Actor Loss: -26740.777893066406  
Episode 4806: Time: 0.39975476264953613, Total Reward: 333.0906457912528, Q Loss: 185628.8280029297, Actor Loss: -26423.434814453125  
Episode 4807: Time: 0.19465374946594238, Total Reward: 156.2848115197302, Q Loss: 93238.76770019531, Actor Loss: -12822.292846679688  
Episode 4808: Time: 0.5071859359741211, Total Reward: 423.5367690296117, Q Loss: 188495.7801513672, Actor Loss: -32746.686401367188  
Episode 4809: Time: 0.1618945598602295, Total Reward: 129.0103638771233, Q Loss: 80156.56665039062, Actor Loss: -10787.068237304688  
Episode 4810: Time: 0.2702598571777344, Total Reward: 221.11155258449404, Q Loss: 125744.35498046875, Actor Loss: -17858.822814941406  
Episode 4811: Time: 0.22699427604675293, Total Reward: 184.9418406032715, Q Loss: 106314.05322265625, Actor Loss: -15055.543212890625  
Episode 4812: Time: 0.15130305290222168, Total Reward: 118.4883478716119, Q Loss: 61075.927490234375, Actor Loss: -9825.830200195312  
Episode 4813: Time: 0.28084492683410645, Total Reward: 227.51939979679796, Q Loss: 139813.38903808594, Actor Loss: -18490.82159423828  
Episode 4814: Time: 0.4958658218383789, Total Reward: 417.4035642680926, Q Loss: 228984.08337402344, Actor Loss: -32966.56982421875  
Episode 4815: Time: 0.18345046043395996, Total Reward: 146.8876218237804, Q Loss: 75064.55200195312, Actor Loss: -11876.426696777344  
Episode 4816: Time: 0.1625533103942871, Total Reward: 129.20377342331543, Q Loss: 72230.05285644531, Actor Loss: -10696.238220214844  
Episode 4817: Time: 0.31316685676574707, Total Reward: 257.59756376364714, Q Loss: 143072.6358642578, Actor Loss: -20681.150329589844  
Episode 4818: Time: 0.2490065097808838, Total Reward: 201.9623905107071, Q Loss: 88581.36157226562, Actor Loss: -16604.417846679688  
Episode 4819: Time: 0.28090906143188477, Total Reward: 229.60788741639092, Q Loss: 114242.97888183594, Actor Loss: -18361.155334472656  
Episode 4820: Time: 0.4319922924041748, Total Reward: 360.7910314878633, Q Loss: 182673.2950439453, Actor Loss: -28523.64129638672  
Episode 4821: Time: 0.3347635269165039, Total Reward: 276.1271242563421, Q Loss: 128299.13403320312, Actor Loss: -22436.999145507812  
Episode 4822: Time: 0.18342995643615723, Total Reward: 146.96860988865734, Q Loss: 96111.09448242188, Actor Loss: -11871.542419433594  
Episode 4823: Time: 0.5497899055480957, Total Reward: 463.7017211225026, Q Loss: 233363.08081054688, Actor Loss: -36343.047119140625

Episode 4824: Time: 0.5391292572021484, Total Reward: 450.7633192600093, Q Loss: 247337.0167236328, Actor Loss: -36134.088928222656  
Episode 4825: Time: 0.30204081535339355, Total Reward: 247.5901419530288, Q Loss: 131075.8936767578, Actor Loss: -19701.86962890625  
Episode 4826: Time: 0.2590980529785156, Total Reward: 211.90465161883841, Q Loss: 121844.17712402344, Actor Loss: -17090.8740234375  
Episode 4827: Time: 0.2702009677886963, Total Reward: 220.19698528197944, Q Loss: 129743.53247070312, Actor Loss: -17558.638916015625  
Episode 4828: Time: 0.44206881523132324, Total Reward: 369.6562786880897, Q Loss: 204099.54614257812, Actor Loss: -29225.28497314453  
Episode 4829: Time: 0.4312422275543213, Total Reward: 360.7643545803618, Q Loss: 177976.06579589844, Actor Loss: -28326.67218017578  
Episode 4830: Time: 0.23772811889648438, Total Reward: 191.1832733969706, Q Loss: 91600.63439941406, Actor Loss: -15954.207824707031  
Episode 4831: Time: 0.16195225715637207, Total Reward: 128.77372071450307, Q Loss: 70027.16137695312, Actor Loss: -10627.839233398438  
Episode 4832: Time: 0.2918233871459961, Total Reward: 238.11735236116814, Q Loss: 133237.16918945312, Actor Loss: -18922.717834472656  
Episode 4833: Time: 0.24834465980529785, Total Reward: 201.61191750105024, Q Loss: 110515.30590820312, Actor Loss: -16359.671936035156  
Episode 4834: Time: 0.2913193702697754, Total Reward: 239.60898482332277, Q Loss: 105412.20483398438, Actor Loss: -19330.272216796875  
Episode 4835: Time: 0.19463539123535156, Total Reward: 155.36242690196752, Q Loss: 81465.05810546875, Actor Loss: -13014.134460449219  
Episode 4836: Time: 0.26969170570373535, Total Reward: 218.99878363483683, Q Loss: 140856.6123046875, Actor Loss: -18281.055908203125  
Episode 4837: Time: 0.24918675422668457, Total Reward: 203.82687523383944, Q Loss: 116235.80554199219, Actor Loss: -16722.9267578125  
Episode 4838: Time: 0.5178520679473877, Total Reward: 436.1920307198503, Q Loss: 243073.2567138672, Actor Loss: -35104.94152832031  
Episode 4839: Time: 0.1621708869934082, Total Reward: 128.9172103980307, Q Loss: 84065.24841308594, Actor Loss: -11036.215637207031  
Episode 4840: Time: 0.1514577865600586, Total Reward: 118.00727294643413, Q Loss: 66196.572265625, Actor Loss: -10268.072326660156  
Episode 4841: Time: 0.357008695602417, Total Reward: 296.84426605501, Q Loss: 152207.74822998047, Actor Loss: -24298.093383789062  
Episode 4842: Time: 0.3025038242340088, Total Reward: 249.81139792307266, Q Loss: 135055.74536132812, Actor Loss: -20561.24871826172  
Episode 4843: Time: 0.35593152046203613, Total Reward: 297.0312830835067, Q Loss: 145684.35815429688, Actor Loss: -23210.475219726562  
Episode 4844: Time: 0.1944284439086914, Total Reward: 156.035106936452, Q Loss: 72289.22973632812, Actor Loss: -13264.351806640625  
Episode 4845: Time: 0.3346529006958008, Total Reward: 277.33091241310717, Q Loss: 121481.1538696289, Actor Loss: -22847.169189453125  
Episode 4846: Time: 0.28096938133239746, Total Reward: 230.08456374962716, Q Loss: 131429.3388671875, Actor Loss: -18922.517333984375  
Episode 4847: Time: 0.28100132942199707, Total Reward: 230.71194217061117, Q Loss: 121389.85144042969, Actor Loss: -18775.152954101562  
Episode 4848: Time: 0.18383049964904785, Total Reward: 146.94298887578364, Q Loss: 77747.23364257812, Actor Loss: -12646.965698242188  
Episode 4849: Time: 0.11926126480102539, Total Reward: 91.36535358782379, Q Loss: 47930.125732421875, Actor Loss: -8366.970581054688  
Episode 4850: Time: 0.2160015106201172, Total Reward: 174.27636222807172, Q Loss: 114915.65893554688, Actor Loss: -14603.470458984375  
Episode 4851: Time: 0.7437775135040283, Total Reward: 629.4084623930038, Q Loss: 356958.3200683594, Actor Loss: -50266.82080078125

Episode 4852: Time: 0.24854779243469238, Total Reward: 202.8558810533936, Q Loss: 115214.3603515625, Actor Loss: -17047.82354736328  
Episode 4853: Time: 0.40987682342529297, Total Reward: 341.96491684996823, Q Loss: 182245.45190429688, Actor Loss: -27587.579528808594  
Episode 4854: Time: 0.27013731002807617, Total Reward: 220.12463757837548, Q Loss: 106010.92932128906, Actor Loss: -18555.982055664062  
Episode 4855: Time: 0.34574222564697266, Total Reward: 286.6310839024985, Q Loss: 159836.5675048828, Actor Loss: -24087.728149414062  
Episode 4856: Time: 0.4743049144744873, Total Reward: 398.2060925417331, Q Loss: 215726.0460205078, Actor Loss: -32733.79461669922  
Episode 4857: Time: 0.3452603816986084, Total Reward: 285.82353700475124, Q Loss: 159023.29931640625, Actor Loss: -23408.311462402344  
Episode 4858: Time: 0.19438886642456055, Total Reward: 156.3661948978184, Q Loss: 99971.02685546875, Actor Loss: -12881.872741699219  
Episode 4859: Time: 0.42151951789855957, Total Reward: 351.862434372897, Q Loss: 183741.95434570312, Actor Loss: -28386.280395507812  
Episode 4860: Time: 0.4108116626739502, Total Reward: 343.03697581298746, Q Loss: 225655.55029296875, Actor Loss: -27819.15576171875  
Episode 4861: Time: 0.10878777503967285, Total Reward: 81.56288402885274, Q Loss: 45841.958251953125, Actor Loss: -7320.352111816406  
Episode 4862: Time: 0.2490062713623047, Total Reward: 201.83771983282838, Q Loss: 124430.73950195312, Actor Loss: -16945.386352539062  
Episode 4863: Time: 0.2815117835998535, Total Reward: 228.9234793866762, Q Loss: 138704.61206054688, Actor Loss: -19502.400512695312  
Episode 4864: Time: 0.5390481948852539, Total Reward: 455.11080902301404, Q Loss: 243074.4326171875, Actor Loss: -36868.29504394531  
Episode 4865: Time: 0.4091815948486328, Total Reward: 342.591585518168, Q Loss: 196414.03686523438, Actor Loss: -28549.850158691406  
Episode 4866: Time: 0.14021801948547363, Total Reward: 108.77230427291114, Q Loss: 64939.052734375, Actor Loss: -9479.819152832031  
Episode 4867: Time: 0.28089046478271484, Total Reward: 230.5563562986412, Q Loss: 131989.31896972656, Actor Loss: -19426.53778076172  
Episode 4868: Time: 0.5171623229980469, Total Reward: 434.0607178077064, Q Loss: 202926.4071044922, Actor Loss: -35593.208068847656  
Episode 4869: Time: 0.34520792961120605, Total Reward: 286.5957876580672, Q Loss: 161859.78454589844, Actor Loss: -23689.59375  
Episode 4870: Time: 0.1723935604095459, Total Reward: 137.57005054234696, Q Loss: 83882.87109375, Actor Loss: -11839.457336425781  
Episode 4871: Time: 0.10856318473815918, Total Reward: 82.19708240664573, Q Loss: 52941.04895019531, Actor Loss: -7264.755676269531  
Episode 4872: Time: 0.2481977939605713, Total Reward: 202.54763375824422, Q Loss: 112396.31298828125, Actor Loss: -17532.36749267578  
Episode 4873: Time: 0.08648943901062012, Total Reward: 63.20853965212507, Q Loss: 30313.500854492188, Actor Loss: -5969.981018066406  
Episode 4874: Time: 0.5279076099395752, Total Reward: 444.57878853196706, Q Loss: 227704.9093017578, Actor Loss: -36341.33514404297  
Episode 4875: Time: 0.26999855041503906, Total Reward: 220.97664271858662, Q Loss: 127399.14697265625, Actor Loss: -18661.651916503906  
Episode 4876: Time: 0.3561837673187256, Total Reward: 295.552191837032, Q Loss: 160460.88134765625, Actor Loss: -24283.719482421875  
Episode 4877: Time: 0.28069162368774414, Total Reward: 231.44071988571423, Q Loss: 116628.2197265625, Actor Loss: -18844.551391601562  
Episode 4878: Time: 0.18362760543823242, Total Reward: 147.45440242210893, Q Loss: 81459.93359375, Actor Loss: -12612.888549804688  
Episode 4879: Time: 0.3991973400115967, Total Reward: 332.226672685766, Q Loss: 187536.8270263672, Actor Loss: -27788.318359375



Episode 4880: Time: 0.0974428653717041, Total Reward: 71.38610962542134, Q Loss: 46585.04296875, Actor Loss: -6734.69873046875  
Episode 4881: Time: 0.2599518299102783, Total Reward: 211.68986978226576, Q Loss: 125113.96069335938, Actor Loss: -17991.489685058594  
Episode 4882: Time: 0.5816473960876465, Total Reward: 490.3550319741526, Q Loss: 279702.3857421875, Actor Loss: -41338.984924316406  
Episode 4883: Time: 0.3239626884460449, Total Reward: 268.6431407564613, Q Loss: 156399.49853515625, Actor Loss: -22379.289489746094  
Episode 4884: Time: 0.528235912322998, Total Reward: 445.32924815527883, Q Loss: 238530.3516845703, Actor Loss: -36750.596435546875  
Episode 4885: Time: 0.32387518882751465, Total Reward: 268.67019589111857, Q Loss: 158930.2734375, Actor Loss: -22683.10223388672  
Episode 4886: Time: 0.6045360565185547, Total Reward: 510.22058136246125, Q Loss: 280190.7188720703, Actor Loss: -42995.14880371094  
Episode 4887: Time: 0.32502150535583496, Total Reward: 267.963988597775, Q Loss: 136030.9588623047, Actor Loss: -22871.566040039062  
Episode 4888: Time: 0.7009131908416748, Total Reward: 591.0569259500171, Q Loss: 263676.9553222656, Actor Loss: -48542.791442871094  
Episode 4889: Time: 0.1297922134399414, Total Reward: 100.95574562026017, Q Loss: 47596.65869140625, Actor Loss: -9041.214172363281  
Episode 4890: Time: 0.31285762786865234, Total Reward: 256.2870682152039, Q Loss: 128535.96252441406, Actor Loss: -22061.04705810547  
Episode 4891: Time: 0.0758364200592041, Total Reward: 53.777196000114735, Q Loss: 35908.83532714844, Actor Loss: -5176.642150878906  
Episode 4892: Time: 0.25919389724731445, Total Reward: 212.46419353495645, Q Loss: 136538.96655273438, Actor Loss: -18463.337036132812  
Episode 4893: Time: 0.7437572479248047, Total Reward: 629.6597780210357, Q Loss: 387116.4239501953, Actor Loss: -52062.57745361328  
Episode 4894: Time: 1.02447509765625, Total Reward: 871.3272699632123, Q Loss: 535369.4525146484, Actor Loss: -71616.84185791016  
Episode 4895: Time: 0.45301389694213867, Total Reward: 380.7429993563709, Q Loss: 251680.93896484375, Actor Loss: -32303.307983398438  
Episode 4896: Time: 0.2593648433685303, Total Reward: 210.84914328960207, Q Loss: 156427.81005859375, Actor Loss: -18327.7724609375  
Episode 4897: Time: 0.7114913463592529, Total Reward: 603.8667426400664, Q Loss: 360902.99462890625, Actor Loss: -49963.58270263672  
Episode 4898: Time: 0.11899518966674805, Total Reward: 91.28802061043417, Q Loss: 41156.60107421875, Actor Loss: -8456.464965820312  
Episode 4899: Time: 0.31357884407043457, Total Reward: 257.68607739517864, Q Loss: 146699.18395996094, Actor Loss: -21917.456970214844  
Validation Mean: 9356.119531528842, Validation Std: 0.4810361729517656  
saving model  
Episode 4900: Time: 0.2503671646118164, Total Reward: 203.12582308181683, Q Loss: 123765.67224121094, Actor Loss: -17451.56591796875  
Episode 4901: Time: 0.2921164035797119, Total Reward: 240.2917165201254, Q Loss: 167215.5546875, Actor Loss: -20151.887451171875  
Episode 4902: Time: 0.31368207931518555, Total Reward: 259.65835182050915, Q Loss: 159658.43237304688, Actor Loss: -21561.56121826172  
Episode 4903: Time: 0.24854254722595215, Total Reward: 200.46713570842354, Q Loss: 115614.93127441406, Actor Loss: -17880.576049804688  
Episode 4904: Time: 0.4539461135864258, Total Reward: 379.90320375352627, Q Loss: 197704.87622070312, Actor Loss: -32157.918701171875  
Episode 4905: Time: 0.22785735130310059, Total Reward: 183.11327115321717, Q Loss: 94709.17944335938, Actor Loss: -15597.596069335938  
Episode 4906: Time: 0.11903810501098633, Total Reward: 90.67339650397508, Q Loss: 50991.47302246094, Actor Loss: -8600.83349609375

Episode 4907: Time: 0.4536736011505127, Total Reward: 379.72863510057925, Q Loss: 217821.2918701172, Actor Loss: -31677.290283203125  
Episode 4908: Time: 0.3128542900085449, Total Reward: 257.17193951403726, Q Loss: 167741.0721435547, Actor Loss: -22538.806518554688  
Episode 4909: Time: 0.2159743309020996, Total Reward: 174.58542386114374, Q Loss: 130133.37719726562, Actor Loss: -15263.441711425781  
Episode 4910: Time: 0.07589173316955566, Total Reward: 53.88586262339482, Q Loss: 51063.00537109375, Actor Loss: -5279.092956542969  
Episode 4911: Time: 0.1839466094970703, Total Reward: 147.10652700287588, Q Loss: 93415.95336914062, Actor Loss: -12898.059936523438  
Episode 4912: Time: 0.16174554824829102, Total Reward: 128.13880224571415, Q Loss: 85019.20556640625, Actor Loss: -11347.636962890625  
Episode 4913: Time: 0.11923027038574219, Total Reward: 91.50690211771533, Q Loss: 46470.990966796875, Actor Loss: -8385.520874023438  
Episode 4914: Time: 0.3347330093383789, Total Reward: 276.3456804078315, Q Loss: 175454.80078125, Actor Loss: -24349.506713867188  
Episode 4915: Time: 0.09738898277282715, Total Reward: 72.68284482249457, Q Loss: 37009.414794921875, Actor Loss: -6777.965637207031  
Episode 4916: Time: 0.11893558502197266, Total Reward: 91.0748066746819, Q Loss: 57712.029052734375, Actor Loss: -8480.5283203125  
Episode 4917: Time: 0.5389246940612793, Total Reward: 454.7363529678219, Q Loss: 277495.6193847656, Actor Loss: -38932.518615722656  
Episode 4918: Time: 0.2915065288543701, Total Reward: 237.75027413101805, Q Loss: 163909.9217529297, Actor Loss: -20074.699340820312  
Episode 4919: Time: 0.3127613067626953, Total Reward: 258.4806346687725, Q Loss: 162611.62866210938, Actor Loss: -22784.322326660156  
Episode 4920: Time: 0.11885499954223633, Total Reward: 91.48478138974676, Q Loss: 62239.652587890625, Actor Loss: -8809.234680175781  
Episode 4921: Time: 0.570838451385498, Total Reward: 482.6380661016799, Q Loss: 326332.2287597656, Actor Loss: -41561.7041015625  
Episode 4922: Time: 0.23755526542663574, Total Reward: 193.4752746693391, Q Loss: 133336.82080078125, Actor Loss: -16860.432067871094  
Episode 4923: Time: 0.28088808059692383, Total Reward: 229.51575846127946, Q Loss: 165558.56323242188, Actor Loss: -20044.683532714844  
Episode 4924: Time: 0.33484959602355957, Total Reward: 276.7120776680995, Q Loss: 188568.60961914062, Actor Loss: -24580.965454101562  
Episode 4925: Time: 0.21597766876220703, Total Reward: 174.64545028513152, Q Loss: 122186.36181640625, Actor Loss: -15249.708740234375  
Episode 4926: Time: 0.2595827579498291, Total Reward: 208.9379285112914, Q Loss: 162186.34826660156, Actor Loss: -18847.044860839844  
Episode 4927: Time: 0.2594637870788574, Total Reward: 211.20109619679005, Q Loss: 115704.70153808594, Actor Loss: -18554.30889892578  
Episode 4928: Time: 0.5392811298370361, Total Reward: 453.8822240436894, Q Loss: 308685.4621582031, Actor Loss: -38494.95001220703  
Episode 4929: Time: 0.3346364498138428, Total Reward: 278.22346408776474, Q Loss: 182620.49365234375, Actor Loss: -23165.297973632812  
Episode 4930: Time: 0.47581958770751953, Total Reward: 398.8486738726109, Q Loss: 244705.75048828125, Actor Loss: -34385.899841308594  
Episode 4931: Time: 0.11905097961425781, Total Reward: 91.07479860396221, Q Loss: 48985.37023925781, Actor Loss: -8375.624938964844  
Episode 4932: Time: 0.21609878540039062, Total Reward: 173.66488685944137, Q Loss: 105060.14794921875, Actor Loss: -15341.831481933594  
Episode 4933: Time: 0.5716598033905029, Total Reward: 479.61632186541897, Q Loss: 288353.82470703125, Actor Loss: -41882.040588378906  
Episode 4934: Time: 0.18343901634216309, Total Reward: 146.94159789827498, Q Loss: 114226.791015625, Actor Loss: -13264.202880859375

Episode 4935: Time: 0.10844659805297852, Total Reward: 81.78953263968452, Q Loss: 60966.773681640625, Actor Loss: -7685.5916748046875  
Episode 4936: Time: 0.08649802207946777, Total Reward: 63.3815223710944, Q Loss: 55256.0400390625, Actor Loss: -6330.70166015625  
Episode 4937: Time: 0.48569631576538086, Total Reward: 404.2994352377797, Q Loss: 269463.2393798828, Actor Loss: -35150.719482421875  
Episode 4938: Time: 0.09766101837158203, Total Reward: 73.01806443401908, Q Loss: 38812.89343261719, Actor Loss: -6972.588073730469  
Episode 4939: Time: 0.5709733963012695, Total Reward: 481.89316558212454, Q Loss: 317725.22912597656, Actor Loss: -41414.915588378906  
Episode 4940: Time: 0.23747825622558594, Total Reward: 194.10881520070294, Q Loss: 115764.59326171875, Actor Loss: -16554.60516357422  
Episode 4941: Time: 0.25925612449645996, Total Reward: 211.336580732299, Q Loss: 146661.4559326172, Actor Loss: -18423.03057861328  
Episode 4942: Time: 0.16179704666137695, Total Reward: 127.99201864828126, Q Loss: 81732.22485351562, Actor Loss: -11534.139221191406  
Episode 4943: Time: 0.19449067115783691, Total Reward: 156.2867445230253, Q Loss: 99035.96887207031, Actor Loss: -14090.298583984375  
Episode 4944: Time: 0.3884105682373047, Total Reward: 323.47265195021026, Q Loss: 198392.43408203125, Actor Loss: -28055.57098388672  
Episode 4945: Time: 0.25948643684387207, Total Reward: 209.84567249319102, Q Loss: 152604.361328125, Actor Loss: -19107.356872558594  
Episode 4946: Time: 0.08662581443786621, Total Reward: 62.78450573222314, Q Loss: 39529.203857421875, Actor Loss: -5941.7330322265625  
Episode 4947: Time: 0.23793888092041016, Total Reward: 191.95929390974626, Q Loss: 143719.20678710938, Actor Loss: -16697.74609375  
Episode 4948: Time: 0.2914543151855469, Total Reward: 239.94810210840356, Q Loss: 144817.2060546875, Actor Loss: -20860.882263183594  
Episode 4949: Time: 0.33461451530456543, Total Reward: 274.90078779024327, Q Loss: 169024.05444335938, Actor Loss: -24422.232788085938  
Episode 4950: Time: 0.3130524158477783, Total Reward: 258.9816710281245, Q Loss: 162389.20336914062, Actor Loss: -22912.847900390625  
Episode 4951: Time: 0.16216826438903809, Total Reward: 129.1345083497353, Q Loss: 93246.9716796875, Actor Loss: -11805.598815917969  
Episode 4952: Time: 0.2804408073425293, Total Reward: 231.28112132674948, Q Loss: 177428.06665039062, Actor Loss: -20443.307861328125  
Episode 4953: Time: 0.12958860397338867, Total Reward: 100.47259810150294, Q Loss: 59832.669921875, Actor Loss: -9312.672973632812  
Episode 4954: Time: 0.2805788516998291, Total Reward: 229.62155566177995, Q Loss: 144498.41040039062, Actor Loss: -20688.146850585938  
Episode 4955: Time: 0.12972116470336914, Total Reward: 100.69817764746301, Q Loss: 69570.18566894531, Actor Loss: -9283.266174316406  
Episode 4956: Time: 0.44249463081359863, Total Reward: 368.7866177032848, Q Loss: 236856.6007080078, Actor Loss: -32873.40026855469  
Episode 4957: Time: 0.16192197799682617, Total Reward: 129.00195546180126, Q Loss: 85338.63671875, Actor Loss: -11887.58203125  
Episode 4958: Time: 0.1515941619873047, Total Reward: 119.48119147112439, Q Loss: 96056.89477539062, Actor Loss: -11264.217346191406  
Episode 4959: Time: 0.31288695335388184, Total Reward: 259.1936213687982, Q Loss: 156276.67944335938, Actor Loss: -22912.634033203125  
Episode 4960: Time: 0.19521689414978027, Total Reward: 156.27371025616455, Q Loss: 134686.24633789062, Actor Loss: -14134.120422363281  
Episode 4961: Time: 0.2392568588256836, Total Reward: 193.60648935951738, Q Loss: 117406.67407226562, Actor Loss: -17396.226989746094  
Episode 4962: Time: 0.2387561798095703, Total Reward: 193.89018875086472, Q Loss: 127869.2099609375, Actor Loss: -17483.031860351562

Episode 4963: Time: 0.4107694625854492, Total Reward: 341.72033892466015, Q Loss: 225442.92614746094, Actor Loss: -30529.594604492188  
Episode 4964: Time: 0.5606448650360107, Total Reward: 470.512695060159, Q Loss: 332279.0192871094, Actor Loss: -42234.55126953125  
Episode 4965: Time: 0.26992321014404297, Total Reward: 219.95526658570344, Q Loss: 138344.43322753906, Actor Loss: -19591.73699951172  
Episode 4966: Time: 0.28088855743408203, Total Reward: 229.482804676124, Q Loss: 127364.30102539062, Actor Loss: -20852.076293945312  
Episode 4967: Time: 0.3452436923980713, Total Reward: 286.09475672930444, Q Loss: 190431.2060546875, Actor Loss: -25476.044189453125  
Episode 4968: Time: 0.23798656463623047, Total Reward: 192.1381675487547, Q Loss: 143365.68774414062, Actor Loss: -17438.04571533203  
Episode 4969: Time: 0.46491527557373047, Total Reward: 389.29149811306644, Q Loss: 255460.2275390625, Actor Loss: -34741.240661621094  
Episode 4970: Time: 0.3899376392364502, Total Reward: 322.4927866018447, Q Loss: 194205.62036132812, Actor Loss: -28081.781311035156  
Episode 4971: Time: 0.6588983535766602, Total Reward: 554.4611978445954, Q Loss: 381281.5568847656, Actor Loss: -48830.03955078125  
Episode 4972: Time: 0.10856962203979492, Total Reward: 81.9879038884484, Q Loss: 79771.33544921875, Actor Loss: -7926.3297119140625  
Episode 4973: Time: 0.11949801445007324, Total Reward: 90.68007199751118, Q Loss: 56948.920166015625, Actor Loss: -8734.675109863281  
Episode 4974: Time: 0.43213748931884766, Total Reward: 361.66921307132986, Q Loss: 233791.9901123047, Actor Loss: -32804.14715576172  
Episode 4975: Time: 0.27005457878112793, Total Reward: 220.995122728383, Q Loss: 164939.62182617188, Actor Loss: -19533.257568359375  
Episode 4976: Time: 0.11897516250610352, Total Reward: 90.88324054089252, Q Loss: 78308.44482421875, Actor Loss: -8853.855529785156  
Episode 4977: Time: 0.3456249237060547, Total Reward: 284.03994794229465, Q Loss: 178995.1845703125, Actor Loss: -25889.087829589844  
Episode 4978: Time: 0.636669397354126, Total Reward: 536.9826030044072, Q Loss: 351113.2703857422, Actor Loss: -47088.77380371094  
Episode 4979: Time: 0.42072534561157227, Total Reward: 351.1668409473578, Q Loss: 249731.27978515625, Actor Loss: -31936.807067871094  
Episode 4980: Time: 0.1621260643005371, Total Reward: 128.889611742814, Q Loss: 82367.57250976562, Actor Loss: -11919.489929199219  
Episode 4981: Time: 0.35793137550354004, Total Reward: 294.9404524418586, Q Loss: 197241.95825195312, Actor Loss: -26066.700439453125  
Episode 4982: Time: 0.2592508792877197, Total Reward: 212.4096737219965, Q Loss: 138263.0574951172, Actor Loss: -19388.451904296875  
Episode 4983: Time: 0.09752345085144043, Total Reward: 72.4035216599609, Q Loss: 48614.071044921875, Actor Loss: -7246.109191894531  
Episode 4984: Time: 0.3454618453979492, Total Reward: 286.3481651435126, Q Loss: 179787.01123046875, Actor Loss: -25375.012756347656  
Episode 4985: Time: 0.14054131507873535, Total Reward: 109.80142075706017, Q Loss: 76755.2236328125, Actor Loss: -10875.783264160156  
Episode 4986: Time: 0.2484455108642578, Total Reward: 202.07158941592573, Q Loss: 186382.3671875, Actor Loss: -19074.345703125  
Episode 4987: Time: 0.5395801067352295, Total Reward: 451.77572482032326, Q Loss: 286433.029296875, Actor Loss: -40378.6064453125  
Episode 4988: Time: 0.23765039443969727, Total Reward: 192.74960379081784, Q Loss: 138541.78955078125, Actor Loss: -17903.87615966797  
Episode 4989: Time: 0.3561825752258301, Total Reward: 296.36316354529384, Q Loss: 212196.13745117188, Actor Loss: -26968.82208251953  
Episode 4990: Time: 0.3673272132873535, Total Reward: 303.8997866192079, Q Loss: 215290.18920898438, Actor Loss: -27339.25225830078

Episode 4991: Time: 0.25928425788879395, Total Reward: 211.7009740820602, Q Loss: 122612.28979492188, Actor Loss: -19910.308349609375  
Episode 4992: Time: 0.15134525299072266, Total Reward: 119.3510004143182, Q Loss: 77310.01123046875, Actor Loss: -11484.922668457031  
Episode 4993: Time: 0.13037729263305664, Total Reward: 100.7102523446534, Q Loss: 69814.12670898438, Actor Loss: -9936.265686035156  
Episode 4994: Time: 0.4537036418914795, Total Reward: 379.8503635470199, Q Loss: 227253.79028320312, Actor Loss: -33107.52941894531  
Episode 4995: Time: 0.46370673179626465, Total Reward: 389.2639876994343, Q Loss: 199189.38061523438, Actor Loss: -34322.07147216797  
Episode 4996: Time: 0.29184794425964355, Total Reward: 237.10820597730165, Q Loss: 164815.98168945312, Actor Loss: -21919.151123046875  
Episode 4997: Time: 0.12965631484985352, Total Reward: 100.84026164231865, Q Loss: 78209.87475585938, Actor Loss: -9919.344482421875  
Episode 4998: Time: 0.9369945526123047, Total Reward: 799.3487841387159, Q Loss: 570142.9729003906, Actor Loss: -70598.71667480469  
Episode 4999: Time: 0.270158052444458, Total Reward: 220.02832463202887, Q Loss: 143883.0274658203, Actor Loss: -20582.721801757812  
Validation Mean: 9354.996694773297, Validation Std: 0.525610237637854  
saving model  
Episode 5000: Time: 0.2722902297973633, Total Reward: 221.11160529013134, Q Loss: 154143.91149902344, Actor Loss: -20402.13818359375  
Episode 5001: Time: 0.1516568660736084, Total Reward: 118.9247139266602, Q Loss: 74252.94848632812, Actor Loss: -11165.5947265625  
Episode 5002: Time: 0.42092013359069824, Total Reward: 351.95380817655905, Q Loss: 236515.47192382812, Actor Loss: -31848.61846923828  
Episode 5003: Time: 0.5511598587036133, Total Reward: 465.34189363409257, Q Loss: 289932.58337402344, Actor Loss: -42354.06726074219  
Episode 5004: Time: 0.5403885841369629, Total Reward: 454.6679166256425, Q Loss: 273736.89208984375, Actor Loss: -40006.79016113281  
Episode 5005: Time: 0.3679373264312744, Total Reward: 303.73908722169, Q Loss: 201038.60498046875, Actor Loss: -27456.328552246094  
Episode 5006: Time: 0.519402265548706, Total Reward: 435.8050217910129, Q Loss: 304670.8271484375, Actor Loss: -39563.78063964844  
Episode 5007: Time: 0.35748815536499023, Total Reward: 296.57346194965845, Q Loss: 193483.90380859375, Actor Loss: -27440.50897216797  
Episode 5008: Time: 0.12980198860168457, Total Reward: 100.30700201140826, Q Loss: 78006.50610351562, Actor Loss: -10438.755798339844  
Episode 5009: Time: 0.5300493240356445, Total Reward: 444.94195090988563, Q Loss: 293900.2734375, Actor Loss: -39213.36096191406  
Episode 5010: Time: 0.2386326789855957, Total Reward: 192.18646366275175, Q Loss: 151982.84228515625, Actor Loss: -18256.758850097656  
Episode 5011: Time: 0.3458824157714844, Total Reward: 286.39567181715006, Q Loss: 195476.87817382812, Actor Loss: -26854.221069335938  
Episode 5012: Time: 0.21668577194213867, Total Reward: 174.2299146576804, Q Loss: 118783.01049804688, Actor Loss: -16273.418701171875  
Episode 5013: Time: 0.4861617088317871, Total Reward: 408.36634617422703, Q Loss: 290851.0539550781, Actor Loss: -36738.147521972656  
Episode 5014: Time: 0.18382883071899414, Total Reward: 145.14873700994164, Q Loss: 101256.06982421875, Actor Loss: -14691.948486328125  
Episode 5015: Time: 0.2164628505706787, Total Reward: 175.03850795399686, Q Loss: 160235.4765625, Actor Loss: -17015.216430664062  
Episode 5016: Time: 0.45421528816223145, Total Reward: 380.18131521366087, Q Loss: 261032.728515625, Actor Loss: -34444.94421386719  
Episode 5017: Time: 0.5617971420288086, Total Reward: 473.1829586134989, Q Loss: 323861.73291015625, Actor Loss: -43830.933349609375

Episode 5018: Time: 0.2810661792755127, Total Reward: 230.63209849937587, Q Loss: 159152.65405273438, Actor Loss: -21723.98846435547  
Episode 5019: Time: 0.4215054512023926, Total Reward: 350.930449614041, Q Loss: 264159.1209716797, Actor Loss: -31863.81982421875  
Episode 5020: Time: 0.2809712886810303, Total Reward: 230.68150708980582, Q Loss: 124031.84033203125, Actor Loss: -21093.446166992188  
Episode 5021: Time: 0.15095925331115723, Total Reward: 116.99016480970597, Q Loss: 102639.48413085938, Actor Loss: -11859.451416015625  
Episode 5022: Time: 0.46354198455810547, Total Reward: 387.750461887035, Q Loss: 299283.9377441406, Actor Loss: -35952.17645263672  
Episode 5023: Time: 0.6685175895690918, Total Reward: 567.0567680059, Q Loss: 378262.73681640625, Actor Loss: -51946.24560546875  
Episode 5024: Time: 0.08685898780822754, Total Reward: 63.27898093739386, Q Loss: 45910.223388671875, Actor Loss: -6855.376037597656  
Episode 5025: Time: 0.2593653202056885, Total Reward: 212.53639173624532, Q Loss: 159793.16479492188, Actor Loss: -19883.75860595703  
Episode 5026: Time: 0.8218224048614502, Total Reward: 694.9840988814212, Q Loss: 480824.2492675781, Actor Loss: -62953.462890625  
Episode 5027: Time: 0.5717906951904297, Total Reward: 481.3573883495738, Q Loss: 419480.7102050781, Actor Loss: -44528.3310546875  
Episode 5028: Time: 0.28081488609313965, Total Reward: 228.33710732816277, Q Loss: 130970.94921875, Actor Loss: -22249.950744628906  
Episode 5029: Time: 0.09738564491271973, Total Reward: 72.49077301642902, Q Loss: 52552.81640625, Actor Loss: -7627.5562744140625  
Episode 5030: Time: 0.22731924057006836, Total Reward: 183.62466029130326, Q Loss: 144706.63403320312, Actor Loss: -17544.280639648438  
Episode 5031: Time: 0.2915327548980713, Total Reward: 238.4248590544732, Q Loss: 173171.32641601562, Actor Loss: -23058.738891601562  
Episode 5032: Time: 0.108489990234375, Total Reward: 82.07322455012748, Q Loss: 61450.965087890625, Actor Loss: -8356.164306640625  
Episode 5033: Time: 0.34601593017578125, Total Reward: 286.618048491759, Q Loss: 231927.3115234375, Actor Loss: -26756.082641601562  
Episode 5034: Time: 0.41092848777770996, Total Reward: 342.025309886975, Q Loss: 243990.43701171875, Actor Loss: -31765.599731445312  
Episode 5035: Time: 0.2385540008544922, Total Reward: 194.32212703458745, Q Loss: 139661.36657714844, Actor Loss: -18976.432250976562  
Episode 5036: Time: 0.24911046028137207, Total Reward: 202.47608682392456, Q Loss: 140923.90625, Actor Loss: -19231.8515625  
Episode 5037: Time: 0.32471442222595215, Total Reward: 268.13326962004436, Q Loss: 209313.13720703125, Actor Loss: -25485.240173339844  
Episode 5038: Time: 0.1301136016845703, Total Reward: 100.48835711886073, Q Loss: 69439.24633789062, Actor Loss: -9898.562866210938  
Episode 5039: Time: 1.0133147239685059, Total Reward: 860.9724540449962, Q Loss: 592739.5751953125, Actor Loss: -78303.27941894531  
Episode 5040: Time: 0.33556151390075684, Total Reward: 277.11020642420954, Q Loss: 195903.14501953125, Actor Loss: -25532.850219726562  
Episode 5041: Time: 0.25934791564941406, Total Reward: 212.08629514942217, Q Loss: 137236.30737304688, Actor Loss: -20157.101318359375  
Episode 5042: Time: 0.21593713760375977, Total Reward: 174.98450280522047, Q Loss: 126733.85522460938, Actor Loss: -17079.29736328125  
Episode 5043: Time: 0.09739232063293457, Total Reward: 72.31108009577841, Q Loss: 62721.17724609375, Actor Loss: -7408.617492675781  
Episode 5044: Time: 0.4208030700683594, Total Reward: 351.43517343977544, Q Loss: 233730.1220703125, Actor Loss: -31981.3115234375  
Episode 5045: Time: 0.22674918174743652, Total Reward: 184.86791382636903, Q Loss: 145680.92578125, Actor Loss: -17948.039428710938

Episode 5046: Time: 0.7863092422485352, Total Reward: 666.6487508636116, Q Loss: 414581.8729248047, Actor Loss: -62340.38201904297  
Episode 5047: Time: 0.15104031562805176, Total Reward: 119.06727830475413, Q Loss: 96038.22680664062, Actor Loss: -12026.46826171875  
Episode 5048: Time: 0.18409466743469238, Total Reward: 146.80180639153463, Q Loss: 130072.60498046875, Actor Loss: -14100.866638183594  
Episode 5049: Time: 0.25913381576538086, Total Reward: 212.67042586651127, Q Loss: 142192.990234375, Actor Loss: -20161.07177734375  
Episode 5050: Time: 0.4527895450592041, Total Reward: 378.42657057418995, Q Loss: 272993.01953125, Actor Loss: -35342.412109375  
Episode 5051: Time: 0.5068089962005615, Total Reward: 425.77653260531474, Q Loss: 271477.57275390625, Actor Loss: -40349.64807128906  
Episode 5052: Time: 0.19495105743408203, Total Reward: 155.8785303867112, Q Loss: 111084.95581054688, Actor Loss: -14854.753540039062  
Episode 5053: Time: 0.7222568988800049, Total Reward: 611.6384512150213, Q Loss: 415703.6730957031, Actor Loss: -58232.304443359375  
Episode 5054: Time: 0.2918703556060791, Total Reward: 240.2968590773262, Q Loss: 173629.33666992188, Actor Loss: -22336.388122558594  
Episode 5055: Time: 0.15122652053833008, Total Reward: 119.0183568346151, Q Loss: 83752.30541992188, Actor Loss: -11934.631591796875  
Episode 5056: Time: 0.6477105617523193, Total Reward: 546.5168383334513, Q Loss: 342656.8757324219, Actor Loss: -51204.485595703125  
Episode 5057: Time: 0.16218996047973633, Total Reward: 128.8389472023769, Q Loss: 83188.759765625, Actor Loss: -12755.470947265625  
Episode 5058: Time: 1.0886781215667725, Total Reward: 929.5389952175847, Q Loss: 672477.9987792969, Actor Loss: -86463.90997314453  
Episode 5059: Time: 0.4530935287475586, Total Reward: 378.3395481173846, Q Loss: 311308.49572753906, Actor Loss: -35193.131408691406  
Episode 5060: Time: 0.2807645797729492, Total Reward: 230.32362747500363, Q Loss: 196066.453125, Actor Loss: -22909.552490234375  
Episode 5061: Time: 0.34616780281066895, Total Reward: 286.67854043588517, Q Loss: 187362.54418945312, Actor Loss: -27657.99639892578  
Episode 5062: Time: 0.7448713779449463, Total Reward: 627.7826429391895, Q Loss: 440320.3603515625, Actor Loss: -59207.99053955078  
Episode 5063: Time: 0.19468998908996582, Total Reward: 154.26040937471348, Q Loss: 96340.03198242188, Actor Loss: -15608.726196289062  
Episode 5064: Time: 0.5395574569702148, Total Reward: 451.2711729697019, Q Loss: 372365.0290527344, Actor Loss: -42289.97326660156  
Episode 5065: Time: 0.7996900081634521, Total Reward: 676.2758431785269, Q Loss: 467304.8312988281, Actor Loss: -64631.46923828125  
Episode 5066: Time: 0.10840034484863281, Total Reward: 81.88265502082916, Q Loss: 77011.37182617188, Actor Loss: -8983.032836914062  
Episode 5067: Time: 0.0976109504699707, Total Reward: 72.45943422572425, Q Loss: 49580.982177734375, Actor Loss: -7569.069396972656  
Episode 5068: Time: 0.6803040504455566, Total Reward: 575.1384391075517, Q Loss: 466895.9599609375, Actor Loss: -55280.110900878906  
Episode 5069: Time: 0.14060258865356445, Total Reward: 109.85865159335988, Q Loss: 73535.56396484375, Actor Loss: -11308.653442382812  
Episode 5070: Time: 0.5066723823547363, Total Reward: 426.70207120304406, Q Loss: 327433.5252685547, Actor Loss: -41311.75891113281  
Episode 5071: Time: 0.24828648567199707, Total Reward: 202.63273768779248, Q Loss: 142820.66796875, Actor Loss: -20693.793579101562  
Episode 5072: Time: 0.19398856163024902, Total Reward: 154.08500813010704, Q Loss: 147049.98583984375, Actor Loss: -15647.144653320312  
Episode 5073: Time: 0.8510539531707764, Total Reward: 723.459281631044, Q Loss: 568593.9233398438, Actor Loss: -68955.74688720703

Episode 5074: Time: 0.21615839004516602, Total Reward: 174.97847334357945, Q Loss: 133293.56884765625, Actor Loss: -17713.431640625  
Episode 5075: Time: 0.3451981544494629, Total Reward: 286.89888860374055, Q Loss: 185199.87426757812, Actor Loss: -28347.537719726562  
Episode 5076: Time: 0.5500726699829102, Total Reward: 463.7179967847233, Q Loss: 362094.44091796875, Actor Loss: -45713.81085205078  
Episode 5077: Time: 0.5172584056854248, Total Reward: 437.04326465960435, Q Loss: 339715.21630859375, Actor Loss: -41817.26776123047  
Episode 5078: Time: 1.056741714477539, Total Reward: 898.5673850102492, Q Loss: 673932.3826904297, Actor Loss: -85617.51440429688  
Episode 5079: Time: 0.23770952224731445, Total Reward: 193.2188108458273, Q Loss: 148104.95263671875, Actor Loss: -18865.46502685547  
Episode 5080: Time: 0.08659529685974121, Total Reward: 62.74738289553723, Q Loss: 70393.34033203125, Actor Loss: -7092.609191894531  
Episode 5081: Time: 0.36708950996398926, Total Reward: 305.83060383087144, Q Loss: 238505.22717285156, Actor Loss: -30308.25323486328  
Episode 5082: Time: 0.31327199935913086, Total Reward: 258.51850012255125, Q Loss: 196465.89721679688, Actor Loss: -25221.40838623047  
Episode 5083: Time: 0.2816462516784668, Total Reward: 228.78265729519828, Q Loss: 214951.8212890625, Actor Loss: -22789.77655029297  
Episode 5084: Time: 0.5932183265686035, Total Reward: 500.4226690735774, Q Loss: 367756.92028808594, Actor Loss: -48313.510009765625  
Episode 5085: Time: 0.1296687126159668, Total Reward: 100.74600176974793, Q Loss: 95437.4150390625, Actor Loss: -10167.105224609375  
Episode 5086: Time: 0.13041448593139648, Total Reward: 100.42101952491214, Q Loss: 75544.79809570312, Actor Loss: -10431.367309570312  
Episode 5087: Time: 0.30269551277160645, Total Reward: 247.98777038144618, Q Loss: 228288.21850585938, Actor Loss: -24066.266052246094  
Episode 5088: Time: 0.09774613380432129, Total Reward: 72.35145752438191, Q Loss: 62065.16015625, Actor Loss: -8237.32958984375  
Episode 5089: Time: 0.11935257911682129, Total Reward: 91.50937057741389, Q Loss: 76936.26611328125, Actor Loss: -9256.939147949219  
Episode 5090: Time: 0.24881291389465332, Total Reward: 200.6679413502098, Q Loss: 138091.64477539062, Actor Loss: -19496.20184326172  
Episode 5091: Time: 0.3357086181640625, Total Reward: 276.8080506510284, Q Loss: 219537.86450195312, Actor Loss: -26793.786010742188  
Episode 5092: Time: 0.1839749813079834, Total Reward: 147.53048266529768, Q Loss: 113712.68041992188, Actor Loss: -14955.107849121094  
Episode 5093: Time: 0.48696303367614746, Total Reward: 408.2186971737969, Q Loss: 291774.8181152344, Actor Loss: -38672.3193359375  
Episode 5094: Time: 0.40053653717041016, Total Reward: 332.8651713058553, Q Loss: 284339.85546875, Actor Loss: -33521.041259765625  
Episode 5095: Time: 0.2813606262207031, Total Reward: 230.1850069624854, Q Loss: 227235.416015625, Actor Loss: -23571.628967285156  
Episode 5096: Time: 0.20617318153381348, Total Reward: 166.4966793953123, Q Loss: 154963.05810546875, Actor Loss: -16019.113159179688  
Episode 5097: Time: 0.3249843120574951, Total Reward: 267.60333807107594, Q Loss: 200336.16845703125, Actor Loss: -26728.565551757812  
Episode 5098: Time: 0.21685123443603516, Total Reward: 172.98170708214224, Q Loss: 162584.12231445312, Actor Loss: -17509.791625976562  
Episode 5099: Time: 0.3354921340942383, Total Reward: 276.2059429720631, Q Loss: 236270.29809570312, Actor Loss: -27917.369506835938  
Validation Mean: 9355.477485141188, Validation Std: 0.5610351729228791  
saving model  
Episode 5100: Time: 0.359785795211792, Total Reward: 295.4101758421178, Q Loss: 220994.22314453125, Actor Loss: -29790.829956054688



Episode 5101: Time: 0.41153717041015625, Total Reward: 340.8297311781389, Q Loss: 255964.71643066406, Actor Loss: -33628.073303222656  
Episode 5102: Time: 0.45461082458496094, Total Reward: 380.0497736473762, Q Loss: 307224.7390136719, Actor Loss: -37369.061584472656  
Episode 5103: Time: 0.3903381824493408, Total Reward: 321.33530688478925, Q Loss: 247472.39331054688, Actor Loss: -31651.877685546875  
Episode 5104: Time: 0.5849418640136719, Total Reward: 489.5370697030616, Q Loss: 380538.72399902344, Actor Loss: -48247.15399169922  
Episode 5105: Time: 0.43297553062438965, Total Reward: 360.4962621516194, Q Loss: 308461.703125, Actor Loss: -36497.072021484375  
Episode 5106: Time: 0.24949908256530762, Total Reward: 202.89374947003563, Q Loss: 180824.85620117188, Actor Loss: -20463.746337890625  
Episode 5107: Time: 0.35660648345947266, Total Reward: 294.8265020814484, Q Loss: 238362.7022705078, Actor Loss: -29953.90948486328  
Episode 5108: Time: 0.33533716201782227, Total Reward: 277.3355908812636, Q Loss: 221505.05322265625, Actor Loss: -28310.97509765625  
Episode 5109: Time: 0.2818272113800049, Total Reward: 229.7716595651119, Q Loss: 180220.38427734375, Actor Loss: -23438.11248779297  
Episode 5110: Time: 0.5516090393066406, Total Reward: 463.3251119901037, Q Loss: 325379.8485107422, Actor Loss: -44907.3525390625  
Episode 5111: Time: 0.2064669132232666, Total Reward: 165.43692267098743, Q Loss: 116322.40234375, Actor Loss: -16870.36407470703  
Episode 5112: Time: 0.18400073051452637, Total Reward: 147.00579864482168, Q Loss: 106711.9033203125, Actor Loss: -15987.054748535156  
Episode 5113: Time: 0.18419504165649414, Total Reward: 147.7482980984201, Q Loss: 102722.33203125, Actor Loss: -15398.717712402344  
Episode 5114: Time: 0.20620131492614746, Total Reward: 165.6670447571912, Q Loss: 140508.77294921875, Actor Loss: -16721.321166992188  
Episode 5115: Time: 0.314117431640625, Total Reward: 258.8203959749891, Q Loss: 227118.35791015625, Actor Loss: -26543.89764404297  
Episode 5116: Time: 0.33601808547973633, Total Reward: 277.45070948257774, Q Loss: 227343.541015625, Actor Loss: -28141.888793945312  
Episode 5117: Time: 0.34704017639160156, Total Reward: 285.15953067716225, Q Loss: 233488.0224609375, Actor Loss: -29273.97900390625  
Episode 5118: Time: 0.16229248046875, Total Reward: 128.74121425093915, Q Loss: 114904.75805664062, Actor Loss: -12958.562316894531  
Episode 5119: Time: 0.15159869194030762, Total Reward: 117.44896840517298, Q Loss: 124060.4912109375, Actor Loss: -12662.232543945312  
Episode 5120: Time: 0.28168749809265137, Total Reward: 230.040157290735, Q Loss: 177629.6746826172, Actor Loss: -23230.45489501953  
Episode 5121: Time: 0.30303287506103516, Total Reward: 249.63911966772156, Q Loss: 208834.34057617188, Actor Loss: -25823.122497558594  
Episode 5122: Time: 0.3683004379272461, Total Reward: 305.0209051962028, Q Loss: 206230.90625, Actor Loss: -29499.019775390625  
Episode 5123: Time: 0.2383408546447754, Total Reward: 193.6438238280611, Q Loss: 152120.90063476562, Actor Loss: -20074.64666748047  
Episode 5124: Time: 0.3355894088745117, Total Reward: 277.0176512983967, Q Loss: 243081.6005859375, Actor Loss: -28199.497497558594  
Episode 5125: Time: 0.7017335891723633, Total Reward: 594.375159131712, Q Loss: 508783.58349609375, Actor Loss: -58353.518005371094  
Episode 5126: Time: 0.4105978012084961, Total Reward: 342.94757699348236, Q Loss: 306858.7365722656, Actor Loss: -34329.1689453125  
Episode 5127: Time: 0.47574281692504883, Total Reward: 394.9121693267345, Q Loss: 407155.3752441406, Actor Loss: -40443.806396484375  
Episode 5128: Time: 0.1518268585205078, Total Reward: 119.44550445090692, Q Loss: 114496.36157226562, Actor Loss: -12884.59423828125

Episode 5129: Time: 0.17393803596496582, Total Reward: 136.20770843179645, Q Loss: 127635.93212890625, Actor Loss: -14793.295043945312

Episode 5130: Time: 0.1632077693939209, Total Reward: 128.8013151268965, Q Loss: 117249.32958984375, Actor Loss: -13767.44140625

Episode 5131: Time: 0.21714544296264648, Total Reward: 174.01654308148537, Q Loss: 150973.607421875, Actor Loss: -18367.405822753906

Episode 5132: Time: 0.249314546585083, Total Reward: 203.64311745682198, Q Loss: 160883.50634765625, Actor Loss: -21674.7431640625

Episode 5133: Time: 0.17330551147460938, Total Reward: 137.39013644906575, Q Loss: 114247.71337890625, Actor Loss: -13765.094970703125

Episode 5134: Time: 0.2815744876861572, Total Reward: 231.2410630921322, Q Loss: 189679.47485351562, Actor Loss: -23445.145141601562

Episode 5135: Time: 0.259920597076416, Total Reward: 212.2874991576097, Q Loss: 158914.82299804688, Actor Loss: -21648.060485839844

Episode 5136: Time: 0.27088379859924316, Total Reward: 221.0206466464541, Q Loss: 175697.23657226562, Actor Loss: -23058.006103515625

Episode 5137: Time: 0.6374521255493164, Total Reward: 538.3974378845592, Q Loss: 465416.84033203125, Actor Loss: -53294.89270019531

Episode 5138: Time: 0.29201555252075195, Total Reward: 240.62108399044985, Q Loss: 162339.90234375, Actor Loss: -24534.788635253906

Episode 5139: Time: 0.4004535675048828, Total Reward: 330.38258679569105, Q Loss: 310425.6848144531, Actor Loss: -33902.5732421875

Episode 5140: Time: 0.07596111297607422, Total Reward: 53.34038711101519, Q Loss: 57208.7392578125, Actor Loss: -6325.460754394531

Episode 5141: Time: 0.18422770500183105, Total Reward: 146.72450428799533, Q Loss: 162213.7978515625, Actor Loss: -15384.811706542969

Episode 5142: Time: 0.49774813652038574, Total Reward: 415.91988731128004, Q Loss: 356663.78662109375, Actor Loss: -41787.83319091797

Episode 5143: Time: 0.5941603183746338, Total Reward: 500.1542604448559, Q Loss: 389969.3732910156, Actor Loss: -50686.313903808594

Episode 5144: Time: 0.4645094871520996, Total Reward: 389.55517251536946, Q Loss: 356544.41455078125, Actor Loss: -40105.60339355469

Episode 5145: Time: 0.7566039562225342, Total Reward: 638.9581514260933, Q Loss: 585838.52734375, Actor Loss: -66233.55548095703

Episode 5146: Time: 0.22767138481140137, Total Reward: 183.16015079762965, Q Loss: 166787.6279296875, Actor Loss: -19304.101135253906

Episode 5147: Time: 0.09758925437927246, Total Reward: 71.16631892057869, Q Loss: 70616.63671875, Actor Loss: -8206.700073242188

Episode 5148: Time: 0.8968551158905029, Total Reward: 759.9930467029641, Q Loss: 648947.1875, Actor Loss: -76915.35668945312

Episode 5149: Time: 0.5732283592224121, Total Reward: 482.02490037183793, Q Loss: 385369.4040527344, Actor Loss: -49431.1884765625

Episode 5150: Time: 0.23839354515075684, Total Reward: 194.14100308176353, Q Loss: 177529.8271484375, Actor Loss: -20225.296752929688

Episode 5151: Time: 0.3898162841796875, Total Reward: 324.4268106575167, Q Loss: 269933.0910644531, Actor Loss: -33284.01983642578

Episode 5152: Time: 0.43247556686401367, Total Reward: 360.95865531306566, Q Loss: 323228.0135498047, Actor Loss: -37538.92608642578

Episode 5153: Time: 0.7998740673065186, Total Reward: 678.7808947176635, Q Loss: 586231.7392578125, Actor Loss: -69537.92657470703

Episode 5154: Time: 0.33616042137145996, Total Reward: 276.047496654392, Q Loss: 235839.8232421875, Actor Loss: -28819.777587890625

Episode 5155: Time: 0.8219373226165771, Total Reward: 695.8949366283261, Q Loss: 589115.4750976562, Actor Loss: -70117.07568359375

Episode 5156: Time: 0.4860880374908447, Total Reward: 407.05954692080604, Q Loss: 389279.09521484375, Actor Loss: -42210.489013671875

Episode 5157: Time: 0.14068078994750977, Total Reward: 110.07254156301592, Q Loss: 98217.876953125, Actor Loss: -12047.160522460938  
Episode 5158: Time: 0.4210381507873535, Total Reward: 352.40716257494535, Q Loss: 315678.0036621094, Actor Loss: -35785.267517089844  
Episode 5159: Time: 0.21631526947021484, Total Reward: 175.14183955868006, Q Loss: 144702.01196289062, Actor Loss: -18620.94171142578  
Episode 5160: Time: 0.6797115802764893, Total Reward: 576.145127764408, Q Loss: 474180.7795410156, Actor Loss: -58907.808349609375  
Episode 5161: Time: 0.46514296531677246, Total Reward: 389.38037623813983, Q Loss: 462889.31591796875, Actor Loss: -40573.92907714844  
Episode 5162: Time: 0.31369519233703613, Total Reward: 257.4519969230127, Q Loss: 244836.79077148438, Actor Loss: -27027.074951171875  
Episode 5163: Time: 0.3028233051300049, Total Reward: 249.13651638795776, Q Loss: 206546.3896484375, Actor Loss: -25782.297241210938  
Episode 5164: Time: 0.12987089157104492, Total Reward: 100.85171298849083, Q Loss: 94987.44091796875, Actor Loss: -10819.836975097656  
Episode 5165: Time: 0.3136320114135742, Total Reward: 258.3991115647511, Q Loss: 257761.13940429688, Actor Loss: -26800.10174560547  
Episode 5166: Time: 0.11902999877929688, Total Reward: 91.68421194205288, Q Loss: 104908.64990234375, Actor Loss: -10406.153564453125  
Episode 5167: Time: 0.21662425994873047, Total Reward: 175.32559133110755, Q Loss: 154520.76684570312, Actor Loss: -18263.65557861328  
Episode 5168: Time: 0.1513361930847168, Total Reward: 119.23341992569827, Q Loss: 107175.01806640625, Actor Loss: -13620.106140136719  
Episode 5169: Time: 0.3678929805755615, Total Reward: 302.4433060453204, Q Loss: 267699.66052246094, Actor Loss: -32867.99676513672  
Episode 5170: Time: 0.46543264389038086, Total Reward: 387.98274150315956, Q Loss: 350473.5712890625, Actor Loss: -40876.37744140625  
Episode 5171: Time: 0.29363489151000977, Total Reward: 240.93959453884872, Q Loss: 249327.49584960938, Actor Loss: -25958.318420410156  
Episode 5172: Time: 0.1843550205230713, Total Reward: 146.31536974659411, Q Loss: 131679.87744140625, Actor Loss: -16436.059692382812  
Episode 5173: Time: 0.3252701759338379, Total Reward: 266.1605615290614, Q Loss: 198829.18188476562, Actor Loss: -28126.306518554688  
Episode 5174: Time: 0.4435136318206787, Total Reward: 371.3708544810601, Q Loss: 367494.58544921875, Actor Loss: -38647.61608886719  
Episode 5175: Time: 0.22710084915161133, Total Reward: 184.3262171277761, Q Loss: 195995.31665039062, Actor Loss: -20398.633178710938  
Episode 5176: Time: 0.18390464782714844, Total Reward: 147.48751290785628, Q Loss: 119558.7763671875, Actor Loss: -16186.575866699219  
Episode 5177: Time: 0.21665358543395996, Total Reward: 173.89802479369968, Q Loss: 153216.31420898438, Actor Loss: -19212.143005371094  
Episode 5178: Time: 0.7984342575073242, Total Reward: 676.1616260849635, Q Loss: 568444.0607910156, Actor Loss: -70700.87042236328  
Episode 5179: Time: 0.1191256046295166, Total Reward: 91.17615686872693, Q Loss: 68866.55322265625, Actor Loss: -10135.263793945312  
Episode 5180: Time: 0.17338991165161133, Total Reward: 138.3059620634599, Q Loss: 122815.80004882812, Actor Loss: -14709.638488769531  
Episode 5181: Time: 0.6383466720581055, Total Reward: 537.311150403344, Q Loss: 557182.390625, Actor Loss: -56894.94647216797  
Episode 5182: Time: 0.5732936859130859, Total Reward: 481.9800594905407, Q Loss: 437300.56298828125, Actor Loss: -49666.613342285156  
Episode 5183: Time: 0.24861812591552734, Total Reward: 202.85161024392795, Q Loss: 204490.24609375, Actor Loss: -21532.6220703125  
Episode 5184: Time: 0.31359148025512695, Total Reward: 257.7449350641894, Q Loss: 233475.46704101562, Actor Loss: -27435.732971191406

Episode 5185: Time: 0.09774065017700195, Total Reward: 72.84071754404323, Q Loss: 98157.11962890625, Actor Loss: -8941.138305664062  
Episode 5186: Time: 0.30290913581848145, Total Reward: 249.73797400806149, Q Loss: 261185.3720703125, Actor Loss: -26248.593688964844  
Episode 5187: Time: 0.16214942932128906, Total Reward: 129.04393102836593, Q Loss: 122930.07507324219, Actor Loss: -14323.314758300781  
Episode 5188: Time: 0.37802577018737793, Total Reward: 313.18492657308144, Q Loss: 276514.5234375, Actor Loss: -33098.558837890625  
Episode 5189: Time: 0.2703413963317871, Total Reward: 219.76692783946132, Q Loss: 190735.71533203125, Actor Loss: -24096.82989501953  
Episode 5190: Time: 0.15150094032287598, Total Reward: 119.27642805172836, Q Loss: 104987.0625, Actor Loss: -13327.711975097656  
Episode 5191: Time: 0.19478464126586914, Total Reward: 155.50106761039768, Q Loss: 149317.12719726562, Actor Loss: -17112.654846191406  
Episode 5192: Time: 0.389096736907959, Total Reward: 323.07131763425, Q Loss: 294603.38330078125, Actor Loss: -34429.775390625  
Episode 5193: Time: 0.14051270484924316, Total Reward: 109.78063896160725, Q Loss: 109715.15893554688, Actor Loss: -12504.216674804688  
Episode 5194: Time: 0.16248750686645508, Total Reward: 128.09373825091524, Q Loss: 128366.06616210938, Actor Loss: -14888.525451660156  
Episode 5195: Time: 0.335172176361084, Total Reward: 277.39899317019297, Q Loss: 238118.728515625, Actor Loss: -29755.906616210938  
Episode 5196: Time: 0.3995816707611084, Total Reward: 334.6165420972078, Q Loss: 311828.16943359375, Actor Loss: -34911.31481933594  
Episode 5197: Time: 0.27081847190856934, Total Reward: 220.98314808010053, Q Loss: 205725.15112304688, Actor Loss: -23679.90283203125  
Episode 5198: Time: 0.30321288108825684, Total Reward: 249.79895009423768, Q Loss: 299703.3063964844, Actor Loss: -27786.03204345703  
Episode 5199: Time: 0.2928166389465332, Total Reward: 239.14630363504014, Q Loss: 264961.6633300781, Actor Loss: -27166.591552734375  
Validation Mean: 9355.461213364542, Validation Std: 0.7194796694630038  
saving model  
Episode 5200: Time: 0.6293461322784424, Total Reward: 526.9035819125569, Q Loss: 450801.86572265625, Actor Loss: -55146.68328857422  
Episode 5201: Time: 0.18430233001708984, Total Reward: 146.50808540459965, Q Loss: 171779.255859375, Actor Loss: -16244.088806152344  
Episode 5202: Time: 0.6159977912902832, Total Reward: 518.0763916554093, Q Loss: 534169.2071533203, Actor Loss: -54218.637145996094  
Episode 5203: Time: 0.3566884994506836, Total Reward: 292.65504909683114, Q Loss: 289541.40576171875, Actor Loss: -32209.346923828125  
Episode 5204: Time: 0.37806081771850586, Total Reward: 314.62041578978216, Q Loss: 361573.1318359375, Actor Loss: -32742.35028076172  
Episode 5205: Time: 0.3670053482055664, Total Reward: 305.736453486002, Q Loss: 305311.2578125, Actor Loss: -33138.2802734375  
Episode 5206: Time: 0.3245508670806885, Total Reward: 266.93611048901874, Q Loss: 266495.9147949219, Actor Loss: -29329.58935546875  
Episode 5207: Time: 0.12985897064208984, Total Reward: 100.83335450043096, Q Loss: 99930.9658203125, Actor Loss: -11672.045532226562  
Episode 5208: Time: 0.31351232528686523, Total Reward: 258.56800444603044, Q Loss: 259389.11206054688, Actor Loss: -28487.236938476562  
Episode 5209: Time: 0.20519614219665527, Total Reward: 165.6393106892985, Q Loss: 146150.70678710938, Actor Loss: -18542.442749023438  
Episode 5210: Time: 0.2270040512084961, Total Reward: 182.57753316057787, Q Loss: 183323.111328125, Actor Loss: -20206.735229492188  
Episode 5211: Time: 0.7656524181365967, Total Reward: 649.8386965409805, Q Loss: 663198.5402832031, Actor Loss: -69247.28918457031

Episode 5212: Time: 0.19396257400512695, Total Reward: 155.91567435850328, Q Loss: 127118.08618164062, Actor Loss: -18242.055725097656  
Episode 5213: Time: 0.41013503074645996, Total Reward: 343.32964652429587, Q Loss: 366430.8459472656, Actor Loss: -36184.53991699219  
Episode 5214: Time: 0.37752747535705566, Total Reward: 314.306802862716, Q Loss: 279808.7302246094, Actor Loss: -33160.01708984375  
Episode 5215: Time: 0.4534127712249756, Total Reward: 379.4426694600917, Q Loss: 305804.6960449219, Actor Loss: -40860.75646972656  
Episode 5216: Time: 0.42133498191833496, Total Reward: 351.66622533985316, Q Loss: 308431.3649902344, Actor Loss: -38746.697326660156  
Episode 5217: Time: 0.2490692138671875, Total Reward: 203.74177751883687, Q Loss: 196776.28369140625, Actor Loss: -22556.242248535156  
Episode 5218: Time: 0.1835939884185791, Total Reward: 147.74147520709315, Q Loss: 115937.18896484375, Actor Loss: -16096.761535644531  
Episode 5219: Time: 0.17318129539489746, Total Reward: 138.20082760208717, Q Loss: 126354.93774414062, Actor Loss: -15554.650695800781  
Episode 5220: Time: 0.43201398849487305, Total Reward: 361.4048726627559, Q Loss: 352964.0334472656, Actor Loss: -38806.99658203125  
Episode 5221: Time: 0.18352675437927246, Total Reward: 147.82199483180642, Q Loss: 157651.88793945312, Actor Loss: -16793.054077148438  
Episode 5222: Time: 0.17333149909973145, Total Reward: 137.9224499104569, Q Loss: 109069.31518554688, Actor Loss: -15738.607849121094  
Episode 5223: Time: 0.13000082969665527, Total Reward: 101.02309898240969, Q Loss: 82592.82666015625, Actor Loss: -12128.462341308594  
Episode 5224: Time: 0.280895471572876, Total Reward: 230.29842315628366, Q Loss: 186078.25024414062, Actor Loss: -25256.782958984375  
Episode 5225: Time: 0.3244285583496094, Total Reward: 268.0668591066503, Q Loss: 234391.6630859375, Actor Loss: -30499.03564453125  
Episode 5226: Time: 0.42131829261779785, Total Reward: 351.27758934136784, Q Loss: 276094.66455078125, Actor Loss: -37678.74627685547  
Episode 5227: Time: 0.4423203468322754, Total Reward: 370.3232709507141, Q Loss: 322759.7634277344, Actor Loss: -40576.80310058594  
Episode 5228: Time: 0.38817834854125977, Total Reward: 323.9214827725626, Q Loss: 340357.4715576172, Actor Loss: -35754.06103515625  
Episode 5229: Time: 0.3246026039123535, Total Reward: 267.23553254696145, Q Loss: 265673.94873046875, Actor Loss: -29405.34405517578  
Episode 5230: Time: 0.3239927291870117, Total Reward: 266.11444069124946, Q Loss: 256557.96020507812, Actor Loss: -29238.233337402344  
Episode 5231: Time: 0.24866056442260742, Total Reward: 200.7129689686149, Q Loss: 219827.39404296875, Actor Loss: -22622.23486328125  
Episode 5232: Time: 0.40006232261657715, Total Reward: 333.68937061967296, Q Loss: 311404.4645996094, Actor Loss: -36448.021545410156  
Episode 5233: Time: 0.303006649017334, Total Reward: 246.27743366932512, Q Loss: 252981.55981445312, Actor Loss: -26898.849365234375  
Episode 5234: Time: 0.39962172508239746, Total Reward: 331.92409874362227, Q Loss: 369103.423828125, Actor Loss: -36448.299560546875  
Episode 5235: Time: 0.16292619705200195, Total Reward: 126.16982504817591, Q Loss: 132340.14965820312, Actor Loss: -14232.487670898438  
Episode 5236: Time: 0.20651030540466309, Total Reward: 165.3497227314336, Q Loss: 168806.7626953125, Actor Loss: -18927.40899658203  
Episode 5237: Time: 0.22773289680480957, Total Reward: 184.94473929404467, Q Loss: 210034.52099609375, Actor Loss: -21136.746215820312  
Episode 5238: Time: 0.36738014221191406, Total Reward: 305.48509032830617, Q Loss: 299066.2092285156, Actor Loss: -32976.122985839844  
Episode 5239: Time: 0.17305946350097656, Total Reward: 138.17437815631374, Q Loss: 159148.30395507812, Actor Loss: -15651.767822265625

Episode 5240: Time: 0.6599669456481934, Total Reward: 556.9808868913943, Q Loss: 600885.2465820312, Actor Loss: -60609.8388671875  
Episode 5241: Time: 0.5082414150238037, Total Reward: 426.6945849161066, Q Loss: 429858.84521484375, Actor Loss: -46240.497619628906  
Episode 5242: Time: 0.5180463790893555, Total Reward: 435.946532974181, Q Loss: 431433.6408691406, Actor Loss: -47632.65930175781  
Episode 5243: Time: 0.32383203506469727, Total Reward: 268.1832824233511, Q Loss: 242476.4658203125, Actor Loss: -29825.646118164062  
Episode 5244: Time: 0.14043021202087402, Total Reward: 109.52227266435848, Q Loss: 118518.47802734375, Actor Loss: -12607.204772949219  
Episode 5245: Time: 0.49855542182922363, Total Reward: 417.5248459459454, Q Loss: 430980.5998535156, Actor Loss: -45086.134216308594  
Episode 5246: Time: 0.3032054901123047, Total Reward: 248.57120962162423, Q Loss: 267533.75048828125, Actor Loss: -29134.935791015625  
Episode 5247: Time: 0.36742663383483887, Total Reward: 304.1954987041974, Q Loss: 337439.6257324219, Actor Loss: -34561.66003417969  
Episode 5248: Time: 0.14052295684814453, Total Reward: 109.96029817480826, Q Loss: 124602.533203125, Actor Loss: -12922.865356445312  
Episode 5249: Time: 0.37845516204833984, Total Reward: 313.7533031089149, Q Loss: 265285.69384765625, Actor Loss: -35111.783447265625  
Episode 5250: Time: 0.16225504875183105, Total Reward: 128.3078670506308, Q Loss: 132880.86254882812, Actor Loss: -15431.200256347656  
Episode 5251: Time: 0.24919962882995605, Total Reward: 201.14497112129496, Q Loss: 214917.10278320312, Actor Loss: -22745.775512695312  
Episode 5252: Time: 0.5730798244476318, Total Reward: 481.6274649069221, Q Loss: 428499.2326660156, Actor Loss: -53404.7734375  
Episode 5253: Time: 0.15148544311523438, Total Reward: 118.99372359556357, Q Loss: 126915.45239257812, Actor Loss: -14120.163208007812  
Episode 5254: Time: 0.22719573974609375, Total Reward: 183.07909973025733, Q Loss: 159605.75854492188, Actor Loss: -21234.699096679688  
Episode 5255: Time: 0.31330275535583496, Total Reward: 257.6537535362181, Q Loss: 243542.55004882812, Actor Loss: -28778.619201660156  
Episode 5256: Time: 0.08675980567932129, Total Reward: 62.65780721690626, Q Loss: 62556.23828125, Actor Loss: -8085.386657714844  
Episode 5257: Time: 0.18409991264343262, Total Reward: 146.86248505682445, Q Loss: 140429.30493164062, Actor Loss: -17242.554443359375  
Episode 5258: Time: 0.1511974334716797, Total Reward: 119.47014814284663, Q Loss: 116639.05517578125, Actor Loss: -14136.251708984375  
Episode 5259: Time: 0.14080286026000977, Total Reward: 109.74127568053139, Q Loss: 139734.95629882812, Actor Loss: -13310.493591308594  
Episode 5260: Time: 0.5286102294921875, Total Reward: 444.8658649569936, Q Loss: 484025.5017089844, Actor Loss: -49109.833557128906  
Episode 5261: Time: 0.47483229637145996, Total Reward: 397.30094715573443, Q Loss: 363799.69873046875, Actor Loss: -43517.07550048828  
Episode 5262: Time: 0.38845396041870117, Total Reward: 323.8412096840174, Q Loss: 373147.3986816406, Actor Loss: -36154.28088378906  
Episode 5263: Time: 1.0562999248504639, Total Reward: 900.0412945980828, Q Loss: 986896.2966308594, Actor Loss: -97855.30297851562  
Episode 5264: Time: 0.1297602653503418, Total Reward: 100.86939575986933, Q Loss: 132447.31469726562, Actor Loss: -11875.714599609375  
Episode 5265: Time: 0.5396788120269775, Total Reward: 453.86325604561983, Q Loss: 546781.4694824219, Actor Loss: -50009.229919433594  
Episode 5266: Time: 0.2593502998352051, Total Reward: 212.21765875312374, Q Loss: 233093.80126953125, Actor Loss: -24250.546020507812  
Episode 5267: Time: 0.15126752853393555, Total Reward: 118.99607042785395, Q Loss: 121796.0263671875, Actor Loss: -14416.552978515625

Episode 5268: Time: 0.2915661334991455, Total Reward: 239.141783607831, Q Loss: 235703.91235351562, Actor Loss: -26709.684997558594  
Episode 5269: Time: 0.6691231727600098, Total Reward: 567.0438323739797, Q Loss: 608873.8410644531, Actor Loss: -62848.296630859375  
Episode 5270: Time: 0.24860596656799316, Total Reward: 201.39501591170114, Q Loss: 208932.47265625, Actor Loss: -23276.327026367188  
Episode 5271: Time: 0.3134479522705078, Total Reward: 258.15326598591423, Q Loss: 277909.1032714844, Actor Loss: -28924.045043945312  
Episode 5272: Time: 0.46369504928588867, Total Reward: 387.87597246494795, Q Loss: 355924.1027832031, Actor Loss: -44316.67108154297  
Episode 5273: Time: 0.25936269760131836, Total Reward: 210.02373502362937, Q Loss: 242164.1328125, Actor Loss: -25119.06658935547  
Episode 5274: Time: 0.16211366653442383, Total Reward: 128.41569854843772, Q Loss: 126886.82080078125, Actor Loss: -15185.341064453125  
Episode 5275: Time: 0.24832510948181152, Total Reward: 203.4544773430425, Q Loss: 260236.0244140625, Actor Loss: -23931.31866455078  
Episode 5276: Time: 0.25910353660583496, Total Reward: 212.63711145261848, Q Loss: 243595.95947265625, Actor Loss: -23673.765014648438  
Episode 5277: Time: 0.4641096591949463, Total Reward: 388.6575946358272, Q Loss: 444258.27685546875, Actor Loss: -43712.35705566406  
Episode 5278: Time: 0.1622309684753418, Total Reward: 128.1023657321692, Q Loss: 148939.60546875, Actor Loss: -15281.366760253906  
Episode 5279: Time: 0.10874772071838379, Total Reward: 82.37973671912171, Q Loss: 102082.10302734375, Actor Loss: -10333.7470703125  
Episode 5280: Time: 0.3141803741455078, Total Reward: 259.57686104389995, Q Loss: 234725.29638671875, Actor Loss: -29677.682861328125  
Episode 5281: Time: 0.48716163635253906, Total Reward: 406.80034295717917, Q Loss: 476827.01416015625, Actor Loss: -45909.51055908203  
Episode 5282: Time: 0.3670227527618408, Total Reward: 303.3831256519052, Q Loss: 291624.07177734375, Actor Loss: -35363.39099121094  
Episode 5283: Time: 0.549807071685791, Total Reward: 463.81260469017457, Q Loss: 470788.5275878906, Actor Loss: -52040.83544921875  
Episode 5284: Time: 0.21596407890319824, Total Reward: 173.93178829120973, Q Loss: 228551.26586914062, Actor Loss: -20688.989990234375  
Episode 5285: Time: 0.2376878261566162, Total Reward: 193.0218549631224, Q Loss: 222230.2578125, Actor Loss: -22393.585510253906  
Episode 5286: Time: 0.4313993453979492, Total Reward: 361.0682495359258, Q Loss: 439741.20556640625, Actor Loss: -40743.04211425781  
Episode 5287: Time: 0.37746524810791016, Total Reward: 314.33799939356743, Q Loss: 327146.8972167969, Actor Loss: -36447.34460449219  
Episode 5288: Time: 0.5717592239379883, Total Reward: 481.949081373055, Q Loss: 549606.4216308594, Actor Loss: -54098.61828613281  
Episode 5289: Time: 0.23762893676757812, Total Reward: 193.5332301952325, Q Loss: 249758.82373046875, Actor Loss: -22414.866638183594  
Episode 5290: Time: 0.23764896392822266, Total Reward: 192.55738337340827, Q Loss: 228618.56298828125, Actor Loss: -22002.82049560547  
Episode 5291: Time: 0.378218412399292, Total Reward: 314.8856215293786, Q Loss: 343050.6799316406, Actor Loss: -35399.92498779297  
Episode 5292: Time: 0.39945054054260254, Total Reward: 333.7218545170872, Q Loss: 324298.90771484375, Actor Loss: -38188.93664550781  
Episode 5293: Time: 0.3347616195678711, Total Reward: 274.9400914549078, Q Loss: 313090.38720703125, Actor Loss: -32376.46954345703  
Episode 5294: Time: 0.44289541244506836, Total Reward: 369.30932127734167, Q Loss: 315645.0793457031, Actor Loss: -42998.345275878906  
Episode 5295: Time: 0.3777780532836914, Total Reward: 314.80476281560925, Q Loss: 357726.3073730469, Actor Loss: -35459.21502685547

Episode 5296: Time: 0.4318673610687256, Total Reward: 360.88614794239675, Q Loss: 388831.9069824219, Actor Loss: -40981.681579589844  
Episode 5297: Time: 0.09734773635864258, Total Reward: 72.38871046622792, Q Loss: 83512.71533203125, Actor Loss: -9145.563537597656  
Episode 5298: Time: 0.15166497230529785, Total Reward: 119.53280922846379, Q Loss: 172540.62353515625, Actor Loss: -14596.518188476562  
Episode 5299: Time: 0.30219125747680664, Total Reward: 249.50355797921608, Q Loss: 243906.18481445312, Actor Loss: -29141.580444335938  
Validation Mean: 9355.226086750248, Validation Std: 0.4683668938444261  
saving model  
Episode 5300: Time: 0.26163721084594727, Total Reward: 212.31902768142209, Q Loss: 215245.32373046875, Actor Loss: -24771.897583007812  
Episode 5301: Time: 0.19481754302978516, Total Reward: 156.53969363769846, Q Loss: 193096.40991210938, Actor Loss: -18212.288024902344  
Episode 5302: Time: 0.13074541091918945, Total Reward: 101.25477152632756, Q Loss: 130786.38232421875, Actor Loss: -12289.179260253906  
Episode 5303: Time: 0.5416240692138672, Total Reward: 454.34115894978635, Q Loss: 505809.5510253906, Actor Loss: -51934.22784423828  
Episode 5304: Time: 0.31373047828674316, Total Reward: 258.5473266238366, Q Loss: 273224.3781738281, Actor Loss: -29710.386596679688  
Episode 5305: Time: 0.2701692581176758, Total Reward: 221.7255159482771, Q Loss: 251125.3828125, Actor Loss: -26356.91766357422  
Episode 5306: Time: 0.23776936531066895, Total Reward: 192.0877219500717, Q Loss: 225230.72607421875, Actor Loss: -23302.54522705078  
Episode 5307: Time: 0.2377934455871582, Total Reward: 191.6169758422672, Q Loss: 228221.34350585938, Actor Loss: -21960.667053222656  
Episode 5308: Time: 0.21593880653381348, Total Reward: 173.89069211303126, Q Loss: 175898.89501953125, Actor Loss: -19960.24676513672  
Episode 5309: Time: 0.3453848361968994, Total Reward: 285.8564695104863, Q Loss: 296290.5517578125, Actor Loss: -32935.272216796875  
Episode 5310: Time: 0.3453986644744873, Total Reward: 286.9852897040175, Q Loss: 277197.587890625, Actor Loss: -33740.425537109375  
Episode 5311: Time: 0.3563699722290039, Total Reward: 295.31186224910186, Q Loss: 308749.142578125, Actor Loss: -34232.82598876953  
Episode 5312: Time: 0.11917757987976074, Total Reward: 91.73268922172244, Q Loss: 92082.57373046875, Actor Loss: -11917.274780273438  
Episode 5313: Time: 0.2706301212310791, Total Reward: 218.2065116163706, Q Loss: 222966.85986328125, Actor Loss: -25501.140258789062  
Episode 5314: Time: 0.21791291236877441, Total Reward: 172.05322032205052, Q Loss: 209738.025390625, Actor Loss: -20255.28192138672  
Episode 5315: Time: 0.11920523643493652, Total Reward: 90.58175898382952, Q Loss: 114933.9736328125, Actor Loss: -11607.90087890625  
Episode 5316: Time: 0.48719263076782227, Total Reward: 407.7436947889674, Q Loss: 480136.77734375, Actor Loss: -46388.85400390625  
Episode 5317: Time: 0.1946260929107666, Total Reward: 156.55483556643156, Q Loss: 234034.44873046875, Actor Loss: -17873.912658691406  
Episode 5318: Time: 0.09769082069396973, Total Reward: 71.47473023324345, Q Loss: 95141.84521484375, Actor Loss: -9082.932556152344  
Episode 5319: Time: 0.3244767189025879, Total Reward: 268.3239876410228, Q Loss: 347523.8171386719, Actor Loss: -30247.34588623047  
Episode 5320: Time: 0.2697105407714844, Total Reward: 221.5826294602545, Q Loss: 277402.31103515625, Actor Loss: -25737.17266845703  
Episode 5321: Time: 0.30320000648498535, Total Reward: 249.18319232711457, Q Loss: 294245.7775878906, Actor Loss: -29936.606506347656  
Episode 5322: Time: 0.18358182907104492, Total Reward: 146.54454811814898, Q Loss: 153740.16479492188, Actor Loss: -18037.35626220703



Episode 5323: Time: 0.6582555770874023, Total Reward: 555.0387572403207, Q Loss: 647921.0334472656, Actor Loss: -65049.10546875  
Episode 5324: Time: 0.291731595993042, Total Reward: 239.7724322184879, Q Loss: 249367.7177734375, Actor Loss: -27978.1455078125  
Episode 5325: Time: 0.3563718795776367, Total Reward: 296.63660273317646, Q Loss: 323256.6135253906, Actor Loss: -35280.44512939453  
Episode 5326: Time: 0.10834383964538574, Total Reward: 81.80869818062024, Q Loss: 95729.74389648438, Actor Loss: -10969.36669921875  
Episode 5327: Time: 0.19515609741210938, Total Reward: 155.68116181377962, Q Loss: 180419.6376953125, Actor Loss: -19134.72235107422  
Episode 5328: Time: 0.3565073013305664, Total Reward: 295.22033508362017, Q Loss: 351628.0729980469, Actor Loss: -34440.318908691406  
Episode 5329: Time: 0.23782753944396973, Total Reward: 193.82074594978027, Q Loss: 236652.78002929688, Actor Loss: -23603.022521972656  
Episode 5330: Time: 0.19460773468017578, Total Reward: 156.59687391156268, Q Loss: 178813.80419921875, Actor Loss: -18778.12957763672  
Episode 5331: Time: 0.2811164855957031, Total Reward: 230.70525747676203, Q Loss: 224579.64770507812, Actor Loss: -27651.877380371094  
Episode 5332: Time: 0.06533598899841309, Total Reward: 44.14045398009804, Q Loss: 72159.54272460938, Actor Loss: -6374.3226318359375  
Episode 5333: Time: 0.20578742027282715, Total Reward: 166.18092542041285, Q Loss: 170896.80786132812, Actor Loss: -19947.813232421875  
Episode 5334: Time: 0.7562501430511475, Total Reward: 641.0900545843009, Q Loss: 703029.255859375, Actor Loss: -74245.10290527344  
Episode 5335: Time: 0.11968040466308594, Total Reward: 91.59446669144744, Q Loss: 80013.25219726562, Actor Loss: -11417.329833984375  
Episode 5336: Time: 0.4533870220184326, Total Reward: 379.7717634670241, Q Loss: 403562.4265136719, Actor Loss: -44802.045471191406  
Episode 5337: Time: 0.17302799224853516, Total Reward: 137.9987346084882, Q Loss: 186023.203125, Actor Loss: -16694.14190673828  
Episode 5338: Time: 0.17371487617492676, Total Reward: 138.05103645555945, Q Loss: 198944.14501953125, Actor Loss: -16807.821350097656  
Episode 5339: Time: 0.23784685134887695, Total Reward: 190.78537046536, Q Loss: 239410.72900390625, Actor Loss: -22666.237670898438  
Episode 5340: Time: 0.4103889465332031, Total Reward: 343.07727106429485, Q Loss: 393388.13037109375, Actor Loss: -40266.09387207031  
Episode 5341: Time: 0.28098392486572266, Total Reward: 230.34206056091838, Q Loss: 212477.95971679688, Actor Loss: -26663.725036621094  
Episode 5342: Time: 0.5067446231842041, Total Reward: 425.8671505922814, Q Loss: 462114.568359375, Actor Loss: -50831.312561035156  
Episode 5343: Time: 0.2919001579284668, Total Reward: 240.50023799336014, Q Loss: 307518.5349121094, Actor Loss: -27694.469787597656  
Episode 5344: Time: 0.1729588508605957, Total Reward: 138.23574493251618, Q Loss: 160558.89990234375, Actor Loss: -16519.9873046875  
Episode 5345: Time: 0.6371798515319824, Total Reward: 539.6475703689413, Q Loss: 623171.4445800781, Actor Loss: -62318.76397705078  
Episode 5346: Time: 0.2381591796875, Total Reward: 194.61318429463176, Q Loss: 231351.66137695312, Actor Loss: -22941.396057128906  
Episode 5347: Time: 0.18350839614868164, Total Reward: 147.28056731097826, Q Loss: 160673.76831054688, Actor Loss: -18239.209716796875  
Episode 5348: Time: 0.0763704776763916, Total Reward: 53.921903458173965, Q Loss: 74509.47705078125, Actor Loss: -7301.510559082031  
Episode 5349: Time: 0.10829877853393555, Total Reward: 81.86136377725546, Q Loss: 84208.91748046875, Actor Loss: -10637.9921875  
Episode 5350: Time: 0.6153621673583984, Total Reward: 518.4841550922564, Q Loss: 581376.0808105469, Actor Loss: -61745.87384033203

Episode 5351: Time: 0.24922704696655273, Total Reward: 202.73459237484647, Q Loss: 230553.6796875, Actor Loss: -24346.524169921875  
Episode 5352: Time: 0.3359861373901367, Total Reward: 276.4293420711597, Q Loss: 297462.57421875, Actor Loss: -33244.158630371094  
Episode 5353: Time: 0.4120750427246094, Total Reward: 341.49360274946775, Q Loss: 429591.9597167969, Actor Loss: -40936.04724121094  
Episode 5354: Time: 0.3788430690765381, Total Reward: 314.54904630021815, Q Loss: 492961.54638671875, Actor Loss: -37176.79504394531  
Episode 5355: Time: 0.9826757907867432, Total Reward: 837.9090588364243, Q Loss: 1003911.3344726562, Actor Loss: -97980.75793457031  
Episode 5356: Time: 0.18391895294189453, Total Reward: 147.44852840742104, Q Loss: 197979.94067382812, Actor Loss: -18245.67694091797  
Episode 5357: Time: 0.28150415420532227, Total Reward: 230.30580016685025, Q Loss: 269779.2590332031, Actor Loss: -27764.583435058594  
Episode 5358: Time: 0.1731867790222168, Total Reward: 134.87876656699277, Q Loss: 147482.091796875, Actor Loss: -16364.271240234375  
Episode 5359: Time: 0.08718752861022949, Total Reward: 63.30397138427053, Q Loss: 82832.921875, Actor Loss: -8151.213195800781  
Episode 5360: Time: 0.14069652557373047, Total Reward: 110.17844068282923, Q Loss: 138073.24560546875, Actor Loss: -14206.548889160156  
Episode 5361: Time: 0.5292978286743164, Total Reward: 443.74261243317017, Q Loss: 492388.25341796875, Actor Loss: -52277.31524658203  
Episode 5362: Time: 0.29161858558654785, Total Reward: 238.86699746638791, Q Loss: 257075.90405273438, Actor Loss: -28735.553588867188  
Episode 5363: Time: 0.4117777347564697, Total Reward: 342.57566229367393, Q Loss: 300932.3251953125, Actor Loss: -39792.51428222656  
Episode 5364: Time: 0.07604074478149414, Total Reward: 53.74003211637635, Q Loss: 97861.6884765625, Actor Loss: -7587.375549316406  
Episode 5365: Time: 0.3027505874633789, Total Reward: 247.19127111500285, Q Loss: 318776.72705078125, Actor Loss: -30917.944396972656  
Episode 5366: Time: 0.14063620567321777, Total Reward: 109.89813363964342, Q Loss: 167043.23291015625, Actor Loss: -13669.856079101562  
Episode 5367: Time: 0.14089465141296387, Total Reward: 108.99633690250057, Q Loss: 163831.38232421875, Actor Loss: -13909.454528808594  
Episode 5368: Time: 0.4320836067199707, Total Reward: 359.5567621702923, Q Loss: 520786.39599609375, Actor Loss: -44280.71063232422  
Episode 5369: Time: 0.19476056098937988, Total Reward: 156.89681160651438, Q Loss: 200680.53540039062, Actor Loss: -20016.297607421875  
Episode 5370: Time: 0.4214658737182617, Total Reward: 352.51786477839613, Q Loss: 375171.3195800781, Actor Loss: -42127.44189453125  
Episode 5371: Time: 0.17291855812072754, Total Reward: 138.09135809477965, Q Loss: 210944.41015625, Actor Loss: -17479.9716796875  
Episode 5372: Time: 0.47516441345214844, Total Reward: 398.8803932441317, Q Loss: 457696.81005859375, Actor Loss: -47902.375915527344  
Episode 5373: Time: 0.11914467811584473, Total Reward: 90.90045383325813, Q Loss: 126661.83984375, Actor Loss: -11720.602722167969  
Episode 5374: Time: 0.32396697998046875, Total Reward: 267.9539561968731, Q Loss: 332379.11328125, Actor Loss: -32504.816528320312  
Episode 5375: Time: 0.4971437454223633, Total Reward: 416.1569583330256, Q Loss: 552605.4504394531, Actor Loss: -49102.07214355469  
Episode 5376: Time: 0.3347139358520508, Total Reward: 277.7994511009809, Q Loss: 320878.9248046875, Actor Loss: -33025.740966796875  
Episode 5377: Time: 0.3135533332824707, Total Reward: 257.54578838657324, Q Loss: 299793.068359375, Actor Loss: -31476.097900390625  
Episode 5378: Time: 0.2593250274658203, Total Reward: 212.07549910782598, Q Loss: 241958.0234375, Actor Loss: -25813.356201171875

Episode 5379: Time: 0.34552812576293945, Total Reward: 284.74720411725235, Q Loss: 402215.2761230469, Actor Loss: -35716.786682128906  
Episode 5380: Time: 0.5187499523162842, Total Reward: 434.3327440439943, Q Loss: 477056.67138671875, Actor Loss: -52401.047912597656  
Episode 5381: Time: 0.4106559753417969, Total Reward: 342.85289124579776, Q Loss: 443380.6472167969, Actor Loss: -41524.58837890625  
Episode 5382: Time: 0.3352668285369873, Total Reward: 277.83149901165166, Q Loss: 341955.8005371094, Actor Loss: -34645.052490234375  
Episode 5383: Time: 0.3573300838470459, Total Reward: 294.6370168858078, Q Loss: 339384.6350097656, Actor Loss: -36318.27099609375  
Episode 5384: Time: 0.12020039558410645, Total Reward: 91.78986749220313, Q Loss: 141185.099609375, Actor Loss: -12625.112182617188  
Episode 5385: Time: 0.44423437118530273, Total Reward: 369.56801392842357, Q Loss: 383741.583984375, Actor Loss: -45301.657165527344  
Episode 5386: Time: 0.23842096328735352, Total Reward: 192.8309717759835, Q Loss: 243618.1494140625, Actor Loss: -24380.35986328125  
Episode 5387: Time: 0.5190324783325195, Total Reward: 435.3210406299876, Q Loss: 558278.0178222656, Actor Loss: -53531.96307373047  
Episode 5388: Time: 0.22702646255493164, Total Reward: 184.28669687996185, Q Loss: 265122.1455078125, Actor Loss: -23287.017333984375  
Episode 5389: Time: 0.4644489288330078, Total Reward: 387.4847450033099, Q Loss: 489226.8776855469, Actor Loss: -46871.87823486328  
Episode 5390: Time: 0.18365049362182617, Total Reward: 146.93492712352295, Q Loss: 172543.6669921875, Actor Loss: -18960.702209472656  
Episode 5391: Time: 0.19455218315124512, Total Reward: 156.6660573876985, Q Loss: 204550.9921875, Actor Loss: -19432.74102783203  
Episode 5392: Time: 0.09754371643066406, Total Reward: 72.49536118826123, Q Loss: 110755.3330078125, Actor Loss: -10022.945068359375  
Episode 5393: Time: 0.6150267124176025, Total Reward: 518.8595059308224, Q Loss: 611009.3325195312, Actor Loss: -61601.56774902344  
Episode 5394: Time: 0.15142607688903809, Total Reward: 118.17566746654559, Q Loss: 175675.2255859375, Actor Loss: -14472.899230957031  
Episode 5395: Time: 0.0977175235748291, Total Reward: 72.45125584067361, Q Loss: 71842.54345703125, Actor Loss: -9531.763000488281  
Episode 5396: Time: 0.09742331504821777, Total Reward: 72.51837112485707, Q Loss: 93291.71044921875, Actor Loss: -9412.309326171875  
Episode 5397: Time: 0.1624290943145752, Total Reward: 129.11565004868973, Q Loss: 171873.18310546875, Actor Loss: -17027.03240966797  
Episode 5398: Time: 0.24904108047485352, Total Reward: 202.9359525095489, Q Loss: 284760.24609375, Actor Loss: -26181.736083984375  
Episode 5399: Time: 0.378159761428833, Total Reward: 314.4908853877356, Q Loss: 376986.703125, Actor Loss: -38108.83203125  
Validation Mean: 9354.715937901414, Validation Std: 0.4773924492351312  
saving model  
Episode 5400: Time: 0.20110321044921875, Total Reward: 156.04309540302702, Q Loss: 225107.28759765625, Actor Loss: -20178.934936523438  
Episode 5401: Time: 0.0777122974395752, Total Reward: 53.64055273376066, Q Loss: 110141.1484375, Actor Loss: -7926.0142822265625  
Episode 5402: Time: 0.29790806770324707, Total Reward: 239.6720915280058, Q Loss: 287027.9677734375, Actor Loss: -29333.308349609375  
Episode 5403: Time: 0.19838500022888184, Total Reward: 156.62353359006255, Q Loss: 300313.4541015625, Actor Loss: -20204.035095214844  
Episode 5404: Time: 0.22076082229614258, Total Reward: 175.05179144648605, Q Loss: 244522.2109375, Actor Loss: -22850.14483642578  
Episode 5405: Time: 0.3638303279876709, Total Reward: 296.29633099337207, Q Loss: 362519.041015625, Actor Loss: -37346.49530029297

Episode 5406: Time: 0.17624664306640625, Total Reward: 137.23225829785778, Q Loss: 201330.59936523438, Actor Loss: -17874.549194335938  
Episode 5407: Time: 0.2318577766418457, Total Reward: 183.64673535612744, Q Loss: 253591.16552734375, Actor Loss: -22282.289001464844  
Episode 5408: Time: 0.3537917137145996, Total Reward: 285.4779665204965, Q Loss: 354670.54931640625, Actor Loss: -36212.25500488281  
Episode 5409: Time: 0.5286266803741455, Total Reward: 434.93275463499424, Q Loss: 603012.9267578125, Actor Loss: -53835.41638183594  
Episode 5410: Time: 0.22115159034729004, Total Reward: 173.04786177419288, Q Loss: 177811.21801757812, Actor Loss: -22062.762634277344  
Episode 5411: Time: 0.5498471260070801, Total Reward: 454.887026173663, Q Loss: 551601.68359375, Actor Loss: -54233.072814941406  
Episode 5412: Time: 0.19870758056640625, Total Reward: 156.69766227512594, Q Loss: 285124.85009765625, Actor Loss: -19209.084411621094  
Episode 5413: Time: 0.16568827629089355, Total Reward: 128.65334232456857, Q Loss: 206990.19921875, Actor Loss: -16580.383544921875  
Episode 5414: Time: 0.19839978218078613, Total Reward: 155.57734059880312, Q Loss: 192525.9716796875, Actor Loss: -19699.018615722656  
Episode 5415: Time: 0.5728259086608887, Total Reward: 472.4392284661419, Q Loss: 552478.6298828125, Actor Loss: -57640.978271484375  
Episode 5416: Time: 0.2093796730041504, Total Reward: 165.9698098338998, Q Loss: 181792.28491210938, Actor Loss: -20604.244567871094  
Episode 5417: Time: 0.22053766250610352, Total Reward: 174.5815680978892, Q Loss: 189119.50708007812, Actor Loss: -22483.329956054688  
Episode 5418: Time: 0.40702152252197266, Total Reward: 333.0537548371641, Q Loss: 390284.20068359375, Actor Loss: -40916.024169921875  
Episode 5419: Time: 0.39683008193969727, Total Reward: 324.0223158291629, Q Loss: 434210.7666015625, Actor Loss: -40620.58935546875  
Episode 5420: Time: 0.26453709602355957, Total Reward: 212.26429744734895, Q Loss: 221804.06591796875, Actor Loss: -26871.72137451172  
Episode 5421: Time: 0.15403532981872559, Total Reward: 119.40547237129934, Q Loss: 157776.80712890625, Actor Loss: -15668.524719238281  
Episode 5422: Time: 0.4180436134338379, Total Reward: 340.5719545648958, Q Loss: 431452.8798828125, Actor Loss: -43620.86163330078  
Episode 5423: Time: 0.26510071754455566, Total Reward: 212.12212686319654, Q Loss: 286927.02392578125, Actor Loss: -27059.54620361328  
Episode 5424: Time: 0.47361207008361816, Total Reward: 388.5933440333081, Q Loss: 463945.1896972656, Actor Loss: -48676.55334472656  
Episode 5425: Time: 0.10012674331665039, Total Reward: 72.53363302958032, Q Loss: 85744.6875, Actor Loss: -10212.887817382812  
Episode 5426: Time: 0.34178709983825684, Total Reward: 277.13566264364755, Q Loss: 312224.5771484375, Actor Loss: -34843.033203125  
Episode 5427: Time: 0.2542572021484375, Total Reward: 202.9570960297465, Q Loss: 266944.8996582031, Actor Loss: -25851.578979492188  
Episode 5428: Time: 0.23157429695129395, Total Reward: 184.13936603498152, Q Loss: 190238.31884765625, Actor Loss: -23348.00128173828  
Episode 5429: Time: 0.18708562850952148, Total Reward: 147.48318629552125, Q Loss: 192144.55517578125, Actor Loss: -19205.63330078125  
Episode 5430: Time: 0.5284409523010254, Total Reward: 436.8567216723019, Q Loss: 521962.8581542969, Actor Loss: -55712.107177734375  
Episode 5431: Time: 0.2974843978881836, Total Reward: 239.89121606193564, Q Loss: 319913.2687988281, Actor Loss: -29033.412048339844  
Episode 5432: Time: 0.1432507038116455, Total Reward: 110.4352721572975, Q Loss: 169865.5869140625, Actor Loss: -14183.028869628906  
Episode 5433: Time: 0.24277043342590332, Total Reward: 193.47777243244155, Q Loss: 253350.96044921875, Actor Loss: -24940.96435546875

Episode 5434: Time: 0.7595419883728027, Total Reward: 631.2655524872746, Q Loss: 827108.5844726562, Actor Loss: -75555.42456054688  
Episode 5435: Time: 0.17641401290893555, Total Reward: 138.45334874811513, Q Loss: 140076.177734375, Actor Loss: -18086.290405273438  
Episode 5436: Time: 0.2207350730895996, Total Reward: 175.48603310049123, Q Loss: 250056.5693359375, Actor Loss: -22088.922302246094  
Episode 5437: Time: 0.35276103019714355, Total Reward: 286.96072451544217, Q Loss: 325840.41162109375, Actor Loss: -36533.22155761719  
Episode 5438: Time: 0.37468647956848145, Total Reward: 305.0592346527794, Q Loss: 375863.130859375, Actor Loss: -38068.18322753906  
Episode 5439: Time: 0.5849993228912354, Total Reward: 479.60739966759115, Q Loss: 602408.6281738281, Actor Loss: -60142.962158203125  
Episode 5440: Time: 0.13255572319030762, Total Reward: 100.65340963604147, Q Loss: 123605.43505859375, Actor Loss: -13322.267333984375  
Episode 5441: Time: 0.6164710521697998, Total Reward: 506.86309623750907, Q Loss: 641492.2661132812, Actor Loss: -62513.596130371094  
Episode 5442: Time: 0.3310384750366211, Total Reward: 266.0106209097255, Q Loss: 398183.5087890625, Actor Loss: -33342.55859375  
Episode 5443: Time: 0.2755160331726074, Total Reward: 222.12530128300392, Q Loss: 351424.33203125, Actor Loss: -28868.318237304688  
Episode 5444: Time: 0.14308643341064453, Total Reward: 109.73180078434852, Q Loss: 164230.60131835938, Actor Loss: -14629.671936035156  
Episode 5445: Time: 0.17689871788024902, Total Reward: 138.24700876977116, Q Loss: 180262.71264648438, Actor Loss: -17908.26806640625  
Episode 5446: Time: 0.25411105155944824, Total Reward: 200.31398972029973, Q Loss: 234070.0771484375, Actor Loss: -27108.780517578125  
Episode 5447: Time: 0.4961090087890625, Total Reward: 405.7299620978419, Q Loss: 507901.2431640625, Actor Loss: -51067.185546875  
Episode 5448: Time: 0.17641472816467285, Total Reward: 137.3061969317967, Q Loss: 179747.09130859375, Actor Loss: -17742.668518066406  
Episode 5449: Time: 0.2208857536315918, Total Reward: 175.34796900904118, Q Loss: 217554.24609375, Actor Loss: -22897.43768310547  
Episode 5450: Time: 0.37466859817504883, Total Reward: 304.546385296463, Q Loss: 339359.2155761719, Actor Loss: -38619.06481933594  
Episode 5451: Time: 0.5394456386566162, Total Reward: 445.33748588118834, Q Loss: 585991.634765625, Actor Loss: -55777.82928466797  
Episode 5452: Time: 0.39675283432006836, Total Reward: 323.53685959853954, Q Loss: 403142.06689453125, Actor Loss: -42727.49627685547  
Episode 5453: Time: 0.19826316833496094, Total Reward: 155.13094664971712, Q Loss: 219571.12158203125, Actor Loss: -20925.44024658203  
Episode 5454: Time: 0.5399963855743408, Total Reward: 444.52259122031603, Q Loss: 522979.1496582031, Actor Loss: -54740.476806640625  
Episode 5455: Time: 0.4194619655609131, Total Reward: 341.9255801674133, Q Loss: 489247.7795410156, Actor Loss: -42046.56213378906  
Episode 5456: Time: 0.27683496475219727, Total Reward: 221.9027342000691, Q Loss: 272334.5927734375, Actor Loss: -27977.495239257812  
Episode 5457: Time: 0.23297595977783203, Total Reward: 184.4151839676871, Q Loss: 265228.22705078125, Actor Loss: -24196.945556640625  
Episode 5458: Time: 0.319965124130249, Total Reward: 259.5714539677737, Q Loss: 334405.2353515625, Actor Loss: -33336.84100341797  
Episode 5459: Time: 0.298583984375, Total Reward: 240.67446966942683, Q Loss: 297840.02978515625, Actor Loss: -31061.585571289062  
Episode 5460: Time: 0.14358854293823242, Total Reward: 109.88173262779355, Q Loss: 209755.38159179688, Actor Loss: -15114.046508789062  
Episode 5461: Time: 0.27581071853637695, Total Reward: 219.63572799188236, Q Loss: 364082.078125, Actor Loss: -29097.846618652344

Episode 5462: Time: 0.15448641777038574, Total Reward: 119.05904946397978, Q Loss: 162002.56494140625, Actor Loss: -15973.078796386719  
Episode 5463: Time: 0.30891990661621094, Total Reward: 249.1474121743852, Q Loss: 383303.94189453125, Actor Loss: -31869.64373779297  
Episode 5464: Time: 0.14347577095031738, Total Reward: 110.31084700098243, Q Loss: 113303.76318359375, Actor Loss: -14724.708984375  
Episode 5465: Time: 0.14368438720703125, Total Reward: 108.90407388577447, Q Loss: 148625.70629882812, Actor Loss: -14586.755859375  
Episode 5466: Time: 0.22028851509094238, Total Reward: 174.82764257238043, Q Loss: 238739.49951171875, Actor Loss: -23234.290893554688  
Episode 5467: Time: 0.13220643997192383, Total Reward: 100.77898920948664, Q Loss: 146385.17626953125, Actor Loss: -14278.950805664062  
Episode 5468: Time: 0.7158801555633545, Total Reward: 592.8117977487482, Q Loss: 713124.31640625, Actor Loss: -74927.53784179688  
Episode 5469: Time: 0.15501880645751953, Total Reward: 117.50598258401214, Q Loss: 140761.69873046875, Actor Loss: -15931.080871582031  
Episode 5470: Time: 0.5401661396026611, Total Reward: 446.00329063152134, Q Loss: 578491.9985351562, Actor Loss: -56963.86804199219  
Episode 5471: Time: 0.3748500347137451, Total Reward: 305.2098891971234, Q Loss: 372701.44665527344, Actor Loss: -39023.896057128906  
Episode 5472: Time: 0.22105669975280762, Total Reward: 174.79714534383928, Q Loss: 242428.58740234375, Actor Loss: -23462.837890625  
Episode 5473: Time: 0.055342674255371094, Total Reward: 34.954070617201964, Q Loss: 46783.79638671875, Actor Loss: -5841.2376708984375  
Episode 5474: Time: 0.4084908962249756, Total Reward: 331.8349845023749, Q Loss: 401037.02734375, Actor Loss: -42253.414978027344  
Episode 5475: Time: 0.48571133613586426, Total Reward: 399.031725942066, Q Loss: 515161.81298828125, Actor Loss: -50231.472106933594  
Episode 5476: Time: 0.6621534824371338, Total Reward: 547.7543953649201, Q Loss: 719396.7055664062, Actor Loss: -69515.83599853516  
Episode 5477: Time: 0.8170912265777588, Total Reward: 677.7267993593413, Q Loss: 947308.5222167969, Actor Loss: -86710.11047363281  
Episode 5478: Time: 0.4203453063964844, Total Reward: 342.7799538321353, Q Loss: 504910.10400390625, Actor Loss: -45031.259033203125  
Episode 5479: Time: 0.3536112308502197, Total Reward: 285.28165901463854, Q Loss: 467790.79150390625, Actor Loss: -37304.2646484375  
Episode 5480: Time: 0.3095264434814453, Total Reward: 249.0864291792043, Q Loss: 354570.2080078125, Actor Loss: -32712.887084960938  
Episode 5481: Time: 0.2763407230377197, Total Reward: 219.3952688336457, Q Loss: 280366.1279296875, Actor Loss: -30111.839477539062  
Episode 5482: Time: 0.24314403533935547, Total Reward: 193.10319770269803, Q Loss: 303092.48779296875, Actor Loss: -25517.375427246094  
Episode 5483: Time: 0.23255157470703125, Total Reward: 181.7401582848222, Q Loss: 234158.04833984375, Actor Loss: -24323.20050048828  
Episode 5484: Time: 0.16562891006469727, Total Reward: 127.94717371911189, Q Loss: 223449.49072265625, Actor Loss: -17913.530151367188  
Episode 5485: Time: 0.5965840816497803, Total Reward: 491.49023274739625, Q Loss: 760266.2583007812, Actor Loss: -63910.57000732422  
Episode 5486: Time: 0.23235678672790527, Total Reward: 184.85223382279528, Q Loss: 258647.88720703125, Actor Loss: -24888.765991210938  
Episode 5487: Time: 0.22119998931884766, Total Reward: 175.92479974795185, Q Loss: 214044.60791015625, Actor Loss: -23448.642028808594  
Episode 5488: Time: 0.2103424072265625, Total Reward: 163.31418199343264, Q Loss: 219216.64892578125, Actor Loss: -21461.399047851562  
Episode 5489: Time: 0.5517387390136719, Total Reward: 455.1503888121473, Q Loss: 572200.2744140625, Actor Loss: -58613.29797363281

Episode 5490: Time: 0.23232746124267578, Total Reward: 182.1538562188637, Q Loss: 303781.787109375, Actor Loss: -24846.40496826172  
Episode 5491: Time: 0.23190808296203613, Total Reward: 183.66401537515992, Q Loss: 275323.7482910156, Actor Loss: -24598.841857910156  
Episode 5492: Time: 0.30851316452026367, Total Reward: 249.69897713555045, Q Loss: 324391.2216796875, Actor Loss: -33217.75927734375  
Episode 5493: Time: 0.08846759796142578, Total Reward: 62.76471704668428, Q Loss: 126252.78662109375, Actor Loss: -9184.705078125  
Episode 5494: Time: 0.6825082302093506, Total Reward: 566.366261189409, Q Loss: 744470.3852539062, Actor Loss: -71479.71508789062  
Episode 5495: Time: 0.26488518714904785, Total Reward: 212.43395752425175, Q Loss: 235935.86499023438, Actor Loss: -27889.52685546875  
Episode 5496: Time: 0.4076516628265381, Total Reward: 332.7885986707668, Q Loss: 387003.3532714844, Actor Loss: -42283.398010253906  
Episode 5497: Time: 0.27607226371765137, Total Reward: 222.22052624918916, Q Loss: 303789.30322265625, Actor Loss: -28736.190551757812  
Episode 5498: Time: 0.1650698184967041, Total Reward: 128.81068266800617, Q Loss: 222783.9951171875, Actor Loss: -18010.400817871094  
Episode 5499: Time: 0.4298970699310303, Total Reward: 351.34989298759865, Q Loss: 532513.8217773438, Actor Loss: -45646.48779296875  
Validation Mean: 9355.376854056769, Validation Std: 0.9270675136400902  
saving model  
Episode 5500: Time: 0.40920186042785645, Total Reward: 334.38867969797604, Q Loss: 578504.3491210938, Actor Loss: -43468.91387939453  
Episode 5501: Time: 0.2656519412994385, Total Reward: 212.24067799446445, Q Loss: 239995.69458007812, Actor Loss: -28042.71484375  
Episode 5502: Time: 0.4414994716644287, Total Reward: 361.7750136642075, Q Loss: 481293.955078125, Actor Loss: -46062.781188964844  
Episode 5503: Time: 0.24295687675476074, Total Reward: 194.07560336201243, Q Loss: 248965.37744140625, Actor Loss: -26183.704956054688  
Episode 5504: Time: 0.671438455581665, Total Reward: 556.1280758734242, Q Loss: 747301.0314941406, Actor Loss: -72822.2173461914  
Episode 5505: Time: 0.27604222297668457, Total Reward: 219.58349558384083, Q Loss: 359663.5517578125, Actor Loss: -29811.53692626953  
Episode 5506: Time: 0.6831996440887451, Total Reward: 563.972961889988, Q Loss: 662925.3862304688, Actor Loss: -73796.21325683594  
Episode 5507: Time: 0.4626338481903076, Total Reward: 380.3397334658806, Q Loss: 403069.21240234375, Actor Loss: -49303.556396484375  
Episode 5508: Time: 0.3525974750518799, Total Reward: 285.8061517800882, Q Loss: 345705.328125, Actor Loss: -38234.16619873047  
Episode 5509: Time: 0.1432201862335205, Total Reward: 110.3768672031344, Q Loss: 176501.77734375, Actor Loss: -16500.629028320312  
Episode 5510: Time: 0.4850127696990967, Total Reward: 397.45725864065844, Q Loss: 546365.4260253906, Actor Loss: -52641.977294921875  
Episode 5511: Time: 0.616485595703125, Total Reward: 509.95485656262434, Q Loss: 735109.9821777344, Actor Loss: -65470.65270996094  
Episode 5512: Time: 0.14357304573059082, Total Reward: 109.16922601449815, Q Loss: 158192.2919921875, Actor Loss: -15170.238525390625  
Episode 5513: Time: 0.12179350852966309, Total Reward: 91.6217444707944, Q Loss: 129760.86962890625, Actor Loss: -13292.47705078125  
Episode 5514: Time: 0.16538000106811523, Total Reward: 128.29381896602132, Q Loss: 150823.50341796875, Actor Loss: -17641.814331054688  
Episode 5515: Time: 0.18789911270141602, Total Reward: 146.30903145069004, Q Loss: 192644.35131835938, Actor Loss: -19715.491638183594  
Episode 5516: Time: 0.2209632396697998, Total Reward: 174.03397667617207, Q Loss: 263259.08642578125, Actor Loss: -23502.419372558594

Episode 5517: Time: 0.14337468147277832, Total Reward: 109.50707083337022, Q Loss: 159864.875, Actor Loss: -15475.205810546875  
Episode 5518: Time: 0.584028959274292, Total Reward: 480.80662651811065, Q Loss: 748381.4970703125, Actor Loss: -64832.272521972656  
Episode 5519: Time: 0.5943703651428223, Total Reward: 491.3139514025761, Q Loss: 641016.8518066406, Actor Loss: -64298.31396484375  
Episode 5520: Time: 0.2755141258239746, Total Reward: 221.5310914932448, Q Loss: 297638.3483886719, Actor Loss: -30333.941650390625  
Episode 5521: Time: 0.22112536430358887, Total Reward: 174.65754718931547, Q Loss: 246924.77783203125, Actor Loss: -23263.118591308594  
Episode 5522: Time: 0.6953396797180176, Total Reward: 575.5670256609803, Q Loss: 914091.4392089844, Actor Loss: -74239.95343017578  
Episode 5523: Time: 0.14384222030639648, Total Reward: 110.24788045910016, Q Loss: 190715.67993164062, Actor Loss: -16248.857055664062  
Episode 5524: Time: 0.12218189239501953, Total Reward: 90.96889171749385, Q Loss: 123054.3623046875, Actor Loss: -12578.544921875  
Episode 5525: Time: 0.15455174446105957, Total Reward: 119.2861059374659, Q Loss: 167295.79833984375, Actor Loss: -16311.638671875  
Episode 5526: Time: 0.0780649185180664, Total Reward: 53.93734725029003, Q Loss: 84836.17333984375, Actor Loss: -8587.506713867188  
Episode 5527: Time: 0.19835615158081055, Total Reward: 156.3738053800198, Q Loss: 272233.5263671875, Actor Loss: -22237.013671875  
Episode 5528: Time: 0.5727806091308594, Total Reward: 473.6352524582265, Q Loss: 657531.7314453125, Actor Loss: -62334.54431152344  
Episode 5529: Time: 0.09952425956726074, Total Reward: 72.98685696163689, Q Loss: 132422.47314453125, Actor Loss: -10065.704345703125  
Episode 5530: Time: 0.2649500370025635, Total Reward: 208.99182124812233, Q Loss: 321651.841796875, Actor Loss: -28942.29705810547  
Episode 5531: Time: 0.253645658493042, Total Reward: 202.5736904804788, Q Loss: 288750.8154296875, Actor Loss: -28047.636352539062  
Episode 5532: Time: 0.20969772338867188, Total Reward: 166.1519816270898, Q Loss: 206586.431640625, Actor Loss: -23085.581420898438  
Episode 5533: Time: 0.2974584102630615, Total Reward: 237.74882353305907, Q Loss: 346460.2106933594, Actor Loss: -32545.500366210938  
Episode 5534: Time: 0.5214323997497559, Total Reward: 435.6181316579574, Q Loss: 569081.1459960938, Actor Loss: -57571.90905761719  
Episode 5535: Time: 0.0756230354309082, Total Reward: 53.77602572273626, Q Loss: 100667.14453125, Actor Loss: -8448.814819335938  
Episode 5536: Time: 0.3443944454193115, Total Reward: 286.31065821048054, Q Loss: 389774.65478515625, Actor Loss: -39083.96545410156  
Episode 5537: Time: 0.46279191970825195, Total Reward: 388.24335229758447, Q Loss: 544845.7631835938, Actor Loss: -51792.42272949219  
Episode 5538: Time: 0.21629858016967773, Total Reward: 174.92659735090479, Q Loss: 231951.84130859375, Actor Loss: -24400.838989257812  
Episode 5539: Time: 0.21589279174804688, Total Reward: 175.69813354832618, Q Loss: 291967.14453125, Actor Loss: -24022.502990722656  
Episode 5540: Time: 0.2800312042236328, Total Reward: 231.23969310906108, Q Loss: 369977.45751953125, Actor Loss: -31090.27734375  
Episode 5541: Time: 0.32262396812438965, Total Reward: 268.2645020840868, Q Loss: 335979.6435546875, Actor Loss: -37117.8115234375  
Episode 5542: Time: 0.44190335273742676, Total Reward: 370.7478163054814, Q Loss: 625754.1733398438, Actor Loss: -48960.90802001953  
Episode 5543: Time: 0.39849066734313965, Total Reward: 332.51910356816734, Q Loss: 509290.25, Actor Loss: -45466.8125  
Episode 5544: Time: 0.34509944915771484, Total Reward: 285.9009401865968, Q Loss: 484373.3916015625, Actor Loss: -39283.328857421875



Episode 5545: Time: 0.24795103073120117, Total Reward: 200.3495897499596, Q Loss: 283008.953125, Actor Loss: -28730.108764648438  
Episode 5546: Time: 0.4089012145996094, Total Reward: 341.725881715181, Q Loss: 470320.4064941406, Actor Loss: -45919.82556152344  
Episode 5547: Time: 0.3657824993133545, Total Reward: 305.91889995423355, Q Loss: 503900.2109375, Actor Loss: -40886.03350830078  
Episode 5548: Time: 0.11853814125061035, Total Reward: 91.36777221260837, Q Loss: 164486.82470703125, Actor Loss: -13069.050231933594  
Episode 5549: Time: 0.3661081790924072, Total Reward: 305.9739651813343, Q Loss: 507304.62890625, Actor Loss: -41064.81494140625  
Episode 5550: Time: 0.3447144031524658, Total Reward: 286.6799218534774, Q Loss: 412999.896484375, Actor Loss: -38849.71765136719  
Episode 5551: Time: 0.25856947898864746, Total Reward: 211.12991500054036, Q Loss: 362967.716796875, Actor Loss: -28642.47869873047  
Episode 5552: Time: 0.22620129585266113, Total Reward: 183.91099890526374, Q Loss: 237010.89501953125, Actor Loss: -24973.998779296875  
Episode 5553: Time: 0.32383108139038086, Total Reward: 267.1641640388062, Q Loss: 457159.11279296875, Actor Loss: -36782.646728515625  
Episode 5554: Time: 0.1618516445159912, Total Reward: 128.45657197775154, Q Loss: 199866.91064453125, Actor Loss: -18701.330810546875  
Episode 5555: Time: 0.20524024963378906, Total Reward: 165.4913288588061, Q Loss: 335743.3974609375, Actor Loss: -23668.367065429688  
Episode 5556: Time: 0.17292094230651855, Total Reward: 137.9635816440299, Q Loss: 246218.53564453125, Actor Loss: -20631.734008789062  
Episode 5557: Time: 0.19405102729797363, Total Reward: 153.47249858934492, Q Loss: 234761.3154296875, Actor Loss: -21889.05078125  
Episode 5558: Time: 0.17205524444580078, Total Reward: 137.40855074563316, Q Loss: 242102.7197265625, Actor Loss: -19726.812622070312  
Episode 5559: Time: 0.355241060256958, Total Reward: 296.0564593338112, Q Loss: 358278.73779296875, Actor Loss: -40180.307373046875  
Episode 5560: Time: 0.11874032020568848, Total Reward: 90.7937306063547, Q Loss: 149902.81689453125, Actor Loss: -13450.311645507812  
Episode 5561: Time: 0.2583475112915039, Total Reward: 211.74569245207286, Q Loss: 327091.02099609375, Actor Loss: -29454.194885253906  
Episode 5562: Time: 0.31188368797302246, Total Reward: 257.2645794392614, Q Loss: 430790.98095703125, Actor Loss: -36641.22253417969  
Episode 5563: Time: 0.23692059516906738, Total Reward: 190.9976060217589, Q Loss: 316404.65966796875, Actor Loss: -26703.03973388672  
Episode 5564: Time: 0.5379543304443359, Total Reward: 454.1005017389875, Q Loss: 692471.0690917969, Actor Loss: -59460.323303222656  
Episode 5565: Time: 0.8594217300415039, Total Reward: 734.0642345483274, Q Loss: 1091926.6291503906, Actor Loss: -98362.76959228516  
Episode 5566: Time: 0.21510934829711914, Total Reward: 174.6380381240127, Q Loss: 257883.96142578125, Actor Loss: -23223.029296875  
Episode 5567: Time: 0.25838565826416016, Total Reward: 209.67622957387874, Q Loss: 321188.6494140625, Actor Loss: -29920.647583007812  
Episode 5568: Time: 0.25864434242248535, Total Reward: 212.87897896332112, Q Loss: 380420.50732421875, Actor Loss: -29681.6796875  
Episode 5569: Time: 0.4302945137023926, Total Reward: 361.23657201088866, Q Loss: 507135.13134765625, Actor Loss: -48916.314514160156  
Episode 5570: Time: 0.40853404998779297, Total Reward: 340.6929759799695, Q Loss: 447153.91455078125, Actor Loss: -47283.47521972656  
Episode 5571: Time: 0.6236848831176758, Total Reward: 529.6831928637818, Q Loss: 804023.3427734375, Actor Loss: -72497.0394897461  
Episode 5572: Time: 0.18272686004638672, Total Reward: 146.8043388671274, Q Loss: 235949.17138671875, Actor Loss: -21493.212036132812

Episode 5573: Time: 0.30094194412231445, Total Reward: 248.0529065450079, Q Loss: 475786.8623046875, Actor Loss: -34141.255859375  
Episode 5574: Time: 0.46186113357543945, Total Reward: 389.33342609478143, Q Loss: 617917.908203125, Actor Loss: -53895.54919433594  
Episode 5575: Time: 0.2902491092681885, Total Reward: 238.62549102691383, Q Loss: 416897.60888671875, Actor Loss: -32921.58465576172  
Episode 5576: Time: 0.16138815879821777, Total Reward: 128.45455153366305, Q Loss: 218361.17724609375, Actor Loss: -19379.206909179688  
Episode 5577: Time: 0.23723912239074707, Total Reward: 192.90824141126947, Q Loss: 308273.4267578125, Actor Loss: -27219.8818359375  
Episode 5578: Time: 0.16183972358703613, Total Reward: 128.10842030587673, Q Loss: 223262.69091796875, Actor Loss: -18886.798095703125  
Episode 5579: Time: 0.3443434238433838, Total Reward: 285.10665352985177, Q Loss: 467334.7858886719, Actor Loss: -39650.21667480469  
Episode 5580: Time: 0.19329071044921875, Total Reward: 154.48057534223267, Q Loss: 262318.50927734375, Actor Loss: -22533.710205078125  
Episode 5581: Time: 0.2797844409942627, Total Reward: 231.35523897782187, Q Loss: 337512.0966796875, Actor Loss: -32278.954345703125  
Episode 5582: Time: 0.16133594512939453, Total Reward: 129.07347831617034, Q Loss: 250156.2509765625, Actor Loss: -18797.3310546875  
Episode 5583: Time: 0.5048184394836426, Total Reward: 425.73383433154765, Q Loss: 651155.11328125, Actor Loss: -60295.67370605469  
Episode 5584: Time: 0.3232851028442383, Total Reward: 265.02260666328795, Q Loss: 438323.44091796875, Actor Loss: -37410.09069824219  
Episode 5585: Time: 0.31247377395629883, Total Reward: 258.79031857371143, Q Loss: 415873.72998046875, Actor Loss: -35334.03192138672  
Episode 5586: Time: 0.10762310028076172, Total Reward: 81.66144979335162, Q Loss: 116900.0673828125, Actor Loss: -12472.91943359375  
Episode 5587: Time: 0.775233268737793, Total Reward: 657.8676913161312, Q Loss: 1080025.0827636719, Actor Loss: -88363.8383178711  
Episode 5588: Time: 0.398726224899292, Total Reward: 331.90756970743814, Q Loss: 530947.4135742188, Actor Loss: -46770.89697265625  
Episode 5589: Time: 0.3119626045227051, Total Reward: 259.07278040166614, Q Loss: 415376.16845703125, Actor Loss: -36085.82263183594  
Episode 5590: Time: 0.2694435119628906, Total Reward: 222.21175994218262, Q Loss: 323033.20849609375, Actor Loss: -31517.597412109375  
Episode 5591: Time: 0.3654956817626953, Total Reward: 302.9579363692418, Q Loss: 465079.923828125, Actor Loss: -42894.00537109375  
Episode 5592: Time: 0.1398484706878662, Total Reward: 110.01088665940831, Q Loss: 155157.47998046875, Actor Loss: -16619.862915039062  
Episode 5593: Time: 0.3124065399169922, Total Reward: 257.56153547796055, Q Loss: 424392.50634765625, Actor Loss: -36322.8798828125  
Episode 5594: Time: 0.6976401805877686, Total Reward: 593.7550445064995, Q Loss: 854740.5224609375, Actor Loss: -81753.13671875  
Episode 5595: Time: 0.2903614044189453, Total Reward: 239.21437640311746, Q Loss: 413893.68017578125, Actor Loss: -33766.3486328125  
Episode 5596: Time: 0.11849713325500488, Total Reward: 91.12567579961113, Q Loss: 165357.25146484375, Actor Loss: -13634.147705078125  
Episode 5597: Time: 0.14026141166687012, Total Reward: 110.22769523980939, Q Loss: 177252.41748046875, Actor Loss: -16388.691528320312  
Episode 5598: Time: 0.25785183906555176, Total Reward: 211.89210769171277, Q Loss: 313560.89013671875, Actor Loss: -29580.971801757812  
Episode 5599: Time: 0.4187905788421631, Total Reward: 351.6542641623753, Q Loss: 566681.8842773438, Actor Loss: -47821.274353027344  
Validation Mean: 9355.137338843817, Validation Std: 0.5773592966274591  
saving model

Episode 5600: Time: 0.30335330963134766, Total Reward: 250.21465874943613, Q Loss: 338906.41552734375, Actor Loss: -34084.697021484375  
Episode 5601: Time: 0.301241397857666, Total Reward: 249.29791926503808, Q Loss: 358488.28271484375, Actor Loss: -35031.03503417969  
Episode 5602: Time: 0.12915730476379395, Total Reward: 100.57373447251564, Q Loss: 178890.6787109375, Actor Loss: -15132.862182617188  
Episode 5603: Time: 0.19419026374816895, Total Reward: 155.94190081447312, Q Loss: 263597.21826171875, Actor Loss: -22393.581298828125  
Episode 5604: Time: 0.20508646965026855, Total Reward: 166.15178306937975, Q Loss: 335391.59033203125, Actor Loss: -24923.611572265625  
Episode 5605: Time: 0.2153761386871338, Total Reward: 174.89901041707597, Q Loss: 280818.787109375, Actor Loss: -25032.465881347656  
Episode 5606: Time: 0.763582706451416, Total Reward: 649.0063090356707, Q Loss: 1109627.1293945312, Actor Loss: -89907.59533691406  
Episode 5607: Time: 1.0003104209899902, Total Reward: 854.3593416029223, Q Loss: 1404141.685546875, Actor Loss: -114058.27087402344  
Episode 5608: Time: 0.2265932559967041, Total Reward: 183.55135558729162, Q Loss: 315122.837890625, Actor Loss: -27013.1728515625  
Episode 5609: Time: 0.6568620204925537, Total Reward: 554.5525655487836, Q Loss: 1016402.6479492188, Actor Loss: -76848.7123413086  
Episode 5610: Time: 0.21609234809875488, Total Reward: 175.45263147049863, Q Loss: 269258.57958984375, Actor Loss: -25238.614868164062  
Episode 5611: Time: 0.34474849700927734, Total Reward: 287.5182389117836, Q Loss: 505123.59130859375, Actor Loss: -40398.25109863281  
Episode 5612: Time: 0.2590670585632324, Total Reward: 212.49541287312235, Q Loss: 329244.6516113281, Actor Loss: -30136.759826660156  
Episode 5613: Time: 0.2266991138458252, Total Reward: 184.26177399504093, Q Loss: 266293.49658203125, Actor Loss: -25425.039978027344  
Episode 5614: Time: 0.8714230060577393, Total Reward: 742.0980873405751, Q Loss: 1122158.3830566406, Actor Loss: -101862.83215332031  
Episode 5615: Time: 0.537708044052124, Total Reward: 453.36726300881804, Q Loss: 636560.7275390625, Actor Loss: -62849.93359375  
Episode 5616: Time: 0.612699031829834, Total Reward: 518.2469791174931, Q Loss: 880156.3095703125, Actor Loss: -71502.46508789062  
Episode 5617: Time: 0.17209577560424805, Total Reward: 136.44096849239634, Q Loss: 260188.44018554688, Actor Loss: -19669.676208496094  
Episode 5618: Time: 0.08676600456237793, Total Reward: 63.10313941641183, Q Loss: 117762.1396484375, Actor Loss: -10571.206420898438  
Episode 5619: Time: 0.1292567253112793, Total Reward: 100.80306402123678, Q Loss: 178521.4853515625, Actor Loss: -15373.65576171875  
Episode 5620: Time: 0.2270336151123047, Total Reward: 184.5789844487633, Q Loss: 305220.8544921875, Actor Loss: -27475.61767578125  
Episode 5621: Time: 0.25962400436401367, Total Reward: 211.87194194565652, Q Loss: 376193.4033203125, Actor Loss: -31088.399780273438  
Episode 5622: Time: 0.2159581184387207, Total Reward: 175.28133358061885, Q Loss: 216652.08203125, Actor Loss: -24587.014221191406  
Episode 5623: Time: 0.41976165771484375, Total Reward: 352.0094999970042, Q Loss: 677365.8969726562, Actor Loss: -49225.39208984375  
Episode 5624: Time: 0.18317580223083496, Total Reward: 146.73003683594612, Q Loss: 274958.16650390625, Actor Loss: -21034.846313476562  
Episode 5625: Time: 0.7746217250823975, Total Reward: 660.3614278334533, Q Loss: 1116761.6245117188, Actor Loss: -92071.28576660156  
Episode 5626: Time: 0.5699863433837891, Total Reward: 482.6097384365758, Q Loss: 747998.2897949219, Actor Loss: -67503.77209472656  
Episode 5627: Time: 0.5052230358123779, Total Reward: 425.109437063088, Q Loss: 656845.2153320312, Actor Loss: -60296.88513183594

Episode 5628: Time: 0.2265634536743164, Total Reward: 184.59363927046203, Q Loss: 347971.513671875, Actor Loss: -27300.609741210938  
Episode 5629: Time: 0.14017677307128906, Total Reward: 110.0468562582724, Q Loss: 200435.037109375, Actor Loss: -16469.419189453125  
Episode 5630: Time: 0.40860772132873535, Total Reward: 339.0953913495617, Q Loss: 621163.2758789062, Actor Loss: -49449.514404296875  
Episode 5631: Time: 0.19365143775939941, Total Reward: 156.78832369304095, Q Loss: 298442.2666015625, Actor Loss: -23215.81591796875  
Episode 5632: Time: 0.6557414531707764, Total Reward: 557.0795618655183, Q Loss: 1044623.482421875, Actor Loss: -78566.27313232422  
Episode 5633: Time: 0.22663593292236328, Total Reward: 184.65475157448267, Q Loss: 304083.2138671875, Actor Loss: -27407.74462890625  
Episode 5634: Time: 0.11878275871276855, Total Reward: 91.14978101072673, Q Loss: 162294.96875, Actor Loss: -13804.65771484375  
Episode 5635: Time: 0.10808634757995605, Total Reward: 82.26124012183767, Q Loss: 168364.14453125, Actor Loss: -12529.813842773438  
Episode 5636: Time: 0.23783349990844727, Total Reward: 192.10585636636475, Q Loss: 347752.2722167969, Actor Loss: -28109.113037109375  
Episode 5637: Time: 0.3452115058898926, Total Reward: 286.23480596581845, Q Loss: 439716.208984375, Actor Loss: -41929.0517578125  
Episode 5638: Time: 0.20523715019226074, Total Reward: 165.58922231461682, Q Loss: 306201.74609375, Actor Loss: -24777.765869140625  
Episode 5639: Time: 0.29129791259765625, Total Reward: 239.2471802907601, Q Loss: 399704.33203125, Actor Loss: -34659.59814453125  
Episode 5640: Time: 0.40934181213378906, Total Reward: 340.5312047042479, Q Loss: 626679.3784179688, Actor Loss: -48802.650146484375  
Episode 5641: Time: 0.21591973304748535, Total Reward: 175.5648645103992, Q Loss: 279966.892578125, Actor Loss: -26688.231201171875  
Episode 5642: Time: 0.10808777809143066, Total Reward: 82.0574265134612, Q Loss: 141031.72143554688, Actor Loss: -12367.030517578125  
Episode 5643: Time: 0.24836969375610352, Total Reward: 203.2794015454662, Q Loss: 345600.009765625, Actor Loss: -29435.390380859375  
Episode 5644: Time: 0.17287564277648926, Total Reward: 137.2311456590218, Q Loss: 218914.46484375, Actor Loss: -20251.416625976562  
Episode 5645: Time: 0.387941837310791, Total Reward: 324.54315956525716, Q Loss: 619388.5888671875, Actor Loss: -47563.52624511719  
Episode 5646: Time: 0.17262744903564453, Total Reward: 137.35320728947667, Q Loss: 198234.9033203125, Actor Loss: -20609.805053710938  
Episode 5647: Time: 0.0869603157043457, Total Reward: 63.76939698469123, Q Loss: 103203.1435546875, Actor Loss: -10935.241821289062  
Episode 5648: Time: 0.4204542636871338, Total Reward: 351.7542563692005, Q Loss: 596330.2446289062, Actor Loss: -49793.112548828125  
Episode 5649: Time: 0.22662949562072754, Total Reward: 184.3921043246879, Q Loss: 365290.0498046875, Actor Loss: -26625.99298095703  
Episode 5650: Time: 0.30220746994018555, Total Reward: 248.44157596726853, Q Loss: 389863.2978515625, Actor Loss: -36162.62316894531  
Episode 5651: Time: 0.28107118606567383, Total Reward: 228.7327686772796, Q Loss: 407005.1845703125, Actor Loss: -34424.540283203125  
Episode 5652: Time: 0.34571337699890137, Total Reward: 286.5256934654223, Q Loss: 514506.20263671875, Actor Loss: -42508.03234863281  
Episode 5653: Time: 0.3885059356689453, Total Reward: 323.8622840529961, Q Loss: 581556.1201171875, Actor Loss: -47942.61950683594  
Episode 5654: Time: 0.45398426055908203, Total Reward: 379.2443103748602, Q Loss: 642108.8959960938, Actor Loss: -52969.32049560547  
Episode 5655: Time: 0.16193222999572754, Total Reward: 128.53072150726348, Q Loss: 173449.52197265625, Actor Loss: -20111.434326171875

Episode 5656: Time: 0.35587120056152344, Total Reward: 293.8670851893945, Q Loss: 526941.7739257812, Actor Loss: -42522.28259277344  
Episode 5657: Time: 0.4962882995605469, Total Reward: 415.9373685244996, Q Loss: 732767.29296875, Actor Loss: -59512.41711425781  
Episode 5658: Time: 0.31337976455688477, Total Reward: 258.4267589429594, Q Loss: 420686.50146484375, Actor Loss: -37646.1064453125  
Episode 5659: Time: 0.2696363925933838, Total Reward: 221.06438984764128, Q Loss: 449745.37060546875, Actor Loss: -32102.842529296875  
Episode 5660: Time: 0.2912259101867676, Total Reward: 238.51847550851474, Q Loss: 365522.7014160156, Actor Loss: -35953.396484375  
Episode 5661: Time: 0.39874696731567383, Total Reward: 333.44518968510323, Q Loss: 635983.4921875, Actor Loss: -47876.9140625  
Episode 5662: Time: 0.17262649536132812, Total Reward: 137.42588169574086, Q Loss: 297569.61767578125, Actor Loss: -20925.637573242188  
Episode 5663: Time: 0.1084585189819336, Total Reward: 81.74476623050714, Q Loss: 190929.111328125, Actor Loss: -13421.066284179688  
Episode 5664: Time: 0.6141955852508545, Total Reward: 518.644684593874, Q Loss: 988945.4672851562, Actor Loss: -74300.47064208984  
Episode 5665: Time: 0.08679342269897461, Total Reward: 63.396053944530045, Q Loss: 124767.90234375, Actor Loss: -9833.1953125  
Episode 5666: Time: 0.34505224227905273, Total Reward: 286.0528594463142, Q Loss: 476093.00390625, Actor Loss: -43167.13098144531  
Episode 5667: Time: 0.4536933898925781, Total Reward: 379.17059594758746, Q Loss: 567540.0610351562, Actor Loss: -54829.01416015625  
Episode 5668: Time: 0.22668957710266113, Total Reward: 184.20687333136405, Q Loss: 251647.05126953125, Actor Loss: -28263.902221679688  
Episode 5669: Time: 0.5172884464263916, Total Reward: 435.90676600378197, Q Loss: 698041.0146484375, Actor Loss: -61609.459228515625  
Episode 5670: Time: 0.2918388843536377, Total Reward: 240.34885778495058, Q Loss: 442717.79248046875, Actor Loss: -34877.99987792969  
Episode 5671: Time: 0.29131102561950684, Total Reward: 240.69955000239295, Q Loss: 362251.07666015625, Actor Loss: -35754.482666015625  
Episode 5672: Time: 0.592198371887207, Total Reward: 499.50904418677925, Q Loss: 856863.3969726562, Actor Loss: -73234.6884765625  
Episode 5673: Time: 0.12952423095703125, Total Reward: 101.14293123917065, Q Loss: 208791.1240234375, Actor Loss: -15555.00341796875  
Episode 5674: Time: 0.28093695640563965, Total Reward: 229.15278169719787, Q Loss: 439802.0234375, Actor Loss: -34613.95397949219  
Episode 5675: Time: 0.1617586612701416, Total Reward: 128.34111782774647, Q Loss: 216915.2587890625, Actor Loss: -19068.947265625  
Episode 5676: Time: 0.0976250171661377, Total Reward: 72.16400444335875, Q Loss: 166589.27197265625, Actor Loss: -12085.606079101562  
Episode 5677: Time: 0.30210256576538086, Total Reward: 249.5341506700451, Q Loss: 416165.89111328125, Actor Loss: -36100.35632324219  
Episode 5678: Time: 0.23794150352478027, Total Reward: 193.060166402469, Q Loss: 366180.0661621094, Actor Loss: -29367.024780273438  
Episode 5679: Time: 0.2055802345275879, Total Reward: 163.3931924966146, Q Loss: 277451.5812988281, Actor Loss: -25045.629150390625  
Episode 5680: Time: 0.12940144538879395, Total Reward: 100.45258775960087, Q Loss: 160992.3681640625, Actor Loss: -16082.963256835938  
Episode 5681: Time: 0.19452619552612305, Total Reward: 156.2108600741993, Q Loss: 300597.09814453125, Actor Loss: -22865.0595703125  
Episode 5682: Time: 0.4851970672607422, Total Reward: 408.7906751137314, Q Loss: 821212.6669921875, Actor Loss: -58570.96105957031  
Episode 5683: Time: 0.1727128028869629, Total Reward: 137.21255850881644, Q Loss: 221381.89306640625, Actor Loss: -19887.26983642578

Episode 5684: Time: 0.31304430961608887, Total Reward: 257.7410864583777, Q Loss: 539923.5297851562, Actor Loss: -37395.2333984375  
Episode 5685: Time: 0.23792052268981934, Total Reward: 191.24941043078474, Q Loss: 383656.1064453125, Actor Loss: -28605.073486328125  
Episode 5686: Time: 0.259052038192749, Total Reward: 212.18149731794927, Q Loss: 414153.00732421875, Actor Loss: -31605.310302734375  
Episode 5687: Time: 0.18335533142089844, Total Reward: 145.75082869871432, Q Loss: 319579.0625, Actor Loss: -22617.333862304688  
Episode 5688: Time: 0.24819159507751465, Total Reward: 202.92818935111168, Q Loss: 442234.76171875, Actor Loss: -30277.028930664062  
Episode 5689: Time: 0.09723973274230957, Total Reward: 72.19774098430217, Q Loss: 153802.13916015625, Actor Loss: -12325.549682617188  
Episode 5690: Time: 0.34561824798583984, Total Reward: 285.5080009862202, Q Loss: 509268.14111328125, Actor Loss: -41740.085388183594  
Episode 5691: Time: 0.3877096176147461, Total Reward: 322.75722011780556, Q Loss: 645872.4853515625, Actor Loss: -49403.95739746094  
Episode 5692: Time: 0.7322089672088623, Total Reward: 623.4583109138828, Q Loss: 1098933.6064453125, Actor Loss: -89231.904296875  
Episode 5693: Time: 0.14035367965698242, Total Reward: 109.73554011760942, Q Loss: 223908.01416015625, Actor Loss: -17040.381591796875  
Episode 5694: Time: 0.29117727279663086, Total Reward: 237.24674641150355, Q Loss: 432820.443359375, Actor Loss: -36532.488037109375  
Episode 5695: Time: 0.323223352432251, Total Reward: 268.2952452393504, Q Loss: 563707.296875, Actor Loss: -40640.10974121094  
Episode 5696: Time: 0.6027092933654785, Total Reward: 511.1737009282312, Q Loss: 905117.8549804688, Actor Loss: -74422.99328613281  
Episode 5697: Time: 0.334104061126709, Total Reward: 277.39655472164236, Q Loss: 435401.1943359375, Actor Loss: -40492.561279296875  
Episode 5698: Time: 0.4196290969848633, Total Reward: 352.06207893560514, Q Loss: 675903.1135253906, Actor Loss: -51835.61535644531  
Episode 5699: Time: 0.1293950080871582, Total Reward: 100.95016342556136, Q Loss: 179023.0205078125, Actor Loss: -15587.857543945312  
Validation Mean: 9355.167536461315, Validation Std: 0.5675391908221183  
saving model  
Episode 5700: Time: 0.33652663230895996, Total Reward: 277.01569522558583, Q Loss: 466253.2687988281, Actor Loss: -40012.08581542969  
Episode 5701: Time: 0.5712621212005615, Total Reward: 482.49558011528245, Q Loss: 925406.4130859375, Actor Loss: -71627.77722167969  
Episode 5702: Time: 0.2482297420501709, Total Reward: 202.36552672453016, Q Loss: 282235.6982421875, Actor Loss: -31136.421020507812  
Episode 5703: Time: 0.2268204689025879, Total Reward: 183.48490011394279, Q Loss: 348453.177734375, Actor Loss: -28387.410522460938  
Episode 5704: Time: 0.8932709693908691, Total Reward: 759.4603951666612, Q Loss: 1294134.1027832031, Actor Loss: -111580.55334472656  
Episode 5705: Time: 1.0120270252227783, Total Reward: 864.3542629800609, Q Loss: 1541218.5632324219, Actor Loss: -126422.2056274414  
Episode 5706: Time: 0.18320250511169434, Total Reward: 147.42823628476904, Q Loss: 256552.97509765625, Actor Loss: -22042.282836914062  
Episode 5707: Time: 0.40925145149230957, Total Reward: 342.62852851099717, Q Loss: 575032.2099609375, Actor Loss: -50657.4052734375  
Episode 5708: Time: 0.24792170524597168, Total Reward: 202.4232459427678, Q Loss: 402696.44921875, Actor Loss: -32033.023315429688  
Episode 5709: Time: 0.281313419342041, Total Reward: 230.94140373986815, Q Loss: 501473.7705078125, Actor Loss: -35742.578857421875  
Episode 5710: Time: 0.5276200771331787, Total Reward: 443.3371379514093, Q Loss: 795774.166015625, Actor Loss: -66170.96398925781

Episode 5711: Time: 0.16202306747436523, Total Reward: 126.66272790912436, Q Loss: 239452.40673828125, Actor Loss: -20144.243041992188  
Episode 5712: Time: 0.5500857830047607, Total Reward: 460.48698294449036, Q Loss: 857518.63671875, Actor Loss: -67978.58526611328  
Episode 5713: Time: 0.23740506172180176, Total Reward: 193.68514016975033, Q Loss: 361207.435546875, Actor Loss: -29695.239868164062  
Episode 5714: Time: 0.20548629760742188, Total Reward: 165.80346599917203, Q Loss: 313698.91357421875, Actor Loss: -25610.330932617188  
Episode 5715: Time: 0.23816704750061035, Total Reward: 192.43366935586647, Q Loss: 364458.8359375, Actor Loss: -29656.639892578125  
Episode 5716: Time: 0.17279791831970215, Total Reward: 138.0666015524722, Q Loss: 319402.68408203125, Actor Loss: -21420.2119140625  
Episode 5717: Time: 0.17337632179260254, Total Reward: 138.10233370524338, Q Loss: 275295.49072265625, Actor Loss: -21915.235229492188  
Episode 5718: Time: 0.33528757095336914, Total Reward: 276.22484873090616, Q Loss: 573100.8754882812, Actor Loss: -41591.86193847656  
Episode 5719: Time: 0.23793363571166992, Total Reward: 193.03726103116668, Q Loss: 310984.634765625, Actor Loss: -30817.418579101562  
Episode 5720: Time: 0.23796820640563965, Total Reward: 193.11192279822671, Q Loss: 284887.67626953125, Actor Loss: -29539.40673828125  
Episode 5721: Time: 0.29261064529418945, Total Reward: 238.4468506157459, Q Loss: 451513.07470703125, Actor Loss: -36865.30419921875  
Episode 5722: Time: 0.22775840759277344, Total Reward: 183.83350692807568, Q Loss: 374372.3505859375, Actor Loss: -29390.512817382812  
Episode 5723: Time: 0.14136505126953125, Total Reward: 109.62070681571389, Q Loss: 248194.73876953125, Actor Loss: -17574.749877929688  
Episode 5724: Time: 0.19539618492126465, Total Reward: 156.66831793612218, Q Loss: 320609.90625, Actor Loss: -24172.680419921875  
Episode 5725: Time: 0.23785901069641113, Total Reward: 194.495198742546, Q Loss: 409752.515625, Actor Loss: -29826.931030273438  
Episode 5726: Time: 0.3880753517150879, Total Reward: 322.81735682884414, Q Loss: 604312.462890625, Actor Loss: -48312.19641113281  
Episode 5727: Time: 0.5064125061035156, Total Reward: 426.12046067702454, Q Loss: 875931.7983398438, Actor Loss: -62473.727294921875  
Episode 5728: Time: 0.5392677783966064, Total Reward: 454.31887011328865, Q Loss: 836494.5415039062, Actor Loss: -67468.73181152344  
Episode 5729: Time: 0.25930261611938477, Total Reward: 211.88263558763776, Q Loss: 375849.84912109375, Actor Loss: -32932.60119628906  
Episode 5730: Time: 0.6246826648712158, Total Reward: 527.0504148591536, Q Loss: 769493.212890625, Actor Loss: -79379.23315429688  
Episode 5731: Time: 0.34497714042663574, Total Reward: 285.73947275599255, Q Loss: 685067.8071289062, Actor Loss: -44602.360107421875  
Episode 5732: Time: 0.2267906665802002, Total Reward: 184.12643697664546, Q Loss: 376601.115234375, Actor Loss: -28831.426025390625  
Episode 5733: Time: 0.19424080848693848, Total Reward: 155.54131417036558, Q Loss: 278177.31005859375, Actor Loss: -24102.055786132812  
Episode 5734: Time: 0.35570764541625977, Total Reward: 297.01125724068623, Q Loss: 592025.3071289062, Actor Loss: -45574.39990234375  
Episode 5735: Time: 0.3022801876068115, Total Reward: 250.13197654326171, Q Loss: 564033.1149902344, Actor Loss: -38397.244873046875  
Episode 5736: Time: 0.24816608428955078, Total Reward: 202.57508992357955, Q Loss: 435996.224609375, Actor Loss: -31755.668090820312  
Episode 5737: Time: 0.2806708812713623, Total Reward: 231.3601876344125, Q Loss: 488061.08251953125, Actor Loss: -35150.593017578125  
Episode 5738: Time: 0.3561520576477051, Total Reward: 296.1470035608453, Q Loss: 483489.17626953125, Actor Loss: -45495.30725097656

Episode 5739: Time: 0.4853637218475342, Total Reward: 407.35357109930067, Q Loss: 733768.7563476562, Actor Loss: -62017.48010253906  
Episode 5740: Time: 0.5931928157806396, Total Reward: 501.05883739406937, Q Loss: 915007.8549804688, Actor Loss: -76538.62377929688  
Episode 5741: Time: 0.20594382286071777, Total Reward: 164.92956672306778, Q Loss: 272864.69482421875, Actor Loss: -26434.126342773438  
Episode 5742: Time: 0.5184311866760254, Total Reward: 435.56101280342193, Q Loss: 812034.3530273438, Actor Loss: -66663.04577636719  
Episode 5743: Time: 0.30551815032958984, Total Reward: 249.69820552053443, Q Loss: 498081.984375, Actor Loss: -39181.98547363281  
Episode 5744: Time: 0.6658616065979004, Total Reward: 548.251251695226, Q Loss: 990560.3505859375, Actor Loss: -82196.09533691406  
Episode 5745: Time: 0.42346739768981934, Total Reward: 340.47772238462585, Q Loss: 631562.951171875, Actor Loss: -52622.095703125  
Episode 5746: Time: 0.3676340579986572, Total Reward: 296.2220354746972, Q Loss: 520355.2958984375, Actor Loss: -45131.505615234375  
Episode 5747: Time: 0.5991156101226807, Total Reward: 501.5734090766569, Q Loss: 1023716.3232421875, Actor Loss: -76136.30981445312  
Episode 5748: Time: 0.1408231258392334, Total Reward: 110.18536699210988, Q Loss: 348569.91650390625, Actor Loss: -17776.409057617188  
Episode 5749: Time: 0.572983980178833, Total Reward: 481.489109388659, Q Loss: 929918.0053710938, Actor Loss: -73398.83605957031  
Episode 5750: Time: 0.2171018123626709, Total Reward: 172.1078427212242, Q Loss: 353613.34228515625, Actor Loss: -27936.79345703125  
Episode 5751: Time: 0.3364236354827881, Total Reward: 277.15625377740884, Q Loss: 516919.23681640625, Actor Loss: -42102.52282714844  
Episode 5752: Time: 0.08698272705078125, Total Reward: 63.11879653990019, Q Loss: 93521.26708984375, Actor Loss: -11377.439697265625  
Episode 5753: Time: 0.22774672508239746, Total Reward: 184.197662393512, Q Loss: 412524.98486328125, Actor Loss: -28989.744140625  
Episode 5754: Time: 0.31412672996520996, Total Reward: 259.522710097373, Q Loss: 502427.79736328125, Actor Loss: -40125.57629394531  
Episode 5755: Time: 0.26013946533203125, Total Reward: 210.3720830786598, Q Loss: 435401.5712890625, Actor Loss: -33201.13720703125  
Episode 5756: Time: 0.20626592636108398, Total Reward: 165.93741626056234, Q Loss: 315564.3720703125, Actor Loss: -27159.026245117188  
Episode 5757: Time: 0.18398022651672363, Total Reward: 146.1861256495282, Q Loss: 294439.56005859375, Actor Loss: -24269.815185546875  
Episode 5758: Time: 0.21666216850280762, Total Reward: 173.88769984668858, Q Loss: 370627.34765625, Actor Loss: -28210.983764648438  
Episode 5759: Time: 0.30320024490356445, Total Reward: 249.5578279165588, Q Loss: 497338.94287109375, Actor Loss: -39333.46520996094  
Episode 5760: Time: 0.3894791603088379, Total Reward: 322.87981830116314, Q Loss: 600821.310546875, Actor Loss: -50556.2109375  
Episode 5761: Time: 0.3563568592071533, Total Reward: 296.23329970724683, Q Loss: 583592.15625, Actor Loss: -45549.79895019531  
Episode 5762: Time: 0.5612082481384277, Total Reward: 472.69898802661515, Q Loss: 1022390.1767578125, Actor Loss: -71953.90966796875  
Episode 5763: Time: 0.28099918365478516, Total Reward: 230.3216590855654, Q Loss: 530336.119140625, Actor Loss: -35950.452392578125  
Episode 5764: Time: 0.12987875938415527, Total Reward: 100.02335788018937, Q Loss: 181937.08544921875, Actor Loss: -17193.531372070312  
Episode 5765: Time: 0.37787675857543945, Total Reward: 313.3038153465681, Q Loss: 745885.6796875, Actor Loss: -48433.29650878906  
Episode 5766: Time: 0.7236077785491943, Total Reward: 613.1370907042758, Q Loss: 1238520.7951660156, Actor Loss: -93172.08093261719



Episode 5767: Time: 0.6487116813659668, Total Reward: 545.6626905695929, Q Loss: 1198142.0561523438, Actor Loss: -84674.01953125  
Episode 5768: Time: 0.36781764030456543, Total Reward: 304.50038775212045, Q Loss: 598045.4809570312, Actor Loss: -47079.26892089844  
Episode 5769: Time: 0.4317045211791992, Total Reward: 361.12504338412816, Q Loss: 878217.3872070312, Actor Loss: -56524.25231933594  
Episode 5770: Time: 0.24839353561401367, Total Reward: 203.00080226183513, Q Loss: 408221.0061035156, Actor Loss: -32320.765014648438  
Episode 5771: Time: 0.1297907829284668, Total Reward: 100.66569438279964, Q Loss: 208796.4306640625, Actor Loss: -16920.513671875  
Episode 5772: Time: 0.2806260585784912, Total Reward: 230.39963573872996, Q Loss: 471977.28662109375, Actor Loss: -36564.43603515625  
Episode 5773: Time: 0.5713038444519043, Total Reward: 480.63289531875904, Q Loss: 847564.5639648438, Actor Loss: -74827.56066894531  
Episode 5774: Time: 0.3990614414215088, Total Reward: 333.5485483307348, Q Loss: 646368.677734375, Actor Loss: -52270.66735839844  
Episode 5775: Time: 0.1617906093597412, Total Reward: 128.61062842665416, Q Loss: 294757.93115234375, Actor Loss: -21981.735717773438  
Episode 5776: Time: 0.5709385871887207, Total Reward: 481.76053575033967, Q Loss: 983247.6611328125, Actor Loss: -73293.13818359375  
Episode 5777: Time: 0.11898994445800781, Total Reward: 91.06094978058798, Q Loss: 238542.6962890625, Actor Loss: -15611.666137695312  
Episode 5778: Time: 0.3230888843536377, Total Reward: 268.2028094243638, Q Loss: 545786.4389648438, Actor Loss: -42639.77734375  
Episode 5779: Time: 0.5719864368438721, Total Reward: 479.370931738181, Q Loss: 1053161.9921875, Actor Loss: -74913.45495605469  
Episode 5780: Time: 0.10902094841003418, Total Reward: 82.43172904750018, Q Loss: 160121.9111328125, Actor Loss: -13788.2314453125  
Episode 5781: Time: 0.19514751434326172, Total Reward: 156.41940404327667, Q Loss: 301513.5310058594, Actor Loss: -25045.887451171875  
Episode 5782: Time: 0.46387577056884766, Total Reward: 389.6126936300525, Q Loss: 877441.396484375, Actor Loss: -61394.384033203125  
Episode 5783: Time: 0.3777477741241455, Total Reward: 314.11152421060115, Q Loss: 570394.0590820312, Actor Loss: -48542.6845703125  
Episode 5784: Time: 0.1298961639404297, Total Reward: 100.21996267301627, Q Loss: 253273.3642578125, Actor Loss: -16074.681396484375  
Episode 5785: Time: 0.19470787048339844, Total Reward: 155.33097425182234, Q Loss: 350953.48486328125, Actor Loss: -25060.2880859375  
Episode 5786: Time: 0.22697973251342773, Total Reward: 182.57201827467944, Q Loss: 436078.14111328125, Actor Loss: -30093.250610351562  
Episode 5787: Time: 0.2809758186340332, Total Reward: 230.91996827673114, Q Loss: 528240.3735351562, Actor Loss: -35402.12561035156  
Episode 5788: Time: 0.16184473037719727, Total Reward: 128.53002893869242, Q Loss: 272358.775390625, Actor Loss: -20798.926635742188  
Episode 5789: Time: 0.1944117546081543, Total Reward: 156.65338014190888, Q Loss: 351653.29150390625, Actor Loss: -25329.602661132812  
Episode 5790: Time: 0.32396888732910156, Total Reward: 265.69401928807866, Q Loss: 514662.30078125, Actor Loss: -43133.804931640625  
Episode 5791: Time: 0.19424748420715332, Total Reward: 156.07739890476836, Q Loss: 313170.0986328125, Actor Loss: -26029.099609375  
Episode 5792: Time: 0.376880407333374, Total Reward: 313.288278712172, Q Loss: 560398.1796875, Actor Loss: -49870.13513183594  
Episode 5793: Time: 0.20521259307861328, Total Reward: 163.8981565017211, Q Loss: 319131.54736328125, Actor Loss: -26124.225341796875  
Episode 5794: Time: 0.09708714485168457, Total Reward: 72.70915215001514, Q Loss: 153466.91943359375, Actor Loss: -12748.027954101562

Episode 5795: Time: 0.5488827228546143, Total Reward: 463.17576398787406, Q Loss: 891281.1826171875, Actor Loss: -73033.31896972656  
Episode 5796: Time: 0.31224489212036133, Total Reward: 258.3272234523065, Q Loss: 519335.1501464844, Actor Loss: -40953.924072265625  
Episode 5797: Time: 0.5798115730285645, Total Reward: 490.6044535852885, Q Loss: 979623.0874023438, Actor Loss: -75906.25085449219  
Episode 5798: Time: 0.19396328926086426, Total Reward: 156.26236951098025, Q Loss: 332618.71240234375, Actor Loss: -25752.760986328125  
Episode 5799: Time: 0.4191725254058838, Total Reward: 352.54766461538776, Q Loss: 834719.0795898438, Actor Loss: -55985.4208984375  
Validation Mean: 9355.122846178514, Validation Std: 0.2585436147660395  
saving model  
Episode 5800: Time: 0.07184910774230957, Total Reward: 63.177434565477014, Q Loss: 192093.6455078125, Actor Loss: -12007.380859375  
Episode 5801: Time: 0.12482929229736328, Total Reward: 119.04691285320199, Q Loss: 372328.6806640625, Actor Loss: -20127.17529296875  
Episode 5802: Time: 0.17672944068908691, Total Reward: 175.3991609748038, Q Loss: 404898.3349609375, Actor Loss: -28551.964477539062  
Episode 5803: Time: 0.44992828369140625, Total Reward: 463.8514211338288, Q Loss: 1058495.1098632812, Actor Loss: -74224.53564453125  
Episode 5804: Time: 0.2383415699005127, Total Reward: 237.40565014405797, Q Loss: 501516.29150390625, Actor Loss: -39122.969970703125  
Episode 5805: Time: 0.4317195415496826, Total Reward: 443.5191988097283, Q Loss: 967091.2045898438, Actor Loss: -69899.77062988281  
Episode 5806: Time: 0.10603952407836914, Total Reward: 100.23567952456247, Q Loss: 233561.548828125, Actor Loss: -16612.029174804688  
Episode 5807: Time: 0.17725849151611328, Total Reward: 174.52258854739983, Q Loss: 412719.8759765625, Actor Loss: -29122.945678710938  
Episode 5808: Time: 0.46648478507995605, Total Reward: 481.66482706988495, Q Loss: 1012972.1611328125, Actor Loss: -75767.07019042969  
Episode 5809: Time: 0.07063674926757812, Total Reward: 62.82161744786921, Q Loss: 175644.626953125, Actor Loss: -11285.713745117188  
Episode 5810: Time: 0.21241307258605957, Total Reward: 212.9766847586499, Q Loss: 481152.7451171875, Actor Loss: -34144.99499511719  
Episode 5811: Time: 0.1761934757232666, Total Reward: 175.53651682352194, Q Loss: 502579.23046875, Actor Loss: -28481.93115234375  
Episode 5812: Time: 0.563093900680542, Total Reward: 584.4476846066761, Q Loss: 1306871.501953125, Actor Loss: -93680.43212890625  
Episode 5813: Time: 0.6256980895996094, Total Reward: 646.4933283783215, Q Loss: 1414436.6279296875, Actor Loss: -101042.66760253906  
Episode 5814: Time: 0.27425169944763184, Total Reward: 276.3930785135556, Q Loss: 558344.3466796875, Actor Loss: -43958.18444824219  
Episode 5815: Time: 0.5303335189819336, Total Reward: 547.0277697042852, Q Loss: 1128048.2182617188, Actor Loss: -86597.47302246094  
Episode 5816: Time: 0.16799354553222656, Total Reward: 162.45692419397488, Q Loss: 414034.26708984375, Actor Loss: -27544.187866210938  
Episode 5817: Time: 0.15069031715393066, Total Reward: 147.1801291363498, Q Loss: 285056.443359375, Actor Loss: -23793.69775390625  
Episode 5818: Time: 0.43264245986938477, Total Reward: 445.58161511914636, Q Loss: 967187.8920898438, Actor Loss: -71410.70520019531  
Episode 5819: Time: 0.10660648345947266, Total Reward: 100.96925967152485, Q Loss: 262902.4375, Actor Loss: -17684.082885742188  
Episode 5820: Time: 0.22110557556152344, Total Reward: 221.85012694798556, Q Loss: 515987.9365234375, Actor Loss: -36670.32067871094  
Episode 5821: Time: 0.27402639389038086, Total Reward: 274.9204511200256, Q Loss: 596567.6806640625, Actor Loss: -45335.33935546875

Episode 5822: Time: 0.4410853385925293, Total Reward: 453.992235481702, Q Loss: 1069467.7109375, Actor Loss: -72553.11584472656  
Episode 5823: Time: 0.24678325653076172, Total Reward: 249.89357786864485, Q Loss: 555829.791015625, Actor Loss: -41307.38134765625  
Episode 5824: Time: 0.300966739654541, Total Reward: 304.1960504845359, Q Loss: 650561.2778320312, Actor Loss: -50838.30615234375  
Episode 5825: Time: 0.13237714767456055, Total Reward: 128.78345659922226, Q Loss: 321418.607421875, Actor Loss: -22185.225952148438  
Episode 5826: Time: 0.07983970642089844, Total Reward: 72.52316902520263, Q Loss: 167590.43212890625, Actor Loss: -12765.568359375  
Episode 5827: Time: 0.15003204345703125, Total Reward: 147.18723338541767, Q Loss: 328915.9697265625, Actor Loss: -23563.244018554688  
Episode 5828: Time: 0.18518948554992676, Total Reward: 183.68269430570288, Q Loss: 442213.25048828125, Actor Loss: -31065.808349609375  
Episode 5829: Time: 0.13240671157836914, Total Reward: 127.43734845280713, Q Loss: 326579.892578125, Actor Loss: -21590.527709960938  
Episode 5830: Time: 0.19407439231872559, Total Reward: 193.18665831194673, Q Loss: 423164.564453125, Actor Loss: -31158.812866210938  
Episode 5831: Time: 0.4056828022003174, Total Reward: 415.6528305191956, Q Loss: 1158213.7153320312, Actor Loss: -67548.65185546875  
Episode 5832: Time: 0.22920799255371094, Total Reward: 229.321070355543, Q Loss: 542301.2651367188, Actor Loss: -37924.38024902344  
Episode 5833: Time: 0.2820553779602051, Total Reward: 285.8722713587223, Q Loss: 666721.390625, Actor Loss: -45934.908203125  
Episode 5834: Time: 0.26499485969543457, Total Reward: 267.9085187088189, Q Loss: 695322.3125, Actor Loss: -43698.06103515625  
Episode 5835: Time: 0.352550745010376, Total Reward: 361.3502038923394, Q Loss: 675890.7375488281, Actor Loss: -58075.5986328125  
Episode 5836: Time: 0.20455694198608398, Total Reward: 202.08943023208633, Q Loss: 339454.72119140625, Actor Loss: -33650.874755859375  
Episode 5837: Time: 0.24698734283447266, Total Reward: 248.16233095460547, Q Loss: 613649.2905273438, Actor Loss: -40835.18981933594  
Episode 5838: Time: 0.28200650215148926, Total Reward: 287.18638154526025, Q Loss: 621682.0424804688, Actor Loss: -47335.745849609375  
Episode 5839: Time: 0.18531584739685059, Total Reward: 184.23597272587816, Q Loss: 408587.7587890625, Actor Loss: -30853.03564453125  
Episode 5840: Time: 0.1854393482208252, Total Reward: 184.4462706919885, Q Loss: 400667.212890625, Actor Loss: -30989.648681640625  
Episode 5841: Time: 0.06218862533569336, Total Reward: 53.256206562363225, Q Loss: 212505.98388671875, Actor Loss: -10420.268432617188  
Episode 5842: Time: 0.7480576038360596, Total Reward: 779.9472810913819, Q Loss: 1729484.1018066406, Actor Loss: -125977.27563476562  
Episode 5843: Time: 0.2995738983154297, Total Reward: 305.11456152477234, Q Loss: 633790.8984375, Actor Loss: -50211.439697265625  
Episode 5844: Time: 0.09735655784606934, Total Reward: 91.6070684039709, Q Loss: 273121.00390625, Actor Loss: -16242.05810546875  
Episode 5845: Time: 0.22105813026428223, Total Reward: 221.24843220708897, Q Loss: 502286.16259765625, Actor Loss: -36346.52087402344  
Episode 5846: Time: 0.2119309902191162, Total Reward: 210.21015695856178, Q Loss: 437477.6865234375, Actor Loss: -34703.135009765625  
Episode 5847: Time: 0.4588165283203125, Total Reward: 471.3316337475098, Q Loss: 930014.4150390625, Actor Loss: -76630.52734375  
Episode 5848: Time: 0.0883643627166748, Total Reward: 81.37108907670383, Q Loss: 254223.1982421875, Actor Loss: -14417.460815429688  
Episode 5849: Time: 0.4402618408203125, Total Reward: 453.6660906683966, Q Loss: 1044661.287109375, Actor Loss: -72824.56665039062

Episode 5850: Time: 0.19389104843139648, Total Reward: 193.94307612529494, Q Loss: 444083.07373046875, Actor Loss: -31750.638305664062  
Episode 5851: Time: 0.08856344223022461, Total Reward: 81.78296302402389, Q Loss: 169899.90283203125, Actor Loss: -14140.094360351562  
Episode 5852: Time: 0.28200483322143555, Total Reward: 285.0665698501091, Q Loss: 668192.6635742188, Actor Loss: -46636.95251464844  
Episode 5853: Time: 0.2902076244354248, Total Reward: 296.9222647918541, Q Loss: 627683.2763671875, Actor Loss: -50082.74133300781  
Episode 5854: Time: 0.32672834396362305, Total Reward: 332.5211995524305, Q Loss: 751989.9614257812, Actor Loss: -55202.05114746094  
Episode 5855: Time: 0.11494183540344238, Total Reward: 109.28494874363507, Q Loss: 291915.9482421875, Actor Loss: -19328.87158203125  
Episode 5856: Time: 0.14230632781982422, Total Reward: 137.68299366448943, Q Loss: 299671.61669921875, Actor Loss: -23882.768310546875  
Episode 5857: Time: 0.2996699810028076, Total Reward: 304.80652518982885, Q Loss: 668307.365234375, Actor Loss: -51873.17321777344  
Episode 5858: Time: 0.08876848220825195, Total Reward: 81.67594562590537, Q Loss: 208378.00439453125, Actor Loss: -15310.0048828125  
Episode 5859: Time: 0.07084965705871582, Total Reward: 63.065216200464675, Q Loss: 176463.048828125, Actor Loss: -12145.72802734375  
Episode 5860: Time: 0.35344719886779785, Total Reward: 362.314467764961, Q Loss: 888807.4140625, Actor Loss: -57220.754150390625  
Episode 5861: Time: 0.4692080020904541, Total Reward: 483.29664987739363, Q Loss: 934909.8715820312, Actor Loss: -77794.92065429688  
Episode 5862: Time: 0.33660244941711426, Total Reward: 340.06459164781376, Q Loss: 839426.8999023438, Actor Loss: -58016.92541503906  
Episode 5863: Time: 0.24782848358154297, Total Reward: 249.51017454185143, Q Loss: 612058.6713867188, Actor Loss: -41023.54833984375  
Episode 5864: Time: 0.11524510383605957, Total Reward: 109.34339624426788, Q Loss: 163008.28466796875, Actor Loss: -18640.640869140625  
Episode 5865: Time: 0.1859123706817627, Total Reward: 184.33806315465134, Q Loss: 474885.9111328125, Actor Loss: -30279.067016601562  
Episode 5866: Time: 0.2908356189727783, Total Reward: 293.52424213336155, Q Loss: 728280.396484375, Actor Loss: -48451.26794433594  
Episode 5867: Time: 0.14081740379333496, Total Reward: 137.91620222895594, Q Loss: 291498.63525390625, Actor Loss: -23652.358276367188  
Episode 5868: Time: 0.16731762886047363, Total Reward: 165.65806989416248, Q Loss: 454590.51416015625, Actor Loss: -28280.7265625  
Episode 5869: Time: 0.15862798690795898, Total Reward: 156.54529493538718, Q Loss: 385893.45556640625, Actor Loss: -25717.57470703125  
Episode 5870: Time: 0.14162945747375488, Total Reward: 137.59758512146726, Q Loss: 329410.03759765625, Actor Loss: -24343.288696289062  
Episode 5871: Time: 0.07955002784729004, Total Reward: 72.56824267715074, Q Loss: 208635.970703125, Actor Loss: -14398.17431640625  
Episode 5872: Time: 0.18516874313354492, Total Reward: 182.83162696232137, Q Loss: 396266.90966796875, Actor Loss: -31570.196655273438  
Episode 5873: Time: 0.46737027168273926, Total Reward: 480.19372212315625, Q Loss: 1034508.5688476562, Actor Loss: -79527.89172363281  
Episode 5874: Time: 0.25616908073425293, Total Reward: 259.01467124439336, Q Loss: 707655.6616210938, Actor Loss: -44585.64318847656  
Episode 5875: Time: 0.09684371948242188, Total Reward: 91.73242039526046, Q Loss: 223761.513671875, Actor Loss: -15940.913452148438  
Episode 5876: Time: 0.22043657302856445, Total Reward: 220.38448529439515, Q Loss: 702569.37890625, Actor Loss: -37836.938720703125  
Episode 5877: Time: 0.18509221076965332, Total Reward: 185.33988904293795, Q Loss: 430139.43212890625, Actor Loss: -31195.912231445312

Episode 5878: Time: 0.1060795783996582, Total Reward: 100.34853007090965, Q Loss: 367402.412109375, Actor Loss: -18122.989135742188  
Episode 5879: Time: 0.29152750968933105, Total Reward: 296.92555038252584, Q Loss: 718880.6557617188, Actor Loss: -47539.4990234375  
Episode 5880: Time: 0.21185803413391113, Total Reward: 212.20570873482308, Q Loss: 529525.615234375, Actor Loss: -34662.76159667969  
Episode 5881: Time: 0.38507509231567383, Total Reward: 388.92615581692985, Q Loss: 841666.9682617188, Actor Loss: -63659.83581542969  
Episode 5882: Time: 0.21228241920471191, Total Reward: 211.96097479645957, Q Loss: 604913.263671875, Actor Loss: -36215.87609863281  
Episode 5883: Time: 0.1331171989440918, Total Reward: 128.87882841845655, Q Loss: 209085.59765625, Actor Loss: -22134.398193359375  
Episode 5884: Time: 0.13324737548828125, Total Reward: 127.90685083614761, Q Loss: 311338.087890625, Actor Loss: -22111.859008789062  
Episode 5885: Time: 0.09730696678161621, Total Reward: 91.59320670274097, Q Loss: 170276.5107421875, Actor Loss: -16214.7939453125  
Episode 5886: Time: 0.5820024013519287, Total Reward: 604.3362931309596, Q Loss: 1380488.9990234375, Actor Loss: -99522.9248046875  
Episode 5887: Time: 0.41478586196899414, Total Reward: 426.55766555789427, Q Loss: 987351.9663085938, Actor Loss: -70930.56298828125  
Episode 5888: Time: 0.33617234230041504, Total Reward: 341.38130977837346, Q Loss: 754240.4072265625, Actor Loss: -56627.71887207031  
Episode 5889: Time: 0.39766550064086914, Total Reward: 407.5992997542907, Q Loss: 1065531.3115234375, Actor Loss: -66946.609375  
Episode 5890: Time: 0.3000311851501465, Total Reward: 305.6559275506086, Q Loss: 744898.2768554688, Actor Loss: -51062.428955078125  
Episode 5891: Time: 0.10602998733520508, Total Reward: 100.0271187187359, Q Loss: 222320.13671875, Actor Loss: -18012.310424804688  
Episode 5892: Time: 0.18557500839233398, Total Reward: 180.68752373176966, Q Loss: 370266.443359375, Actor Loss: -32257.056884765625  
Episode 5893: Time: 0.22950077056884766, Total Reward: 231.0176645396909, Q Loss: 597789.3129882812, Actor Loss: -39293.723876953125  
Episode 5894: Time: 0.617450475692749, Total Reward: 640.3165564507085, Q Loss: 1394706.5283203125, Actor Loss: -105795.42700195312  
Episode 5895: Time: 0.1499629020690918, Total Reward: 147.74533284240226, Q Loss: 382443.44140625, Actor Loss: -26058.122680664062  
Episode 5896: Time: 0.38030457496643066, Total Reward: 388.3242086072729, Q Loss: 859042.1352539062, Actor Loss: -64996.365478515625  
Episode 5897: Time: 0.07989287376403809, Total Reward: 72.73072688960991, Q Loss: 154450.58203125, Actor Loss: -13442.16845703125  
Episode 5898: Time: 0.5108551979064941, Total Reward: 526.4988564395501, Q Loss: 994359.7822265625, Actor Loss: -86995.62915039062  
Episode 5899: Time: 0.22040939331054688, Total Reward: 221.5793724417488, Q Loss: 600439.5341796875, Actor Loss: -37680.843994140625  
Validation Mean: 9355.537929468917, Validation Std: 1.0236318830709907  
saving model  
Episode 5900: Time: 0.4065220355987549, Total Reward: 416.0306388908324, Q Loss: 1207880.4291992188, Actor Loss: -69850.50378417969  
Episode 5901: Time: 0.35250234603881836, Total Reward: 358.86295777818594, Q Loss: 973470.6586914062, Actor Loss: -60383.27404785156  
Episode 5902: Time: 0.2026982307434082, Total Reward: 203.3097429376236, Q Loss: 494785.9169921875, Actor Loss: -34727.03039550781  
Episode 5903: Time: 0.8293490409851074, Total Reward: 864.9256662436738, Q Loss: 1975506.9340820312, Actor Loss: -143428.9560546875  
Episode 5904: Time: 0.17702794075012207, Total Reward: 174.94186158244858, Q Loss: 440673.93310546875, Actor Loss: -29474.934204101562

Episode 5905: Time: 0.16810226440429688, Total Reward: 164.7499099382036, Q Loss: 347850.3671875, Actor Loss: -29802.564697265625  
Episode 5906: Time: 0.6952066421508789, Total Reward: 724.6862608010462, Q Loss: 1727489.7465820312, Actor Loss: -121244.19067382812  
Episode 5907: Time: 0.3263528347015381, Total Reward: 332.48616063354274, Q Loss: 773781.5170898438, Actor Loss: -56667.351806640625  
Episode 5908: Time: 0.14991521835327148, Total Reward: 147.5319132552215, Q Loss: 340978.865234375, Actor Loss: -25457.352661132812  
Episode 5909: Time: 0.17699313163757324, Total Reward: 174.3832895366367, Q Loss: 443487.2587890625, Actor Loss: -30687.477661132812  
Episode 5910: Time: 0.14117026329040527, Total Reward: 137.67438313746572, Q Loss: 361102.0234375, Actor Loss: -23518.273681640625  
Episode 5911: Time: 0.6516475677490234, Total Reward: 676.7517290024538, Q Loss: 1604405.419921875, Actor Loss: -112158.38708496094  
Episode 5912: Time: 0.2820754051208496, Total Reward: 286.86199340951066, Q Loss: 695459.2368164062, Actor Loss: -48511.197509765625  
Episode 5913: Time: 0.28203320503234863, Total Reward: 286.3489569870772, Q Loss: 636187.333984375, Actor Loss: -49336.18884277344  
Episode 5914: Time: 0.3267202377319336, Total Reward: 333.2843445877172, Q Loss: 846297.3046875, Actor Loss: -57012.17919921875  
Episode 5915: Time: 0.16771245002746582, Total Reward: 166.07257996836563, Q Loss: 395905.36865234375, Actor Loss: -29640.821411132812  
Episode 5916: Time: 0.3876934051513672, Total Reward: 397.4095401935483, Q Loss: 829551.3579101562, Actor Loss: -68533.27746582031  
Episode 5917: Time: 0.18511056900024414, Total Reward: 184.2508796890347, Q Loss: 424378.4326171875, Actor Loss: -32720.658447265625  
Episode 5918: Time: 0.2296459674835205, Total Reward: 230.25833734917984, Q Loss: 593449.5854492188, Actor Loss: -39474.454345703125  
Episode 5919: Time: 0.7829644680023193, Total Reward: 816.3285996581182, Q Loss: 1834439.0009765625, Actor Loss: -139575.91625976562  
Episode 5920: Time: 0.2910916805267334, Total Reward: 296.5873323671549, Q Loss: 686613.4873046875, Actor Loss: -51343.74462890625  
Episode 5921: Time: 0.20308351516723633, Total Reward: 203.2651266639609, Q Loss: 407436.55126953125, Actor Loss: -35907.21813964844  
Episode 5922: Time: 0.4672071933746338, Total Reward: 480.13634941522605, Q Loss: 1265349.2197265625, Actor Loss: -82650.81787109375  
Episode 5923: Time: 0.18499255180358887, Total Reward: 184.2735205520318, Q Loss: 487881.5087890625, Actor Loss: -32767.860595703125  
Episode 5924: Time: 0.30026721954345703, Total Reward: 303.4720724021221, Q Loss: 740611.60546875, Actor Loss: -52494.739501953125  
Episode 5925: Time: 0.25545787811279297, Total Reward: 258.0215420024124, Q Loss: 572182.5327148438, Actor Loss: -45373.0595703125  
Episode 5926: Time: 0.14086365699768066, Total Reward: 137.16281816845202, Q Loss: 262824.384765625, Actor Loss: -25121.434448242188  
Episode 5927: Time: 0.13254714012145996, Total Reward: 128.9223115655309, Q Loss: 276357.72314453125, Actor Loss: -23478.489990234375  
Episode 5928: Time: 0.13199496269226074, Total Reward: 128.6243039299753, Q Loss: 255065.6396484375, Actor Loss: -23550.1103515625  
Episode 5929: Time: 0.4134502410888672, Total Reward: 425.59074545528966, Q Loss: 1010433.3540039062, Actor Loss: -72142.71215820312  
Episode 5930: Time: 0.12342596054077148, Total Reward: 119.70032718822964, Q Loss: 299003.45166015625, Actor Loss: -21207.189331054688  
Episode 5931: Time: 0.20333647727966309, Total Reward: 202.631433239981, Q Loss: 579218.0004882812, Actor Loss: -35007.629638671875  
Episode 5932: Time: 0.22016072273254395, Total Reward: 220.96116170074487, Q Loss: 526245.2924804688, Actor Loss: -40075.65002441406

Episode 5933: Time: 0.2201077938079834, Total Reward: 220.95226501448028, Q Loss: 650672.7241210938, Actor Loss: -38336.645263671875  
Episode 5934: Time: 0.22026824951171875, Total Reward: 220.38672304107936, Q Loss: 471786.4130859375, Actor Loss: -38545.81140136719  
Episode 5935: Time: 0.2204298973083496, Total Reward: 220.85739630608546, Q Loss: 487510.47607421875, Actor Loss: -40323.665771484375  
Episode 5936: Time: 0.07070302963256836, Total Reward: 63.386453728018054, Q Loss: 222581.2412109375, Actor Loss: -12026.628662109375  
Episode 5937: Time: 0.31762242317199707, Total Reward: 323.15489249944983, Q Loss: 683588.3090820312, Actor Loss: -56979.160888671875  
Episode 5938: Time: 0.24848079681396484, Total Reward: 250.524731464834, Q Loss: 643301.2333984375, Actor Loss: -43704.999755859375  
Episode 5939: Time: 0.07066059112548828, Total Reward: 62.80848148527177, Q Loss: 186585.0712890625, Actor Loss: -12361.946044921875  
Episode 5940: Time: 0.08802103996276855, Total Reward: 81.8740127861506, Q Loss: 250830.3388671875, Actor Loss: -15172.747924804688  
Episode 5941: Time: 0.9415130615234375, Total Reward: 984.2840105163652, Q Loss: 2364306.5161132812, Actor Loss: -168302.51220703125  
Episode 5942: Time: 0.16785240173339844, Total Reward: 164.9517587019331, Q Loss: 479111.6416015625, Actor Loss: -29926.236206054688  
Episode 5943: Time: 0.13264989852905273, Total Reward: 128.81933273159765, Q Loss: 300705.0849609375, Actor Loss: -23287.365966796875  
Episode 5944: Time: 0.2911207675933838, Total Reward: 293.7697763087551, Q Loss: 728520.201171875, Actor Loss: -51200.15686035156  
Episode 5945: Time: 0.3609960079193115, Total Reward: 368.0309221852747, Q Loss: 859097.75390625, Actor Loss: -62548.32043457031  
Episode 5946: Time: 0.46703553199768066, Total Reward: 481.9159291077002, Q Loss: 1264361.71875, Actor Loss: -81943.25939941406  
Episode 5947: Time: 0.11482119560241699, Total Reward: 110.0739741478592, Q Loss: 235176.9453125, Actor Loss: -20094.032104492188  
Episode 5948: Time: 0.08871912956237793, Total Reward: 81.37129067079049, Q Loss: 188860.38427734375, Actor Loss: -16001.34033203125  
Episode 5949: Time: 0.7741186618804932, Total Reward: 805.6407946395362, Q Loss: 1929065.5708007812, Actor Loss: -138829.30541992188  
Episode 5950: Time: 0.22916293144226074, Total Reward: 230.96827633022951, Q Loss: 513951.5107421875, Actor Loss: -41018.434814453125  
Episode 5951: Time: 0.44930315017700195, Total Reward: 463.74086696331614, Q Loss: 1043619.5502929688, Actor Loss: -81101.61242675781  
Episode 5952: Time: 0.08886289596557617, Total Reward: 82.22460662937732, Q Loss: 273509.1318359375, Actor Loss: -15311.974243164062  
Episode 5953: Time: 0.344592809677124, Total Reward: 349.45393503046546, Q Loss: 926022.505859375, Actor Loss: -62177.9140625  
Episode 5954: Time: 0.29927587509155273, Total Reward: 303.28805434345077, Q Loss: 819664.0063476562, Actor Loss: -53697.33312988281  
Episode 5955: Time: 0.2649061679840088, Total Reward: 268.00639972181705, Q Loss: 695146.5830078125, Actor Loss: -47512.56896972656  
Episode 5956: Time: 0.20409011840820312, Total Reward: 201.00949684386126, Q Loss: 561476.4125976562, Actor Loss: -35003.18395996094  
Episode 5957: Time: 0.3268752098083496, Total Reward: 333.0671838917122, Q Loss: 763182.3994140625, Actor Loss: -57456.85168457031  
Episode 5958: Time: 0.4749181270599365, Total Reward: 462.0977330267542, Q Loss: 1210374.1870117188, Actor Loss: -81048.35217285156  
Episode 5959: Time: 0.14025306701660156, Total Reward: 109.70792073989915, Q Loss: 332931.11083984375, Actor Loss: -20383.813598632812  
Episode 5960: Time: 0.3028411865234375, Total Reward: 304.8098838250195, Q Loss: 861204.0517578125, Actor Loss: -53947.19860839844

Episode 5961: Time: 0.32942795753479004, Total Reward: 333.6925510927687, Q Loss: 916102.3203125, Actor Loss: -59789.681396484375  
Episode 5962: Time: 0.30042433738708496, Total Reward: 304.9439966838181, Q Loss: 692630.4462890625, Actor Loss: -52399.20422363281  
Episode 5963: Time: 0.3881185054779053, Total Reward: 396.8977882201809, Q Loss: 1077800.3784179688, Actor Loss: -68072.39782714844  
Episode 5964: Time: 0.2378995418548584, Total Reward: 238.92146517335968, Q Loss: 582053.2275390625, Actor Loss: -42404.94567871094  
Episode 5965: Time: 0.21163034439086914, Total Reward: 209.50049566721628, Q Loss: 472405.68701171875, Actor Loss: -37621.902587890625  
Episode 5966: Time: 0.4052562713623047, Total Reward: 416.74517047092644, Q Loss: 1105495.107421875, Actor Loss: -71641.77661132812  
Episode 5967: Time: 0.3080148696899414, Total Reward: 315.4993604071046, Q Loss: 834596.236328125, Actor Loss: -57089.706787109375  
Episode 5968: Time: 0.3604745864868164, Total Reward: 370.703689678403, Q Loss: 994245.005859375, Actor Loss: -65172.32458496094  
Episode 5969: Time: 0.09701967239379883, Total Reward: 91.14864416287952, Q Loss: 198273.38671875, Actor Loss: -17909.723388671875  
Episode 5970: Time: 0.3081319332122803, Total Reward: 314.9598447204064, Q Loss: 776401.888671875, Actor Loss: -55824.75207519531  
Episode 5971: Time: 0.08818221092224121, Total Reward: 82.31403591351147, Q Loss: 248127.5576171875, Actor Loss: -16611.374877929688  
Episode 5972: Time: 0.19520258903503418, Total Reward: 191.19467704780544, Q Loss: 349540.57568359375, Actor Loss: -34994.566162109375  
Episode 5973: Time: 0.07938432693481445, Total Reward: 72.41998703920814, Q Loss: 186969.603515625, Actor Loss: -14040.086303710938  
Episode 5974: Time: 0.19382667541503906, Total Reward: 193.1370790281608, Q Loss: 608754.2177734375, Actor Loss: -35359.88806152344  
Episode 5975: Time: 0.07930374145507812, Total Reward: 72.73824244190345, Q Loss: 203910.67822265625, Actor Loss: -14411.940307617188  
Episode 5976: Time: 0.14220786094665527, Total Reward: 137.68906844042385, Q Loss: 383659.2490234375, Actor Loss: -25689.416625976562  
Episode 5977: Time: 0.17620563507080078, Total Reward: 174.89910065827925, Q Loss: 543612.8681640625, Actor Loss: -32534.807495117188  
Episode 5978: Time: 0.31742334365844727, Total Reward: 323.78515096195525, Q Loss: 921191.1982421875, Actor Loss: -56273.294677734375  
Episode 5979: Time: 0.4027070999145508, Total Reward: 405.1196452104177, Q Loss: 1051457.2099609375, Actor Loss: -71033.83874511719  
Episode 5980: Time: 0.4229414463043213, Total Reward: 435.6870676044484, Q Loss: 1207415.5600585938, Actor Loss: -77811.83959960938  
Episode 5981: Time: 0.08834481239318848, Total Reward: 82.46349788919126, Q Loss: 240523.51953125, Actor Loss: -15748.18701171875  
Episode 5982: Time: 0.49489760398864746, Total Reward: 508.2101534144755, Q Loss: 1443422.3403320312, Actor Loss: -90124.56774902344  
Episode 5983: Time: 0.45912981033325195, Total Reward: 471.8291906210742, Q Loss: 1110409.0234375, Actor Loss: -84314.55810546875  
Episode 5984: Time: 0.537203311920166, Total Reward: 556.2211884421364, Q Loss: 1639697.4653320312, Actor Loss: -100078.03100585938  
Episode 5985: Time: 0.3608396053314209, Total Reward: 369.1434087427644, Q Loss: 841884.4995117188, Actor Loss: -65225.657958984375  
Episode 5986: Time: 0.06174635887145996, Total Reward: 53.42789429726502, Q Loss: 157193.009765625, Actor Loss: -11240.927856445312  
Episode 5987: Time: 0.24647808074951172, Total Reward: 249.59512992877256, Q Loss: 660256.8466796875, Actor Loss: -45538.09973144531  
Episode 5988: Time: 0.5454878807067871, Total Reward: 565.4660221262218, Q Loss: 1631366.0786132812, Actor Loss: -100876.36975097656



Episode 5989: Time: 0.19388747215270996, Total Reward: 191.94151635879695, Q Loss: 579383.23828125, Actor Loss: -34796.953857421875  
Episode 5990: Time: 0.4408607482910156, Total Reward: 454.68768473254624, Q Loss: 1351305.7700195312, Actor Loss: -80630.83996582031  
Episode 5991: Time: 0.07955551147460938, Total Reward: 71.38622818773904, Q Loss: 278601.06689453125, Actor Loss: -14909.029174804688  
Episode 5992: Time: 0.07955169677734375, Total Reward: 72.82027168241538, Q Loss: 252965.8642578125, Actor Loss: -14332.968017578125  
Episode 5993: Time: 0.15063977241516113, Total Reward: 145.33858060748452, Q Loss: 410963.1162109375, Actor Loss: -27156.822021484375  
Episode 5994: Time: 0.16751694679260254, Total Reward: 164.78032932381515, Q Loss: 396689.572265625, Actor Loss: -30346.721923828125  
Episode 5995: Time: 0.15025639533996582, Total Reward: 147.50413241911136, Q Loss: 395767.8173828125, Actor Loss: -29019.978149414062  
Episode 5996: Time: 0.18449640274047852, Total Reward: 184.5289553681868, Q Loss: 570687.1875, Actor Loss: -34611.14416503906  
Episode 5997: Time: 0.0882718563079834, Total Reward: 81.22228626164025, Q Loss: 348983.9072265625, Actor Loss: -16305.408569335938  
Episode 5998: Time: 0.18446993827819824, Total Reward: 184.82367721978923, Q Loss: 570437.6396484375, Actor Loss: -34118.1279296875  
Episode 5999: Time: 0.37862277030944824, Total Reward: 387.632593330881, Q Loss: 993803.41796875, Actor Loss: -69236.65698242188  
Validation Mean: 9354.536984700728, Validation Std: 0.7485643121716735  
saving model  
Episode 6000: Time: 0.19533085823059082, Total Reward: 193.6639873032534, Q Loss: 594849.072265625, Actor Loss: -36897.89892578125  
Episode 6001: Time: 0.08017373085021973, Total Reward: 72.0062973763136, Q Loss: 218371.01171875, Actor Loss: -14562.317626953125  
Episode 6002: Time: 0.13259530067443848, Total Reward: 128.2919470292896, Q Loss: 463919.8759765625, Actor Loss: -24366.700073242188  
Episode 6003: Time: 0.18591642379760742, Total Reward: 185.0475905490529, Q Loss: 490026.7353515625, Actor Loss: -33914.363037109375  
Episode 6004: Time: 0.3356053829193115, Total Reward: 340.3212105192539, Q Loss: 1037842.8310546875, Actor Loss: -62192.659912109375  
Episode 6005: Time: 0.08842134475708008, Total Reward: 81.96978179018052, Q Loss: 203177.7119140625, Actor Loss: -16034.796020507812  
Episode 6006: Time: 0.30803465843200684, Total Reward: 313.2393914556372, Q Loss: 1028971.689453125, Actor Loss: -55996.25244140625  
Episode 6007: Time: 0.13234949111938477, Total Reward: 128.47688922448165, Q Loss: 372001.853515625, Actor Loss: -24900.2939453125  
Episode 6008: Time: 0.22960162162780762, Total Reward: 230.6202918228846, Q Loss: 699095.66015625, Actor Loss: -42969.055419921875  
Episode 6009: Time: 0.34348487854003906, Total Reward: 351.28851687940875, Q Loss: 1100840.9228515625, Actor Loss: -62908.927978515625  
Episode 6010: Time: 0.24672341346740723, Total Reward: 248.99719968322603, Q Loss: 824154.6650390625, Actor Loss: -45184.616455078125  
Episode 6011: Time: 0.4664177894592285, Total Reward: 478.5549587373462, Q Loss: 1375012.2143554688, Actor Loss: -87671.15185546875  
Episode 6012: Time: 0.24672174453735352, Total Reward: 246.96602913799165, Q Loss: 727464.3955078125, Actor Loss: -45453.70458984375  
Episode 6013: Time: 0.15873146057128906, Total Reward: 155.75191131964257, Q Loss: 407217.3955078125, Actor Loss: -29096.265625  
Episode 6014: Time: 0.07194089889526367, Total Reward: 62.49631236796032, Q Loss: 177138.7451171875, Actor Loss: -13456.864135742188  
Episode 6015: Time: 0.6442317962646484, Total Reward: 666.2480676802674, Q Loss: 1841198.5268554688, Actor Loss: -119608.67309570312

Episode 6016: Time: 0.2560598850250244, Total Reward: 257.7381830722108, Q Loss: 710820.4418945312, Actor Loss: -47828.37902832031  
Episode 6017: Time: 0.11477088928222656, Total Reward: 109.97216527032978, Q Loss: 258994.89501953125, Actor Loss: -21088.89111328125  
Episode 6018: Time: 0.3612222671508789, Total Reward: 371.14251481833, Q Loss: 997499.2729492188, Actor Loss: -66680.92993164062  
Episode 6019: Time: 0.22038936614990234, Total Reward: 221.10548869775846, Q Loss: 529255.3857421875, Actor Loss: -39971.8681640625  
Episode 6020: Time: 0.14983010292053223, Total Reward: 147.25595039313328, Q Loss: 478345.6240234375, Actor Loss: -28841.750244140625  
Episode 6021: Time: 0.1848146915435791, Total Reward: 182.9412341002962, Q Loss: 568799.0068359375, Actor Loss: -34983.1435546875  
Episode 6022: Time: 0.2732689380645752, Total Reward: 277.37499654216157, Q Loss: 770760.01953125, Actor Loss: -51883.05212402344  
Episode 6023: Time: 0.16706299781799316, Total Reward: 166.14904876145377, Q Loss: 418861.12109375, Actor Loss: -32144.788818359375  
Episode 6024: Time: 0.2203972339630127, Total Reward: 220.9921237603441, Q Loss: 513457.6533203125, Actor Loss: -42122.05651855469  
Episode 6025: Time: 0.2908926010131836, Total Reward: 294.0637674897952, Q Loss: 747550.9736328125, Actor Loss: -55217.8515625  
Episode 6026: Time: 0.29143333435058594, Total Reward: 295.051145800365, Q Loss: 762850.31640625, Actor Loss: -54248.80383300781  
Episode 6027: Time: 0.7318661212921143, Total Reward: 761.79278083622, Q Loss: 1858510.1787109375, Actor Loss: -136644.2813720703  
Episode 6028: Time: 0.15879106521606445, Total Reward: 154.9996589038886, Q Loss: 545438.1796875, Actor Loss: -29784.54150390625  
Episode 6029: Time: 0.22989296913146973, Total Reward: 229.53787952940917, Q Loss: 671691.5478515625, Actor Loss: -43180.17077636719  
Episode 6030: Time: 0.3965437412261963, Total Reward: 407.70027628335504, Q Loss: 1046736.4321289062, Actor Loss: -73591.68481445312  
Episode 6031: Time: 0.3084099292755127, Total Reward: 313.79528585267343, Q Loss: 902849.3310546875, Actor Loss: -57191.201904296875  
Episode 6032: Time: 0.4666428565979004, Total Reward: 480.8322183071582, Q Loss: 1261150.9311523438, Actor Loss: -87142.59460449219  
Episode 6033: Time: 0.2913670539855957, Total Reward: 296.9141971073606, Q Loss: 732344.5922851562, Actor Loss: -55646.39758300781  
Episode 6034: Time: 0.10640525817871094, Total Reward: 100.43002333410746, Q Loss: 248345.70703125, Actor Loss: -19144.078979492188  
Episode 6035: Time: 0.30074048042297363, Total Reward: 304.60059216978357, Q Loss: 913117.9125976562, Actor Loss: -56590.394287109375  
Episode 6036: Time: 0.14117908477783203, Total Reward: 136.98021851595604, Q Loss: 317703.6025390625, Actor Loss: -26653.583740234375  
Episode 6037: Time: 0.12410902976989746, Total Reward: 119.09260151122287, Q Loss: 317546.4033203125, Actor Loss: -24341.699951171875  
Episode 6038: Time: 0.07983613014221191, Total Reward: 72.71029976865765, Q Loss: 164586.27734375, Actor Loss: -15500.090454101562  
Episode 6039: Time: 0.22925877571105957, Total Reward: 227.82356972318337, Q Loss: 538466.1215820312, Actor Loss: -44178.512451171875  
Episode 6040: Time: 0.21204376220703125, Total Reward: 211.66038969548623, Q Loss: 642230.4936523438, Actor Loss: -40481.292724609375  
Episode 6041: Time: 0.2557549476623535, Total Reward: 258.5735644450492, Q Loss: 656356.1181640625, Actor Loss: -47453.75280761719  
Episode 6042: Time: 0.7305614948272705, Total Reward: 761.7638326383327, Q Loss: 2170038.4028320312, Actor Loss: -136913.17248535156  
Episode 6043: Time: 0.2383100986480713, Total Reward: 240.90230416769853, Q Loss: 648867.0522460938, Actor Loss: -44440.75048828125

Episode 6044: Time: 0.11478662490844727, Total Reward: 110.01091140346793, Q Loss: 404923.326171875, Actor Loss: -22313.207885742188  
Episode 6045: Time: 0.09763431549072266, Total Reward: 91.56995454006955, Q Loss: 282592.47265625, Actor Loss: -18157.326538085938  
Episode 6046: Time: 0.12340450286865234, Total Reward: 117.66283932221492, Q Loss: 299926.212890625, Actor Loss: -23520.084594726562  
Episode 6047: Time: 0.23779940605163574, Total Reward: 239.43472438942524, Q Loss: 725205.9033203125, Actor Loss: -43943.959716796875  
Episode 6048: Time: 0.2027599811553955, Total Reward: 202.89054858814552, Q Loss: 659081.8134765625, Actor Loss: -37501.510986328125  
Episode 6049: Time: 0.2468576431274414, Total Reward: 248.15159706373836, Q Loss: 829079.0244140625, Actor Loss: -45890.561279296875  
Episode 6050: Time: 0.09729528427124023, Total Reward: 91.72903507417308, Q Loss: 214169.57421875, Actor Loss: -18808.164916992188  
Episode 6051: Time: 0.2209796905517578, Total Reward: 221.8000069279971, Q Loss: 651557.8725585938, Actor Loss: -42588.09619140625  
Episode 6052: Time: 0.1674671173095703, Total Reward: 165.32465674659144, Q Loss: 502533.0029296875, Actor Loss: -31730.961059570312  
Episode 6053: Time: 0.21383953094482422, Total Reward: 212.0045808302056, Q Loss: 569537.029296875, Actor Loss: -39529.92626953125  
Episode 6054: Time: 0.3349747657775879, Total Reward: 343.58196915731014, Q Loss: 980615.625, Actor Loss: -64846.99353027344  
Episode 6055: Time: 0.21266841888427734, Total Reward: 212.49847000475742, Q Loss: 543095.2739257812, Actor Loss: -39532.51403808594  
Episode 6056: Time: 0.23801541328430176, Total Reward: 238.86220830410326, Q Loss: 627675.1245117188, Actor Loss: -45268.03356933594  
Episode 6057: Time: 0.08824372291564941, Total Reward: 82.33337370821654, Q Loss: 248349.52734375, Actor Loss: -17526.947509765625  
Episode 6058: Time: 0.14138197898864746, Total Reward: 135.88723718357738, Q Loss: 421569.626953125, Actor Loss: -26719.37646484375  
Episode 6059: Time: 0.19386601448059082, Total Reward: 193.02546005826017, Q Loss: 605362.462890625, Actor Loss: -36753.91711425781  
Episode 6060: Time: 0.2124474048614502, Total Reward: 210.65708185632263, Q Loss: 581737.70703125, Actor Loss: -39755.03564453125  
Episode 6061: Time: 0.19395923614501953, Total Reward: 193.95432832752928, Q Loss: 445829.1328125, Actor Loss: -38833.13830566406  
Episode 6062: Time: 0.13281846046447754, Total Reward: 128.66592452720747, Q Loss: 319624.427734375, Actor Loss: -25094.9716796875  
Episode 6063: Time: 0.5632383823394775, Total Reward: 584.4588394443603, Q Loss: 1797234.8852539062, Actor Loss: -106234.18200683594  
Episode 6064: Time: 0.4495265483856201, Total Reward: 463.46554332466724, Q Loss: 1281746.0078125, Actor Loss: -85822.96325683594  
Episode 6065: Time: 0.2036292552947998, Total Reward: 203.2708134532887, Q Loss: 631511.9853515625, Actor Loss: -38013.078125  
Episode 6066: Time: 0.12355923652648926, Total Reward: 117.73014268584997, Q Loss: 419409.7265625, Actor Loss: -24018.1171875  
Episode 6067: Time: 0.38893771171569824, Total Reward: 397.22974282463673, Q Loss: 1153675.35546875, Actor Loss: -72996.88549804688  
Episode 6068: Time: 0.2732582092285156, Total Reward: 278.01807643903334, Q Loss: 716103.1059570312, Actor Loss: -51576.67138671875  
Episode 6069: Time: 0.2202897071838379, Total Reward: 221.66023856763368, Q Loss: 613452.5708007812, Actor Loss: -41507.54675292969  
Episode 6070: Time: 0.21160173416137695, Total Reward: 210.19110452213988, Q Loss: 611848.0434570312, Actor Loss: -41371.319091796875  
Episode 6071: Time: 0.14091920852661133, Total Reward: 138.13245757227293, Q Loss: 346465.9697265625, Actor Loss: -26697.775512695312

Episode 6072: Time: 0.2114253044128418, Total Reward: 212.2059710862656, Q Loss: 527038.130859375, Actor Loss: -40215.506103515625  
Episode 6073: Time: 0.6165337562561035, Total Reward: 642.1115046075072, Q Loss: 1847021.8603515625, Actor Loss: -116448.81848144531  
Episode 6074: Time: 0.48535776138305664, Total Reward: 500.63873122987513, Q Loss: 1260748.3896484375, Actor Loss: -94133.76147460938  
Episode 6075: Time: 0.4929676055908203, Total Reward: 508.9054460749387, Q Loss: 1474563.6762695312, Actor Loss: -92943.72680664062  
Episode 6076: Time: 0.2814157009124756, Total Reward: 285.6985780817212, Q Loss: 801522.359375, Actor Loss: -54791.762451171875  
Episode 6077: Time: 0.3435208797454834, Total Reward: 350.50145869696325, Q Loss: 1024295.6357421875, Actor Loss: -65257.00231933594  
Episode 6078: Time: 0.32687830924987793, Total Reward: 330.6165216396482, Q Loss: 781395.5615234375, Actor Loss: -63222.776611328125  
Episode 6079: Time: 0.27526068687438965, Total Reward: 277.2182683037118, Q Loss: 750144.4484863281, Actor Loss: -52700.59143066406  
Episode 6080: Time: 0.22965383529663086, Total Reward: 230.9760654468116, Q Loss: 748736.1611328125, Actor Loss: -43039.50244140625  
Episode 6081: Time: 0.14126133918762207, Total Reward: 137.80719929031642, Q Loss: 433539.484375, Actor Loss: -28126.723999023438  
Episode 6082: Time: 0.194305419921875, Total Reward: 192.07444862994, Q Loss: 608243.99609375, Actor Loss: -37470.31237792969  
Episode 6083: Time: 0.35256385803222656, Total Reward: 360.6628544955004, Q Loss: 1052397.91015625, Actor Loss: -67696.29089355469  
Episode 6084: Time: 0.21156835556030273, Total Reward: 212.2169663106528, Q Loss: 602609.5712890625, Actor Loss: -40827.16491699219  
Episode 6085: Time: 0.3080143928527832, Total Reward: 314.6215488910605, Q Loss: 987598.642578125, Actor Loss: -59717.03662109375  
Episode 6086: Time: 0.09751653671264648, Total Reward: 91.36845147258529, Q Loss: 201680.9072265625, Actor Loss: -18246.865600585938  
Episode 6087: Time: 0.2647867202758789, Total Reward: 267.7604799168628, Q Loss: 831915.17578125, Actor Loss: -51284.993408203125  
Episode 6088: Time: 0.2032771110534668, Total Reward: 202.29007578482535, Q Loss: 475052.509765625, Actor Loss: -38377.4599609375  
Episode 6089: Time: 0.21166276931762695, Total Reward: 211.29900096417103, Q Loss: 618542.8979492188, Actor Loss: -41061.94299316406  
Episode 6090: Time: 0.25638699531555176, Total Reward: 258.8753165038928, Q Loss: 776696.3798828125, Actor Loss: -48939.27868652344  
Episode 6091: Time: 0.31060099601745605, Total Reward: 314.22986474534355, Q Loss: 997647.5234375, Actor Loss: -60146.04553222656  
Episode 6092: Time: 0.29163217544555664, Total Reward: 295.1979541094817, Q Loss: 960258.8994140625, Actor Loss: -57307.05505371094  
Episode 6093: Time: 0.2921435832977295, Total Reward: 294.6945221868523, Q Loss: 938587.3349609375, Actor Loss: -55903.26916503906  
Episode 6094: Time: 0.23850059509277344, Total Reward: 238.69866239915208, Q Loss: 757958.904296875, Actor Loss: -44893.11767578125  
Episode 6095: Time: 0.5313103199005127, Total Reward: 547.3175703940833, Q Loss: 1551307.5346679688, Actor Loss: -101350.96887207031  
Episode 6096: Time: 0.10615921020507812, Total Reward: 100.66362247668877, Q Loss: 224318.9453125, Actor Loss: -20099.94482421875  
Episode 6097: Time: 0.17712020874023438, Total Reward: 174.56120323855194, Q Loss: 536597.66015625, Actor Loss: -34408.652099609375  
Episode 6098: Time: 0.3709299564361572, Total Reward: 380.0272761749826, Q Loss: 1087551.8110351562, Actor Loss: -72843.08142089844  
Episode 6099: Time: 0.14124822616577148, Total Reward: 136.38597161942826, Q Loss: 366539.71533203125, Actor Loss: -27104.823120117188

Validation Mean: 9354.50291353751, Validation Std: 0.7556317357116245

saving model

Episode 6100: Time: 0.5308566093444824, Total Reward: 518.8441412716045, Q Loss: 1612650.33984375, Actor Loss: -98971.71997070312  
Episode 6101: Time: 0.23898744583129883, Total Reward: 240.7286636784189, Q Loss: 753640.8828125, Actor Loss: -46958.41174316406  
Episode 6102: Time: 0.211991548538208, Total Reward: 212.41525856296846, Q Loss: 508528.365234375, Actor Loss: -39901.27770996094  
Episode 6103: Time: 0.5906527042388916, Total Reward: 612.4381022642937, Q Loss: 1743660.8212890625, Actor Loss: -115593.55639648438  
Episode 6104: Time: 0.13248229026794434, Total Reward: 128.55871502613192, Q Loss: 393650.5244140625, Actor Loss: -26108.802124023438  
Episode 6105: Time: 0.16788101196289062, Total Reward: 166.03094768136705, Q Loss: 496877.099609375, Actor Loss: -32853.324951171875  
Episode 6106: Time: 0.39726829528808594, Total Reward: 404.9781638996944, Q Loss: 1269958.8271484375, Actor Loss: -78104.82971191406  
Episode 6107: Time: 0.21221089363098145, Total Reward: 210.8592560816253, Q Loss: 719718.509765625, Actor Loss: -41051.35583496094  
Episode 6108: Time: 0.24702239036560059, Total Reward: 249.8376949685814, Q Loss: 728422.7392578125, Actor Loss: -47520.595947265625  
Episode 6109: Time: 0.2212514877319336, Total Reward: 220.370851857079, Q Loss: 643026.306640625, Actor Loss: -44323.838134765625  
Episode 6110: Time: 0.18557357788085938, Total Reward: 184.53166196512785, Q Loss: 637753.8090820312, Actor Loss: -35660.73132324219  
Episode 6111: Time: 0.06288838386535645, Total Reward: 53.85675655127415, Q Loss: 206444.8681640625, Actor Loss: -11497.841674804688  
Episode 6112: Time: 0.4665110111236572, Total Reward: 482.9414196073799, Q Loss: 1270877.8842773438, Actor Loss: -91612.63562011719  
Episode 6113: Time: 0.6435768604278564, Total Reward: 665.6252308257983, Q Loss: 2074969.126953125, Actor Loss: -125747.97766113281  
Episode 6114: Time: 0.6519665718078613, Total Reward: 676.2644684560898, Q Loss: 2193678.3212890625, Actor Loss: -128917.50085449219  
Episode 6115: Time: 0.2379906177520752, Total Reward: 240.08783618619188, Q Loss: 654795.1826171875, Actor Loss: -46393.21240234375  
Episode 6116: Time: 0.1323530673980713, Total Reward: 128.46271028649076, Q Loss: 484433.4619140625, Actor Loss: -26428.055786132812  
Episode 6117: Time: 0.19429922103881836, Total Reward: 193.9921647070017, Q Loss: 595054.7548828125, Actor Loss: -38576.23864746094  
Episode 6118: Time: 0.1494734287261963, Total Reward: 147.3886584035199, Q Loss: 403585.5341796875, Actor Loss: -28928.444946289062  
Episode 6119: Time: 0.21152663230895996, Total Reward: 212.10265804600868, Q Loss: 776907.80078125, Actor Loss: -41788.93640136719  
Episode 6120: Time: 0.3195981979370117, Total Reward: 324.8881416391369, Q Loss: 907900.4301757812, Actor Loss: -63235.384033203125  
Episode 6121: Time: 0.7572536468505859, Total Reward: 789.6814425291453, Q Loss: 2086417.1083984375, Actor Loss: -150826.88708496094  
Episode 6122: Time: 0.1945970058441162, Total Reward: 192.24777001859306, Q Loss: 542607.6005859375, Actor Loss: -36992.07067871094  
Episode 6123: Time: 0.1509265899658203, Total Reward: 145.2403562005127, Q Loss: 608677.5498046875, Actor Loss: -29624.384521484375  
Episode 6124: Time: 0.3197934627532959, Total Reward: 323.7791346541431, Q Loss: 992537.6650390625, Actor Loss: -63504.93884277344  
Episode 6125: Time: 0.12362980842590332, Total Reward: 119.37717705928222, Q Loss: 376487.951171875, Actor Loss: -24462.937377929688  
Episode 6126: Time: 0.11559510231018066, Total Reward: 109.96682354717672, Q Loss: 315451.79150390625, Actor Loss: -24128.752197265625

Episode 6127: Time: 0.2224133014678955, Total Reward: 221.55353624080576, Q Loss: 778338.7509765625, Actor Loss: -44070.14782714844  
Episode 6128: Time: 0.21357107162475586, Total Reward: 211.78156018222182, Q Loss: 768745.2646484375, Actor Loss: -40825.76452636719  
Episode 6129: Time: 0.2750837802886963, Total Reward: 277.4334189172559, Q Loss: 919652.6391601562, Actor Loss: -56491.92077636719  
Episode 6130: Time: 0.15968680381774902, Total Reward: 156.30324088114065, Q Loss: 552850.4208984375, Actor Loss: -31768.510986328125  
Episode 6131: Time: 0.29265618324279785, Total Reward: 296.8807172403981, Q Loss: 1020863.9360351562, Actor Loss: -57940.33752441406  
Episode 6132: Time: 0.12446331977844238, Total Reward: 119.32922210858986, Q Loss: 406498.6572265625, Actor Loss: -24378.682006835938  
Episode 6133: Time: 0.15933585166931152, Total Reward: 156.52417735099334, Q Loss: 406211.2197265625, Actor Loss: -33074.572265625  
Episode 6134: Time: 0.19430160522460938, Total Reward: 192.551257349601, Q Loss: 454932.1171875, Actor Loss: -39423.678466796875  
Episode 6135: Time: 0.33537983894348145, Total Reward: 343.0543218666843, Q Loss: 1193329.5986328125, Actor Loss: -66512.13293457031  
Episode 6136: Time: 0.47571897506713867, Total Reward: 491.0116421570127, Q Loss: 1455116.783203125, Actor Loss: -92395.39831542969  
Episode 6137: Time: 0.07942533493041992, Total Reward: 72.15992815302278, Q Loss: 204436.5390625, Actor Loss: -15957.380493164062  
Episode 6138: Time: 0.283034086227417, Total Reward: 286.88735560502005, Q Loss: 857988.9096679688, Actor Loss: -56313.689208984375  
Episode 6139: Time: 0.2555263042449951, Total Reward: 258.6579869876642, Q Loss: 796869.2744140625, Actor Loss: -51029.87316894531  
Episode 6140: Time: 0.184950590133667, Total Reward: 181.97201430906935, Q Loss: 589845.2446289062, Actor Loss: -38750.73352050781  
Episode 6141: Time: 0.12416720390319824, Total Reward: 119.81587813997382, Q Loss: 454224.0830078125, Actor Loss: -25895.899658203125  
Episode 6142: Time: 0.2296442985534668, Total Reward: 230.8933318763765, Q Loss: 819663.7666015625, Actor Loss: -45262.25817871094  
Episode 6143: Time: 0.2206120491027832, Total Reward: 220.04537837348494, Q Loss: 739263.5419921875, Actor Loss: -43206.08312988281  
Episode 6144: Time: 0.10585880279541016, Total Reward: 100.08017900137574, Q Loss: 267459.857421875, Actor Loss: -21282.868041992188  
Episode 6145: Time: 0.10608553886413574, Total Reward: 100.76156466729844, Q Loss: 358084.33984375, Actor Loss: -21205.726684570312  
Episode 6146: Time: 0.17670106887817383, Total Reward: 174.31709190905462, Q Loss: 541630.9677734375, Actor Loss: -35739.52526855469  
Episode 6147: Time: 0.37911486625671387, Total Reward: 387.3963563536554, Q Loss: 1361611.3291015625, Actor Loss: -74424.046875  
Episode 6148: Time: 0.16721725463867188, Total Reward: 164.73586018151227, Q Loss: 630638.0498046875, Actor Loss: -33065.14709472656  
Episode 6149: Time: 0.27292847633361816, Total Reward: 276.7576494610948, Q Loss: 931175.947265625, Actor Loss: -54167.36877441406  
Episode 6150: Time: 0.2305748462677002, Total Reward: 228.71071986593694, Q Loss: 723268.1259765625, Actor Loss: -45269.21765136719  
Episode 6151: Time: 0.14161968231201172, Total Reward: 137.94781547673165, Q Loss: 462473.974609375, Actor Loss: -28787.03662109375  
Episode 6152: Time: 0.29119229316711426, Total Reward: 295.64051019835273, Q Loss: 919177.8349609375, Actor Loss: -58188.678955078125  
Episode 6153: Time: 0.24654626846313477, Total Reward: 249.66103825124785, Q Loss: 842363.8388671875, Actor Loss: -49920.92590332031  
Episode 6154: Time: 1.2415571212768555, Total Reward: 1301.5355995191624, Q Loss: 3963284.5932617188, Actor Loss: -248404.9569091797

Episode 6155: Time: 0.2909724712371826, Total Reward: 294.5080359161681, Q Loss: 1047303.22265625, Actor Loss: -57917.60168457031  
Episode 6156: Time: 0.26491689682006836, Total Reward: 268.13321399137357, Q Loss: 856517.8779296875, Actor Loss: -54082.02392578125  
Episode 6157: Time: 0.18570232391357422, Total Reward: 183.35757946988878, Q Loss: 731698.48828125, Actor Loss: -37382.795654296875  
Episode 6158: Time: 0.14189457893371582, Total Reward: 138.13414615187776, Q Loss: 465886.5615234375, Actor Loss: -28748.630615234375  
Episode 6159: Time: 0.16785836219787598, Total Reward: 164.75294197447062, Q Loss: 676000.87890625, Actor Loss: -33946.025146484375  
Episode 6160: Time: 0.38864827156066895, Total Reward: 394.8623776667385, Q Loss: 1375378.3232421875, Actor Loss: -76969.18469238281  
Episode 6161: Time: 0.28264355659484863, Total Reward: 286.31612990204746, Q Loss: 779705.8950195312, Actor Loss: -58327.178466796875  
Episode 6162: Time: 0.36151766777038574, Total Reward: 369.1892519540703, Q Loss: 1199267.2060546875, Actor Loss: -71880.07055664062  
Episode 6163: Time: 0.17647290229797363, Total Reward: 175.90842647565975, Q Loss: 564451.0419921875, Actor Loss: -36572.70642089844  
Episode 6164: Time: 0.05361795425415039, Total Reward: 44.403029014541815, Q Loss: 172292.8525390625, Actor Loss: -10590.693969726562  
Episode 6165: Time: 0.09025740623474121, Total Reward: 82.0544511875264, Q Loss: 369344.4384765625, Actor Loss: -17038.371215820312  
Episode 6166: Time: 0.3088264465332031, Total Reward: 315.0641994878574, Q Loss: 945563.2509765625, Actor Loss: -60284.6748046875  
Episode 6167: Time: 0.15938305854797363, Total Reward: 156.71952469095388, Q Loss: 392195.9521484375, Actor Loss: -32284.796508789062  
Episode 6168: Time: 0.12436914443969727, Total Reward: 119.08941128333139, Q Loss: 394163.3037109375, Actor Loss: -25517.423095703125  
Episode 6169: Time: 0.1767563819885254, Total Reward: 175.05399499501274, Q Loss: 573388.78515625, Actor Loss: -36425.1396484375  
Episode 6170: Time: 0.3182077407836914, Total Reward: 323.0874544626278, Q Loss: 1241330.2084960938, Actor Loss: -65969.65417480469  
Episode 6171: Time: 0.48498106002807617, Total Reward: 500.737446903667, Q Loss: 1571575.2861328125, Actor Loss: -98281.24755859375  
Episode 6172: Time: 0.29154086112976074, Total Reward: 295.1527087786873, Q Loss: 1277791.51171875, Actor Loss: -60048.205322265625  
Episode 6173: Time: 0.2033858299255371, Total Reward: 200.71083471216605, Q Loss: 689535.8125, Actor Loss: -40123.11486816406  
Episode 6174: Time: 0.1679060459136963, Total Reward: 165.71668878333386, Q Loss: 551198.7705078125, Actor Loss: -35177.51818847656  
Episode 6175: Time: 0.2559518814086914, Total Reward: 258.6757598136151, Q Loss: 1008393.7514648438, Actor Loss: -52815.97314453125  
Episode 6176: Time: 0.24702787399291992, Total Reward: 248.63831770358323, Q Loss: 817245.2890625, Actor Loss: -51013.81652832031  
Episode 6177: Time: 0.23867177963256836, Total Reward: 240.5292170064663, Q Loss: 757820.2822265625, Actor Loss: -48101.69665527344  
Episode 6178: Time: 0.22063636779785156, Total Reward: 219.46305357425567, Q Loss: 924849.7919921875, Actor Loss: -44374.45068359375  
Episode 6179: Time: 0.14996600151062012, Total Reward: 147.20416941285808, Q Loss: 453391.115234375, Actor Loss: -30509.316162109375  
Episode 6180: Time: 0.21212029457092285, Total Reward: 210.48183870958607, Q Loss: 670401.6923828125, Actor Loss: -43716.35986328125  
Episode 6181: Time: 0.1322765350341797, Total Reward: 127.85226142296507, Q Loss: 393765.5947265625, Actor Loss: -26996.320556640625  
Episode 6182: Time: 0.3096647262573242, Total Reward: 313.2305357124803, Q Loss: 949374.005859375, Actor Loss: -61242.59924316406

Episode 6183: Time: 0.2999589443206787, Total Reward: 305.6708134058926, Q Loss: 1012690.271484375, Actor Loss: -62018.90100097656  
Episode 6184: Time: 0.29131269454956055, Total Reward: 296.52640878505986, Q Loss: 916570.2900390625, Actor Loss: -60065.66857910156  
Episode 6185: Time: 0.15001678466796875, Total Reward: 147.4841211590581, Q Loss: 505233.2294921875, Actor Loss: -31637.080444335938  
Episode 6186: Time: 0.07106995582580566, Total Reward: 63.101131690608156, Q Loss: 274623.09765625, Actor Loss: -14406.492431640625  
Episode 6187: Time: 0.07961344718933105, Total Reward: 72.94372374636181, Q Loss: 340053.40234375, Actor Loss: -16353.40673828125  
Episode 6188: Time: 0.38812708854675293, Total Reward: 396.5383401465731, Q Loss: 1271562.68359375, Actor Loss: -80325.89880371094  
Episode 6189: Time: 0.18606305122375488, Total Reward: 183.88300402050558, Q Loss: 430069.7646484375, Actor Loss: -36709.77453613281  
Episode 6190: Time: 0.22106146812438965, Total Reward: 219.93916580740967, Q Loss: 716251.0966796875, Actor Loss: -44778.04626464844  
Episode 6191: Time: 0.25603699684143066, Total Reward: 230.2160798022533, Q Loss: 790644.07421875, Actor Loss: -45337.33349609375  
Episode 6192: Time: 0.2391963005065918, Total Reward: 238.91513341292978, Q Loss: 680099.4838867188, Actor Loss: -48565.19860839844  
Episode 6193: Time: 0.3797585964202881, Total Reward: 387.9333144047533, Q Loss: 1304682.2919921875, Actor Loss: -77346.41491699219  
Episode 6194: Time: 0.150437593460083, Total Reward: 146.6687266511886, Q Loss: 555841.6015625, Actor Loss: -30867.523681640625  
Episode 6195: Time: 0.12417721748352051, Total Reward: 119.43624796042229, Q Loss: 339750.8427734375, Actor Loss: -24981.8125  
Episode 6196: Time: 0.48721766471862793, Total Reward: 498.27992408999387, Q Loss: 1632594.556640625, Actor Loss: -99706.88256835938  
Episode 6197: Time: 0.5575883388519287, Total Reward: 576.1807925807888, Q Loss: 1628905.1206054688, Actor Loss: -114312.80847167969  
Episode 6198: Time: 0.24823904037475586, Total Reward: 248.72015244260828, Q Loss: 883445.1240234375, Actor Loss: -51450.211181640625  
Episode 6199: Time: 0.40679502487182617, Total Reward: 416.50097473158826, Q Loss: 1345553.7734375, Actor Loss: -83398.58703613281  
Validation Mean: 9355.731508147826, Validation Std: 0.8152418275226166  
saving model  
Episode 6200: Time: 0.23228001594543457, Total Reward: 229.64828701770415, Q Loss: 797042.9775390625, Actor Loss: -47924.610595703125  
Episode 6201: Time: 0.21340513229370117, Total Reward: 211.64628379303764, Q Loss: 846021.78515625, Actor Loss: -42618.766357421875  
Episode 6202: Time: 0.2304847240447998, Total Reward: 231.09916528143873, Q Loss: 812462.58984375, Actor Loss: -47085.5556640625  
Episode 6203: Time: 0.5040302276611328, Total Reward: 517.6399111688224, Q Loss: 1793666.966796875, Actor Loss: -102275.34069824219  
Episode 6204: Time: 0.19439482688903809, Total Reward: 190.72589349158125, Q Loss: 648485.111328125, Actor Loss: -40601.63439941406  
Episode 6205: Time: 0.09817624092102051, Total Reward: 91.63714672077595, Q Loss: 257988.0830078125, Actor Loss: -19687.071533203125  
Episode 6206: Time: 0.11556768417358398, Total Reward: 110.44757812874111, Q Loss: 387265.04296875, Actor Loss: -22673.985717773438  
Episode 6207: Time: 0.19520926475524902, Total Reward: 191.92345265070801, Q Loss: 698923.4404296875, Actor Loss: -40079.341552734375  
Episode 6208: Time: 0.1062018871307373, Total Reward: 100.14478198654642, Q Loss: 292435.7998046875, Actor Loss: -22127.353271484375  
Episode 6209: Time: 0.4325826168060303, Total Reward: 444.3907300692779, Q Loss: 1515062.6352539062, Actor Loss: -90230.65661621094



Episode 6210: Time: 0.12365150451660156, Total Reward: 118.73887840437847, Q Loss: 690749.69140625, Actor Loss: -25659.189697265625  
Episode 6211: Time: 0.23915576934814453, Total Reward: 240.19537594330004, Q Loss: 1002522.5712890625, Actor Loss: -49114.05139160156  
Episode 6212: Time: 0.42676639556884766, Total Reward: 436.5112557046778, Q Loss: 1485605.916015625, Actor Loss: -87689.36181640625  
Episode 6213: Time: 0.1677260398864746, Total Reward: 165.50452274941944, Q Loss: 762496.46875, Actor Loss: -35893.02197265625  
Episode 6214: Time: 0.283433198928833, Total Reward: 286.37314380879184, Q Loss: 1271430.4365234375, Actor Loss: -60226.70910644531  
Episode 6215: Time: 0.2736024856567383, Total Reward: 277.7756748288315, Q Loss: 1031981.0322265625, Actor Loss: -56049.05798339844  
Episode 6216: Time: 0.24722814559936523, Total Reward: 249.6511090833004, Q Loss: 890812.6396484375, Actor Loss: -50909.84033203125  
Episode 6217: Time: 0.40656375885009766, Total Reward: 415.2817261895386, Q Loss: 1564907.2177734375, Actor Loss: -84870.82238769531  
Episode 6218: Time: 0.21218109130859375, Total Reward: 211.5962661133176, Q Loss: 868260.8212890625, Actor Loss: -43982.18078613281  
Episode 6219: Time: 0.41475653648376465, Total Reward: 423.2746313732908, Q Loss: 1426023.583984375, Actor Loss: -85097.26550292969  
Episode 6220: Time: 0.3718295097351074, Total Reward: 379.7906704381666, Q Loss: 1142582.4287109375, Actor Loss: -77703.78588867188  
Episode 6221: Time: 0.53033447265625, Total Reward: 547.8537475068318, Q Loss: 1745111.6274414062, Actor Loss: -110003.62756347656  
Episode 6222: Time: 0.41540050506591797, Total Reward: 424.425573389792, Q Loss: 1518202.2075195312, Actor Loss: -86730.52209472656  
Episode 6223: Time: 0.32725954055786133, Total Reward: 333.2449037051602, Q Loss: 1298091.9814453125, Actor Loss: -67948.58032226562  
Episode 6224: Time: 0.9278509616851807, Total Reward: 967.0384109501226, Q Loss: 2960778.9799804688, Actor Loss: -190555.1026611328  
Episode 6225: Time: 0.26603031158447266, Total Reward: 266.30212449252724, Q Loss: 821872.7783203125, Actor Loss: -56355.79602050781  
Episode 6226: Time: 0.0888204574584961, Total Reward: 82.05838683342377, Q Loss: 305092.1123046875, Actor Loss: -18156.23291015625  
Episode 6227: Time: 0.12438321113586426, Total Reward: 119.00390337642756, Q Loss: 451027.9833984375, Actor Loss: -25411.232299804688  
Episode 6228: Time: 0.17712712287902832, Total Reward: 174.45474679256955, Q Loss: 615534.4208984375, Actor Loss: -37177.52685546875  
Episode 6229: Time: 0.28374218940734863, Total Reward: 287.04322476245767, Q Loss: 1228272.255859375, Actor Loss: -60769.841796875  
Episode 6230: Time: 0.07971644401550293, Total Reward: 72.67112200483015, Q Loss: 220073.4140625, Actor Loss: -16664.2177734375  
Episode 6231: Time: 0.25649309158325195, Total Reward: 256.156774546132, Q Loss: 921086.3955078125, Actor Loss: -54123.47009277344  
Episode 6232: Time: 0.22153782844543457, Total Reward: 222.1353012972834, Q Loss: 1047323.427734375, Actor Loss: -47946.1416015625  
Episode 6233: Time: 0.20384526252746582, Total Reward: 203.39794575820983, Q Loss: 802145.146484375, Actor Loss: -43359.73400878906  
Episode 6234: Time: 0.11523199081420898, Total Reward: 110.17450496237608, Q Loss: 287002.5537109375, Actor Loss: -23295.21533203125  
Episode 6235: Time: 0.16860270500183105, Total Reward: 166.00929807047225, Q Loss: 579240.4951171875, Actor Loss: -36500.6923828125  
Episode 6236: Time: 0.2747535705566406, Total Reward: 276.1400543583155, Q Loss: 1118575.4287109375, Actor Loss: -58226.76135253906  
Episode 6237: Time: 0.21284055709838867, Total Reward: 211.52173276847807, Q Loss: 859969.37890625, Actor Loss: -44732.615966796875

Episode 6238: Time: 0.4242854118347168, Total Reward: 436.3951554658201, Q Loss: 1530088.9755859375, Actor Loss: -87724.24865722656  
Episode 6239: Time: 0.19450640678405762, Total Reward: 193.48331725247525, Q Loss: 792979.095703125, Actor Loss: -41206.954833984375  
Episode 6240: Time: 0.08923530578613281, Total Reward: 81.81719664500073, Q Loss: 366527.802734375, Actor Loss: -18673.26123046875  
Episode 6241: Time: 0.15916132926940918, Total Reward: 155.4016224076091, Q Loss: 538600.4267578125, Actor Loss: -33958.20837402344  
Episode 6242: Time: 0.08055305480957031, Total Reward: 72.13669320344178, Q Loss: 271961.2880859375, Actor Loss: -17218.236450195312  
Episode 6243: Time: 0.15957117080688477, Total Reward: 156.54004954981824, Q Loss: 385370.3837890625, Actor Loss: -33611.779541015625  
Episode 6244: Time: 0.4086599349975586, Total Reward: 417.09095504051834, Q Loss: 1364729.859375, Actor Loss: -85936.82531738281  
Episode 6245: Time: 0.48621535301208496, Total Reward: 501.1685485644177, Q Loss: 1881161.5263671875, Actor Loss: -103823.00366210938  
Episode 6246: Time: 0.22144556045532227, Total Reward: 221.28854214698885, Q Loss: 751043.052734375, Actor Loss: -45593.9375  
Episode 6247: Time: 0.26505374908447266, Total Reward: 267.45997937141425, Q Loss: 906659.498046875, Actor Loss: -54751.954833984375  
Episode 6248: Time: 0.31023573875427246, Total Reward: 314.409085311625, Q Loss: 1022392.5610351562, Actor Loss: -65316.81628417969  
Episode 6249: Time: 0.15109944343566895, Total Reward: 146.79563815347393, Q Loss: 584737.982421875, Actor Loss: -32132.947265625  
Episode 6250: Time: 0.23108577728271484, Total Reward: 230.01627553489857, Q Loss: 751033.1650390625, Actor Loss: -48348.251708984375  
Episode 6251: Time: 0.14160799980163574, Total Reward: 137.22361059889607, Q Loss: 684916.1669921875, Actor Loss: -29714.20166015625  
Episode 6252: Time: 0.1688838005065918, Total Reward: 166.1226329846354, Q Loss: 707047.9404296875, Actor Loss: -35045.051513671875  
Episode 6253: Time: 0.2128591537475586, Total Reward: 211.95833829718805, Q Loss: 817457.1293945312, Actor Loss: -45598.80920410156  
Episode 6254: Time: 0.4542806148529053, Total Reward: 416.17403599970913, Q Loss: 1527090.5595703125, Actor Loss: -85535.67895507812  
Episode 6255: Time: 0.48891258239746094, Total Reward: 407.455490508881, Q Loss: 1444172.2705078125, Actor Loss: -84865.09887695312  
Episode 6256: Time: 0.08719635009765625, Total Reward: 62.76073013534481, Q Loss: 370465.185546875, Actor Loss: -15183.653198242188  
Episode 6257: Time: 0.1635732650756836, Total Reward: 126.4526842856486, Q Loss: 504907.39453125, Actor Loss: -28949.409790039062  
Episode 6258: Time: 0.3589763641357422, Total Reward: 294.37949239900956, Q Loss: 918711.4521484375, Actor Loss: -60720.52478027344  
Episode 6259: Time: 0.28256893157958984, Total Reward: 230.05911283704899, Q Loss: 740810.1206054688, Actor Loss: -47305.66613769531  
Episode 6260: Time: 0.46649622917175293, Total Reward: 388.896171458799, Q Loss: 1194962.515625, Actor Loss: -80041.26586914062  
Episode 6261: Time: 0.22816061973571777, Total Reward: 184.57762619725597, Q Loss: 757166.6181640625, Actor Loss: -38374.6865234375  
Episode 6262: Time: 0.6832871437072754, Total Reward: 574.2076114022465, Q Loss: 2032895.3916015625, Actor Loss: -116401.67529296875  
Episode 6263: Time: 0.17363238334655762, Total Reward: 136.6144010683668, Q Loss: 384040.638671875, Actor Loss: -30525.731689453125  
Episode 6264: Time: 0.2606799602508545, Total Reward: 211.51707414224092, Q Loss: 657646.2158203125, Actor Loss: -44509.10437011719  
Episode 6265: Time: 0.27140092849731445, Total Reward: 220.4400466888958, Q Loss: 839954.912109375, Actor Loss: -47168.061279296875

Episode 6266: Time: 0.23865890502929688, Total Reward: 192.5704390935077, Q Loss: 802222.68359375, Actor Loss: -42171.21044921875  
Episode 6267: Time: 0.5094006061553955, Total Reward: 426.6882082849799, Q Loss: 1582929.9765625, Actor Loss: -89818.23815917969  
Episode 6268: Time: 0.4661381244659424, Total Reward: 388.7176135551643, Q Loss: 1454713.060546875, Actor Loss: -79112.525390625  
Episode 6269: Time: 0.3362002372741699, Total Reward: 276.2280620526852, Q Loss: 1079397.9814453125, Actor Loss: -59435.260498046875  
Episode 6270: Time: 0.30365943908691406, Total Reward: 248.68559956470037, Q Loss: 1112861.2587890625, Actor Loss: -53169.42138671875  
Episode 6271: Time: 0.2600860595703125, Total Reward: 212.5686068183386, Q Loss: 715115.404296875, Actor Loss: -45283.02697753906  
Episode 6272: Time: 0.1624431610107422, Total Reward: 128.16104158637054, Q Loss: 474018.48828125, Actor Loss: -27841.9619140625  
Episode 6273: Time: 0.3688371181488037, Total Reward: 306.40142700863106, Q Loss: 1047674.3349609375, Actor Loss: -65351.46838378906  
Episode 6274: Time: 0.2606170177459717, Total Reward: 209.67775443507708, Q Loss: 711895.6181640625, Actor Loss: -44920.737548828125  
Episode 6275: Time: 0.2604992389678955, Total Reward: 211.73608800277395, Q Loss: 666360.0908203125, Actor Loss: -46075.58642578125  
Episode 6276: Time: 0.6182429790496826, Total Reward: 519.7652764972011, Q Loss: 1845280.3798828125, Actor Loss: -109724.89282226562  
Episode 6277: Time: 0.7588536739349365, Total Reward: 640.7001905479782, Q Loss: 2482171.4462890625, Actor Loss: -132962.22827148438  
Episode 6278: Time: 0.4772508144378662, Total Reward: 398.54098711225686, Q Loss: 1647608.5380859375, Actor Loss: -82941.05676269531  
Episode 6279: Time: 0.7592649459838867, Total Reward: 639.8046628778726, Q Loss: 2063885.19140625, Actor Loss: -133221.3009033203  
Episode 6280: Time: 0.1522829532623291, Total Reward: 119.18749385086689, Q Loss: 440001.9853515625, Actor Loss: -26671.7568359375  
Episode 6281: Time: 0.19578886032104492, Total Reward: 156.17992728692596, Q Loss: 683219.9443359375, Actor Loss: -35211.99206542969  
Episode 6282: Time: 0.379899263381958, Total Reward: 313.3798524784014, Q Loss: 1140290.9755859375, Actor Loss: -65826.85986328125  
Episode 6283: Time: 0.26035499572753906, Total Reward: 212.59854471726734, Q Loss: 752658.4541015625, Actor Loss: -46146.794677734375  
Episode 6284: Time: 0.10880494117736816, Total Reward: 81.71882621755296, Q Loss: 234788.3857421875, Actor Loss: -18383.159057617188  
Episode 6285: Time: 0.36834239959716797, Total Reward: 304.91477858506346, Q Loss: 1031088.3564453125, Actor Loss: -65843.66943359375  
Episode 6286: Time: 0.47736597061157227, Total Reward: 398.25684136228654, Q Loss: 1345447.025390625, Actor Loss: -85519.26843261719  
Episode 6287: Time: 0.20642733573913574, Total Reward: 166.05068294361698, Q Loss: 621218.0810546875, Actor Loss: -38083.030517578125  
Episode 6288: Time: 0.40088844299316406, Total Reward: 331.71821722228833, Q Loss: 1054323.236328125, Actor Loss: -71899.59875488281  
Episode 6289: Time: 1.1381990909576416, Total Reward: 965.90327831481, Q Loss: 3598041.1811523438, Actor Loss: -201712.88537597656  
Episode 6290: Time: 0.19629502296447754, Total Reward: 152.23048199647377, Q Loss: 633960.771484375, Actor Loss: -34849.667236328125  
Episode 6291: Time: 0.12005782127380371, Total Reward: 91.19817318300426, Q Loss: 417570.587890625, Actor Loss: -20884.94384765625  
Episode 6292: Time: 0.0762014389038086, Total Reward: 53.81301381662085, Q Loss: 260969.5029296875, Actor Loss: -13864.346557617188  
Episode 6293: Time: 0.369229793548584, Total Reward: 303.5605174628424, Q Loss: 1107083.9814453125, Actor Loss: -66966.03039550781

Episode 6294: Time: 0.19544339179992676, Total Reward: 156.61572639674333, Q Loss: 523245.49609375, Actor Loss: -34552.87561035156  
Episode 6295: Time: 0.3588409423828125, Total Reward: 295.7145531591503, Q Loss: 987757.0673828125, Actor Loss: -63165.68225097656  
Episode 6296: Time: 0.9437730312347412, Total Reward: 798.6583397903274, Q Loss: 2664597.0263671875, Actor Loss: -168381.96997070312  
Episode 6297: Time: 0.24991154670715332, Total Reward: 201.4532295285467, Q Loss: 823738.208984375, Actor Loss: -45273.13732910156  
Episode 6298: Time: 0.5851078033447266, Total Reward: 491.4942508953755, Q Loss: 1884694.2626953125, Actor Loss: -105431.72399902344  
Episode 6299: Time: 0.32531023025512695, Total Reward: 265.64462525152084, Q Loss: 972613.873046875, Actor Loss: -58174.292236328125  
Validation Mean: 9355.357669778276, Validation Std: 0.9824871331961887  
saving model  
Episode 6300: Time: 0.30325794219970703, Total Reward: 240.4459128120795, Q Loss: 939193.953125, Actor Loss: -53011.4580078125  
Episode 6301: Time: 0.29831886291503906, Total Reward: 239.74024716291953, Q Loss: 961524.970703125, Actor Loss: -51025.28649902344  
Episode 6302: Time: 0.37288689613342285, Total Reward: 305.5798246150172, Q Loss: 1367675.3330078125, Actor Loss: -64579.02038574219  
Episode 6303: Time: 0.31726551055908203, Total Reward: 257.0306108447234, Q Loss: 1021041.515625, Actor Loss: -55448.69372558594  
Episode 6304: Time: 0.2728400230407715, Total Reward: 222.2166302529943, Q Loss: 1038330.8671875, Actor Loss: -48065.58605957031  
Episode 6305: Time: 0.43549561500549316, Total Reward: 358.48023574997154, Q Loss: 1309439.3759765625, Actor Loss: -78958.91979980469  
Episode 6306: Time: 0.10915422439575195, Total Reward: 81.59366546840955, Q Loss: 381823.9951171875, Actor Loss: -19042.331420898438  
Episode 6307: Time: 0.6075766086578369, Total Reward: 508.8603327585313, Q Loss: 1688005.2939453125, Actor Loss: -107455.60314941406  
Episode 6308: Time: 0.23957467079162598, Total Reward: 192.36911348297863, Q Loss: 799997.8388671875, Actor Loss: -41828.13244628906  
Episode 6309: Time: 0.33733034133911133, Total Reward: 277.1476937656861, Q Loss: 1124512.669921875, Actor Loss: -59905.70751953125  
Episode 6310: Time: 0.3148226737976074, Total Reward: 258.7593461051424, Q Loss: 931357.5673828125, Actor Loss: -56980.16882324219  
Episode 6311: Time: 0.18489909172058105, Total Reward: 146.23179415487218, Q Loss: 681480.884765625, Actor Loss: -32468.047485351562  
Episode 6312: Time: 0.36905670166015625, Total Reward: 305.6662655386591, Q Loss: 1183276.662109375, Actor Loss: -65461.087890625  
Episode 6313: Time: 0.21763873100280762, Total Reward: 175.3341195599539, Q Loss: 645252.341796875, Actor Loss: -38654.82849121094  
Episode 6314: Time: 0.25046563148498535, Total Reward: 203.48112492511052, Q Loss: 654640.0751953125, Actor Loss: -45738.79846191406  
Episode 6315: Time: 0.3907759189605713, Total Reward: 323.77607977201137, Q Loss: 1123896.7734375, Actor Loss: -70506.03137207031  
Episode 6316: Time: 0.29317736625671387, Total Reward: 239.6715144252359, Q Loss: 953271.1103515625, Actor Loss: -50302.05224609375  
Episode 6317: Time: 0.33649492263793945, Total Reward: 277.14292639228773, Q Loss: 1059010.912109375, Actor Loss: -61483.69885253906  
Episode 6318: Time: 0.4124734401702881, Total Reward: 342.4501470047475, Q Loss: 1216194.462890625, Actor Loss: -74551.99304199219  
Episode 6319: Time: 0.4663715362548828, Total Reward: 385.5865258587485, Q Loss: 1452802.8852539062, Actor Loss: -83327.26403808594  
Episode 6320: Time: 0.3268611431121826, Total Reward: 267.77439747296523, Q Loss: 862361.4794921875, Actor Loss: -59125.63488769531

Episode 6321: Time: 0.39070844650268555, Total Reward: 324.0814403026705, Q Loss: 1419863.287109375, Actor Loss: -68544.56396484375  
Episode 6322: Time: 0.08717584609985352, Total Reward: 63.1273461531968, Q Loss: 234837.98046875, Actor Loss: -16268.683349609375  
Episode 6323: Time: 0.26081252098083496, Total Reward: 209.83293217204783, Q Loss: 1020580.462890625, Actor Loss: -46924.89685058594  
Episode 6324: Time: 0.2601947784423828, Total Reward: 212.0875421961742, Q Loss: 783868.74609375, Actor Loss: -47396.18225097656  
Episode 6325: Time: 0.379410982131958, Total Reward: 315.2815209092685, Q Loss: 1305391.2421875, Actor Loss: -67672.75524902344  
Episode 6326: Time: 0.3038949966430664, Total Reward: 249.67161696044786, Q Loss: 845586.0322265625, Actor Loss: -55814.748291015625  
Episode 6327: Time: 0.23907160758972168, Total Reward: 193.41969355151355, Q Loss: 688295.3466796875, Actor Loss: -42068.46142578125  
Episode 6328: Time: 0.2714359760284424, Total Reward: 220.03196806866836, Q Loss: 893173.912109375, Actor Loss: -49583.73046875  
Episode 6329: Time: 0.30472397804260254, Total Reward: 248.87146381015432, Q Loss: 868620.2822265625, Actor Loss: -53129.39318847656  
Episode 6330: Time: 0.11956501007080078, Total Reward: 91.18169905964223, Q Loss: 305490.6669921875, Actor Loss: -22224.92236328125  
Episode 6331: Time: 0.184739351272583, Total Reward: 146.50320349108654, Q Loss: 561735.576171875, Actor Loss: -31451.591796875  
Episode 6332: Time: 0.433591365814209, Total Reward: 361.4183177238055, Q Loss: 1535963.107421875, Actor Loss: -79711.3251953125  
Episode 6333: Time: 0.40125370025634766, Total Reward: 331.9299762343476, Q Loss: 1383422.685546875, Actor Loss: -73066.02758789062  
Episode 6334: Time: 0.20624876022338867, Total Reward: 166.42296647725155, Q Loss: 564903.5302734375, Actor Loss: -36291.74523925781  
Episode 6335: Time: 0.09765052795410156, Total Reward: 72.6273613495277, Q Loss: 393132.140625, Actor Loss: -17368.38232421875  
Episode 6336: Time: 0.17381072044372559, Total Reward: 137.516522716732, Q Loss: 605234.1484375, Actor Loss: -30397.1923828125  
Episode 6337: Time: 0.08708977699279785, Total Reward: 63.34923232208284, Q Loss: 265155.8203125, Actor Loss: -15696.881469726562  
Episode 6338: Time: 0.596203088760376, Total Reward: 499.50603963362477, Q Loss: 2089495.302734375, Actor Loss: -108710.95324707031  
Episode 6339: Time: 0.20661020278930664, Total Reward: 164.5848090391013, Q Loss: 510417.7080078125, Actor Loss: -36911.33288574219  
Episode 6340: Time: 0.412212610244751, Total Reward: 341.0326887103871, Q Loss: 1496856.650390625, Actor Loss: -75072.83508300781  
Episode 6341: Time: 0.5847904682159424, Total Reward: 492.90011929542976, Q Loss: 2218320.0107421875, Actor Loss: -105894.17590332031  
Episode 6342: Time: 0.32543158531188965, Total Reward: 266.1385870645928, Q Loss: 1114181.5087890625, Actor Loss: -59822.86669921875  
Episode 6343: Time: 0.3363971710205078, Total Reward: 276.71509212981823, Q Loss: 1240287.376953125, Actor Loss: -61325.84228515625  
Episode 6344: Time: 0.21787333488464355, Total Reward: 174.82620712717784, Q Loss: 590127.99609375, Actor Loss: -38436.705078125  
Episode 6345: Time: 0.3257720470428467, Total Reward: 265.0922520805543, Q Loss: 1103835.0703125, Actor Loss: -57630.65051269531  
Episode 6346: Time: 0.2928481101989746, Total Reward: 240.00176535988172, Q Loss: 839608.1171875, Actor Loss: -53923.627685546875  
Episode 6347: Time: 0.2931854724884033, Total Reward: 239.98718115786846, Q Loss: 1059158.2060546875, Actor Loss: -53987.281494140625  
Episode 6348: Time: 0.8555710315704346, Total Reward: 722.0700301877258, Q Loss: 3035667.5029296875, Actor Loss: -155809.6240234375

Episode 6349: Time: 0.36942458152770996, Total Reward: 305.6247278297331, Q Loss: 1202563.126953125, Actor Loss: -68864.29418945312  
Episode 6350: Time: 0.477170467376709, Total Reward: 398.169964937892, Q Loss: 1582059.138671875, Actor Loss: -86306.69592285156  
Episode 6351: Time: 0.19587492942810059, Total Reward: 156.0184671039582, Q Loss: 591470.453125, Actor Loss: -35775.618408203125  
Episode 6352: Time: 0.15236711502075195, Total Reward: 119.13566752295797, Q Loss: 456346.3125, Actor Loss: -28634.097900390625  
Episode 6353: Time: 0.466372013092041, Total Reward: 389.5758266922318, Q Loss: 1599680.0107421875, Actor Loss: -84530.23474121094  
Episode 6354: Time: 0.28208208084106445, Total Reward: 229.79546723740907, Q Loss: 998520.4638671875, Actor Loss: -52280.477294921875  
Episode 6355: Time: 0.7162747383117676, Total Reward: 601.9872775836086, Q Loss: 2637515.3984375, Actor Loss: -128822.75915527344  
Episode 6356: Time: 0.23945069313049316, Total Reward: 192.40197748096506, Q Loss: 1006015.6708984375, Actor Loss: -44847.084716796875  
Episode 6357: Time: 0.19556069374084473, Total Reward: 155.78489618818537, Q Loss: 512637.98388671875, Actor Loss: -36383.77868652344  
Episode 6358: Time: 0.21837902069091797, Total Reward: 171.5168221403468, Q Loss: 880374.48828125, Actor Loss: -37622.11572265625  
Episode 6359: Time: 0.7589139938354492, Total Reward: 640.8994008373442, Q Loss: 2987898.83203125, Actor Loss: -139893.80700683594  
Episode 6360: Time: 0.21717047691345215, Total Reward: 175.07683977246666, Q Loss: 642665.4306640625, Actor Loss: -38879.74865722656  
Episode 6361: Time: 0.5314967632293701, Total Reward: 442.99860548547707, Q Loss: 1763776.7646484375, Actor Loss: -98566.34313964844  
Episode 6362: Time: 0.28290390968322754, Total Reward: 228.53205049319575, Q Loss: 1034022.73828125, Actor Loss: -51762.282470703125  
Episode 6363: Time: 0.1736927032470703, Total Reward: 138.45084275719, Q Loss: 651902.580078125, Actor Loss: -31677.401489257812  
Episode 6364: Time: 0.3473660945892334, Total Reward: 284.43137903102894, Q Loss: 1357654.814453125, Actor Loss: -64213.273681640625  
Episode 6365: Time: 0.28217101097106934, Total Reward: 229.13001901871175, Q Loss: 1057429.9189453125, Actor Loss: -52899.43298339844  
Episode 6366: Time: 0.4008829593658447, Total Reward: 333.38590880952273, Q Loss: 1556315.7705078125, Actor Loss: -75800.6904296875  
Episode 6367: Time: 0.11999773979187012, Total Reward: 91.83165340129106, Q Loss: 417919.6259765625, Actor Loss: -21807.17822265625  
Episode 6368: Time: 0.19608688354492188, Total Reward: 156.0088313294396, Q Loss: 604586.203125, Actor Loss: -36946.38623046875  
Episode 6369: Time: 0.28229355812072754, Total Reward: 229.55024812358914, Q Loss: 1092541.0927734375, Actor Loss: -50614.34094238281  
Episode 6370: Time: 0.7700867652893066, Total Reward: 648.4551437427901, Q Loss: 2802791.8046875, Actor Loss: -140704.0936279297  
Episode 6371: Time: 0.33696961402893066, Total Reward: 276.11886727218854, Q Loss: 832428.2543945312, Actor Loss: -62936.51550292969  
Episode 6372: Time: 0.7272660732269287, Total Reward: 613.2350706581717, Q Loss: 2543778.5712890625, Actor Loss: -132633.1435546875  
Episode 6373: Time: 0.13052725791931152, Total Reward: 100.46243711862238, Q Loss: 326488.3837890625, Actor Loss: -23510.990356445312  
Episode 6374: Time: 0.45612263679504395, Total Reward: 378.95174642109674, Q Loss: 1472225.7392578125, Actor Loss: -84667.85461425781  
Episode 6375: Time: 0.14137887954711914, Total Reward: 109.89777207311064, Q Loss: 450424.6484375, Actor Loss: -26568.916137695312  
Episode 6376: Time: 0.43492555618286133, Total Reward: 361.7338462103938, Q Loss: 1805857.712890625, Actor Loss: -79758.51928710938

Episode 6377: Time: 0.29387450218200684, Total Reward: 239.2757330404836, Q Loss: 817204.8173828125, Actor Loss: -52736.5859375  
Episode 6378: Time: 0.17403769493103027, Total Reward: 137.98425060640741, Q Loss: 462798.0009765625, Actor Loss: -33719.15759277344  
Episode 6379: Time: 0.1092376708984375, Total Reward: 81.63674400065392, Q Loss: 372838.056640625, Actor Loss: -19246.889282226562  
Episode 6380: Time: 0.5868496894836426, Total Reward: 491.701327306051, Q Loss: 2163922.64453125, Actor Loss: -110556.67858886719  
Episode 6381: Time: 0.10902523994445801, Total Reward: 81.60328699229497, Q Loss: 403649.564453125, Actor Loss: -20752.471313476562  
Episode 6382: Time: 0.2828974723815918, Total Reward: 228.2546234877371, Q Loss: 932879.287109375, Actor Loss: -52126.437255859375  
Episode 6383: Time: 0.10897636413574219, Total Reward: 81.46504972060306, Q Loss: 275817.4677734375, Actor Loss: -20046.672119140625  
Episode 6384: Time: 0.71620774269104, Total Reward: 602.9672151096124, Q Loss: 2648243.0087890625, Actor Loss: -133676.2283935547  
Episode 6385: Time: 0.4883594512939453, Total Reward: 407.4716086074509, Q Loss: 1615999.6044921875, Actor Loss: -91987.1943359375  
Episode 6386: Time: 0.3912622928619385, Total Reward: 322.7075641336912, Q Loss: 1177777.6044921875, Actor Loss: -72482.44799804688  
Episode 6387: Time: 0.31514978408813477, Total Reward: 259.00164529294307, Q Loss: 1010438.9541015625, Actor Loss: -58603.86315917969  
Episode 6388: Time: 0.5096678733825684, Total Reward: 427.42771348292337, Q Loss: 2069487.9970703125, Actor Loss: -95360.86389160156  
Episode 6389: Time: 0.8771488666534424, Total Reward: 741.5942774419235, Q Loss: 3102366.51171875, Actor Loss: -163116.48754882812  
Episode 6390: Time: 0.3795919418334961, Total Reward: 314.6508966969316, Q Loss: 1236464.8803710938, Actor Loss: -69547.47058105469  
Episode 6391: Time: 0.34759068489074707, Total Reward: 286.42086711271645, Q Loss: 1291885.0849609375, Actor Loss: -64834.22900390625  
Episode 6392: Time: 0.8892624378204346, Total Reward: 750.2083682257704, Q Loss: 3465692.2783203125, Actor Loss: -164764.01037597656  
Episode 6393: Time: 0.14127850532531738, Total Reward: 110.1368619682632, Q Loss: 677813.216796875, Actor Loss: -26344.580932617188  
Episode 6394: Time: 0.3477439880371094, Total Reward: 285.9437920714201, Q Loss: 1040815.3134765625, Actor Loss: -65304.64855957031  
Episode 6395: Time: 0.39085984230041504, Total Reward: 323.88387517456516, Q Loss: 1399369.7578125, Actor Loss: -73330.28198242188  
Episode 6396: Time: 0.347261905670166, Total Reward: 286.99082352770216, Q Loss: 1198265.3076171875, Actor Loss: -65482.701416015625  
Episode 6397: Time: 0.45497584342956543, Total Reward: 378.99605041383336, Q Loss: 1593902.6162109375, Actor Loss: -87418.66784667969  
Episode 6398: Time: 0.6171185970306396, Total Reward: 519.0130136695725, Q Loss: 2256282.751953125, Actor Loss: -116336.13110351562  
Episode 6399: Time: 0.43367624282836914, Total Reward: 361.07600426714436, Q Loss: 1514478.03125, Actor Loss: -80882.20227050781  
Validation Mean: 9355.033264630427, Validation Std: 0.9218239933873618  
saving model  
Episode 6400: Time: 0.39290690422058105, Total Reward: 324.59545497659605, Q Loss: 1174686.4248046875, Actor Loss: -75869.44909667969  
Episode 6401: Time: 0.2946052551269531, Total Reward: 238.48298184447214, Q Loss: 970617.4892578125, Actor Loss: -54598.17980957031  
Episode 6402: Time: 0.27252984046936035, Total Reward: 220.96793793556162, Q Loss: 976402.4829101562, Actor Loss: -52050.868408203125  
Episode 6403: Time: 0.25033092498779297, Total Reward: 202.6394123981311, Q Loss: 782630.681640625, Actor Loss: -46865.77233886719

Episode 6404: Time: 0.3256075382232666, Total Reward: 268.5022727634084, Q Loss: 1197228.34375, Actor Loss: -60701.72521972656  
Episode 6405: Time: 0.42345690727233887, Total Reward: 352.79159427516214, Q Loss: 1264813.9892578125, Actor Loss: -82034.12854003906  
Episode 6406: Time: 0.336073637008667, Total Reward: 277.25532617497606, Q Loss: 1271761.041015625, Actor Loss: -65248.402587890625  
Episode 6407: Time: 0.36870861053466797, Total Reward: 304.85167876612, Q Loss: 1419297.033203125, Actor Loss: -68481.34680175781  
Episode 6408: Time: 0.11939454078674316, Total Reward: 90.5872515509065, Q Loss: 500880.5693359375, Actor Loss: -23319.10888671875  
Episode 6409: Time: 0.29394102096557617, Total Reward: 239.745424454718, Q Loss: 931914.677734375, Actor Loss: -55472.547119140625  
Episode 6410: Time: 0.4782600402832031, Total Reward: 398.10556785301924, Q Loss: 1976837.4912109375, Actor Loss: -88979.56005859375  
Episode 6411: Time: 0.2611536979675293, Total Reward: 212.37815916380893, Q Loss: 836471.2314453125, Actor Loss: -49343.91564941406  
Episode 6412: Time: 0.45591139793395996, Total Reward: 377.4675894186212, Q Loss: 1719562.966796875, Actor Loss: -85885.44079589844  
Episode 6413: Time: 0.6509597301483154, Total Reward: 545.7958187043649, Q Loss: 2355989.3779296875, Actor Loss: -125085.98229980469  
Episode 6414: Time: 0.22820067405700684, Total Reward: 182.76368186346713, Q Loss: 751326.4921875, Actor Loss: -43281.9912109375  
Episode 6415: Time: 0.24993610382080078, Total Reward: 203.7766333597185, Q Loss: 904703.1455078125, Actor Loss: -47679.42297363281  
Episode 6416: Time: 0.34743571281433105, Total Reward: 286.0861225328947, Q Loss: 1219126.5888671875, Actor Loss: -65670.94201660156  
Episode 6417: Time: 0.38095712661743164, Total Reward: 314.85081919755896, Q Loss: 1271398.4775390625, Actor Loss: -71060.29919433594  
Episode 6418: Time: 0.20642399787902832, Total Reward: 164.8414255607892, Q Loss: 786724.40625, Actor Loss: -38204.57604980469  
Episode 6419: Time: 0.22841644287109375, Total Reward: 184.7083550920256, Q Loss: 802152.197265625, Actor Loss: -44427.6279296875  
Episode 6420: Time: 0.18462061882019043, Total Reward: 147.17770240910608, Q Loss: 619017.263671875, Actor Loss: -34854.722412109375  
Episode 6421: Time: 0.488339900970459, Total Reward: 406.292321376904, Q Loss: 2030284.5107421875, Actor Loss: -94829.99816894531  
Episode 6422: Time: 0.16317248344421387, Total Reward: 128.7041434353247, Q Loss: 540648.708984375, Actor Loss: -29953.238525390625  
Episode 6423: Time: 0.18493914604187012, Total Reward: 147.0426048151675, Q Loss: 631351.828125, Actor Loss: -35025.318359375  
Episode 6424: Time: 0.1636502742767334, Total Reward: 129.0932503473127, Q Loss: 606648.5078125, Actor Loss: -31793.50732421875  
Episode 6425: Time: 0.12040209770202637, Total Reward: 91.34486525816288, Q Loss: 367919.6796875, Actor Loss: -22808.518676757812  
Episode 6426: Time: 0.2730062007904053, Total Reward: 221.49888288423298, Q Loss: 947629.1201171875, Actor Loss: -52895.96923828125  
Episode 6427: Time: 0.1308600902557373, Total Reward: 100.8208109540128, Q Loss: 383042.1328125, Actor Loss: -25354.053955078125  
Episode 6428: Time: 0.20720958709716797, Total Reward: 166.0702937282077, Q Loss: 795842.833984375, Actor Loss: -39541.201416015625  
Episode 6429: Time: 0.14161205291748047, Total Reward: 108.47039458525303, Q Loss: 448888.75, Actor Loss: -28041.472045898438  
Episode 6430: Time: 0.1417708396911621, Total Reward: 110.21882336634913, Q Loss: 479811.421875, Actor Loss: -27291.824584960938  
Episode 6431: Time: 0.3903028964996338, Total Reward: 322.1275869359828, Q Loss: 1416367.8486328125, Actor Loss: -73721.01306152344



Episode 6432: Time: 0.11952733993530273, Total Reward: 90.92156074318034, Q Loss: 397753.416015625, Actor Loss: -22742.750366210938  
Episode 6433: Time: 0.29335737228393555, Total Reward: 240.02894233946117, Q Loss: 1274959.1010742188, Actor Loss: -56939.13977050781  
Episode 6434: Time: 0.304196834564209, Total Reward: 250.19954407824073, Q Loss: 1076302.5087890625, Actor Loss: -57473.560791015625  
Episode 6435: Time: 0.2607870101928711, Total Reward: 211.72452936498155, Q Loss: 787258.4423828125, Actor Loss: -49631.07080078125  
Episode 6436: Time: 0.8562459945678711, Total Reward: 724.0752385580863, Q Loss: 3126331.5283203125, Actor Loss: -168022.4520263672  
Episode 6437: Time: 0.3578360080718994, Total Reward: 295.9117277589722, Q Loss: 1324833.96875, Actor Loss: -70017.90222167969  
Episode 6438: Time: 0.390824556350708, Total Reward: 324.2122672901604, Q Loss: 1433631.0224609375, Actor Loss: -75474.81945800781  
Episode 6439: Time: 0.41236019134521484, Total Reward: 343.5602881036171, Q Loss: 1590800.79296875, Actor Loss: -80139.35388183594  
Episode 6440: Time: 0.4018371105194092, Total Reward: 332.63048429769816, Q Loss: 1903285.3432617188, Actor Loss: -76839.3037109375  
Episode 6441: Time: 1.07283616065979, Total Reward: 912.1036099117882, Q Loss: 4057019.8583984375, Actor Loss: -209783.2265625  
Episode 6442: Time: 0.20766711235046387, Total Reward: 164.11491100747432, Q Loss: 808234.3793945312, Actor Loss: -38792.437744140625  
Episode 6443: Time: 1.0503544807434082, Total Reward: 892.4829571169976, Q Loss: 3489939.8413085938, Actor Loss: -205770.30236816406  
Episode 6444: Time: 0.30353283882141113, Total Reward: 246.45058974023513, Q Loss: 1062033.111328125, Actor Loss: -61157.82824707031  
Episode 6445: Time: 0.14114761352539062, Total Reward: 109.79605640414066, Q Loss: 532463.255859375, Actor Loss: -27711.791625976562  
Episode 6446: Time: 0.1633138656616211, Total Reward: 127.64743042773674, Q Loss: 650391.9365234375, Actor Loss: -32468.219116210938  
Episode 6447: Time: 0.45647692680358887, Total Reward: 379.9789611691774, Q Loss: 1958814.216796875, Actor Loss: -87991.50146484375  
Episode 6448: Time: 0.36879825592041016, Total Reward: 306.24185857341024, Q Loss: 1220517.0029296875, Actor Loss: -69510.22534179688  
Episode 6449: Time: 0.6510639190673828, Total Reward: 546.6785558332814, Q Loss: 2503624.35546875, Actor Loss: -125610.94274902344  
Episode 6450: Time: 0.6614253520965576, Total Reward: 553.4128950624525, Q Loss: 2174855.751953125, Actor Loss: -129706.42248535156  
Episode 6451: Time: 0.6175756454467773, Total Reward: 517.8537943569136, Q Loss: 2086394.8559570312, Actor Loss: -120570.43762207031  
Episode 6452: Time: 0.17381572723388672, Total Reward: 138.4624772733148, Q Loss: 867733.6953125, Actor Loss: -32850.529541015625  
Episode 6453: Time: 0.17419886589050293, Total Reward: 138.18834620050777, Q Loss: 803740.953125, Actor Loss: -34143.994384765625  
Episode 6454: Time: 0.19562983512878418, Total Reward: 156.32034646111532, Q Loss: 795203.416015625, Actor Loss: -38622.67919921875  
Episode 6455: Time: 0.0983119010925293, Total Reward: 72.46071542778733, Q Loss: 389697.8232421875, Actor Loss: -18866.749267578125  
Episode 6456: Time: 0.32569360733032227, Total Reward: 267.8062901056668, Q Loss: 1280840.5419921875, Actor Loss: -64166.67614746094  
Episode 6457: Time: 0.6287398338317871, Total Reward: 530.1575048894157, Q Loss: 2128517.8349609375, Actor Loss: -123951.87976074219  
Episode 6458: Time: 0.09772634506225586, Total Reward: 72.98731906876921, Q Loss: 527490.55078125, Actor Loss: -18378.916870117188  
Episode 6459: Time: 0.4335794448852539, Total Reward: 360.3636946279298, Q Loss: 2015518.1181640625, Actor Loss: -85614.83264160156

Episode 6460: Time: 0.3363940715789795, Total Reward: 277.2448220318783, Q Loss: 1313386.2255859375, Actor Loss: -64957.361572265625  
Episode 6461: Time: 0.9101431369781494, Total Reward: 771.2710380522576, Q Loss: 3536294.9013671875, Actor Loss: -178894.09704589844  
Episode 6462: Time: 0.26074767112731934, Total Reward: 211.17979107996402, Q Loss: 903915.6875, Actor Loss: -50440.37341308594  
Episode 6463: Time: 0.14130258560180664, Total Reward: 109.40353689368249, Q Loss: 584160.44921875, Actor Loss: -27319.759155273438  
Episode 6464: Time: 0.3903944492340088, Total Reward: 323.224327962406, Q Loss: 1741813.5068359375, Actor Loss: -77241.03833007812  
Episode 6465: Time: 0.1952509880065918, Total Reward: 155.09162671912725, Q Loss: 739601.5283203125, Actor Loss: -39278.20837402344  
Episode 6466: Time: 0.3476526737213135, Total Reward: 285.9739782192854, Q Loss: 1496570.3623046875, Actor Loss: -67334.22131347656  
Episode 6467: Time: 0.18457627296447754, Total Reward: 147.10974144308707, Q Loss: 661558.873046875, Actor Loss: -35022.634033203125  
Episode 6468: Time: 0.27197813987731934, Total Reward: 220.91022008032652, Q Loss: 996174.9091796875, Actor Loss: -52866.77294921875  
Episode 6469: Time: 0.14118313789367676, Total Reward: 109.9321747065607, Q Loss: 649540.884765625, Actor Loss: -27407.904907226562  
Episode 6470: Time: 0.42330408096313477, Total Reward: 350.89822769814896, Q Loss: 2006596.6865234375, Actor Loss: -82325.25  
Episode 6471: Time: 0.3584291934967041, Total Reward: 294.19788513326444, Q Loss: 1380362.3310546875, Actor Loss: -69969.95739746094  
Episode 6472: Time: 0.2934989929199219, Total Reward: 239.2980784253885, Q Loss: 898930.0087890625, Actor Loss: -57630.36474609375  
Episode 6473: Time: 0.2495872974395752, Total Reward: 202.48542646332652, Q Loss: 982691.1748046875, Actor Loss: -49632.41247558594  
Episode 6474: Time: 0.61802077293396, Total Reward: 518.6891961874572, Q Loss: 2296586.6884765625, Actor Loss: -122711.04138183594  
Episode 6475: Time: 0.5859725475311279, Total Reward: 490.11092928442883, Q Loss: 2604600.939453125, Actor Loss: -117546.14636230469  
Episode 6476: Time: 0.22824764251708984, Total Reward: 183.95318831312915, Q Loss: 837059.7705078125, Actor Loss: -44061.389892578125  
Episode 6477: Time: 0.10903048515319824, Total Reward: 82.09856827408667, Q Loss: 457786.416015625, Actor Loss: -21071.1005859375  
Episode 6478: Time: 0.5316915512084961, Total Reward: 441.48131407113704, Q Loss: 2342983.7021484375, Actor Loss: -105266.6162109375  
Episode 6479: Time: 0.2500739097595215, Total Reward: 203.0758291179421, Q Loss: 1027376.7021484375, Actor Loss: -49372.87512207031  
Episode 6480: Time: 0.2940347194671631, Total Reward: 237.94073719082294, Q Loss: 1161438.634765625, Actor Loss: -55872.072021484375  
Episode 6481: Time: 0.2503488063812256, Total Reward: 202.95221155046815, Q Loss: 839687.6162109375, Actor Loss: -48553.025390625  
Episode 6482: Time: 0.379901647567749, Total Reward: 314.7223071466583, Q Loss: 1569719.4384765625, Actor Loss: -73725.48779296875  
Episode 6483: Time: 0.6284713745117188, Total Reward: 529.1872805854804, Q Loss: 2657976.9892578125, Actor Loss: -127479.83251953125  
Episode 6484: Time: 0.26022982597351074, Total Reward: 210.994942547713, Q Loss: 1078265.251953125, Actor Loss: -53228.50988769531  
Episode 6485: Time: 0.09774303436279297, Total Reward: 72.56342960498591, Q Loss: 312899.7734375, Actor Loss: -20451.029052734375  
Episode 6486: Time: 0.27147459983825684, Total Reward: 220.19287233582108, Q Loss: 1359340.67578125, Actor Loss: -54574.33728027344  
Episode 6487: Time: 0.4994666576385498, Total Reward: 416.93880158842927, Q Loss: 1721952.857421875, Actor Loss: -99025.27368164062

Episode 6488: Time: 0.17414188385009766, Total Reward: 138.00657647622415, Q Loss: 632951.9189453125, Actor Loss: -34755.21350097656  
Episode 6489: Time: 0.34740686416625977, Total Reward: 287.11207144832383, Q Loss: 1231123.51953125, Actor Loss: -67557.30249023438  
Episode 6490: Time: 0.41401171684265137, Total Reward: 341.34901289251536, Q Loss: 1561062.4228515625, Actor Loss: -82574.3818359375  
Episode 6491: Time: 0.12024760246276855, Total Reward: 91.52063080325647, Q Loss: 584406.4609375, Actor Loss: -24815.19384765625  
Episode 6492: Time: 0.7934515476226807, Total Reward: 668.01642765521, Q Loss: 2906711.6748046875, Actor Loss: -163045.73461914062  
Episode 6493: Time: 0.23955821990966797, Total Reward: 193.68871747985847, Q Loss: 855589.4970703125, Actor Loss: -47469.57409667969  
Episode 6494: Time: 0.15240931510925293, Total Reward: 116.38157460542102, Q Loss: 439797.59375, Actor Loss: -29250.9658203125  
Episode 6495: Time: 0.2608938217163086, Total Reward: 211.77039971943188, Q Loss: 1054726.35546875, Actor Loss: -51865.32092285156  
Episode 6496: Time: 0.3477203845977783, Total Reward: 284.4842338161959, Q Loss: 1682090.2626953125, Actor Loss: -69717.72717285156  
Episode 6497: Time: 0.16327500343322754, Total Reward: 128.62749684327122, Q Loss: 451257.486328125, Actor Loss: -31462.48974609375  
Episode 6498: Time: 0.3477790355682373, Total Reward: 284.94218491207545, Q Loss: 1247977.939453125, Actor Loss: -68099.94165039062  
Episode 6499: Time: 0.3378722667694092, Total Reward: 276.5764190635772, Q Loss: 1431663.314453125, Actor Loss: -68131.93017578125  
Validation Mean: 9355.287601638127, Validation Std: 0.5432721765042965  
saving model  
Episode 6500: Time: 0.25184202194213867, Total Reward: 202.7695317602926, Q Loss: 1229031.240234375, Actor Loss: -49905.20520019531  
Episode 6501: Time: 0.5426688194274902, Total Reward: 454.2143914394872, Q Loss: 2598694.337890625, Actor Loss: -105521.15893554688  
Episode 6502: Time: 0.42360424995422363, Total Reward: 350.94641245266905, Q Loss: 1504354.431640625, Actor Loss: -83834.26696777344  
Episode 6503: Time: 0.3371713161468506, Total Reward: 276.46274195011887, Q Loss: 1306263.515625, Actor Loss: -68666.5029296875  
Episode 6504: Time: 0.14122462272644043, Total Reward: 110.31824372725222, Q Loss: 552605.03515625, Actor Loss: -29090.448974609375  
Episode 6505: Time: 0.45583319664001465, Total Reward: 378.33478203477483, Q Loss: 1852700.64453125, Actor Loss: -92611.513671875  
Episode 6506: Time: 0.3153355121612549, Total Reward: 256.40715439772043, Q Loss: 1274855.45703125, Actor Loss: -62630.17138671875  
Episode 6507: Time: 0.2064673900604248, Total Reward: 165.1044139446876, Q Loss: 662571.248046875, Actor Loss: -40636.53918457031  
Episode 6508: Time: 0.3259854316711426, Total Reward: 268.25945274288716, Q Loss: 1223835.271484375, Actor Loss: -66434.36755371094  
Episode 6509: Time: 0.4883859157562256, Total Reward: 407.54684145163867, Q Loss: 1981144.15234375, Actor Loss: -99146.69140625  
Episode 6510: Time: 0.6314094066619873, Total Reward: 529.603279354939, Q Loss: 2893022.24609375, Actor Loss: -124668.00500488281  
Episode 6511: Time: 0.32578372955322266, Total Reward: 266.9105624027738, Q Loss: 1471335.205078125, Actor Loss: -66666.35705566406  
Episode 6512: Time: 0.29354166984558105, Total Reward: 239.5685757400648, Q Loss: 1198004.921875, Actor Loss: -59690.82275390625  
Episode 6513: Time: 0.25032925605773926, Total Reward: 202.78636322959295, Q Loss: 989709.658203125, Actor Loss: -49975.8671875  
Episode 6514: Time: 0.10879302024841309, Total Reward: 81.66365912795368, Q Loss: 236719.921875, Actor Loss: -21617.841674804688

Episode 6515: Time: 0.3584883213043213, Total Reward: 295.17850809771363, Q Loss: 1414337.1845703125, Actor Loss: -73604.26245117188  
Episode 6516: Time: 0.09794402122497559, Total Reward: 72.63432993977361, Q Loss: 338626.015625, Actor Loss: -19754.285400390625  
Episode 6517: Time: 0.4344661235809326, Total Reward: 359.4718369161133, Q Loss: 1540002.453125, Actor Loss: -89488.34484863281  
Episode 6518: Time: 0.09797334671020508, Total Reward: 72.51309813524303, Q Loss: 411620.056640625, Actor Loss: -19129.80029296875  
Episode 6519: Time: 0.6942543983459473, Total Reward: 583.69230968305, Q Loss: 3226027.814453125, Actor Loss: -139396.15759277344  
Episode 6520: Time: 0.3148691654205322, Total Reward: 258.18365004618533, Q Loss: 1196273.583984375, Actor Loss: -62721.21520996094  
Episode 6521: Time: 0.2286701202392578, Total Reward: 183.71809736032375, Q Loss: 1220986.80078125, Actor Loss: -45754.69140625  
Episode 6522: Time: 0.18436837196350098, Total Reward: 146.37061787555842, Q Loss: 771694.560546875, Actor Loss: -37739.91320800781  
Episode 6523: Time: 0.27170896530151367, Total Reward: 217.08548263784866, Q Loss: 822939.279296875, Actor Loss: -56581.939453125  
Episode 6524: Time: 0.16306138038635254, Total Reward: 128.8499518080899, Q Loss: 776883.451171875, Actor Loss: -33969.59362792969  
Episode 6525: Time: 0.13102293014526367, Total Reward: 100.80902699858653, Q Loss: 557970.62890625, Actor Loss: -26741.74267578125  
Episode 6526: Time: 0.13050580024719238, Total Reward: 99.83653650690394, Q Loss: 647085.7109375, Actor Loss: -27271.031982421875  
Episode 6527: Time: 0.38025569915771484, Total Reward: 313.5082056711776, Q Loss: 1746841.673828125, Actor Loss: -78322.91870117188  
Episode 6528: Time: 0.2175006866455078, Total Reward: 174.2353453731941, Q Loss: 703033.1474609375, Actor Loss: -43633.91516113281  
Episode 6529: Time: 0.30483150482177734, Total Reward: 246.58041416923024, Q Loss: 1135883.8037109375, Actor Loss: -62093.63000488281  
Episode 6530: Time: 0.19567322731018066, Total Reward: 157.23406844510353, Q Loss: 649248.837890625, Actor Loss: -39829.58581542969  
Episode 6531: Time: 0.1308121681213379, Total Reward: 100.26144352153243, Q Loss: 469500.9453125, Actor Loss: -27781.43603515625  
Episode 6532: Time: 0.44560885429382324, Total Reward: 369.3048742223293, Q Loss: 1888119.521484375, Actor Loss: -93128.86926269531  
Episode 6533: Time: 0.4451272487640381, Total Reward: 370.653405855319, Q Loss: 1977446.916015625, Actor Loss: -89326.79248046875  
Episode 6534: Time: 0.09790349006652832, Total Reward: 72.9103313097266, Q Loss: 431239.05078125, Actor Loss: -20127.054565429688  
Episode 6535: Time: 0.3478374481201172, Total Reward: 284.85413013709314, Q Loss: 1449599.1552734375, Actor Loss: -70263.90625  
Episode 6536: Time: 0.6938514709472656, Total Reward: 583.0334501505996, Q Loss: 2666411.3779296875, Actor Loss: -139430.20935058594  
Episode 6537: Time: 0.28226709365844727, Total Reward: 231.14451063231695, Q Loss: 981991.0283203125, Actor Loss: -56999.33654785156  
Episode 6538: Time: 0.1953890323638916, Total Reward: 156.14165892628864, Q Loss: 937547.154296875, Actor Loss: -39803.454345703125  
Episode 6539: Time: 0.48891544342041016, Total Reward: 407.41761090197105, Q Loss: 1936158.9521484375, Actor Loss: -98363.61108398438  
Episode 6540: Time: 0.29335927963256836, Total Reward: 238.81409106279983, Q Loss: 1299102.796875, Actor Loss: -61065.19970703125  
Episode 6541: Time: 0.25008463859558105, Total Reward: 202.5384240839586, Q Loss: 1011652.275390625, Actor Loss: -51763.49865722656  
Episode 6542: Time: 0.152191162109375, Total Reward: 119.24532139898373, Q Loss: 765176.6669921875, Actor Loss: -31935.898803710938

Episode 6543: Time: 0.0987386703491211, Total Reward: 71.84654470583224, Q Loss: 311309.6904296875, Actor Loss: -19290.71337890625  
Episode 6544: Time: 0.15192198753356934, Total Reward: 119.35740726431816, Q Loss: 680685.701171875, Actor Loss: -31600.052001953125  
Episode 6545: Time: 0.31507372856140137, Total Reward: 257.1100622101789, Q Loss: 1292256.50390625, Actor Loss: -65418.38342285156  
Episode 6546: Time: 0.33756184577941895, Total Reward: 273.82727414727384, Q Loss: 1560961.8154296875, Actor Loss: -69062.55017089844  
Episode 6547: Time: 0.4556567668914795, Total Reward: 377.9624794917305, Q Loss: 2000202.228515625, Actor Loss: -91801.73291015625  
Episode 6548: Time: 0.38129520416259766, Total Reward: 314.7997355923977, Q Loss: 1665344.015625, Actor Loss: -76981.80456542969  
Episode 6549: Time: 0.20679426193237305, Total Reward: 166.13758389729122, Q Loss: 851926.8212890625, Actor Loss: -42727.31335449219  
Episode 6550: Time: 0.32598090171813965, Total Reward: 267.71540626089285, Q Loss: 1237004.009765625, Actor Loss: -65792.15368652344  
Episode 6551: Time: 0.1739482879638672, Total Reward: 137.06987594079078, Q Loss: 575750.357421875, Actor Loss: -36359.2109375  
Episode 6552: Time: 0.16378188133239746, Total Reward: 127.89881049435999, Q Loss: 482535.6220703125, Actor Loss: -33720.08154296875  
Episode 6553: Time: 0.18477201461791992, Total Reward: 146.95854708348284, Q Loss: 894673.73828125, Actor Loss: -39236.38928222656  
Episode 6554: Time: 0.6402080059051514, Total Reward: 535.7708916972048, Q Loss: 3222536.1552734375, Actor Loss: -132136.8623046875  
Episode 6555: Time: 0.17396879196166992, Total Reward: 138.20511108285675, Q Loss: 637161.53515625, Actor Loss: -35007.422607421875  
Episode 6556: Time: 0.25024962425231934, Total Reward: 202.96482261148395, Q Loss: 955980.630859375, Actor Loss: -50534.185791015625  
Episode 6557: Time: 0.5421562194824219, Total Reward: 453.82174105630975, Q Loss: 2422684.537109375, Actor Loss: -112509.01281738281  
Episode 6558: Time: 0.17363762855529785, Total Reward: 137.40090405260236, Q Loss: 672147.359375, Actor Loss: -36146.80822753906  
Episode 6559: Time: 0.3585503101348877, Total Reward: 294.51893116033625, Q Loss: 1689133.3125, Actor Loss: -72782.24719238281  
Episode 6560: Time: 0.2932252883911133, Total Reward: 239.9992691861591, Q Loss: 1194395.0703125, Actor Loss: -59505.694091796875  
Episode 6561: Time: 0.34825682640075684, Total Reward: 285.9183333990418, Q Loss: 1743154.10546875, Actor Loss: -71782.86401367188  
Episode 6562: Time: 0.15262198448181152, Total Reward: 119.65094112146315, Q Loss: 666787.3115234375, Actor Loss: -29826.292358398438  
Episode 6563: Time: 0.5325150489807129, Total Reward: 443.4697014401002, Q Loss: 2208480.29296875, Actor Loss: -108706.63537597656  
Episode 6564: Time: 0.30466175079345703, Total Reward: 248.85262121857753, Q Loss: 1372888.2822265625, Actor Loss: -61847.051513671875  
Episode 6565: Time: 0.32655906677246094, Total Reward: 267.8535589611797, Q Loss: 1179998.3896484375, Actor Loss: -68730.81945800781  
Episode 6566: Time: 0.3261222839355469, Total Reward: 268.2571049331381, Q Loss: 1275924.9521484375, Actor Loss: -68001.23425292969  
Episode 6567: Time: 0.09800410270690918, Total Reward: 72.56055242425974, Q Loss: 519172.154296875, Actor Loss: -20859.8740234375  
Episode 6568: Time: 0.1526346206665039, Total Reward: 119.71499094991273, Q Loss: 511971.4052734375, Actor Loss: -31459.621337890625  
Episode 6569: Time: 0.26099538803100586, Total Reward: 211.63231474394624, Q Loss: 939925.345703125, Actor Loss: -53921.22399902344  
Episode 6570: Time: 0.35799551010131836, Total Reward: 296.5007799524146, Q Loss: 1362340.11328125, Actor Loss: -72725.26867675781

Episode 6571: Time: 0.09807872772216797, Total Reward: 72.79919254019363, Q Loss: 327917.8349609375, Actor Loss: -20901.884765625  
Episode 6572: Time: 0.4894285202026367, Total Reward: 408.02381770203556, Q Loss: 2266683.92578125, Actor Loss: -101554.37048339844  
Episode 6573: Time: 0.1630399227142334, Total Reward: 127.8672827330912, Q Loss: 698115.0, Actor Loss: -33840.256103515625  
Episode 6574: Time: 0.26088380813598633, Total Reward: 212.610003403271, Q Loss: 1344114.236328125, Actor Loss: -53120.30419921875  
Episode 6575: Time: 0.8781583309173584, Total Reward: 742.2785940890026, Q Loss: 3750231.193359375, Actor Loss: -180336.7784423828  
Episode 6576: Time: 0.17354702949523926, Total Reward: 137.46829229242414, Q Loss: 710373.4375, Actor Loss: -35759.74499511719  
Episode 6577: Time: 0.26099562644958496, Total Reward: 211.33784176351574, Q Loss: 1029279.6630859375, Actor Loss: -53174.74694824219  
Episode 6578: Time: 0.1196904182434082, Total Reward: 91.19616979939832, Q Loss: 659069.21484375, Actor Loss: -24315.6591796875  
Episode 6579: Time: 0.10942745208740234, Total Reward: 81.85421139145193, Q Loss: 405161.0205078125, Actor Loss: -23715.215087890625  
Episode 6580: Time: 0.27259182929992676, Total Reward: 219.35057708664255, Q Loss: 1380238.28515625, Actor Loss: -58481.336669921875  
Episode 6581: Time: 0.22830533981323242, Total Reward: 183.21080800978882, Q Loss: 1008339.3173828125, Actor Loss: -46373.90576171875  
Episode 6582: Time: 0.45598697662353516, Total Reward: 378.65902001450905, Q Loss: 1905761.05859375, Actor Loss: -96934.58154296875  
Episode 6583: Time: 0.14143753051757812, Total Reward: 109.99315555512486, Q Loss: 540490.5146484375, Actor Loss: -30146.90283203125  
Episode 6584: Time: 0.1093897819519043, Total Reward: 81.75275824834436, Q Loss: 497695.5185546875, Actor Loss: -21314.052978515625  
Episode 6585: Time: 0.3699202537536621, Total Reward: 305.29916129094505, Q Loss: 1550856.603515625, Actor Loss: -76222.48034667969  
Episode 6586: Time: 0.564223051071167, Total Reward: 471.9375583238627, Q Loss: 2551828.7470703125, Actor Loss: -117160.240234375  
Episode 6587: Time: 0.2610132694244385, Total Reward: 208.9920841613147, Q Loss: 1240834.939453125, Actor Loss: -55047.02282714844  
Episode 6588: Time: 0.39194750785827637, Total Reward: 323.5400246272756, Q Loss: 1727002.5986328125, Actor Loss: -78725.650390625  
Episode 6589: Time: 0.2288041114807129, Total Reward: 184.4844864959302, Q Loss: 1204322.0439453125, Actor Loss: -46607.476806640625  
Episode 6590: Time: 0.901047945022583, Total Reward: 761.3608513905388, Q Loss: 4353348.6240234375, Actor Loss: -189660.837890625  
Episode 6591: Time: 0.3045952320098877, Total Reward: 250.20933889468435, Q Loss: 1254845.220703125, Actor Loss: -63089.202392578125  
Episode 6592: Time: 0.7597768306732178, Total Reward: 641.4748151530673, Q Loss: 3342502.1259765625, Actor Loss: -158558.58374023438  
Episode 6593: Time: 0.21792221069335938, Total Reward: 173.04640221166574, Q Loss: 932518.6796875, Actor Loss: -44394.003173828125  
Episode 6594: Time: 0.8562228679656982, Total Reward: 723.9120065157546, Q Loss: 4129250.412109375, Actor Loss: -181820.0743408203  
Episode 6595: Time: 0.18450236320495605, Total Reward: 146.48327939462305, Q Loss: 771830.326171875, Actor Loss: -39545.12268066406  
Episode 6596: Time: 0.30419087409973145, Total Reward: 248.56980277523766, Q Loss: 1239361.75390625, Actor Loss: -65291.080078125  
Episode 6597: Time: 0.29352283477783203, Total Reward: 239.67011113525845, Q Loss: 1425740.4111328125, Actor Loss: -61378.31396484375  
Episode 6598: Time: 0.34775257110595703, Total Reward: 286.21598502210026, Q Loss: 1450101.8125, Actor Loss: -73328.17651367188

Episode 6599: Time: 0.29362034797668457, Total Reward: 239.07513444848993, Q Loss: 1630089.36328125, Actor Loss: -61789.94873046875  
Validation Mean: 9355.67897402771, Validation Std: 0.7311685913604228  
saving model  
Episode 6600: Time: 0.14279699325561523, Total Reward: 110.07237207346691, Q Loss: 617493.1826171875, Actor Loss: -30213.189697265625  
Episode 6601: Time: 0.3155033588409424, Total Reward: 259.0518943063019, Q Loss: 1198711.556640625, Actor Loss: -66929.90954589844  
Episode 6602: Time: 0.21794772148132324, Total Reward: 173.68846978989822, Q Loss: 1006337.5029296875, Actor Loss: -44469.38610839844  
Episode 6603: Time: 0.3911168575286865, Total Reward: 324.58413461534616, Q Loss: 1588567.49609375, Actor Loss: -82628.53173828125  
Episode 6604: Time: 0.30442047119140625, Total Reward: 248.21918511573347, Q Loss: 1321551.7255859375, Actor Loss: -64428.51025390625  
Episode 6605: Time: 0.2929878234863281, Total Reward: 239.92528307226226, Q Loss: 1295507.595703125, Actor Loss: -61150.8583984375  
Episode 6606: Time: 0.2825782299041748, Total Reward: 230.86578532035676, Q Loss: 1550498.435546875, Actor Loss: -59821.027099609375  
Episode 6607: Time: 0.24985527992248535, Total Reward: 202.14736537530933, Q Loss: 1036179.201171875, Actor Loss: -53166.15319824219  
Episode 6608: Time: 0.14121699333190918, Total Reward: 110.1350647689608, Q Loss: 677257.669921875, Actor Loss: -29891.317626953125  
Episode 6609: Time: 0.1308591365814209, Total Reward: 100.86714585166712, Q Loss: 508911.802734375, Actor Loss: -28320.99267578125  
Episode 6610: Time: 0.38039660453796387, Total Reward: 314.6628218676012, Q Loss: 1769809.2978515625, Actor Loss: -79734.73522949219  
Episode 6611: Time: 0.43453216552734375, Total Reward: 360.16400032384126, Q Loss: 2362609.3994140625, Actor Loss: -94296.61730957031  
Episode 6612: Time: 0.11957263946533203, Total Reward: 91.50089540393057, Q Loss: 456469.58203125, Actor Loss: -24387.484375  
Episode 6613: Time: 0.3152616024017334, Total Reward: 255.7639963357053, Q Loss: 1398767.38671875, Actor Loss: -66779.68237304688  
Episode 6614: Time: 0.4889194965362549, Total Reward: 407.2027232338528, Q Loss: 2085006.62109375, Actor Loss: -102416.95422363281  
Episode 6615: Time: 0.49906396865844727, Total Reward: 416.14357828722393, Q Loss: 2286437.8310546875, Actor Loss: -106068.32885742188  
Episode 6616: Time: 0.22836589813232422, Total Reward: 184.16991764498863, Q Loss: 900070.6650390625, Actor Loss: -46000.10266113281  
Episode 6617: Time: 0.31531476974487305, Total Reward: 258.8719667492884, Q Loss: 1531031.39453125, Actor Loss: -69653.78918457031  
Episode 6618: Time: 0.41291022300720215, Total Reward: 340.1265310536961, Q Loss: 2172850.5029296875, Actor Loss: -88942.56225585938  
Episode 6619: Time: 0.5866742134094238, Total Reward: 489.90077027562796, Q Loss: 2686117.66015625, Actor Loss: -122461.03479003906  
Episode 6620: Time: 0.17429876327514648, Total Reward: 137.99159543289738, Q Loss: 811437.740234375, Actor Loss: -36826.696044921875  
Episode 6621: Time: 0.13101744651794434, Total Reward: 100.59107620872784, Q Loss: 667219.20703125, Actor Loss: -26999.936401367188  
Episode 6622: Time: 0.20692086219787598, Total Reward: 164.97331582108993, Q Loss: 1020482.609375, Actor Loss: -44299.78369140625  
Episode 6623: Time: 0.2505667209625244, Total Reward: 201.91318353177533, Q Loss: 977134.916015625, Actor Loss: -52849.12927246094  
Episode 6624: Time: 0.6841232776641846, Total Reward: 575.172111403207, Q Loss: 3171572.2841796875, Actor Loss: -142873.3973388672  
Episode 6625: Time: 0.5101838111877441, Total Reward: 425.05102903946533, Q Loss: 2400272.2353515625, Actor Loss: -108395.25048828125

Episode 6626: Time: 0.28241920471191406, Total Reward: 230.50408057796403, Q Loss: 1296286.154296875, Actor Loss: -60261.58361816406  
Episode 6627: Time: 0.5544474124908447, Total Reward: 462.695856062415, Q Loss: 2265229.6962890625, Actor Loss: -118298.83471679688  
Episode 6628: Time: 0.14189410209655762, Total Reward: 109.49429672850381, Q Loss: 643813.5625, Actor Loss: -30817.208251953125  
Episode 6629: Time: 0.3379034996032715, Total Reward: 275.4361044848804, Q Loss: 1817376.859375, Actor Loss: -72429.88659667969  
Episode 6630: Time: 0.27309346199035645, Total Reward: 220.013387544086, Q Loss: 1272681.244140625, Actor Loss: -60057.286865234375  
Episode 6631: Time: 0.12008857727050781, Total Reward: 90.9451538767042, Q Loss: 451968.71875, Actor Loss: -26516.1875  
Episode 6632: Time: 0.1638936996459961, Total Reward: 128.46037127794617, Q Loss: 790271.23046875, Actor Loss: -34586.597412109375  
Episode 6633: Time: 0.3593025207519531, Total Reward: 295.22846243950386, Q Loss: 1823792.806640625, Actor Loss: -78124.38305664062  
Episode 6634: Time: 0.20705032348632812, Total Reward: 165.55735331869099, Q Loss: 958918.5830078125, Actor Loss: -42977.10498046875  
Episode 6635: Time: 0.6623077392578125, Total Reward: 556.0390501036857, Q Loss: 2855117.7607421875, Actor Loss: -141385.34008789062  
Episode 6636: Time: 0.16287779808044434, Total Reward: 127.36103574969474, Q Loss: 779573.779296875, Actor Loss: -34596.6796875  
Episode 6637: Time: 0.38081955909729004, Total Reward: 313.83081744157687, Q Loss: 2118823.275390625, Actor Loss: -80467.25891113281  
Episode 6638: Time: 0.19620180130004883, Total Reward: 156.6118942120065, Q Loss: 860123.130859375, Actor Loss: -41576.159912109375  
Episode 6639: Time: 0.2720756530761719, Total Reward: 221.35006139231686, Q Loss: 1657799.064453125, Actor Loss: -58060.21350097656  
Episode 6640: Time: 0.3157308101654053, Total Reward: 258.26712280000039, Q Loss: 1424596.46484375, Actor Loss: -69314.7412109375  
Episode 6641: Time: 0.3048372268676758, Total Reward: 247.6967925413458, Q Loss: 1197886.333984375, Actor Loss: -66016.8271484375  
Episode 6642: Time: 0.15221500396728516, Total Reward: 118.84153290985664, Q Loss: 705605.21875, Actor Loss: -34138.654052734375  
Episode 6643: Time: 0.08755326271057129, Total Reward: 63.43822507442794, Q Loss: 290383.7333984375, Actor Loss: -19485.052734375  
Episode 6644: Time: 0.3910484313964844, Total Reward: 323.6483871830845, Q Loss: 1530345.591796875, Actor Loss: -83952.75634765625  
Episode 6645: Time: 0.4233205318450928, Total Reward: 352.2824796778024, Q Loss: 1810783.337890625, Actor Loss: -91617.01684570312  
Episode 6646: Time: 0.2293407917022705, Total Reward: 182.61878150446967, Q Loss: 1087895.8955078125, Actor Loss: -48635.06311035156  
Episode 6647: Time: 0.16295146942138672, Total Reward: 129.0646794249752, Q Loss: 844717.865234375, Actor Loss: -35921.29052734375  
Episode 6648: Time: 0.9543519020080566, Total Reward: 804.2868587065099, Q Loss: 4464083.75, Actor Loss: -207308.2010498047  
Episode 6649: Time: 0.13047432899475098, Total Reward: 100.02188710643178, Q Loss: 413429.091796875, Actor Loss: -27679.285400390625  
Episode 6650: Time: 0.4344298839569092, Total Reward: 360.8265967530096, Q Loss: 1927881.9169921875, Actor Loss: -94369.79968261719  
Episode 6651: Time: 0.08713579177856445, Total Reward: 62.766686707628935, Q Loss: 416785.607421875, Actor Loss: -18138.318237304688  
Episode 6652: Time: 0.39131975173950195, Total Reward: 323.76201069960877, Q Loss: 1390366.201171875, Actor Loss: -87216.79541015625  
Episode 6653: Time: 0.8691942691802979, Total Reward: 732.5833022662492, Q Loss: 3751770.140625, Actor Loss: -187900.2587890625



Episode 6654: Time: 0.3801295757293701, Total Reward: 315.7930434639776, Q Loss: 1435748.482421875, Actor Loss: -85352.59033203125  
Episode 6655: Time: 0.6514344215393066, Total Reward: 548.7051241265514, Q Loss: 2846559.279296875, Actor Loss: -140886.8056640625  
Episode 6656: Time: 0.15227961540222168, Total Reward: 119.25693139917126, Q Loss: 943899.71484375, Actor Loss: -33119.46728515625  
Episode 6657: Time: 0.5976028442382812, Total Reward: 500.8558572124998, Q Loss: 3199507.92578125, Actor Loss: -129483.75549316406  
Episode 6658: Time: 0.18488359451293945, Total Reward: 147.44552131263004, Q Loss: 661996.35546875, Actor Loss: -39991.734130859375  
Episode 6659: Time: 0.22873425483703613, Total Reward: 183.88911448414757, Q Loss: 1157137.599609375, Actor Loss: -48947.56042480469  
Episode 6660: Time: 0.16302752494812012, Total Reward: 128.7302330105183, Q Loss: 751855.58984375, Actor Loss: -35628.23583984375  
Episode 6661: Time: 0.3694620132446289, Total Reward: 304.29731401574384, Q Loss: 2113311.9453125, Actor Loss: -80432.31811523438  
Episode 6662: Time: 0.2608206272125244, Total Reward: 212.45731963315205, Q Loss: 1230809.23828125, Actor Loss: -57539.61364746094  
Episode 6663: Time: 0.1089327335357666, Total Reward: 81.82909310158884, Q Loss: 518742.880859375, Actor Loss: -23417.510498046875  
Episode 6664: Time: 0.0871737003326416, Total Reward: 63.093814776244926, Q Loss: 366407.326171875, Actor Loss: -19644.693359375  
Episode 6665: Time: 0.6074659824371338, Total Reward: 508.49631495002484, Q Loss: 2705412.56640625, Actor Loss: -134925.17346191406  
Episode 6666: Time: 0.17391061782836914, Total Reward: 137.8743871181785, Q Loss: 943020.0, Actor Loss: -37105.89782714844  
Episode 6667: Time: 0.31585168838500977, Total Reward: 256.9989097727579, Q Loss: 1384929.029296875, Actor Loss: -69156.21496582031  
Episode 6668: Time: 0.14144468307495117, Total Reward: 110.01984240828628, Q Loss: 691704.978515625, Actor Loss: -31550.637329101562  
Episode 6669: Time: 0.3588390350341797, Total Reward: 296.24293586549373, Q Loss: 1631100.48828125, Actor Loss: -77137.25793457031  
Episode 6670: Time: 0.4566800594329834, Total Reward: 377.57044045414455, Q Loss: 2091016.8857421875, Actor Loss: -97838.23156738281  
Episode 6671: Time: 0.09804701805114746, Total Reward: 72.38293514031027, Q Loss: 469039.951171875, Actor Loss: -20682.680419921875  
Episode 6672: Time: 0.12009239196777344, Total Reward: 91.89956664073692, Q Loss: 535678.07421875, Actor Loss: -26247.382202148438  
Episode 6673: Time: 0.5419304370880127, Total Reward: 453.1994673503543, Q Loss: 2594205.001953125, Actor Loss: -117460.27978515625  
Episode 6674: Time: 0.3364558219909668, Total Reward: 275.88591212036835, Q Loss: 1450332.0400390625, Actor Loss: -74795.25317382812  
Episode 6675: Time: 0.14132952690124512, Total Reward: 109.9537369523861, Q Loss: 668182.50390625, Actor Loss: -28917.102783203125  
Episode 6676: Time: 0.4676401615142822, Total Reward: 388.55367982110164, Q Loss: 2038109.314453125, Actor Loss: -102610.97265625  
Episode 6677: Time: 0.2612342834472656, Total Reward: 210.09134490356982, Q Loss: 1028737.419921875, Actor Loss: -56175.11877441406  
Episode 6678: Time: 0.21727705001831055, Total Reward: 174.93356174942937, Q Loss: 997381.3857421875, Actor Loss: -47001.244384765625  
Episode 6679: Time: 0.39093542098999023, Total Reward: 322.36492676836417, Q Loss: 1904544.84375, Actor Loss: -86696.296875  
Episode 6680: Time: 0.14148378372192383, Total Reward: 109.51822215565969, Q Loss: 574129.05859375, Actor Loss: -30365.075561523438  
Episode 6681: Time: 0.48862791061401367, Total Reward: 407.46750304842345, Q Loss: 2162469.732421875, Actor Loss: -109240.03430175781

Episode 6682: Time: 0.24999785423278809, Total Reward: 202.85149104086116, Q Loss: 1217510.509765625, Actor Loss: -54386.28674316406  
Episode 6683: Time: 0.13041329383850098, Total Reward: 100.34641063181611, Q Loss: 879163.873046875, Actor Loss: -28753.113525390625  
Episode 6684: Time: 0.1957089900970459, Total Reward: 156.35225813845503, Q Loss: 881048.494140625, Actor Loss: -43201.75085449219  
Episode 6685: Time: 0.6506814956665039, Total Reward: 545.7513470379971, Q Loss: 3472485.234375, Actor Loss: -145032.89379882812  
Episode 6686: Time: 0.5859272480010986, Total Reward: 491.462331964267, Q Loss: 2656073.3642578125, Actor Loss: -128302.4169921875  
Episode 6687: Time: 0.8456563949584961, Total Reward: 713.7317396249763, Q Loss: 4219916.431640625, Actor Loss: -186091.29345703125  
Episode 6688: Time: 0.14131522178649902, Total Reward: 109.64674193047388, Q Loss: 698212.4296875, Actor Loss: -28807.289916992188  
Episode 6689: Time: 0.16338324546813965, Total Reward: 128.4552256081929, Q Loss: 689303.802734375, Actor Loss: -33456.62976074219  
Episode 6690: Time: 0.13066983222961426, Total Reward: 100.23415657066708, Q Loss: 459308.3681640625, Actor Loss: -29280.963623046875  
Episode 6691: Time: 0.16318321228027344, Total Reward: 128.47835152665624, Q Loss: 718556.88671875, Actor Loss: -36307.837890625  
Episode 6692: Time: 0.24985289573669434, Total Reward: 203.00101420663609, Q Loss: 1087457.650390625, Actor Loss: -55636.949951171875  
Episode 6693: Time: 0.18457651138305664, Total Reward: 147.5530079505179, Q Loss: 747363.8671875, Actor Loss: -40218.52783203125  
Episode 6694: Time: 0.2174818515777588, Total Reward: 174.87112454796286, Q Loss: 895560.9365234375, Actor Loss: -48111.643798828125  
Episode 6695: Time: 0.3148033618927002, Total Reward: 258.02318383865884, Q Loss: 1274414.279296875, Actor Loss: -70548.07348632812  
Episode 6696: Time: 0.21719932556152344, Total Reward: 175.85394461766813, Q Loss: 914312.751953125, Actor Loss: -49151.9052734375  
Episode 6697: Time: 0.19545698165893555, Total Reward: 155.36015199362367, Q Loss: 812774.595703125, Actor Loss: -42667.5498046875  
Episode 6698: Time: 0.6727442741394043, Total Reward: 564.732240390447, Q Loss: 3052195.5478515625, Actor Loss: -145130.8046875  
Episode 6699: Time: 0.34770917892456055, Total Reward: 286.3583188494726, Q Loss: 1786586.73828125, Actor Loss: -78255.794921875  
Validation Mean: 9355.361950642517, Validation Std: 0.9238728417470728  
saving model  
Episode 6700: Time: 0.533642053604126, Total Reward: 444.5282693906344, Q Loss: 2564382.1640625, Actor Loss: -118992.01806640625  
Episode 6701: Time: 0.17415761947631836, Total Reward: 137.47629956212603, Q Loss: 857070.7724609375, Actor Loss: -38476.81884765625  
Episode 6702: Time: 0.09830212593078613, Total Reward: 72.47079587132392, Q Loss: 414107.716796875, Actor Loss: -21427.739624023438  
Episode 6703: Time: 0.2501065731048584, Total Reward: 202.69183476055886, Q Loss: 1213687.095703125, Actor Loss: -55757.6220703125  
Episode 6704: Time: 0.2719419002532959, Total Reward: 221.9188033481297, Q Loss: 1281579.884765625, Actor Loss: -60512.40576171875  
Episode 6705: Time: 0.14159226417541504, Total Reward: 110.15244431682522, Q Loss: 601172.43359375, Actor Loss: -32591.618896484375  
Episode 6706: Time: 0.34798693656921387, Total Reward: 286.1677844792579, Q Loss: 1815147.962890625, Actor Loss: -78019.41064453125  
Episode 6707: Time: 0.5218765735626221, Total Reward: 435.67753542555005, Q Loss: 2428529.2763671875, Actor Loss: -117646.16735839844  
Episode 6708: Time: 0.652332067489624, Total Reward: 548.954574938837, Q Loss: 3905406.3857421875, Actor Loss: -142470.9871826172

Episode 6709: Time: 0.4897787570953369, Total Reward: 408.2276352695967, Q Loss: 2622556.294921875, Actor Loss: -109564.31970214844  
Episode 6710: Time: 0.2830066680908203, Total Reward: 228.44831356950442, Q Loss: 1743020.9033203125, Actor Loss: -61883.83264160156  
Episode 6711: Time: 0.07656097412109375, Total Reward: 53.48848472062146, Q Loss: 320905.296875, Actor Loss: -16272.5302734375  
Episode 6712: Time: 0.239396333694458, Total Reward: 192.46730456235628, Q Loss: 1124898.890625, Actor Loss: -53881.615966796875  
Episode 6713: Time: 0.27243709564208984, Total Reward: 219.70306956613342, Q Loss: 1389367.953125, Actor Loss: -60550.73205566406  
Episode 6714: Time: 0.4237186908721924, Total Reward: 352.5506079247187, Q Loss: 2170654.501953125, Actor Loss: -95371.37841796875  
Episode 6715: Time: 0.2178206443786621, Total Reward: 173.71563309836012, Q Loss: 1178469.5107421875, Actor Loss: -50345.9833984375  
Episode 6716: Time: 0.3040802478790283, Total Reward: 249.68299913750056, Q Loss: 1344150.25, Actor Loss: -66820.68212890625  
Episode 6717: Time: 0.2506222724914551, Total Reward: 200.65637293540766, Q Loss: 1255880.619140625, Actor Loss: -55925.30517578125  
Episode 6718: Time: 0.13057398796081543, Total Reward: 101.18890149297609, Q Loss: 479524.5556640625, Actor Loss: -29597.285400390625  
Episode 6719: Time: 0.36900973320007324, Total Reward: 303.04678153968524, Q Loss: 1609285.8935546875, Actor Loss: -82852.5703125  
Episode 6720: Time: 0.38035082817077637, Total Reward: 314.182239395226, Q Loss: 1719337.05078125, Actor Loss: -82800.54821777344  
Episode 6721: Time: 0.15230131149291992, Total Reward: 119.07212597626774, Q Loss: 816671.423828125, Actor Loss: -33801.210205078125  
Episode 6722: Time: 0.5435478687286377, Total Reward: 454.1488877566765, Q Loss: 2720104.05859375, Actor Loss: -121716.09875488281  
Episode 6723: Time: 0.1853334903717041, Total Reward: 147.35782607880253, Q Loss: 837261.376953125, Actor Loss: -39977.278564453125  
Episode 6724: Time: 0.3153998851776123, Total Reward: 258.1667409521381, Q Loss: 1413248.9765625, Actor Loss: -72570.55603027344  
Episode 6725: Time: 0.30453062057495117, Total Reward: 248.0370826159761, Q Loss: 1557490.23828125, Actor Loss: -68661.69482421875  
Episode 6726: Time: 0.33667588233947754, Total Reward: 278.05161182841977, Q Loss: 1483454.2275390625, Actor Loss: -75285.74865722656  
Episode 6727: Time: 0.10887837409973145, Total Reward: 82.12385194546081, Q Loss: 627380.51953125, Actor Loss: -24781.435791015625  
Episode 6728: Time: 0.2173309326171875, Total Reward: 175.26358885254797, Q Loss: 1575325.7734375, Actor Loss: -47603.32275390625  
Episode 6729: Time: 0.673203706741333, Total Reward: 564.96430372573, Q Loss: 3975752.541015625, Actor Loss: -149409.5859375  
Episode 6730: Time: 0.8027832508087158, Total Reward: 676.3264108589416, Q Loss: 4590240.958984375, Actor Loss: -183432.22705078125  
Episode 6731: Time: 0.5755605697631836, Total Reward: 483.3183871745923, Q Loss: 3335945.2578125, Actor Loss: -130198.76208496094  
Episode 6732: Time: 0.42469120025634766, Total Reward: 349.6206727004679, Q Loss: 2496933.373046875, Actor Loss: -95807.37329101562  
Episode 6733: Time: 0.34888696670532227, Total Reward: 287.7912916701232, Q Loss: 1599863.29296875, Actor Loss: -77100.46557617188  
Episode 6734: Time: 0.3372929096221924, Total Reward: 276.2147309125524, Q Loss: 1764461.97265625, Actor Loss: -78222.8955078125  
Episode 6735: Time: 0.7481656074523926, Total Reward: 631.465225443857, Q Loss: 3453267.416015625, Actor Loss: -173109.53381347656  
Episode 6736: Time: 0.43439435958862305, Total Reward: 361.2494861327459, Q Loss: 2049563.1494140625, Actor Loss: -98441.1787109375

Episode 6737: Time: 0.26162028312683105, Total Reward: 212.17540733582945, Q Loss: 1132797.4453125, Actor Loss: -60026.6953125  
Episode 6738: Time: 0.14154529571533203, Total Reward: 110.30864692348972, Q Loss: 880366.53515625, Actor Loss: -31336.052978515625  
Episode 6739: Time: 0.3366725444793701, Total Reward: 277.86259928587185, Q Loss: 2115653.9580078125, Actor Loss: -78290.17333984375  
Episode 6740: Time: 0.39118242263793945, Total Reward: 323.61570188070704, Q Loss: 2147747.939453125, Actor Loss: -87618.25756835938  
Episode 6741: Time: 0.6298279762268066, Total Reward: 527.1150784274356, Q Loss: 2975502.1259765625, Actor Loss: -143813.8211669922  
Episode 6742: Time: 0.29305171966552734, Total Reward: 239.8967629871892, Q Loss: 1474042.951171875, Actor Loss: -65747.16271972656  
Episode 6743: Time: 0.6082742214202881, Total Reward: 509.78353811067575, Q Loss: 3833408.40234375, Actor Loss: -139341.8291015625  
Episode 6744: Time: 0.2608156204223633, Total Reward: 211.9538658882086, Q Loss: 1380649.341796875, Actor Loss: -59233.925537109375  
Episode 6745: Time: 0.16291069984436035, Total Reward: 128.40043287975726, Q Loss: 958069.62890625, Actor Loss: -37562.116943359375  
Episode 6746: Time: 0.4240901470184326, Total Reward: 351.39707374154244, Q Loss: 2233218.583984375, Actor Loss: -97247.69018554688  
Episode 6747: Time: 0.3265230655670166, Total Reward: 267.7242438406737, Q Loss: 1705836.8466796875, Actor Loss: -72251.97497558594  
Episode 6748: Time: 0.3698434829711914, Total Reward: 303.89593059755174, Q Loss: 1928428.607421875, Actor Loss: -85196.64624023438  
Episode 6749: Time: 0.2500293254852295, Total Reward: 200.03675308466978, Q Loss: 1511936.5283203125, Actor Loss: -56925.372802734375  
Episode 6750: Time: 0.6398777961730957, Total Reward: 537.3271613078955, Q Loss: 3617703.19140625, Actor Loss: -147085.00537109375  
Episode 6751: Time: 0.19580888748168945, Total Reward: 156.49135822172892, Q Loss: 939466.7373046875, Actor Loss: -45479.110595703125  
Episode 6752: Time: 0.3585810661315918, Total Reward: 292.9336065951923, Q Loss: 1879924.265625, Actor Loss: -81587.80712890625  
Episode 6753: Time: 0.456035852432251, Total Reward: 377.1984634095046, Q Loss: 2233365.4775390625, Actor Loss: -108671.8046875  
Episode 6754: Time: 0.3475935459136963, Total Reward: 285.7769017805971, Q Loss: 1782069.5234375, Actor Loss: -80335.8759765625  
Episode 6755: Time: 0.08710074424743652, Total Reward: 63.04773982803299, Q Loss: 465508.623046875, Actor Loss: -19315.403076171875  
Episode 6756: Time: 0.29328489303588867, Total Reward: 239.3642113800348, Q Loss: 1708775.9541015625, Actor Loss: -68962.22973632812  
Episode 6757: Time: 0.3797190189361572, Total Reward: 314.5554235507159, Q Loss: 1920961.3408203125, Actor Loss: -88003.46533203125  
Episode 6758: Time: 0.2504725456237793, Total Reward: 202.26257689109505, Q Loss: 1167836.658203125, Actor Loss: -56444.82971191406  
Episode 6759: Time: 0.173966646194458, Total Reward: 137.4200620264368, Q Loss: 853872.71875, Actor Loss: -39156.68408203125  
Episode 6760: Time: 0.07678985595703125, Total Reward: 53.2582033423638, Q Loss: 352082.32421875, Actor Loss: -17267.95458984375  
Episode 6761: Time: 0.456040620803833, Total Reward: 379.83489736547324, Q Loss: 2794615.85546875, Actor Loss: -105536.03393554688  
Episode 6762: Time: 0.3370020389556885, Total Reward: 277.8999894429208, Q Loss: 1880106.71484375, Actor Loss: -76555.78076171875  
Episode 6763: Time: 0.1845841407775879, Total Reward: 145.25962746221742, Q Loss: 930305.880859375, Actor Loss: -43371.875732421875  
Episode 6764: Time: 0.42360806465148926, Total Reward: 349.3060766562059, Q Loss: 1820182.83203125, Actor Loss: -96481.08166503906

Episode 6765: Time: 1.0095341205596924, Total Reward: 854.4204282904544, Q Loss: 4890032.8291015625, Actor Loss: -233588.59765625  
Episode 6766: Time: 0.5861380100250244, Total Reward: 491.96707720931556, Q Loss: 3404982.1611328125, Actor Loss: -134885.7822265625  
Episode 6767: Time: 0.39074254035949707, Total Reward: 324.2581723377054, Q Loss: 2146314.265625, Actor Loss: -90504.01000976562  
Episode 6768: Time: 0.1089017391204834, Total Reward: 82.23257404903373, Q Loss: 499636.0693359375, Actor Loss: -25125.40234375  
Episode 6769: Time: 0.4020199775695801, Total Reward: 332.4377365349412, Q Loss: 2028208.46484375, Actor Loss: -90045.43041992188  
Episode 6770: Time: 0.43417978286743164, Total Reward: 360.22272897817714, Q Loss: 2645979.22265625, Actor Loss: -98112.63916015625  
Episode 6771: Time: 0.6072521209716797, Total Reward: 509.0067847871974, Q Loss: 3146387.126953125, Actor Loss: -143252.29956054688  
Episode 6772: Time: 0.10897159576416016, Total Reward: 81.99349179669015, Q Loss: 566957.486328125, Actor Loss: -24760.23828125  
Episode 6773: Time: 0.879420280456543, Total Reward: 742.8126349711454, Q Loss: 4089406.2421875, Actor Loss: -202857.23010253906  
Episode 6774: Time: 0.35915350914001465, Total Reward: 295.9133226968208, Q Loss: 1785030.87890625, Actor Loss: -81480.58386230469  
Episode 6775: Time: 0.26110363006591797, Total Reward: 210.35306468523095, Q Loss: 1427333.876953125, Actor Loss: -60894.593994140625  
Episode 6776: Time: 0.09829139709472656, Total Reward: 72.21233891720901, Q Loss: 795378.17578125, Actor Loss: -22979.112548828125  
Episode 6777: Time: 0.4886648654937744, Total Reward: 407.7788590607094, Q Loss: 2845925.28515625, Actor Loss: -113289.74035644531  
Episode 6778: Time: 0.40219569206237793, Total Reward: 333.8726324324807, Q Loss: 2346591.3203125, Actor Loss: -94844.03125  
Episode 6779: Time: 0.4560849666595459, Total Reward: 379.81658579034706, Q Loss: 2721411.236328125, Actor Loss: -104198.67358398438  
Episode 6780: Time: 0.30501747131347656, Total Reward: 248.38901133353377, Q Loss: 1528510.470703125, Actor Loss: -71898.9208984375  
Episode 6781: Time: 0.23938417434692383, Total Reward: 190.9609373514756, Q Loss: 1449306.044921875, Actor Loss: -54489.06689453125  
Episode 6782: Time: 0.47933173179626465, Total Reward: 398.3657875927272, Q Loss: 2262257.576171875, Actor Loss: -110812.55834960938  
Episode 6783: Time: 0.29433465003967285, Total Reward: 239.06963171206618, Q Loss: 1827456.66796875, Actor Loss: -67857.52001953125  
Episode 6784: Time: 0.43514108657836914, Total Reward: 360.43125009413774, Q Loss: 2255699.197265625, Actor Loss: -99808.12341308594  
Episode 6785: Time: 0.35956811904907227, Total Reward: 294.97505786120524, Q Loss: 1867668.943359375, Actor Loss: -81827.0478515625  
Episode 6786: Time: 0.3264443874359131, Total Reward: 267.117834723094, Q Loss: 1819781.7802734375, Actor Loss: -74800.13928222656  
Episode 6787: Time: 0.18518853187561035, Total Reward: 147.22380360798067, Q Loss: 1047326.328125, Actor Loss: -43128.84619140625  
Episode 6788: Time: 0.4136016368865967, Total Reward: 343.4841476683785, Q Loss: 2232022.853515625, Actor Loss: -95155.09228515625  
Episode 6789: Time: 0.3590421676635742, Total Reward: 296.404101931504, Q Loss: 1957670.640625, Actor Loss: -86141.84887695312  
Episode 6790: Time: 0.19647598266601562, Total Reward: 156.51783518416127, Q Loss: 985885.0341796875, Actor Loss: -43797.3271484375  
Episode 6791: Time: 0.4460458755493164, Total Reward: 369.3636593387589, Q Loss: 2281574.134765625, Actor Loss: -103052.34228515625  
Episode 6792: Time: 0.4774298667907715, Total Reward: 397.0458639011034, Q Loss: 2611381.1689453125, Actor Loss: -110442.1162109375

Episode 6793: Time: 0.7046303749084473, Total Reward: 595.3156362829275, Q Loss: 4514530.337890625, Actor Loss: -165019.458984375  
Episode 6794: Time: 0.47909975051879883, Total Reward: 397.3175159166362, Q Loss: 2511613.294921875, Actor Loss: -114696.27734375  
Episode 6795: Time: 0.19592070579528809, Total Reward: 156.67688131286707, Q Loss: 1125163.91796875, Actor Loss: -45507.351318359375  
Episode 6796: Time: 0.6618618965148926, Total Reward: 555.8843821733126, Q Loss: 3913910.1552734375, Actor Loss: -154841.50805664062  
Episode 6797: Time: 0.15240883827209473, Total Reward: 118.7693025985032, Q Loss: 869123.099609375, Actor Loss: -35323.487060546875  
Episode 6798: Time: 0.10938549041748047, Total Reward: 82.30586118722113, Q Loss: 848964.294921875, Actor Loss: -24378.039306640625  
Episode 6799: Time: 0.14132928848266602, Total Reward: 109.90799498272517, Q Loss: 803165.884765625, Actor Loss: -34542.0615234375  
Validation Mean: 9355.067119527144, Validation Std: 0.5387765760858129  
saving model  
Episode 6800: Time: 0.2628912925720215, Total Reward: 212.2945043857923, Q Loss: 1280466.07421875, Actor Loss: -62888.666015625  
Episode 6801: Time: 0.1523115634918213, Total Reward: 118.73521428296718, Q Loss: 1037569.228515625, Actor Loss: -35694.925048828125  
Episode 6802: Time: 0.17447161674499512, Total Reward: 137.58920268059987, Q Loss: 1025934.896484375, Actor Loss: -40790.433349609375  
Episode 6803: Time: 0.31525754928588867, Total Reward: 259.3748322555868, Q Loss: 1798947.26953125, Actor Loss: -73322.13000488281  
Episode 6804: Time: 0.35831570625305176, Total Reward: 295.64947639000223, Q Loss: 1967160.021484375, Actor Loss: -85559.58642578125  
Episode 6805: Time: 0.2717432975769043, Total Reward: 219.38386485351086, Q Loss: 1450186.3046875, Actor Loss: -64441.404296875  
Episode 6806: Time: 0.1304931640625, Total Reward: 100.57093097827234, Q Loss: 629603.353515625, Actor Loss: -30834.04443359375  
Episode 6807: Time: 0.2177422046661377, Total Reward: 174.99890378512833, Q Loss: 1268265.86328125, Actor Loss: -51319.279052734375  
Episode 6808: Time: 0.4340662956237793, Total Reward: 359.50446743214906, Q Loss: 2230002.638671875, Actor Loss: -103435.61743164062  
Episode 6809: Time: 0.250180721282959, Total Reward: 200.67192909640727, Q Loss: 1480604.8125, Actor Loss: -58369.1435546875  
Episode 6810: Time: 0.30402398109436035, Total Reward: 249.90160308290334, Q Loss: 1503577.43359375, Actor Loss: -71843.74230957031  
Episode 6811: Time: 0.2713632583618164, Total Reward: 221.5948276469156, Q Loss: 1400690.494140625, Actor Loss: -62886.57434082031  
Episode 6812: Time: 0.34746766090393066, Total Reward: 284.57540054521525, Q Loss: 2321670.5498046875, Actor Loss: -82691.39526367188  
Episode 6813: Time: 0.4992222785949707, Total Reward: 416.8492241407425, Q Loss: 2380397.916015625, Actor Loss: -115643.25561523438  
Episode 6814: Time: 0.43378138542175293, Total Reward: 361.0654052071384, Q Loss: 2729464.001953125, Actor Loss: -102720.85412597656  
Episode 6815: Time: 0.18449854850769043, Total Reward: 146.31849299303036, Q Loss: 994735.111328125, Actor Loss: -43646.513671875  
Episode 6816: Time: 0.2286663055419922, Total Reward: 183.35843398746695, Q Loss: 1004302.388671875, Actor Loss: -54308.86279296875  
Episode 6817: Time: 0.2499227523803711, Total Reward: 202.4461922226531, Q Loss: 1878865.3525390625, Actor Loss: -60238.769287109375  
Episode 6818: Time: 0.20718812942504883, Total Reward: 165.13131330539656, Q Loss: 1228470.294921875, Actor Loss: -49461.505126953125  
Episode 6819: Time: 0.4133870601654053, Total Reward: 342.2780418300413, Q Loss: 2686248.095703125, Actor Loss: -97217.98291015625

Episode 6820: Time: 0.22817087173461914, Total Reward: 184.50600652634552, Q Loss: 924125.66796875, Actor Loss: -54752.6162109375  
Episode 6821: Time: 0.29357075691223145, Total Reward: 240.48943886407136, Q Loss: 1475554.638671875, Actor Loss: -69944.59814453125  
Episode 6822: Time: 0.21738195419311523, Total Reward: 175.1704390165855, Q Loss: 1613457.134765625, Actor Loss: -54011.06982421875  
Episode 6823: Time: 0.7166986465454102, Total Reward: 600.1345509547809, Q Loss: 4227246.681640625, Actor Loss: -168627.49731445312  
Episode 6824: Time: 0.7060351371765137, Total Reward: 595.0000141658196, Q Loss: 3845195.83203125, Actor Loss: -169424.17309570312  
Episode 6825: Time: 0.35814619064331055, Total Reward: 296.967135422943, Q Loss: 2293639.234375, Actor Loss: -86539.07983398438  
Episode 6826: Time: 0.27157092094421387, Total Reward: 219.44300868995228, Q Loss: 1743854.75390625, Actor Loss: -65226.91943359375  
Episode 6827: Time: 0.10889220237731934, Total Reward: 81.8433481019563, Q Loss: 515251.2705078125, Actor Loss: -26352.89697265625  
Episode 6828: Time: 0.45629334449768066, Total Reward: 380.1929383534166, Q Loss: 2859040.94921875, Actor Loss: -108858.1298828125  
Episode 6829: Time: 0.3473200798034668, Total Reward: 287.0588068899839, Q Loss: 1968499.068359375, Actor Loss: -83355.84106445312  
Episode 6830: Time: 0.15231704711914062, Total Reward: 119.22127977582319, Q Loss: 920083.080078125, Actor Loss: -37697.548095703125  
Episode 6831: Time: 0.09848833084106445, Total Reward: 71.03107845388358, Q Loss: 415151.404296875, Actor Loss: -22102.0302734375  
Episode 6832: Time: 0.2506906986236572, Total Reward: 200.49996700779113, Q Loss: 1448740.43359375, Actor Loss: -58699.31005859375  
Episode 6833: Time: 0.16330838203430176, Total Reward: 128.513488764193, Q Loss: 1115157.265625, Actor Loss: -40126.912841796875  
Episode 6834: Time: 0.6409320831298828, Total Reward: 536.7825078933884, Q Loss: 3527538.787109375, Actor Loss: -152750.78540039062  
Episode 6835: Time: 0.2827486991882324, Total Reward: 228.40900333042677, Q Loss: 1518155.548828125, Actor Loss: -67363.421875  
Episode 6836: Time: 0.16307806968688965, Total Reward: 128.99824314923816, Q Loss: 1024653.599609375, Actor Loss: -38568.90295410156  
Episode 6837: Time: 0.1526660919189453, Total Reward: 118.88487371372598, Q Loss: 1156621.0546875, Actor Loss: -37273.716064453125  
Episode 6838: Time: 0.22835421562194824, Total Reward: 184.1069412717766, Q Loss: 1090543.8818359375, Actor Loss: -54178.126708984375  
Episode 6839: Time: 0.14167141914367676, Total Reward: 110.05835936194838, Q Loss: 517978.7783203125, Actor Loss: -33287.93603515625  
Episode 6840: Time: 0.20695161819458008, Total Reward: 164.13700172075247, Q Loss: 1104663.28515625, Actor Loss: -49162.840087890625  
Episode 6841: Time: 0.3154032230377197, Total Reward: 258.60509035177495, Q Loss: 1572310.3828125, Actor Loss: -75055.67797851562  
Episode 6842: Time: 0.5537359714508057, Total Reward: 463.9210478366453, Q Loss: 3297285.0712890625, Actor Loss: -130683.45861816406  
Episode 6843: Time: 0.36998701095581055, Total Reward: 304.0524071964231, Q Loss: 2087013.7216796875, Actor Loss: -89214.30346679688  
Episode 6844: Time: 0.31592607498168945, Total Reward: 257.22855394825297, Q Loss: 1589482.619140625, Actor Loss: -76995.37377929688  
Episode 6845: Time: 0.17400574684143066, Total Reward: 138.16296109553085, Q Loss: 1016741.359375, Actor Loss: -41970.838134765625  
Episode 6846: Time: 0.12021231651306152, Total Reward: 90.92689107871158, Q Loss: 689829.818359375, Actor Loss: -28182.53125  
Episode 6847: Time: 0.23920965194702148, Total Reward: 194.05331146983394, Q Loss: 1327124.0390625, Actor Loss: -59419.82421875

Episode 6848: Time: 0.22870707511901855, Total Reward: 184.91297107193384, Q Loss: 1420835.787109375, Actor Loss: -54144.11669921875  
Episode 6849: Time: 0.35895657539367676, Total Reward: 295.4477816835441, Q Loss: 2444504.029296875, Actor Loss: -88968.03735351562  
Episode 6850: Time: 0.5005371570587158, Total Reward: 418.02563173237183, Q Loss: 2976648.751953125, Actor Loss: -121962.62231445312  
Episode 6851: Time: 0.13116955757141113, Total Reward: 100.80884626932767, Q Loss: 638222.80078125, Actor Loss: -30959.1435546875  
Episode 6852: Time: 0.27264928817749023, Total Reward: 220.001065652586, Q Loss: 1723883.40234375, Actor Loss: -63697.157958984375  
Episode 6853: Time: 0.29407596588134766, Total Reward: 239.65595662969855, Q Loss: 1614088.638671875, Actor Loss: -70625.01171875  
Episode 6854: Time: 0.33709716796875, Total Reward: 275.90580554991425, Q Loss: 1918212.1328125, Actor Loss: -82844.51904296875  
Episode 6855: Time: 0.2288835048675537, Total Reward: 184.47031674185675, Q Loss: 1081996.4052734375, Actor Loss: -55399.703857421875  
Episode 6856: Time: 0.43492817878723145, Total Reward: 359.104015572832, Q Loss: 2458065.9921875, Actor Loss: -104204.5322265625  
Episode 6857: Time: 0.3160359859466553, Total Reward: 258.2065921607907, Q Loss: 1799461.50390625, Actor Loss: -75771.58374023438  
Episode 6858: Time: 0.5770578384399414, Total Reward: 482.41980748498537, Q Loss: 3361683.6015625, Actor Loss: -137615.55322265625  
Episode 6859: Time: 0.3484318256378174, Total Reward: 285.80405842484305, Q Loss: 2587047.87109375, Actor Loss: -84150.484375  
Episode 6860: Time: 0.11984777450561523, Total Reward: 91.18539049939726, Q Loss: 925223.1552734375, Actor Loss: -29009.51025390625  
Episode 6861: Time: 0.34897875785827637, Total Reward: 286.31186866372644, Q Loss: 2473353.451171875, Actor Loss: -86052.0166015625  
Episode 6862: Time: 0.10904645919799805, Total Reward: 82.49243198646158, Q Loss: 712994.607421875, Actor Loss: -27229.2099609375  
Episode 6863: Time: 0.5334489345550537, Total Reward: 441.7139131463349, Q Loss: 3527006.744140625, Actor Loss: -126025.396484375  
Episode 6864: Time: 0.09813165664672852, Total Reward: 72.44035929804568, Q Loss: 536111.625, Actor Loss: -22689.058837890625  
Episode 6865: Time: 0.14197468757629395, Total Reward: 110.37563176878564, Q Loss: 822179.833984375, Actor Loss: -34317.054931640625  
Episode 6866: Time: 0.4449460506439209, Total Reward: 370.3228239833922, Q Loss: 2759216.11328125, Actor Loss: -106629.85791015625  
Episode 6867: Time: 0.2609221935272217, Total Reward: 212.0594452600258, Q Loss: 1444631.50390625, Actor Loss: -62284.182373046875  
Episode 6868: Time: 0.27248644828796387, Total Reward: 221.44857763928465, Q Loss: 1971462.38671875, Actor Loss: -66087.42529296875  
Episode 6869: Time: 0.15262365341186523, Total Reward: 119.50865921844847, Q Loss: 1158818.9921875, Actor Loss: -37235.337890625  
Episode 6870: Time: 0.43425440788269043, Total Reward: 361.5541607817764, Q Loss: 2953340.353515625, Actor Loss: -106775.81567382812  
Episode 6871: Time: 0.16319918632507324, Total Reward: 129.24249590012286, Q Loss: 1093794.96484375, Actor Loss: -38505.614501953125  
Episode 6872: Time: 0.43474435806274414, Total Reward: 360.89521508972985, Q Loss: 2673128.0546875, Actor Loss: -106430.16235351562  
Episode 6873: Time: 0.3699955940246582, Total Reward: 304.3285215962224, Q Loss: 2100997.1796875, Actor Loss: -88369.00610351562  
Episode 6874: Time: 0.6300206184387207, Total Reward: 529.9992976889406, Q Loss: 3679668.7548828125, Actor Loss: -154096.62817382812  
Episode 6875: Time: 0.39161205291748047, Total Reward: 323.98590346866666, Q Loss: 2730457.181640625, Actor Loss: -96243.47094726562



Episode 6876: Time: 0.18510746955871582, Total Reward: 147.1228051080864, Q Loss: 1018813.115234375, Actor Loss: -45229.760009765625  
Episode 6877: Time: 0.4140586853027344, Total Reward: 342.0380767650445, Q Loss: 2574339.828125, Actor Loss: -101030.05859375  
Episode 6878: Time: 0.21805548667907715, Total Reward: 174.0623511213037, Q Loss: 1135488.849609375, Actor Loss: -53337.284423828125  
Episode 6879: Time: 0.10896825790405273, Total Reward: 82.10674070708704, Q Loss: 627875.388671875, Actor Loss: -27352.7353515625  
Episode 6880: Time: 0.15278172492980957, Total Reward: 119.04158063984521, Q Loss: 768741.583984375, Actor Loss: -36695.7568359375  
Episode 6881: Time: 0.391521692276001, Total Reward: 324.0780485253501, Q Loss: 2246342.380859375, Actor Loss: -96699.5634765625  
Episode 6882: Time: 0.16336464881896973, Total Reward: 127.6165526791539, Q Loss: 951013.5078125, Actor Loss: -39978.918701171875  
Episode 6883: Time: 0.0766606330871582, Total Reward: 53.78934244737654, Q Loss: 452907.21484375, Actor Loss: -18803.980224609375  
Episode 6884: Time: 0.09804677963256836, Total Reward: 72.36354546762199, Q Loss: 674534.466796875, Actor Loss: -24326.060791015625  
Episode 6885: Time: 0.08730959892272949, Total Reward: 63.20997738070842, Q Loss: 776333.041015625, Actor Loss: -21483.219482421875  
Episode 6886: Time: 0.21750593185424805, Total Reward: 175.86477940671614, Q Loss: 1149457.92578125, Actor Loss: -52191.35205078125  
Episode 6887: Time: 0.4671034812927246, Total Reward: 388.24154836350937, Q Loss: 2503126.208984375, Actor Loss: -116421.66748046875  
Episode 6888: Time: 0.1520376205444336, Total Reward: 119.17396238014032, Q Loss: 696208.3056640625, Actor Loss: -37243.86962890625  
Episode 6889: Time: 0.4569559097290039, Total Reward: 379.1465736540093, Q Loss: 2191341.5859375, Actor Loss: -113735.32275390625  
Episode 6890: Time: 0.10917401313781738, Total Reward: 81.82916847538371, Q Loss: 843312.484375, Actor Loss: -26407.306884765625  
Episode 6891: Time: 0.28349828720092773, Total Reward: 229.1171097321194, Q Loss: 1835200.798828125, Actor Loss: -71423.38256835938  
Episode 6892: Time: 0.22922420501708984, Total Reward: 182.02103303009915, Q Loss: 1586601.599609375, Actor Loss: -56824.337646484375  
Episode 6893: Time: 0.4899911880493164, Total Reward: 406.4415373154242, Q Loss: 2962804.81640625, Actor Loss: -118570.79370117188  
Episode 6894: Time: 0.27192115783691406, Total Reward: 221.33903430889598, Q Loss: 1832564.0703125, Actor Loss: -65161.29248046875  
Episode 6895: Time: 0.7274792194366455, Total Reward: 610.2144493730442, Q Loss: 4415065.8408203125, Actor Loss: -177750.95532226562  
Episode 6896: Time: 0.7603809833526611, Total Reward: 641.178283687425, Q Loss: 4435718.076171875, Actor Loss: -186859.28491210938  
Episode 6897: Time: 0.16361689567565918, Total Reward: 129.03803334590913, Q Loss: 974779.587890625, Actor Loss: -41657.2392578125  
Episode 6898: Time: 0.0767970085144043, Total Reward: 53.76507787356713, Q Loss: 524304.390625, Actor Loss: -19426.097412109375  
Episode 6899: Time: 0.39166688919067383, Total Reward: 323.6519515164027, Q Loss: 2647050.30078125, Actor Loss: -96872.81616210938  
Validation Mean: 9355.75563997809, Validation Std: 0.373477816478359  
saving model  
Episode 6900: Time: 0.31784701347351074, Total Reward: 257.0883427203275, Q Loss: 1897244.6201171875, Actor Loss: -77791.45629882812  
Episode 6901: Time: 0.32677721977233887, Total Reward: 266.1907081325242, Q Loss: 1816988.11328125, Actor Loss: -79694.28979492188  
Episode 6902: Time: 0.45725107192993164, Total Reward: 380.8442618373378, Q Loss: 2673970.044921875, Actor Loss: -114534.75024414062

Episode 6903: Time: 0.35950303077697754, Total Reward: 295.0514942770018, Q Loss: 2372003.998046875, Actor Loss: -89916.73168945312  
Episode 6904: Time: 0.5218825340270996, Total Reward: 433.86614951220065, Q Loss: 3634900.2109375, Actor Loss: -128478.24389648438  
Episode 6905: Time: 0.4352099895477295, Total Reward: 361.8967837101571, Q Loss: 2462759.779296875, Actor Loss: -106635.93188476562  
Episode 6906: Time: 0.10900688171386719, Total Reward: 81.92584818062001, Q Loss: 713219.73828125, Actor Loss: -26264.769775390625  
Episode 6907: Time: 0.631162166595459, Total Reward: 501.51554828435775, Q Loss: 4148470.6611328125, Actor Loss: -144470.10131835938  
Episode 6908: Time: 0.2303605079650879, Total Reward: 184.26006377845053, Q Loss: 1218676.814453125, Actor Loss: -58398.777587890625  
Episode 6909: Time: 0.3602721691131592, Total Reward: 295.62972391832733, Q Loss: 1724730.220703125, Actor Loss: -89177.267578125  
Episode 6910: Time: 0.25148701667785645, Total Reward: 202.21593347514482, Q Loss: 1399098.79296875, Actor Loss: -62523.332763671875  
Episode 6911: Time: 0.5665099620819092, Total Reward: 473.6950533442937, Q Loss: 3445562.578125, Actor Loss: -137340.87719726562  
Episode 6912: Time: 0.3268120288848877, Total Reward: 267.829938811565, Q Loss: 1987930.404296875, Actor Loss: -79921.61572265625  
Episode 6913: Time: 0.31630897521972656, Total Reward: 258.12363222946374, Q Loss: 1566813.486328125, Actor Loss: -78385.0068359375  
Episode 6914: Time: 0.3271598815917969, Total Reward: 268.05015223341627, Q Loss: 2042698.5078125, Actor Loss: -81090.11328125  
Episode 6915: Time: 0.1958911418914795, Total Reward: 156.18423726866763, Q Loss: 1662557.7265625, Actor Loss: -46655.4580078125  
Episode 6916: Time: 0.48902249336242676, Total Reward: 407.79361251009016, Q Loss: 3232270.712890625, Actor Loss: -120920.08081054688  
Episode 6917: Time: 0.435009241104126, Total Reward: 361.3249107412758, Q Loss: 3107345.9921875, Actor Loss: -108278.12866210938  
Episode 6918: Time: 0.27248144149780273, Total Reward: 221.81339172950624, Q Loss: 1712428.4375, Actor Loss: -68561.84228515625  
Episode 6919: Time: 0.13079071044921875, Total Reward: 100.41484692921905, Q Loss: 712750.0625, Actor Loss: -31793.546875  
Episode 6920: Time: 0.2395484447479248, Total Reward: 193.4543388322929, Q Loss: 1366660.029296875, Actor Loss: -59384.582763671875  
Episode 6921: Time: 0.5327260494232178, Total Reward: 445.1838243844622, Q Loss: 3449207.8349609375, Actor Loss: -131651.85327148438  
Episode 6922: Time: 0.45644307136535645, Total Reward: 379.13766342941204, Q Loss: 2878451.916015625, Actor Loss: -112918.10668945312  
Episode 6923: Time: 0.20773696899414062, Total Reward: 166.25440009245332, Q Loss: 1015139.984375, Actor Loss: -51789.47265625  
Episode 6924: Time: 0.18510174751281738, Total Reward: 144.41606487190583, Q Loss: 1029317.140625, Actor Loss: -46551.549072265625  
Episode 6925: Time: 0.4892401695251465, Total Reward: 406.03846004926334, Q Loss: 3060669.7724609375, Actor Loss: -120992.01672363281  
Episode 6926: Time: 0.7496390342712402, Total Reward: 629.5084884793685, Q Loss: 3960155.3896484375, Actor Loss: -188898.87915039062  
Episode 6927: Time: 0.4021570682525635, Total Reward: 333.9489847018872, Q Loss: 2573421.771484375, Actor Loss: -102485.2568359375  
Episode 6928: Time: 0.9757983684539795, Total Reward: 826.8333186020024, Q Loss: 6405584.984375, Actor Loss: -242693.26416015625  
Episode 6929: Time: 0.3052542209625244, Total Reward: 248.05509307161427, Q Loss: 2110071.96875, Actor Loss: -76436.26611328125  
Episode 6930: Time: 0.1957073211669922, Total Reward: 155.68813649365785, Q Loss: 1384766.5810546875, Actor Loss: -48058.884521484375

Episode 6931: Time: 0.3370828628540039, Total Reward: 277.6021489699957, Q Loss: 2136877.66796875, Actor Loss: -84227.35107421875  
Episode 6932: Time: 0.20695900917053223, Total Reward: 166.33789137334583, Q Loss: 1025024.515625, Actor Loss: -53245.785400390625  
Episode 6933: Time: 0.2286062240600586, Total Reward: 181.70611039027034, Q Loss: 1564241.98828125, Actor Loss: -57186.65576171875  
Episode 6934: Time: 0.4887838363647461, Total Reward: 406.9156868161427, Q Loss: 3082808.0107421875, Actor Loss: -121245.54296875  
Episode 6935: Time: 0.2831075191497803, Total Reward: 230.50931849073686, Q Loss: 1529962.16015625, Actor Loss: -72291.50244140625  
Episode 6936: Time: 0.10886049270629883, Total Reward: 81.9316041410053, Q Loss: 777847.83203125, Actor Loss: -27604.045166015625  
Episode 6937: Time: 0.2177112102508545, Total Reward: 174.8852989865117, Q Loss: 1422184.3662109375, Actor Loss: -55891.95166015625  
Episode 6938: Time: 0.31679344177246094, Total Reward: 259.03174503626263, Q Loss: 2217239.28515625, Actor Loss: -80298.57275390625  
Episode 6939: Time: 0.5973494052886963, Total Reward: 500.64857048279157, Q Loss: 3649477.0234375, Actor Loss: -152178.10327148438  
Episode 6940: Time: 0.0873415470123291, Total Reward: 63.41750506961556, Q Loss: 480783.27734375, Actor Loss: -23294.589599609375  
Episode 6941: Time: 0.26103663444519043, Total Reward: 212.36182547871329, Q Loss: 1625717.7529296875, Actor Loss: -65470.14208984375  
Episode 6942: Time: 0.15235495567321777, Total Reward: 119.40847257059218, Q Loss: 1003154.583984375, Actor Loss: -38664.2060546875  
Episode 6943: Time: 0.2181994915008545, Total Reward: 174.40020189058205, Q Loss: 1639808.1796875, Actor Loss: -53238.89990234375  
Episode 6944: Time: 0.28252720832824707, Total Reward: 228.97508508700537, Q Loss: 2080059.990234375, Actor Loss: -70703.89721679688  
Episode 6945: Time: 0.44606637954711914, Total Reward: 370.61006131410824, Q Loss: 3360603.7060546875, Actor Loss: -115735.83203125  
Episode 6946: Time: 0.16323447227478027, Total Reward: 128.6830039133217, Q Loss: 1403757.609375, Actor Loss: -40421.378173828125  
Episode 6947: Time: 0.10964059829711914, Total Reward: 82.58301696750574, Q Loss: 475044.36328125, Actor Loss: -28252.838623046875  
Episode 6948: Time: 0.15239310264587402, Total Reward: 118.57349350480047, Q Loss: 831256.64453125, Actor Loss: -38939.466552734375  
Episode 6949: Time: 0.47836756706237793, Total Reward: 398.1492260183114, Q Loss: 3674890.2265625, Actor Loss: -121714.23559570312  
Episode 6950: Time: 0.4784657955169678, Total Reward: 398.0203233081875, Q Loss: 2998596.958984375, Actor Loss: -122498.25268554688  
Episode 6951: Time: 0.6393706798553467, Total Reward: 527.4898749582228, Q Loss: 3966359.392578125, Actor Loss: -158338.44213867188  
Episode 6952: Time: 0.18524646759033203, Total Reward: 147.79809386862283, Q Loss: 1050835.615234375, Actor Loss: -46474.340087890625  
Episode 6953: Time: 0.0660712718963623, Total Reward: 44.47177589520715, Q Loss: 541322.01171875, Actor Loss: -16489.818115234375  
Episode 6954: Time: 0.7921490669250488, Total Reward: 667.7027936599625, Q Loss: 5269609.18359375, Actor Loss: -203777.42944335938  
Episode 6955: Time: 0.09801650047302246, Total Reward: 73.02333977033351, Q Loss: 800772.12890625, Actor Loss: -24911.875244140625  
Episode 6956: Time: 0.26120519638061523, Total Reward: 212.3573070130339, Q Loss: 1725670.3515625, Actor Loss: -66208.08081054688  
Episode 6957: Time: 0.38046789169311523, Total Reward: 312.5037230350498, Q Loss: 2943783.9765625, Actor Loss: -100142.7578125  
Episode 6958: Time: 0.5439193248748779, Total Reward: 454.2467815503244, Q Loss: 3768542.291015625, Actor Loss: -136431.31811523438

Episode 6959: Time: 0.1739957332611084, Total Reward: 138.1533100473295, Q Loss: 1163317.943359375, Actor Loss: -43923.545654296875  
Episode 6960: Time: 0.3590538501739502, Total Reward: 295.03951459057157, Q Loss: 2272566.52734375, Actor Loss: -88762.53784179688  
Episode 6961: Time: 0.5423898696899414, Total Reward: 453.5156882554018, Q Loss: 4216561.970703125, Actor Loss: -137292.6182861328  
Episode 6962: Time: 0.38038182258605957, Total Reward: 313.9979123350399, Q Loss: 2458016.96484375, Actor Loss: -97963.56665039062  
Episode 6963: Time: 0.2609848976135254, Total Reward: 212.41402815308427, Q Loss: 1770115.9375, Actor Loss: -65955.3369140625  
Episode 6964: Time: 0.25025200843811035, Total Reward: 203.25691893797273, Q Loss: 1597341.603515625, Actor Loss: -61674.78125  
Episode 6965: Time: 0.173783540725708, Total Reward: 137.3485948572549, Q Loss: 1010960.177734375, Actor Loss: -44731.873779296875  
Episode 6966: Time: 0.2718987464904785, Total Reward: 220.21650112239115, Q Loss: 1554470.671875, Actor Loss: -71268.93139648438  
Episode 6967: Time: 0.3586862087249756, Total Reward: 296.0252311044606, Q Loss: 2661319.201171875, Actor Loss: -91364.81567382812  
Episode 6968: Time: 0.1849212646484375, Total Reward: 144.96766178120325, Q Loss: 1389478.830078125, Actor Loss: -48906.23583984375  
Episode 6969: Time: 0.304149866104126, Total Reward: 248.1828508246067, Q Loss: 1713835.119140625, Actor Loss: -79531.07788085938  
Episode 6970: Time: 0.1738877296447754, Total Reward: 137.38674368115502, Q Loss: 927110.2763671875, Actor Loss: -43622.878173828125  
Episode 6971: Time: 0.271756649017334, Total Reward: 220.21062834502428, Q Loss: 1841447.779296875, Actor Loss: -68053.92797851562  
Episode 6972: Time: 0.4780292510986328, Total Reward: 397.7044126747007, Q Loss: 3391005.0, Actor Loss: -122191.31408691406  
Episode 6973: Time: 0.260845422744751, Total Reward: 210.91220648897288, Q Loss: 1440269.8359375, Actor Loss: -64900.77893066406  
Episode 6974: Time: 0.4678771495819092, Total Reward: 389.76235970612703, Q Loss: 3077996.86328125, Actor Loss: -123139.73388671875  
Episode 6975: Time: 0.31502580642700195, Total Reward: 256.8424424877245, Q Loss: 1802641.2265625, Actor Loss: -80040.26440429688  
Episode 6976: Time: 0.3042936325073242, Total Reward: 250.36307878514208, Q Loss: 2002129.880859375, Actor Loss: -80530.48608398438  
Episode 6977: Time: 0.36928367614746094, Total Reward: 305.4075881080769, Q Loss: 2528378.140625, Actor Loss: -94502.05004882812  
Episode 6978: Time: 0.4781770706176758, Total Reward: 397.6340774376803, Q Loss: 2684663.0908203125, Actor Loss: -122512.79565429688  
Episode 6979: Time: 0.2392864227294922, Total Reward: 191.31467928888608, Q Loss: 1500606.23828125, Actor Loss: -60746.393798828125  
Episode 6980: Time: 0.1957249641418457, Total Reward: 156.7340993723742, Q Loss: 1353994.978515625, Actor Loss: -48169.933349609375  
Episode 6981: Time: 0.21796607971191406, Total Reward: 175.210930778381, Q Loss: 1345540.203125, Actor Loss: -56007.213623046875  
Episode 6982: Time: 0.23994040489196777, Total Reward: 193.24819808166203, Q Loss: 1518198.8046875, Actor Loss: -60534.19140625  
Episode 6983: Time: 0.08733510971069336, Total Reward: 62.86266903659695, Q Loss: 518572.71484375, Actor Loss: -22776.061767578125  
Episode 6984: Time: 0.4454362392425537, Total Reward: 369.4779537019456, Q Loss: 3499530.353515625, Actor Loss: -116235.0185546875  
Episode 6985: Time: 0.22860407829284668, Total Reward: 181.90874665772662, Q Loss: 1867214.09375, Actor Loss: -59404.623779296875  
Episode 6986: Time: 0.18460893630981445, Total Reward: 145.75333618004203, Q Loss: 1239694.08203125, Actor Loss: -47530.343994140625

Episode 6987: Time: 0.1202094554901123, Total Reward: 91.48922978769518, Q Loss: 793679.0625, Actor Loss: -30672.137939453125  
Episode 6988: Time: 0.21722698211669922, Total Reward: 175.13323607109743, Q Loss: 1732745.515625, Actor Loss: -54153.188720703125  
Episode 6989: Time: 0.1304457187652588, Total Reward: 100.30731519867217, Q Loss: 799282.919921875, Actor Loss: -33486.97900390625  
Episode 6990: Time: 0.15246796607971191, Total Reward: 119.35760207495912, Q Loss: 846260.22265625, Actor Loss: -38618.72216796875  
Episode 6991: Time: 0.2823312282562256, Total Reward: 230.8993987963863, Q Loss: 2315511.416015625, Actor Loss: -75278.6533203125  
Episode 6992: Time: 0.3915128707885742, Total Reward: 324.57098782282014, Q Loss: 2785832.7265625, Actor Loss: -102174.38037109375  
Episode 6993: Time: 0.33704113960266113, Total Reward: 276.483966888963, Q Loss: 2575320.140625, Actor Loss: -87457.76733398438  
Episode 6994: Time: 0.5210158824920654, Total Reward: 436.461330206204, Q Loss: 4134497.91015625, Actor Loss: -134286.01782226562  
Episode 6995: Time: 0.4018886089324951, Total Reward: 333.32740392293954, Q Loss: 2780353.736328125, Actor Loss: -104300.17431640625  
Episode 6996: Time: 0.5757527351379395, Total Reward: 481.3898172457032, Q Loss: 3504744.119140625, Actor Loss: -148187.45190429688  
Episode 6997: Time: 0.3804490566253662, Total Reward: 313.67110818809203, Q Loss: 2202596.755859375, Actor Loss: -97805.666015625  
Episode 6998: Time: 0.3476998805999756, Total Reward: 284.60025807010226, Q Loss: 3075509.931640625, Actor Loss: -89768.91162109375  
Episode 6999: Time: 0.8577373027801514, Total Reward: 724.9440524538898, Q Loss: 5594796.9140625, Actor Loss: -226276.51489257812  
Validation Mean: 9355.172315505037, Validation Std: 0.43291001094917364  
saving model  
Episode 7000: Time: 0.46878480911254883, Total Reward: 387.4289926614396, Q Loss: 2879916.37890625, Actor Loss: -121555.45190429688  
Episode 7001: Time: 0.434112548828125, Total Reward: 361.57653117027115, Q Loss: 2599556.365234375, Actor Loss: -114419.87475585938  
Episode 7002: Time: 0.07633161544799805, Total Reward: 53.873427799905485, Q Loss: 605240.935546875, Actor Loss: -19001.61474609375  
Episode 7003: Time: 0.34780097007751465, Total Reward: 286.77148120991, Q Loss: 2456922.240234375, Actor Loss: -90169.943359375  
Episode 7004: Time: 0.18451189994812012, Total Reward: 146.65570395307887, Q Loss: 1207075.755859375, Actor Loss: -48640.215576171875  
Episode 7005: Time: 0.33658623695373535, Total Reward: 277.8465267910621, Q Loss: 2206433.2509765625, Actor Loss: -85829.97607421875  
Episode 7006: Time: 0.29327917098999023, Total Reward: 239.53798276373072, Q Loss: 1743018.66796875, Actor Loss: -78467.94555664062  
Episode 7007: Time: 0.38127970695495605, Total Reward: 314.7968830180399, Q Loss: 2332681.853515625, Actor Loss: -101832.84057617188  
Episode 7008: Time: 0.45638227462768555, Total Reward: 376.7414757885548, Q Loss: 2965806.1484375, Actor Loss: -120060.576171875  
Episode 7009: Time: 0.1305687427520752, Total Reward: 100.5535024176701, Q Loss: 819126.80859375, Actor Loss: -34496.628662109375  
Episode 7010: Time: 0.18509578704833984, Total Reward: 147.335014475855, Q Loss: 990043.890625, Actor Loss: -48356.355712890625  
Episode 7011: Time: 0.3584628105163574, Total Reward: 294.46298345396536, Q Loss: 2696314.88671875, Actor Loss: -92686.3056640625  
Episode 7012: Time: 0.5212986469268799, Total Reward: 434.5447303944954, Q Loss: 3368833.275390625, Actor Loss: -136182.607421875  
Episode 7013: Time: 0.10886812210083008, Total Reward: 82.01004548185759, Q Loss: 846462.232421875, Actor Loss: -27578.81689453125

Episode 7014: Time: 0.3807494640350342, Total Reward: 313.70113601299977, Q Loss: 2418546.75, Actor Loss: -96445.68090820312  
Episode 7015: Time: 0.27169156074523926, Total Reward: 220.72005066370335, Q Loss: 1908854.4609375, Actor Loss: -70256.84814453125  
Episode 7016: Time: 0.2612013816833496, Total Reward: 212.74800602767604, Q Loss: 1390127.8388671875, Actor Loss: -66556.55712890625  
Episode 7017: Time: 0.19556736946105957, Total Reward: 156.50414680402548, Q Loss: 1452031.2578125, Actor Loss: -51237.755615234375  
Episode 7018: Time: 0.3150975704193115, Total Reward: 258.16797162109714, Q Loss: 2080873.625, Actor Loss: -80643.38159179688  
Episode 7019: Time: 0.5540308952331543, Total Reward: 462.72901378871234, Q Loss: 4498517.6953125, Actor Loss: -143565.44750976562  
Episode 7020: Time: 0.4456465244293213, Total Reward: 370.4692283188038, Q Loss: 2698359.87109375, Actor Loss: -116430.67944335938  
Episode 7021: Time: 0.46703362464904785, Total Reward: 389.15746609899685, Q Loss: 3921592.9765625, Actor Loss: -123099.22680664062  
Episode 7022: Time: 0.1960315704345703, Total Reward: 156.33183109020092, Q Loss: 974018.326171875, Actor Loss: -53937.3984375  
Episode 7023: Time: 0.3369288444519043, Total Reward: 277.13906822400736, Q Loss: 2171107.51171875, Actor Loss: -91053.1484375  
Episode 7024: Time: 0.32605457305908203, Total Reward: 268.66871447029405, Q Loss: 2419717.8359375, Actor Loss: -84943.66845703125  
Episode 7025: Time: 0.11995959281921387, Total Reward: 91.24857463818432, Q Loss: 803641.28125, Actor Loss: -31243.551513671875  
Episode 7026: Time: 0.29413366317749023, Total Reward: 240.04272304330317, Q Loss: 2194160.970703125, Actor Loss: -74589.3974609375  
Episode 7027: Time: 0.6082718372344971, Total Reward: 509.18423411996184, Q Loss: 4030334.5390625, Actor Loss: -160425.380859375  
Episode 7028: Time: 0.28299641609191895, Total Reward: 228.90557854699728, Q Loss: 1649967.0859375, Actor Loss: -73558.46142578125  
Episode 7029: Time: 0.0979163646697998, Total Reward: 72.63032590569519, Q Loss: 813593.94140625, Actor Loss: -24664.274658203125  
Episode 7030: Time: 0.2725343704223633, Total Reward: 221.08425771951565, Q Loss: 1725373.654296875, Actor Loss: -72730.97875976562  
Episode 7031: Time: 0.5319101810455322, Total Reward: 444.13477513932423, Q Loss: 4200062.37109375, Actor Loss: -141236.1416015625  
Episode 7032: Time: 0.40247440338134766, Total Reward: 331.9636045653719, Q Loss: 3232001.15234375, Actor Loss: -106967.23022460938  
Episode 7033: Time: 0.48819947242736816, Total Reward: 407.3785891659881, Q Loss: 3394208.533203125, Actor Loss: -127765.87426757812  
Episode 7034: Time: 0.17390894889831543, Total Reward: 137.77829074108234, Q Loss: 1194686.8203125, Actor Loss: -45720.8349609375  
Episode 7035: Time: 0.434751033782959, Total Reward: 361.8283027762893, Q Loss: 2931594.580078125, Actor Loss: -116230.47924804688  
Episode 7036: Time: 0.4453425407409668, Total Reward: 370.58184137012773, Q Loss: 2974620.71484375, Actor Loss: -118296.33984375  
Episode 7037: Time: 0.3590834140777588, Total Reward: 295.35529836958455, Q Loss: 2451232.544921875, Actor Loss: -94214.40234375  
Episode 7038: Time: 0.3267841339111328, Total Reward: 268.053054817554, Q Loss: 2051607.884765625, Actor Loss: -85924.40795898438  
Episode 7039: Time: 0.21739912033081055, Total Reward: 173.15873907748548, Q Loss: 1336232.357421875, Actor Loss: -58563.4736328125  
Episode 7040: Time: 0.3048379421234131, Total Reward: 247.20622156957666, Q Loss: 2407087.0146484375, Actor Loss: -83196.94067382812  
Episode 7041: Time: 0.37004590034484863, Total Reward: 302.6422666763679, Q Loss: 2391762.93359375, Actor Loss: -98732.75854492188

Episode 7042: Time: 0.2072288990020752, Total Reward: 165.05456214750888, Q Loss: 1594711.380859375, Actor Loss: -53791.499755859375  
Episode 7043: Time: 0.1742408275604248, Total Reward: 137.66973530331154, Q Loss: 1205552.185546875, Actor Loss: -46229.095947265625  
Episode 7044: Time: 0.2830052375793457, Total Reward: 228.58581179196256, Q Loss: 1757941.283203125, Actor Loss: -74903.7998046875  
Episode 7045: Time: 0.3698875904083252, Total Reward: 304.06123439750866, Q Loss: 2570093.63671875, Actor Loss: -99142.52270507812  
Episode 7046: Time: 0.29393577575683594, Total Reward: 240.9525885749639, Q Loss: 1937996.3359375, Actor Loss: -78425.4423828125  
Episode 7047: Time: 0.14153766632080078, Total Reward: 109.46241512925369, Q Loss: 1314335.67578125, Actor Loss: -37744.4912109375  
Episode 7048: Time: 0.17450761795043945, Total Reward: 137.66563431907363, Q Loss: 1184550.234375, Actor Loss: -47758.0341796875  
Episode 7049: Time: 0.5865719318389893, Total Reward: 489.0296223734493, Q Loss: 4437354.91796875, Actor Loss: -157369.77197265625  
Episode 7050: Time: 0.6838359832763672, Total Reward: 575.869763444969, Q Loss: 5183428.59375, Actor Loss: -185035.93237304688  
Episode 7051: Time: 0.34821391105651855, Total Reward: 285.9120744399398, Q Loss: 2502143.94921875, Actor Loss: -92993.88403320312  
Episode 7052: Time: 0.5640978813171387, Total Reward: 473.8512259482969, Q Loss: 4291376.794921875, Actor Loss: -151769.22412109375  
Episode 7053: Time: 0.2713654041290283, Total Reward: 221.9769943749184, Q Loss: 1535464.0546875, Actor Loss: -75391.47045898438  
Episode 7054: Time: 0.23924922943115234, Total Reward: 191.8962472177294, Q Loss: 1481847.580078125, Actor Loss: -63843.396728515625  
Episode 7055: Time: 0.19582796096801758, Total Reward: 156.26175383916143, Q Loss: 1572109.80859375, Actor Loss: -52329.19091796875  
Episode 7056: Time: 0.18560528755187988, Total Reward: 146.41418959133134, Q Loss: 1005342.3203125, Actor Loss: -48410.269287109375  
Episode 7057: Time: 0.24986839294433594, Total Reward: 199.62120276965382, Q Loss: 1965319.845703125, Actor Loss: -66506.8505859375  
Episode 7058: Time: 0.3913865089416504, Total Reward: 322.50612229095236, Q Loss: 2814108.0234375, Actor Loss: -102306.26098632812  
Episode 7059: Time: 0.49986743927001953, Total Reward: 417.8688246582136, Q Loss: 3785455.57421875, Actor Loss: -135233.998046875  
Episode 7060: Time: 0.30469465255737305, Total Reward: 248.55843982174585, Q Loss: 2162481.64453125, Actor Loss: -80512.40063476562  
Episode 7061: Time: 0.39160966873168945, Total Reward: 323.92918427669764, Q Loss: 3356557.6171875, Actor Loss: -101680.02075195312  
Episode 7062: Time: 0.33764052391052246, Total Reward: 276.59696357856734, Q Loss: 2262081.486328125, Actor Loss: -90570.37060546875  
Episode 7063: Time: 0.32653141021728516, Total Reward: 267.80677756754295, Q Loss: 2636713.21875, Actor Loss: -85493.1923828125  
Episode 7064: Time: 0.20713043212890625, Total Reward: 165.45662525570881, Q Loss: 1393271.345703125, Actor Loss: -54577.363525390625  
Episode 7065: Time: 0.21787285804748535, Total Reward: 175.11897357470585, Q Loss: 1691545.0, Actor Loss: -59331.91845703125  
Episode 7066: Time: 0.40192389488220215, Total Reward: 330.9785271224879, Q Loss: 2639918.828125, Actor Loss: -108575.26586914062  
Episode 7067: Time: 0.23975324630737305, Total Reward: 193.37650239924983, Q Loss: 1607351.109375, Actor Loss: -66503.21557617188  
Episode 7068: Time: 0.2503821849822998, Total Reward: 203.67119855177913, Q Loss: 1799549.853515625, Actor Loss: -69386.32299804688  
Episode 7069: Time: 0.5650100708007812, Total Reward: 472.9350515316478, Q Loss: 4223004.78125, Actor Loss: -151003.44653320312

Episode 7070: Time: 0.21770572662353516, Total Reward: 174.5840024900648, Q Loss: 2002134.86328125, Actor Loss: -58505.27587890625  
Episode 7071: Time: 0.5337646007537842, Total Reward: 443.459417995292, Q Loss: 3568243.23828125, Actor Loss: -141146.25610351562  
Episode 7072: Time: 0.37028002738952637, Total Reward: 305.4780432351412, Q Loss: 2636877.935546875, Actor Loss: -100771.25659179688  
Episode 7073: Time: 0.4134228229522705, Total Reward: 341.5432594126461, Q Loss: 3029481.421875, Actor Loss: -110488.1708984375  
Episode 7074: Time: 1.0322043895721436, Total Reward: 871.5694749984002, Q Loss: 7955021.07421875, Actor Loss: -280891.8947753906  
Episode 7075: Time: 0.20716428756713867, Total Reward: 166.05373041609167, Q Loss: 1750340.427734375, Actor Loss: -55452.314208984375  
Episode 7076: Time: 0.10905647277832031, Total Reward: 81.48215383440397, Q Loss: 845837.546875, Actor Loss: -29583.6552734375  
Episode 7077: Time: 0.272258996963501, Total Reward: 222.60547606838523, Q Loss: 1902765.82421875, Actor Loss: -72978.58520507812  
Episode 7078: Time: 0.13059711456298828, Total Reward: 101.07019541235083, Q Loss: 1001607.689453125, Actor Loss: -34887.558837890625  
Episode 7079: Time: 0.08775019645690918, Total Reward: 62.65022880859254, Q Loss: 629547.03125, Actor Loss: -21632.99755859375  
Episode 7080: Time: 0.294403076171875, Total Reward: 239.54318030998692, Q Loss: 2194668.126953125, Actor Loss: -77843.19091796875  
Episode 7081: Time: 0.23982858657836914, Total Reward: 193.7455266412876, Q Loss: 1515884.251953125, Actor Loss: -64549.599609375  
Episode 7082: Time: 0.2844889163970947, Total Reward: 230.27509093665523, Q Loss: 1997902.892578125, Actor Loss: -74951.76928710938  
Episode 7083: Time: 0.22930121421813965, Total Reward: 184.10800375743682, Q Loss: 1765230.0234375, Actor Loss: -62136.255615234375  
Episode 7084: Time: 0.34881043434143066, Total Reward: 286.3092676043736, Q Loss: 2419607.197265625, Actor Loss: -92513.52368164062  
Episode 7085: Time: 0.26160192489624023, Total Reward: 212.00171610932202, Q Loss: 1710350.095703125, Actor Loss: -70516.501953125  
Episode 7086: Time: 0.3815298080444336, Total Reward: 314.7471452551798, Q Loss: 3298689.189453125, Actor Loss: -104104.56298828125  
Episode 7087: Time: 0.32712864875793457, Total Reward: 268.13008345386044, Q Loss: 2610441.435546875, Actor Loss: -92692.98315429688  
Episode 7088: Time: 0.26203036308288574, Total Reward: 212.12731025720424, Q Loss: 1556188.458984375, Actor Loss: -70727.95532226562  
Episode 7089: Time: 0.17435193061828613, Total Reward: 137.7151106503039, Q Loss: 1267353.724609375, Actor Loss: -48827.517333984375  
Episode 7090: Time: 0.20740246772766113, Total Reward: 165.8900435072769, Q Loss: 1530451.76953125, Actor Loss: -57319.09423828125  
Episode 7091: Time: 0.6308739185333252, Total Reward: 528.450026521827, Q Loss: 4550329.7421875, Actor Loss: -173822.11474609375  
Episode 7092: Time: 0.30460143089294434, Total Reward: 249.9321785200133, Q Loss: 2460915.7890625, Actor Loss: -83068.18603515625  
Episode 7093: Time: 0.1524336338043213, Total Reward: 118.63182625616017, Q Loss: 873036.5234375, Actor Loss: -40032.01611328125  
Episode 7094: Time: 0.987372636795044, Total Reward: 833.3568626064375, Q Loss: 7099783.591796875, Actor Loss: -267495.87890625  
Episode 7095: Time: 0.3369622230529785, Total Reward: 278.12406259890776, Q Loss: 2533515.0859375, Actor Loss: -92731.08447265625  
Episode 7096: Time: 0.41273021697998047, Total Reward: 342.7635088705603, Q Loss: 2646143.630859375, Actor Loss: -110361.5986328125  
Episode 7097: Time: 0.2732362747192383, Total Reward: 221.66750285556304, Q Loss: 2146247.943359375, Actor Loss: -73583.04638671875



Episode 7098: Time: 0.40288257598876953, Total Reward: 332.74897244403707, Q Loss: 3662726.265625, Actor Loss: -110293.21459960938  
Episode 7099: Time: 0.39182376861572266, Total Reward: 323.02548924034085, Q Loss: 2737683.58984375, Actor Loss: -107598.19946289062  
Validation Mean: 9355.110590103075, Validation Std: 0.4416315066679033  
saving model  
Episode 7100: Time: 0.18645834922790527, Total Reward: 147.4715289638417, Q Loss: 1791235.171875, Actor Loss: -51450.440673828125  
Episode 7101: Time: 0.14214444160461426, Total Reward: 108.80347556267971, Q Loss: 927990.859375, Actor Loss: -39825.19873046875  
Episode 7102: Time: 0.4144608974456787, Total Reward: 342.3926502143892, Q Loss: 3987486.30078125, Actor Loss: -107986.96850585938  
Episode 7103: Time: 0.2940666675567627, Total Reward: 240.1225162791015, Q Loss: 2195936.765625, Actor Loss: -79282.35205078125  
Episode 7104: Time: 0.803577184677124, Total Reward: 678.7422128199892, Q Loss: 5910809.4716796875, Actor Loss: -222405.52783203125  
Episode 7105: Time: 0.7166502475738525, Total Reward: 603.6336274837251, Q Loss: 5462193.353515625, Actor Loss: -192842.34326171875  
Episode 7106: Time: 0.05469202995300293, Total Reward: 35.31191983384645, Q Loss: 253502.6484375, Actor Loss: -15229.473388671875  
Episode 7107: Time: 0.27194833755493164, Total Reward: 219.9602481488312, Q Loss: 1902964.724609375, Actor Loss: -72725.41650390625  
Episode 7108: Time: 0.30448341369628906, Total Reward: 250.01884618830448, Q Loss: 1982677.587890625, Actor Loss: -84066.81005859375  
Episode 7109: Time: 0.3697023391723633, Total Reward: 305.7177954077009, Q Loss: 2731927.78125, Actor Loss: -99308.142578125  
Episode 7110: Time: 0.23905134201049805, Total Reward: 194.17144671912462, Q Loss: 1489063.099609375, Actor Loss: -66837.95654296875  
Episode 7111: Time: 0.22863245010375977, Total Reward: 183.51571857567777, Q Loss: 1634242.44921875, Actor Loss: -61503.611328125  
Episode 7112: Time: 0.49873828887939453, Total Reward: 417.29812267605257, Q Loss: 3675938.951171875, Actor Loss: -136300.60546875  
Episode 7113: Time: 0.17393898963928223, Total Reward: 138.40619833535698, Q Loss: 927982.91796875, Actor Loss: -46210.251953125  
Episode 7114: Time: 0.19615387916564941, Total Reward: 155.15572241354758, Q Loss: 1188827.60546875, Actor Loss: -55513.80224609375  
Episode 7115: Time: 0.25011634826660156, Total Reward: 203.4112323277416, Q Loss: 1611271.654296875, Actor Loss: -68893.32299804688  
Episode 7116: Time: 0.4996681213378906, Total Reward: 417.5715362075144, Q Loss: 3974232.83203125, Actor Loss: -139355.27270507812  
Episode 7117: Time: 0.2828366756439209, Total Reward: 230.10738875936497, Q Loss: 1886757.978515625, Actor Loss: -78859.07983398438  
Episode 7118: Time: 0.48772764205932617, Total Reward: 408.8869370862963, Q Loss: 3665547.4453125, Actor Loss: -136469.91870117188  
Episode 7119: Time: 0.2065577507019043, Total Reward: 165.72481065649518, Q Loss: 1549832.609375, Actor Loss: -57931.29638671875  
Episode 7120: Time: 0.16346383094787598, Total Reward: 129.0068590074364, Q Loss: 1692991.07421875, Actor Loss: -45035.416748046875  
Episode 7121: Time: 0.3366084098815918, Total Reward: 277.7049682427237, Q Loss: 2383476.8671875, Actor Loss: -91044.7783203125  
Episode 7122: Time: 0.28214216232299805, Total Reward: 231.14061227805766, Q Loss: 2219553.26953125, Actor Loss: -77130.41577148438  
Episode 7123: Time: 0.29289770126342773, Total Reward: 239.86745405061106, Q Loss: 2675398.7734375, Actor Loss: -79943.95068359375  
Episode 7124: Time: 0.369152307510376, Total Reward: 305.78153197291783, Q Loss: 2806624.48046875, Actor Loss: -100252.22778320312

Episode 7125: Time: 0.4989967346191406, Total Reward: 417.83304685466993, Q Loss: 3822086.11328125, Actor Loss: -140841.9443359375  
Episode 7126: Time: 0.28238940238952637, Total Reward: 230.6306564723734, Q Loss: 2538424.880859375, Actor Loss: -76849.5966796875  
Episode 7127: Time: 0.37946009635925293, Total Reward: 315.35770645761903, Q Loss: 2660250.42578125, Actor Loss: -106920.35888671875  
Episode 7128: Time: 0.4340033531188965, Total Reward: 361.50160708515335, Q Loss: 3540529.755859375, Actor Loss: -120614.33154296875  
Episode 7129: Time: 0.29296207427978516, Total Reward: 239.4006882428397, Q Loss: 2030904.587890625, Actor Loss: -82603.9677734375  
Episode 7130: Time: 0.15215039253234863, Total Reward: 119.59378353489669, Q Loss: 878159.61328125, Actor Loss: -43270.44482421875  
Episode 7131: Time: 0.293060302734375, Total Reward: 240.06704609611464, Q Loss: 1990816.658203125, Actor Loss: -80220.27294921875  
Episode 7132: Time: 0.108795166015625, Total Reward: 81.86235877343164, Q Loss: 899854.80859375, Actor Loss: -30350.22412109375  
Episode 7133: Time: 0.2821009159088135, Total Reward: 231.4003892670394, Q Loss: 2466882.875, Actor Loss: -79141.1279296875  
Episode 7134: Time: 0.20659565925598145, Total Reward: 163.73047855381344, Q Loss: 1491234.244140625, Actor Loss: -57262.16943359375  
Episode 7135: Time: 0.4118843078613281, Total Reward: 340.70984308771233, Q Loss: 3724230.578125, Actor Loss: -114078.63525390625  
Episode 7136: Time: 0.2930583953857422, Total Reward: 240.35999739659164, Q Loss: 2210596.435546875, Actor Loss: -83532.54711914062  
Episode 7137: Time: 0.46720027923583984, Total Reward: 387.74572023719537, Q Loss: 2897180.69140625, Actor Loss: -129705.31640625  
Episode 7138: Time: 0.35802388191223145, Total Reward: 296.87786132666156, Q Loss: 3400831.970703125, Actor Loss: -100104.90283203125  
Episode 7139: Time: 0.5095455646514893, Total Reward: 425.6926077741423, Q Loss: 3839752.0791015625, Actor Loss: -140862.87133789062  
Episode 7140: Time: 0.21749258041381836, Total Reward: 174.6230476135006, Q Loss: 1491516.9921875, Actor Loss: -61565.335205078125  
Episode 7141: Time: 0.1195993423461914, Total Reward: 90.62077265205073, Q Loss: 929250.970703125, Actor Loss: -34357.650390625  
Episode 7142: Time: 0.48833703994750977, Total Reward: 406.5775681088865, Q Loss: 3560381.4375, Actor Loss: -136001.4345703125  
Episode 7143: Time: 0.3804442882537842, Total Reward: 313.83212065292946, Q Loss: 2852407.541015625, Actor Loss: -105205.447265625  
Episode 7144: Time: 0.0871133804321289, Total Reward: 62.89341240518749, Q Loss: 629859.35546875, Actor Loss: -23781.6904296875  
Episode 7145: Time: 0.22873830795288086, Total Reward: 183.57361433578308, Q Loss: 1374263.404296875, Actor Loss: -64319.347412109375  
Episode 7146: Time: 0.479140043258667, Total Reward: 399.36972392811344, Q Loss: 3752396.349609375, Actor Loss: -129302.49780273438  
Episode 7147: Time: 0.46735286712646484, Total Reward: 386.90886041684854, Q Loss: 3298932.982421875, Actor Loss: -131053.71118164062  
Episode 7148: Time: 0.36961841583251953, Total Reward: 304.58418655936333, Q Loss: 2985771.380859375, Actor Loss: -102376.1416015625  
Episode 7149: Time: 0.18508243560791016, Total Reward: 147.16410321576444, Q Loss: 1703541.05078125, Actor Loss: -51475.810302734375  
Episode 7150: Time: 0.22829532623291016, Total Reward: 184.93749430104117, Q Loss: 1799400.875, Actor Loss: -64370.962890625  
Episode 7151: Time: 0.30368685722351074, Total Reward: 248.3712493003426, Q Loss: 2151910.8203125, Actor Loss: -85047.24389648438  
Episode 7152: Time: 0.32584166526794434, Total Reward: 268.48589492678457, Q Loss: 2570855.34765625, Actor Loss: -91453.77612304688

Episode 7153: Time: 0.3041813373565674, Total Reward: 247.47038663490775, Q Loss: 2762160.45703125, Actor Loss: -84978.0947265625  
Episode 7154: Time: 0.7491035461425781, Total Reward: 631.8861558413856, Q Loss: 6222938.5, Actor Loss: -209168.40869140625  
Episode 7155: Time: 0.3481624126434326, Total Reward: 285.3220177752093, Q Loss: 2193200.130859375, Actor Loss: -97344.88037109375  
Episode 7156: Time: 0.39159703254699707, Total Reward: 321.9758598793772, Q Loss: 2728593.998046875, Actor Loss: -110443.2216796875  
Episode 7157: Time: 0.2284679412841797, Total Reward: 184.65863797500754, Q Loss: 1499275.126953125, Actor Loss: -61455.28955078125  
Episode 7158: Time: 0.3911166191101074, Total Reward: 324.32090041181016, Q Loss: 2792628.134765625, Actor Loss: -108193.65844726562  
Episode 7159: Time: 0.4459655284881592, Total Reward: 370.1432583038415, Q Loss: 3813822.880859375, Actor Loss: -124775.91455078125  
Episode 7160: Time: 0.5216326713562012, Total Reward: 435.08628414607307, Q Loss: 3949804.806640625, Actor Loss: -144698.62548828125  
Episode 7161: Time: 0.17400145530700684, Total Reward: 138.02145493250717, Q Loss: 1101672.619140625, Actor Loss: -47256.935546875  
Episode 7162: Time: 0.6302459239959717, Total Reward: 528.6489471455275, Q Loss: 5430979.861328125, Actor Loss: -178259.958984375  
Episode 7163: Time: 0.1742560863494873, Total Reward: 137.39651431796665, Q Loss: 1158406.810546875, Actor Loss: -49106.46337890625  
Episode 7164: Time: 0.3588719367980957, Total Reward: 296.4294681484745, Q Loss: 2903604.814453125, Actor Loss: -99268.05859375  
Episode 7165: Time: 0.2619171142578125, Total Reward: 211.48869291635842, Q Loss: 2244348.099609375, Actor Loss: -74410.14672851562  
Episode 7166: Time: 0.20721983909606934, Total Reward: 165.98851418546786, Q Loss: 1817319.796875, Actor Loss: -58462.846923828125  
Episode 7167: Time: 0.5432264804840088, Total Reward: 453.5495460393395, Q Loss: 4037090.8662109375, Actor Loss: -154474.66674804688  
Episode 7168: Time: 0.3376140594482422, Total Reward: 277.3694040358158, Q Loss: 2328841.00390625, Actor Loss: -96165.833984375  
Episode 7169: Time: 0.31549882888793945, Total Reward: 257.44660284070926, Q Loss: 2200462.94140625, Actor Loss: -85753.041015625  
Episode 7170: Time: 0.20677876472473145, Total Reward: 166.01251563670613, Q Loss: 1877856.51171875, Actor Loss: -58930.66650390625  
Episode 7171: Time: 0.48925065994262695, Total Reward: 408.41387393790535, Q Loss: 3734900.630859375, Actor Loss: -138110.52905273438  
Episode 7172: Time: 0.6951572895050049, Total Reward: 584.744358959998, Q Loss: 6114283.396484375, Actor Loss: -195759.18627929688  
Episode 7173: Time: 0.33644628524780273, Total Reward: 277.34483365243386, Q Loss: 2742469.80859375, Actor Loss: -97178.7099609375  
Episode 7174: Time: 0.2614290714263916, Total Reward: 211.0863782769871, Q Loss: 1804967.115234375, Actor Loss: -74960.39770507812  
Episode 7175: Time: 0.35910940170288086, Total Reward: 295.10038874692526, Q Loss: 2736699.078125, Actor Loss: -100817.3505859375  
Episode 7176: Time: 0.33753037452697754, Total Reward: 277.72595780434153, Q Loss: 2781724.783203125, Actor Loss: -97362.44604492188  
Episode 7177: Time: 0.33683323860168457, Total Reward: 276.7359263264771, Q Loss: 2475736.37890625, Actor Loss: -96677.44555664062  
Episode 7178: Time: 0.2938659191131592, Total Reward: 240.56832410651356, Q Loss: 2670799.607421875, Actor Loss: -81787.6337890625  
Episode 7179: Time: 0.15302610397338867, Total Reward: 119.0145038529803, Q Loss: 1079539.888671875, Actor Loss: -42902.704833984375  
Episode 7180: Time: 0.08780980110168457, Total Reward: 63.60387945729262, Q Loss: 832474.1875, Actor Loss: -23241.771484375

Episode 7181: Time: 0.3265976905822754, Total Reward: 269.05474390069656, Q Loss: 2505900.630859375, Actor Loss: -93536.78198242188  
Episode 7182: Time: 0.2394700050354004, Total Reward: 193.4779805767666, Q Loss: 1767077.005859375, Actor Loss: -66628.91772460938  
Episode 7183: Time: 0.2613248825073242, Total Reward: 211.32206936367413, Q Loss: 1943659.578125, Actor Loss: -73381.88232421875  
Episode 7184: Time: 0.29371094703674316, Total Reward: 239.29727226835732, Q Loss: 3013350.283203125, Actor Loss: -84210.16259765625  
Episode 7185: Time: 0.35838961601257324, Total Reward: 296.2899809558694, Q Loss: 3363863.052734375, Actor Loss: -101897.3173828125  
Episode 7186: Time: 0.552595853805542, Total Reward: 464.304324382329, Q Loss: 4834175.544921875, Actor Loss: -156580.16064453125  
Episode 7187: Time: 0.2929365634918213, Total Reward: 240.29213953134413, Q Loss: 2433985.505859375, Actor Loss: -82814.81884765625  
Episode 7188: Time: 0.4016435146331787, Total Reward: 332.94769414032066, Q Loss: 3527340.33984375, Actor Loss: -115949.6962890625  
Episode 7189: Time: 0.28249049186706543, Total Reward: 227.08550061167068, Q Loss: 2623409.599609375, Actor Loss: -79235.0810546875  
Episode 7190: Time: 0.14150738716125488, Total Reward: 110.31929400033877, Q Loss: 1069200.9296875, Actor Loss: -39801.286865234375  
Episode 7191: Time: 0.4346776008605957, Total Reward: 360.3409052620386, Q Loss: 3587238.9453125, Actor Loss: -126590.31372070312  
Episode 7192: Time: 0.20712947845458984, Total Reward: 165.62046090569842, Q Loss: 1694995.56640625, Actor Loss: -59604.40185546875  
Episode 7193: Time: 0.23970413208007812, Total Reward: 193.7504212617008, Q Loss: 2092772.189453125, Actor Loss: -67068.80419921875  
Episode 7194: Time: 0.2826192378997803, Total Reward: 229.04550474943298, Q Loss: 1766829.251953125, Actor Loss: -79392.38916015625  
Episode 7195: Time: 0.5974199771881104, Total Reward: 497.5467339338224, Q Loss: 5270927.94140625, Actor Loss: -169485.55029296875  
Episode 7196: Time: 0.29381418228149414, Total Reward: 239.31046987260729, Q Loss: 2847587.623046875, Actor Loss: -82169.46899414062  
Episode 7197: Time: 0.1522960662841797, Total Reward: 118.99767984861494, Q Loss: 1324587.75, Actor Loss: -45332.102294921875  
Episode 7198: Time: 0.16409969329833984, Total Reward: 128.51173018476757, Q Loss: 1158292.6640625, Actor Loss: -45303.34521484375  
Episode 7199: Time: 0.7818763256072998, Total Reward: 658.074331811913, Q Loss: 5842116.8359375, Actor Loss: -224459.36767578125  
Validation Mean: 9355.222150636884, Validation Std: 0.4302313530482418  
saving model  
Episode 7200: Time: 0.42672252655029297, Total Reward: 352.21888765081246, Q Loss: 3084288.36328125, Actor Loss: -122857.49267578125  
Episode 7201: Time: 0.14156222343444824, Total Reward: 109.24308091017248, Q Loss: 1035855.814453125, Actor Loss: -40936.16943359375  
Episode 7202: Time: 0.2288961410522461, Total Reward: 183.48998990092602, Q Loss: 2125242.322265625, Actor Loss: -64415.972900390625  
Episode 7203: Time: 0.30463194847106934, Total Reward: 248.3154833791859, Q Loss: 2274842.93359375, Actor Loss: -87734.44555664062  
Episode 7204: Time: 0.3264327049255371, Total Reward: 267.8679372519741, Q Loss: 2298937.697265625, Actor Loss: -95681.06005859375  
Episode 7205: Time: 0.2837095260620117, Total Reward: 230.42746189134536, Q Loss: 2695429.546875, Actor Loss: -83292.02221679688  
Episode 7206: Time: 0.0764915943145752, Total Reward: 53.977965101403925, Q Loss: 539651.8203125, Actor Loss: -23258.56396484375  
Episode 7207: Time: 0.46840739250183105, Total Reward: 389.0737948618695, Q Loss: 3843992.51171875, Actor Loss: -131889.00024414062

Episode 7208: Time: 0.31560325622558594, Total Reward: 258.5496697701942, Q Loss: 2477219.412109375, Actor Loss: -90886.43969726562  
Episode 7209: Time: 0.11985325813293457, Total Reward: 91.33431025446184, Q Loss: 1145602.91796875, Actor Loss: -35398.23193359375  
Episode 7210: Time: 0.07639956474304199, Total Reward: 53.73651788063294, Q Loss: 408141.890625, Actor Loss: -22162.86474609375  
Episode 7211: Time: 0.4456512928009033, Total Reward: 369.3794890953927, Q Loss: 4183394.8515625, Actor Loss: -128247.71997070312  
Episode 7212: Time: 0.31471896171569824, Total Reward: 258.3638133668794, Q Loss: 2860701.73046875, Actor Loss: -88272.93359375  
Episode 7213: Time: 0.3928070068359375, Total Reward: 324.33854673692196, Q Loss: 3506626.23828125, Actor Loss: -109031.28125  
Episode 7214: Time: 0.13080358505249023, Total Reward: 100.11852495157827, Q Loss: 1126500.984375, Actor Loss: -39220.118896484375  
Episode 7215: Time: 0.2937188148498535, Total Reward: 238.68754037834663, Q Loss: 2690776.37109375, Actor Loss: -84718.37451171875  
Episode 7216: Time: 0.23948049545288086, Total Reward: 193.16075226496076, Q Loss: 1841917.091796875, Actor Loss: -67770.24072265625  
Episode 7217: Time: 0.4234035015106201, Total Reward: 351.8588983310913, Q Loss: 4005151.248046875, Actor Loss: -124383.55395507812  
Episode 7218: Time: 0.5981459617614746, Total Reward: 497.5190432702397, Q Loss: 5008966.17578125, Actor Loss: -175324.32495117188  
Episode 7219: Time: 0.3480236530303955, Total Reward: 286.24718715214135, Q Loss: 3542893.73046875, Actor Loss: -102085.47412109375  
Episode 7220: Time: 0.3805525302886963, Total Reward: 314.8343087632766, Q Loss: 3089185.201171875, Actor Loss: -106751.74829101562  
Episode 7221: Time: 0.4349832534790039, Total Reward: 359.4793569876112, Q Loss: 4121475.78515625, Actor Loss: -123930.37915039062  
Episode 7222: Time: 0.47833681106567383, Total Reward: 398.9191318164645, Q Loss: 3985747.408203125, Actor Loss: -141774.26586914062  
Episode 7223: Time: 0.28269410133361816, Total Reward: 229.94118467038015, Q Loss: 2072012.568359375, Actor Loss: -82545.80541992188  
Episode 7224: Time: 0.2070024013519287, Total Reward: 163.9925182688451, Q Loss: 1435839.826171875, Actor Loss: -59352.280029296875  
Episode 7225: Time: 0.4023711681365967, Total Reward: 333.1641442175202, Q Loss: 3986367.03515625, Actor Loss: -115552.03442382812  
Episode 7226: Time: 0.3259289264678955, Total Reward: 267.7073879134049, Q Loss: 3326343.71484375, Actor Loss: -93979.380859375  
Episode 7227: Time: 0.4245309829711914, Total Reward: 350.0201339606699, Q Loss: 4133644.810546875, Actor Loss: -123391.90405273438  
Episode 7228: Time: 0.20677614212036133, Total Reward: 165.62905738283547, Q Loss: 2074265.52734375, Actor Loss: -60434.797119140625  
Episode 7229: Time: 0.44614243507385254, Total Reward: 367.53441178528715, Q Loss: 3920620.33203125, Actor Loss: -129575.318359375  
Episode 7230: Time: 0.3052859306335449, Total Reward: 248.8398770202524, Q Loss: 2561509.810546875, Actor Loss: -88244.96411132812  
Episode 7231: Time: 0.19590520858764648, Total Reward: 155.77319817748702, Q Loss: 1793066.4375, Actor Loss: -56279.471923828125  
Episode 7232: Time: 0.619647741317749, Total Reward: 519.5877702227061, Q Loss: 5707555.263671875, Actor Loss: -176046.25439453125  
Episode 7233: Time: 0.40174293518066406, Total Reward: 333.7742077604049, Q Loss: 3010028.15625, Actor Loss: -118110.63110351562  
Episode 7234: Time: 0.4996516704559326, Total Reward: 417.5692845305662, Q Loss: 4688225.931640625, Actor Loss: -144670.19165039062  
Episode 7235: Time: 0.5540015697479248, Total Reward: 464.52478479042827, Q Loss: 4509868.962890625, Actor Loss: -164187.72973632812

Episode 7236: Time: 0.2285308837890625, Total Reward: 184.25714123872325, Q Loss: 1699661.306640625, Actor Loss: -67340.591796875  
Episode 7237: Time: 0.2614307403564453, Total Reward: 211.4429786461438, Q Loss: 2575082.560546875, Actor Loss: -77002.87426757812  
Episode 7238: Time: 0.2612264156341553, Total Reward: 211.30574857189072, Q Loss: 2346661.4921875, Actor Loss: -74471.8408203125  
Episode 7239: Time: 0.14142060279846191, Total Reward: 110.06535518480025, Q Loss: 1015638.15625, Actor Loss: -38690.6025390625  
Episode 7240: Time: 0.13080954551696777, Total Reward: 100.5246833798692, Q Loss: 1035072.79296875, Actor Loss: -38455.59765625  
Episode 7241: Time: 0.4349551200866699, Total Reward: 361.31576553519466, Q Loss: 3717060.0546875, Actor Loss: -128839.75463867188  
Episode 7242: Time: 0.3915367126464844, Total Reward: 322.1580304136287, Q Loss: 3305438.365234375, Actor Loss: -114914.55078125  
Episode 7243: Time: 0.40194082260131836, Total Reward: 332.09157398204303, Q Loss: 3559258.18359375, Actor Loss: -118001.87963867188  
Episode 7244: Time: 0.1957545280456543, Total Reward: 157.09379989978441, Q Loss: 1680598.353515625, Actor Loss: -58629.850830078125  
Episode 7245: Time: 0.16350793838500977, Total Reward: 127.83943997082751, Q Loss: 1466653.0078125, Actor Loss: -48517.251953125  
Episode 7246: Time: 0.1850719451904297, Total Reward: 145.91222039562192, Q Loss: 1452271.013671875, Actor Loss: -53186.08154296875  
Episode 7247: Time: 0.6090090274810791, Total Reward: 510.842622766133, Q Loss: 5215002.466796875, Actor Loss: -176384.03344726562  
Episode 7248: Time: 0.12137198448181152, Total Reward: 90.82298861563955, Q Loss: 962694.61328125, Actor Loss: -34463.977294921875  
Episode 7249: Time: 0.31519222259521484, Total Reward: 259.1736859367387, Q Loss: 2177353.203125, Actor Loss: -92316.8818359375  
Episode 7250: Time: 0.13028550148010254, Total Reward: 100.50604571850891, Q Loss: 1192932.84765625, Actor Loss: -38022.822509765625  
Episode 7251: Time: 0.32624292373657227, Total Reward: 268.18011086995335, Q Loss: 2918023.119140625, Actor Loss: -94896.28198242188  
Episode 7252: Time: 0.30423641204833984, Total Reward: 249.41730707448932, Q Loss: 2427446.072265625, Actor Loss: -89180.06298828125  
Episode 7253: Time: 0.5643644332885742, Total Reward: 470.7770633165812, Q Loss: 4783489.77734375, Actor Loss: -167542.90795898438  
Episode 7254: Time: 0.20665502548217773, Total Reward: 165.00661521739045, Q Loss: 2010347.32421875, Actor Loss: -59923.003662109375  
Episode 7255: Time: 0.28191161155700684, Total Reward: 230.75005539946252, Q Loss: 2373251.4921875, Actor Loss: -83074.07495117188  
Episode 7256: Time: 0.369706392288208, Total Reward: 305.56313867838037, Q Loss: 3067700.384765625, Actor Loss: -109649.5595703125  
Episode 7257: Time: 0.36919093132019043, Total Reward: 305.1201482603371, Q Loss: 3498299.875, Actor Loss: -110399.12817382812  
Episode 7258: Time: 0.10888886451721191, Total Reward: 82.06319099931137, Q Loss: 730317.994140625, Actor Loss: -32591.777587890625  
Episode 7259: Time: 0.26117372512817383, Total Reward: 209.93607977492485, Q Loss: 2299476.048828125, Actor Loss: -78148.13598632812  
Episode 7260: Time: 0.39155006408691406, Total Reward: 324.11046193015244, Q Loss: 2986337.318359375, Actor Loss: -115739.41650390625  
Episode 7261: Time: 0.27163076400756836, Total Reward: 218.9161305256411, Q Loss: 2060885.859375, Actor Loss: -82316.54736328125  
Episode 7262: Time: 0.11965656280517578, Total Reward: 91.26025402649782, Q Loss: 884184.4453125, Actor Loss: -34505.781982421875  
Episode 7263: Time: 0.4339418411254883, Total Reward: 359.80016073586194, Q Loss: 3734321.41796875, Actor Loss: -127799.81494140625

Episode 7264: Time: 0.41322994232177734, Total Reward: 342.50426974697825, Q Loss: 3100658.642578125, Actor Loss: -123174.02172851562  
Episode 7265: Time: 0.32615137100219727, Total Reward: 268.1591877100885, Q Loss: 2727854.02734375, Actor Loss: -92918.7548828125  
Episode 7266: Time: 0.18488526344299316, Total Reward: 147.01921133602445, Q Loss: 1592517.294921875, Actor Loss: -53956.4404296875  
Episode 7267: Time: 0.8247795104980469, Total Reward: 696.0048892191163, Q Loss: 7022524.302734375, Actor Loss: -247483.35180664062  
Episode 7268: Time: 0.09812426567077637, Total Reward: 72.74975520041917, Q Loss: 772715.890625, Actor Loss: -28891.41845703125  
Episode 7269: Time: 0.42418360710144043, Total Reward: 350.83548207826374, Q Loss: 4015267.09375, Actor Loss: -126087.46850585938  
Episode 7270: Time: 0.6942441463470459, Total Reward: 585.1631823799114, Q Loss: 6281278.775390625, Actor Loss: -205525.06225585938  
Episode 7271: Time: 0.737511396408081, Total Reward: 622.0640759020147, Q Loss: 6592950.896484375, Actor Loss: -221074.80395507812  
Episode 7272: Time: 0.5001354217529297, Total Reward: 416.78921075502103, Q Loss: 4219349.58203125, Actor Loss: -147477.1357421875  
Episode 7273: Time: 0.3907735347747803, Total Reward: 323.77062555121745, Q Loss: 3113653.4296875, Actor Loss: -117547.7861328125  
Episode 7274: Time: 0.11956000328063965, Total Reward: 91.24788305714618, Q Loss: 1411208.5234375, Actor Loss: -36366.148681640625  
Episode 7275: Time: 0.33707308769226074, Total Reward: 275.1545009997453, Q Loss: 2517870.06640625, Actor Loss: -103300.99169921875  
Episode 7276: Time: 0.17401623725891113, Total Reward: 137.31065434460635, Q Loss: 1571870.24609375, Actor Loss: -52881.9453125  
Episode 7277: Time: 0.542656660079956, Total Reward: 453.1218079958703, Q Loss: 4395334.017578125, Actor Loss: -162526.78955078125  
Episode 7278: Time: 0.41306567192077637, Total Reward: 342.9693732654975, Q Loss: 2807023.314453125, Actor Loss: -125513.57446289062  
Episode 7279: Time: 0.5422685146331787, Total Reward: 455.1354317611321, Q Loss: 5206797.958984375, Actor Loss: -163129.46606445312  
Episode 7280: Time: 0.1630873680114746, Total Reward: 128.3228549009381, Q Loss: 1530998.6953125, Actor Loss: -46711.706787109375  
Episode 7281: Time: 0.30498194694519043, Total Reward: 249.76381217525665, Q Loss: 2555449.31640625, Actor Loss: -90336.34106445312  
Episode 7282: Time: 0.22833967208862305, Total Reward: 184.3863755444131, Q Loss: 2495752.75, Actor Loss: -70551.1435546875  
Episode 7283: Time: 0.16318488121032715, Total Reward: 127.88085959488457, Q Loss: 1551006.2578125, Actor Loss: -49968.7177734375  
Episode 7284: Time: 0.10921907424926758, Total Reward: 81.96380295400037, Q Loss: 834000.55078125, Actor Loss: -30531.51123046875  
Episode 7285: Time: 0.42314982414245605, Total Reward: 349.6122986900688, Q Loss: 3523589.3671875, Actor Loss: -125727.83837890625  
Episode 7286: Time: 0.23907184600830078, Total Reward: 193.39332701468032, Q Loss: 2069833.78515625, Actor Loss: -71064.8173828125  
Episode 7287: Time: 0.5329022407531738, Total Reward: 444.18866397228857, Q Loss: 5268941.009765625, Actor Loss: -160897.77563476562  
Episode 7288: Time: 0.1415395736694336, Total Reward: 110.28864510242441, Q Loss: 1069746.7265625, Actor Loss: -43806.3369140625  
Episode 7289: Time: 0.5103070735931396, Total Reward: 424.77403192736233, Q Loss: 3996320.884765625, Actor Loss: -153718.86279296875  
Episode 7290: Time: 0.17389988899230957, Total Reward: 137.24133929356267, Q Loss: 1931222.869140625, Actor Loss: -52085.17138671875  
Episode 7291: Time: 0.6513886451721191, Total Reward: 547.7090722927918, Q Loss: 5915546.359375, Actor Loss: -195344.70556640625

Episode 7292: Time: 0.5215587615966797, Total Reward: 435.9515421663355, Q Loss: 4826326.46484375, Actor Loss: -156689.447265625  
Episode 7293: Time: 0.5213770866394043, Total Reward: 435.43785048968516, Q Loss: 4819712.328125, Actor Loss: -156566.701171875  
Episode 7294: Time: 0.45618414878845215, Total Reward: 377.71788142669214, Q Loss: 3886241.056640625, Actor Loss: -140625.04272460938  
Episode 7295: Time: 0.16320157051086426, Total Reward: 128.48162844660712, Q Loss: 1843959.703125, Actor Loss: -51941.431640625  
Episode 7296: Time: 0.2608456611633301, Total Reward: 210.9754722878509, Q Loss: 2535046.931640625, Actor Loss: -77372.77026367188  
Episode 7297: Time: 0.5113131999969482, Total Reward: 425.69791324112674, Q Loss: 4637740.7109375, Actor Loss: -154921.85888671875  
Episode 7298: Time: 0.2939004898071289, Total Reward: 239.7248077700008, Q Loss: 2325958.60546875, Actor Loss: -86993.30004882812  
Episode 7299: Time: 0.6510484218597412, Total Reward: 547.1745620885706, Q Loss: 5907770.115234375, Actor Loss: -198202.7578125  
Validation Mean: 9354.999159801802, Validation Std: 0.5723787183253206  
saving model  
Episode 7300: Time: 0.3783683776855469, Total Reward: 275.5110139356154, Q Loss: 3234968.8125, Actor Loss: -102938.75  
Episode 7301: Time: 0.742241382598877, Total Reward: 612.1123603720752, Q Loss: 7099673.529296875, Actor Loss: -224430.23022460938  
Episode 7302: Time: 0.5573174953460693, Total Reward: 462.19550174191863, Q Loss: 4964989.9375, Actor Loss: -165696.64770507812  
Episode 7303: Time: 0.6000301837921143, Total Reward: 502.1742498486003, Q Loss: 6171139.6015625, Actor Loss: -183016.05322265625  
Episode 7304: Time: 0.5014538764953613, Total Reward: 416.42228997872644, Q Loss: 4109141.21875, Actor Loss: -152649.57299804688  
Episode 7305: Time: 0.41403722763061523, Total Reward: 342.80275773227845, Q Loss: 4141872.447265625, Actor Loss: -122283.36450195312  
Episode 7306: Time: 0.09825897216796875, Total Reward: 72.70345016360682, Q Loss: 692241.421875, Actor Loss: -29344.019775390625  
Episode 7307: Time: 0.6963868141174316, Total Reward: 584.0075365283036, Q Loss: 7044846.140625, Actor Loss: -213528.09838867188  
Episode 7308: Time: 0.5011990070343018, Total Reward: 417.1461208779945, Q Loss: 4577494.587890625, Actor Loss: -151946.771484375  
Episode 7309: Time: 0.41376185417175293, Total Reward: 341.94078417730384, Q Loss: 3388668.27734375, Actor Loss: -123537.2890625  
Episode 7310: Time: 0.391603946685791, Total Reward: 324.0900268803895, Q Loss: 3852282.7265625, Actor Loss: -116542.18920898438  
Episode 7311: Time: 0.27217841148376465, Total Reward: 221.64845227529008, Q Loss: 2887463.60546875, Actor Loss: -80237.42431640625  
Episode 7312: Time: 0.15238070487976074, Total Reward: 116.91576831408467, Q Loss: 1254345.67578125, Actor Loss: -47546.348876953125  
Episode 7313: Time: 0.13098669052124023, Total Reward: 100.57144363983434, Q Loss: 1431723.2421875, Actor Loss: -40274.8427734375  
Episode 7314: Time: 0.510948657989502, Total Reward: 426.3696102799515, Q Loss: 4920993.06640625, Actor Loss: -154101.12915039062  
Episode 7315: Time: 0.25020694732666016, Total Reward: 202.54118798802304, Q Loss: 2301668.26171875, Actor Loss: -77670.90502929688  
Episode 7316: Time: 0.18459486961364746, Total Reward: 147.0921711955414, Q Loss: 1942960.05859375, Actor Loss: -54625.289306640625  
Episode 7317: Time: 0.17454218864440918, Total Reward: 138.55522539745405, Q Loss: 1471368.890625, Actor Loss: -54856.9501953125  
Episode 7318: Time: 0.15266871452331543, Total Reward: 118.62103023880672, Q Loss: 1539579.64453125, Actor Loss: -47267.914794921875



Episode 7319: Time: 0.4127795696258545, Total Reward: 343.70567136263236, Q Loss: 3771874.50390625, Actor Loss: -128266.82885742188  
Episode 7320: Time: 0.20662522315979004, Total Reward: 165.84037179666132, Q Loss: 1839290.8046875, Actor Loss: -62419.744384765625  
Episode 7321: Time: 0.26076364517211914, Total Reward: 210.03445982267172, Q Loss: 2207458.2421875, Actor Loss: -82196.359375  
Episode 7322: Time: 0.1412961483001709, Total Reward: 109.9724832888851, Q Loss: 987969.88671875, Actor Loss: -43270.150146484375  
Episode 7323: Time: 0.35855674743652344, Total Reward: 293.70918028417594, Q Loss: 3051909.59375, Actor Loss: -111602.77416992188  
Episode 7324: Time: 0.2715725898742676, Total Reward: 219.44593146586956, Q Loss: 2810144.83984375, Actor Loss: -84757.03051757812  
Episode 7325: Time: 0.42412543296813965, Total Reward: 351.7276806573581, Q Loss: 3296259.390625, Actor Loss: -129738.89721679688  
Episode 7326: Time: 0.4028966426849365, Total Reward: 332.7947121404289, Q Loss: 4436263.578125, Actor Loss: -123347.57788085938  
Episode 7327: Time: 0.9890363216400146, Total Reward: 835.9516531311741, Q Loss: 11456180.216796875, Actor Loss: -304458.6311035156  
Episode 7328: Time: 0.1416778564453125, Total Reward: 109.63049098872514, Q Loss: 1533681.375, Actor Loss: -44941.02880859375  
Episode 7329: Time: 0.19611668586730957, Total Reward: 156.7020781845713, Q Loss: 1589099.2109375, Actor Loss: -58948.00634765625  
Episode 7330: Time: 0.2833220958709717, Total Reward: 228.37559136208495, Q Loss: 2579463.41796875, Actor Loss: -85376.5205078125  
Episode 7331: Time: 0.7599680423736572, Total Reward: 641.6382537918428, Q Loss: 7036939.759765625, Actor Loss: -230629.0439453125  
Episode 7332: Time: 0.17419099807739258, Total Reward: 138.0730341651196, Q Loss: 1496805.33203125, Actor Loss: -55705.052734375  
Episode 7333: Time: 0.7059721946716309, Total Reward: 593.7149795391887, Q Loss: 7499398.4765625, Actor Loss: -213902.62670898438  
Episode 7334: Time: 0.5334384441375732, Total Reward: 441.9749227105746, Q Loss: 5029536.140625, Actor Loss: -164150.82202148438  
Episode 7335: Time: 0.09812355041503906, Total Reward: 72.83022875360552, Q Loss: 1017324.021484375, Actor Loss: -29393.65771484375  
Episode 7336: Time: 0.2612886428833008, Total Reward: 211.81843749670526, Q Loss: 1827679.25390625, Actor Loss: -79500.4228515625  
Episode 7337: Time: 0.3585066795349121, Total Reward: 296.2520396339061, Q Loss: 2702842.525390625, Actor Loss: -111051.201171875  
Episode 7338: Time: 0.39133381843566895, Total Reward: 323.79246296376715, Q Loss: 4179861.05859375, Actor Loss: -120629.29174804688  
Episode 7339: Time: 0.16312670707702637, Total Reward: 128.9197829709692, Q Loss: 1508249.935546875, Actor Loss: -50221.832275390625  
Episode 7340: Time: 0.16327857971191406, Total Reward: 128.71486648032635, Q Loss: 1501258.5625, Actor Loss: -47712.30615234375  
Episode 7341: Time: 0.3804285526275635, Total Reward: 314.0939545660399, Q Loss: 3382574.626953125, Actor Loss: -114590.89477539062  
Episode 7342: Time: 0.23936104774475098, Total Reward: 191.20012100677158, Q Loss: 2180174.80078125, Actor Loss: -74236.83203125  
Episode 7343: Time: 0.5002450942993164, Total Reward: 416.53372987268085, Q Loss: 5387779.98046875, Actor Loss: -155344.53540039062  
Episode 7344: Time: 0.22880268096923828, Total Reward: 184.13883340986348, Q Loss: 2381886.46484375, Actor Loss: -71064.11669921875  
Episode 7345: Time: 0.3372340202331543, Total Reward: 276.1306440478586, Q Loss: 3069143.78125, Actor Loss: -106973.05224609375  
Episode 7346: Time: 0.39089441299438477, Total Reward: 321.70238951648724, Q Loss: 4079179.92578125, Actor Loss: -122531.87524414062

Episode 7347: Time: 0.09785819053649902, Total Reward: 72.32077907759847, Q Loss: 1079891.40234375, Actor Loss: -31393.760986328125  
Episode 7348: Time: 0.09799766540527344, Total Reward: 72.36069669060798, Q Loss: 850473.65625, Actor Loss: -28299.38623046875  
Episode 7349: Time: 0.0984961986541748, Total Reward: 72.0254780367297, Q Loss: 854905.37890625, Actor Loss: -30947.90673828125  
Episode 7350: Time: 0.1525096893310547, Total Reward: 119.46269305281028, Q Loss: 1483753.515625, Actor Loss: -46655.47509765625  
Episode 7351: Time: 0.40163493156433105, Total Reward: 332.01633221755264, Q Loss: 3553773.40234375, Actor Loss: -125382.81005859375  
Episode 7352: Time: 0.21763324737548828, Total Reward: 173.45262458705736, Q Loss: 1825891.16015625, Actor Loss: -65877.26440429688  
Episode 7353: Time: 0.22850847244262695, Total Reward: 183.00603039504313, Q Loss: 2083572.966796875, Actor Loss: -71612.1708984375  
Episode 7354: Time: 0.15213727951049805, Total Reward: 118.47218065372867, Q Loss: 1398284.09765625, Actor Loss: -45889.2724609375  
Episode 7355: Time: 0.34810829162597656, Total Reward: 286.7188225945148, Q Loss: 4127212.037109375, Actor Loss: -105018.28002929688  
Episode 7356: Time: 0.369143009185791, Total Reward: 304.33367702163684, Q Loss: 3008497.791015625, Actor Loss: -115221.27661132812  
Episode 7357: Time: 0.34810400009155273, Total Reward: 286.95548217294584, Q Loss: 3684689.958984375, Actor Loss: -107267.564453125  
Episode 7358: Time: 0.3276784420013428, Total Reward: 266.68461114502037, Q Loss: 2929964.39453125, Actor Loss: -101147.505859375  
Episode 7359: Time: 0.7058980464935303, Total Reward: 594.3054146234131, Q Loss: 7074265.513671875, Actor Loss: -219204.89404296875  
Episode 7360: Time: 0.07670402526855469, Total Reward: 53.72395005847273, Q Loss: 644992.33984375, Actor Loss: -23255.601318359375  
Episode 7361: Time: 0.456531286239624, Total Reward: 378.807039135839, Q Loss: 5106384.720703125, Actor Loss: -142740.22290039062  
Episode 7362: Time: 0.3048512935638428, Total Reward: 248.23172155612303, Q Loss: 3135033.978515625, Actor Loss: -95331.35400390625  
Episode 7363: Time: 0.3480958938598633, Total Reward: 285.33144198707186, Q Loss: 3113851.73046875, Actor Loss: -107355.48779296875  
Episode 7364: Time: 0.4559314250946045, Total Reward: 380.0833128446889, Q Loss: 4504211.84765625, Actor Loss: -143316.57348632812  
Episode 7365: Time: 0.3922281265258789, Total Reward: 323.5240353404318, Q Loss: 3405774.91796875, Actor Loss: -124114.78051757812  
Episode 7366: Time: 0.33711910247802734, Total Reward: 276.9714306881993, Q Loss: 4005432.99609375, Actor Loss: -106643.7353515625  
Episode 7367: Time: 0.31496500968933105, Total Reward: 259.46004247803825, Q Loss: 4079730.671875, Actor Loss: -98523.5  
Episode 7368: Time: 0.1523439884185791, Total Reward: 119.40835212312632, Q Loss: 1421717.546875, Actor Loss: -49305.3623046875  
Episode 7369: Time: 0.29408836364746094, Total Reward: 239.23773061014668, Q Loss: 2331057.9375, Actor Loss: -91154.79833984375  
Episode 7370: Time: 0.20673656463623047, Total Reward: 165.88974085917746, Q Loss: 2023418.234375, Actor Loss: -64564.203857421875  
Episode 7371: Time: 0.5858924388885498, Total Reward: 491.6467621115341, Q Loss: 5769527.240234375, Actor Loss: -183526.09887695312  
Episode 7372: Time: 0.5536189079284668, Total Reward: 460.0707429364889, Q Loss: 5309171.6875, Actor Loss: -170918.1953125  
Episode 7373: Time: 0.2941286563873291, Total Reward: 239.72879032543176, Q Loss: 2654566.33203125, Actor Loss: -90835.06274414062  
Episode 7374: Time: 0.48978686332702637, Total Reward: 407.5626525427341, Q Loss: 4347500.5, Actor Loss: -152795.82470703125

Episode 7375: Time: 0.09798836708068848, Total Reward: 72.91750204235153, Q Loss: 1273140.390625, Actor Loss: -29469.970947265625  
Episode 7376: Time: 0.2720150947570801, Total Reward: 221.00279000678248, Q Loss: 2780081.33203125, Actor Loss: -85475.92163085938  
Episode 7377: Time: 0.1197354793548584, Total Reward: 91.44372248409496, Q Loss: 1263866.19921875, Actor Loss: -35950.96533203125  
Episode 7378: Time: 0.22902750968933105, Total Reward: 183.07043562910047, Q Loss: 2905684.04296875, Actor Loss: -72464.44677734375  
Episode 7379: Time: 0.1414172649383545, Total Reward: 109.87676589935646, Q Loss: 1782220.36328125, Actor Loss: -45431.3447265625  
Episode 7380: Time: 0.283130407333374, Total Reward: 230.43264831218085, Q Loss: 3458095.48828125, Actor Loss: -88431.48046875  
Episode 7381: Time: 0.07647418975830078, Total Reward: 53.59955920563139, Q Loss: 790644.15234375, Actor Loss: -23784.621826171875  
Episode 7382: Time: 0.29439353942871094, Total Reward: 239.64172186671678, Q Loss: 3231095.703125, Actor Loss: -95826.21118164062  
Episode 7383: Time: 0.08736824989318848, Total Reward: 63.065494853284825, Q Loss: 1140547.81640625, Actor Loss: -25877.19091796875  
Episode 7384: Time: 0.5115752220153809, Total Reward: 426.56863272310056, Q Loss: 4960917.90625, Actor Loss: -164462.96142578125  
Episode 7385: Time: 0.2504000663757324, Total Reward: 202.63155102570403, Q Loss: 2303032.44140625, Actor Loss: -78313.58129882812  
Episode 7386: Time: 0.43491053581237793, Total Reward: 360.6964095934451, Q Loss: 4706418.943359375, Actor Loss: -137553.16430664062  
Episode 7387: Time: 0.09813046455383301, Total Reward: 72.72208044843866, Q Loss: 1383342.515625, Actor Loss: -30181.269775390625  
Episode 7388: Time: 0.23951363563537598, Total Reward: 191.09275615494968, Q Loss: 2505414.78515625, Actor Loss: -75767.70068359375  
Episode 7389: Time: 0.40203022956848145, Total Reward: 332.9526346993482, Q Loss: 4020244.8359375, Actor Loss: -124440.68115234375  
Episode 7390: Time: 0.23979735374450684, Total Reward: 191.41508471631568, Q Loss: 2531896.96484375, Actor Loss: -74795.39038085938  
Episode 7391: Time: 0.2937893867492676, Total Reward: 239.00276269740135, Q Loss: 3163241.271484375, Actor Loss: -89952.90161132812  
Episode 7392: Time: 0.38129305839538574, Total Reward: 312.449892938288, Q Loss: 3878153.634765625, Actor Loss: -121196.70654296875  
Episode 7393: Time: 0.26132631301879883, Total Reward: 212.23936252204953, Q Loss: 2611291.05859375, Actor Loss: -80069.1298828125  
Episode 7394: Time: 0.33814191818237305, Total Reward: 275.41185806517876, Q Loss: 4087462.8515625, Actor Loss: -106694.22827148438  
Episode 7395: Time: 0.4789865016937256, Total Reward: 398.48868693676786, Q Loss: 4815077.904296875, Actor Loss: -151160.3095703125  
Episode 7396: Time: 0.17425322532653809, Total Reward: 137.86063131712592, Q Loss: 1434725.59375, Actor Loss: -57522.58154296875  
Episode 7397: Time: 0.0986628532409668, Total Reward: 72.99651299606202, Q Loss: 567190.32421875, Actor Loss: -31779.901123046875  
Episode 7398: Time: 0.7711222171783447, Total Reward: 649.8497785802139, Q Loss: 8511463.005859375, Actor Loss: -245984.43090820312  
Episode 7399: Time: 0.44580650329589844, Total Reward: 370.4314443306884, Q Loss: 4722865.044921875, Actor Loss: -142118.6376953125  
Validation Mean: 9355.194164490855, Validation Std: 0.4352241420325059  
saving model  
Episode 7400: Time: 0.4041156768798828, Total Reward: 332.5070583934101, Q Loss: 3693662.390625, Actor Loss: -129502.33081054688  
Episode 7401: Time: 0.3590736389160156, Total Reward: 296.785101811331, Q Loss: 3915083.681640625, Actor Loss: -115751.16918945312

Episode 7402: Time: 0.23975777626037598, Total Reward: 191.045313398973, Q Loss: 2853482.67578125, Actor Loss: -74211.01318359375  
Episode 7403: Time: 0.217742919921875, Total Reward: 174.65628000841096, Q Loss: 2606899.97265625, Actor Loss: -68206.08081054688  
Episode 7404: Time: 0.10887908935546875, Total Reward: 81.86778541252468, Q Loss: 1053196.216796875, Actor Loss: -34836.860595703125  
Episode 7405: Time: 0.23982453346252441, Total Reward: 193.30816534779893, Q Loss: 2016626.248046875, Actor Loss: -75448.21923828125  
Episode 7406: Time: 0.11967945098876953, Total Reward: 91.32869771725758, Q Loss: 1295469.90625, Actor Loss: -35823.05810546875  
Episode 7407: Time: 0.12023520469665527, Total Reward: 90.94213862457784, Q Loss: 1565689.21484375, Actor Loss: -37548.02978515625  
Episode 7408: Time: 0.3913722038269043, Total Reward: 324.1951847384546, Q Loss: 3841220.236328125, Actor Loss: -124348.81762695312  
Episode 7409: Time: 0.10900044441223145, Total Reward: 82.07118226547091, Q Loss: 1053399.9296875, Actor Loss: -34432.9697265625  
Episode 7410: Time: 0.30451345443725586, Total Reward: 248.25589192859118, Q Loss: 3458097.828125, Actor Loss: -96908.0439453125  
Episode 7411: Time: 0.20679044723510742, Total Reward: 163.52716231877176, Q Loss: 2318476.23828125, Actor Loss: -65390.6474609375  
Episode 7412: Time: 0.33707737922668457, Total Reward: 278.19130935341445, Q Loss: 3667429.27734375, Actor Loss: -106706.67065429688  
Episode 7413: Time: 0.17427587509155273, Total Reward: 137.83069056465968, Q Loss: 1503606.169921875, Actor Loss: -55950.168212890625  
Episode 7414: Time: 0.4668252468109131, Total Reward: 388.3868368565891, Q Loss: 4911284.1875, Actor Loss: -147335.29028320312  
Episode 7415: Time: 0.11957669258117676, Total Reward: 91.76457531381253, Q Loss: 1024954.3515625, Actor Loss: -37688.740966796875  
Episode 7416: Time: 0.20711112022399902, Total Reward: 165.59000727549045, Q Loss: 2431656.28515625, Actor Loss: -67732.89208984375  
Episode 7417: Time: 0.1958010196685791, Total Reward: 157.00581330183525, Q Loss: 1546070.65234375, Actor Loss: -63228.281982421875  
Episode 7418: Time: 0.9987483024597168, Total Reward: 845.5112264339512, Q Loss: 10112877.353515625, Actor Loss: -318970.3337402344  
Episode 7419: Time: 0.46756529808044434, Total Reward: 388.79668815380523, Q Loss: 5383584.689453125, Actor Loss: -148944.21020507812  
Episode 7420: Time: 0.4678194522857666, Total Reward: 387.7566360279692, Q Loss: 5152824.4375, Actor Loss: -151880.43969726562  
Episode 7421: Time: 0.18485569953918457, Total Reward: 147.40645768786743, Q Loss: 2109489.3984375, Actor Loss: -59938.79833984375  
Episode 7422: Time: 0.2940363883972168, Total Reward: 239.65519835242367, Q Loss: 2783916.1875, Actor Loss: -93901.88256835938  
Episode 7423: Time: 0.0981285572052002, Total Reward: 72.42176608993523, Q Loss: 816502.32421875, Actor Loss: -32977.0517578125  
Episode 7424: Time: 0.2506370544433594, Total Reward: 201.5142804183956, Q Loss: 2583218.37890625, Actor Loss: -80824.0576171875  
Episode 7425: Time: 0.44548821449279785, Total Reward: 368.34173049133136, Q Loss: 4519132.515625, Actor Loss: -146180.3466796875  
Episode 7426: Time: 0.5431883335113525, Total Reward: 454.22342814609436, Q Loss: 5499669.484375, Actor Loss: -175768.42822265625  
Episode 7427: Time: 0.44617199897766113, Total Reward: 369.79108249184895, Q Loss: 5246730.5078125, Actor Loss: -144495.77587890625  
Episode 7428: Time: 0.33740687370300293, Total Reward: 276.62489074729723, Q Loss: 3267631.474609375, Actor Loss: -106597.66625976562  
Episode 7429: Time: 0.1743772029876709, Total Reward: 137.73258430381674, Q Loss: 1951554.71484375, Actor Loss: -56678.09423828125

Episode 7430: Time: 0.5326402187347412, Total Reward: 445.64301651113726, Q Loss: 5370674.759765625, Actor Loss: -168734.86596679688  
Episode 7431: Time: 0.3375988006591797, Total Reward: 277.5506161587783, Q Loss: 3550664.01953125, Actor Loss: -108676.41015625  
Episode 7432: Time: 0.31543874740600586, Total Reward: 258.65557316758833, Q Loss: 3172961.53125, Actor Loss: -103560.58129882812  
Episode 7433: Time: 0.5549643039703369, Total Reward: 463.97160229682373, Q Loss: 6503240.248046875, Actor Loss: -173976.71704101562  
Episode 7434: Time: 0.29452943801879883, Total Reward: 241.23388961894096, Q Loss: 3320248.25390625, Actor Loss: -93138.4658203125  
Episode 7435: Time: 0.489121675491333, Total Reward: 405.5886117187726, Q Loss: 4894983.5390625, Actor Loss: -160509.50634765625  
Episode 7436: Time: 0.20738577842712402, Total Reward: 166.15706801521222, Q Loss: 1873305.60546875, Actor Loss: -65513.78759765625  
Episode 7437: Time: 0.6189296245574951, Total Reward: 519.3022876345947, Q Loss: 7538548.3125, Actor Loss: -197129.6455078125  
Episode 7438: Time: 0.35875773429870605, Total Reward: 295.53011254720974, Q Loss: 4036291.0390625, Actor Loss: -118522.74169921875  
Episode 7439: Time: 0.2396242618560791, Total Reward: 191.978516355091, Q Loss: 2896417.49609375, Actor Loss: -76966.39111328125  
Episode 7440: Time: 0.5543606281280518, Total Reward: 463.24880162023726, Q Loss: 6883362.99609375, Actor Loss: -183797.544921875  
Episode 7441: Time: 0.2833085060119629, Total Reward: 230.2609584704573, Q Loss: 3162148.83203125, Actor Loss: -90693.43969726562  
Episode 7442: Time: 0.09812617301940918, Total Reward: 72.45605742678751, Q Loss: 964016.421875, Actor Loss: -31881.227294921875  
Episode 7443: Time: 0.15259766578674316, Total Reward: 119.37631126345538, Q Loss: 1555398.21875, Actor Loss: -48429.84716796875  
Episode 7444: Time: 0.3166234493255615, Total Reward: 259.6664191931093, Q Loss: 3624932.62890625, Actor Loss: -100707.08056640625  
Episode 7445: Time: 0.25055694580078125, Total Reward: 203.07807742265126, Q Loss: 2643923.236328125, Actor Loss: -80334.19262695312  
Episode 7446: Time: 0.5005204677581787, Total Reward: 413.4877633694464, Q Loss: 5085076.2265625, Actor Loss: -161510.29028320312  
Episode 7447: Time: 0.5108742713928223, Total Reward: 425.5123033333408, Q Loss: 5174819.052734375, Actor Loss: -166460.49975585938  
Episode 7448: Time: 0.37004590034484863, Total Reward: 303.6135928976882, Q Loss: 4182299.0625, Actor Loss: -120384.46411132812  
Episode 7449: Time: 0.2722790241241455, Total Reward: 222.1481658121273, Q Loss: 2862473.7265625, Actor Loss: -88052.74340820312  
Episode 7450: Time: 0.15225720405578613, Total Reward: 119.19633442993937, Q Loss: 1860649.63671875, Actor Loss: -51976.48876953125  
Episode 7451: Time: 0.23963260650634766, Total Reward: 192.99297696018127, Q Loss: 2478365.41796875, Actor Loss: -76650.8916015625  
Episode 7452: Time: 0.19573974609375, Total Reward: 155.92145598817933, Q Loss: 2312450.2265625, Actor Loss: -62812.677001953125  
Episode 7453: Time: 0.1744544506072998, Total Reward: 137.80139254701277, Q Loss: 1474766.833984375, Actor Loss: -56745.911376953125  
Episode 7454: Time: 0.27213406562805176, Total Reward: 218.15832873602767, Q Loss: 2675581.36328125, Actor Loss: -88481.68432617188  
Episode 7455: Time: 0.7052631378173828, Total Reward: 593.7855710632458, Q Loss: 6952030.6171875, Actor Loss: -228420.8330078125  
Episode 7456: Time: 0.9450557231903076, Total Reward: 799.2407730122063, Q Loss: 9504562.123046875, Actor Loss: -307027.5803222656  
Episode 7457: Time: 0.7502706050872803, Total Reward: 629.6012591688983, Q Loss: 8409482.7109375, Actor Loss: -242422.58544921875

Episode 7458: Time: 0.6625711917877197, Total Reward: 555.1583987790157, Q Loss: 7751482.6015625, Actor Loss: -216117.64599609375  
Episode 7459: Time: 0.10925102233886719, Total Reward: 82.16912205431761, Q Loss: 1344872.48046875, Actor Loss: -35210.058837890625  
Episode 7460: Time: 0.1204214096069336, Total Reward: 90.61353815327182, Q Loss: 1280954.80859375, Actor Loss: -39023.313720703125  
Episode 7461: Time: 0.7393147945404053, Total Reward: 622.8128438966863, Q Loss: 7356249.666015625, Actor Loss: -242035.45141601562  
Episode 7462: Time: 0.6519098281860352, Total Reward: 546.0842164128778, Q Loss: 7417392.2568359375, Actor Loss: -218269.94262695312  
Episode 7463: Time: 0.14161133766174316, Total Reward: 109.80246592505522, Q Loss: 1291604.34765625, Actor Loss: -47615.6640625  
Episode 7464: Time: 0.17437267303466797, Total Reward: 138.06074998100465, Q Loss: 1628058.392578125, Actor Loss: -57713.51513671875  
Episode 7465: Time: 0.23940658569335938, Total Reward: 193.2946590382854, Q Loss: 2565493.41015625, Actor Loss: -73456.55810546875  
Episode 7466: Time: 0.4455087184906006, Total Reward: 368.4465164451314, Q Loss: 4764345.513671875, Actor Loss: -147040.31762695312  
Episode 7467: Time: 0.7378871440887451, Total Reward: 620.2510938749505, Q Loss: 9046537.1953125, Actor Loss: -240547.76293945312  
Episode 7468: Time: 1.0208690166473389, Total Reward: 863.8987669030969, Q Loss: 12389173.291015625, Actor Loss: -334413.42822265625  
Episode 7469: Time: 0.15253496170043945, Total Reward: 118.54925155880515, Q Loss: 1179079.78125, Actor Loss: -51127.581787109375  
Episode 7470: Time: 0.3152899742126465, Total Reward: 257.93072939873326, Q Loss: 2935509.662109375, Actor Loss: -102903.66870117188  
Episode 7471: Time: 0.5977914333343506, Total Reward: 501.3844324743133, Q Loss: 6398638.74609375, Actor Loss: -195475.33251953125  
Episode 7472: Time: 0.11992549896240234, Total Reward: 91.68073477623456, Q Loss: 1287568.7890625, Actor Loss: -38252.07958984375  
Episode 7473: Time: 0.34813594818115234, Total Reward: 286.7019027105721, Q Loss: 3204818.84375, Actor Loss: -111244.04248046875  
Episode 7474: Time: 0.47826313972473145, Total Reward: 397.00055115516017, Q Loss: 6001812.1171875, Actor Loss: -157903.86743164062  
Episode 7475: Time: 0.10892963409423828, Total Reward: 82.41298169457984, Q Loss: 1405193.68359375, Actor Loss: -36560.719970703125  
Episode 7476: Time: 0.38098716735839844, Total Reward: 314.638969829151, Q Loss: 4285105.2578125, Actor Loss: -124781.732421875  
Episode 7477: Time: 0.11980223655700684, Total Reward: 91.26257317543687, Q Loss: 1182383.57421875, Actor Loss: -39957.198486328125  
Episode 7478: Time: 0.47773027420043945, Total Reward: 398.6310597831202, Q Loss: 5237120.35546875, Actor Loss: -155510.06372070312  
Episode 7479: Time: 0.48849940299987793, Total Reward: 407.3446772504257, Q Loss: 5416344.4921875, Actor Loss: -162860.2412109375  
Episode 7480: Time: 0.1522235870361328, Total Reward: 118.25496736026976, Q Loss: 2378982.19921875, Actor Loss: -49363.944091796875  
Episode 7481: Time: 0.09861016273498535, Total Reward: 72.62142091761557, Q Loss: 1321543.95703125, Actor Loss: -33107.07958984375  
Episode 7482: Time: 0.22830486297607422, Total Reward: 184.39400423231592, Q Loss: 2444316.625, Actor Loss: -75605.23876953125  
Episode 7483: Time: 0.3693063259124756, Total Reward: 305.0910399817886, Q Loss: 4547031.59375, Actor Loss: -123767.54370117188  
Episode 7484: Time: 0.39156579971313477, Total Reward: 324.2921576871168, Q Loss: 4673805.734375, Actor Loss: -129386.302734375  
Episode 7485: Time: 0.5647475719451904, Total Reward: 473.1848511328126, Q Loss: 6761064.58984375, Actor Loss: -190892.48706054688

Episode 7486: Time: 0.163222074508667, Total Reward: 128.86395002717381, Q Loss: 1908571.07421875, Actor Loss: -55480.516357421875  
Episode 7487: Time: 0.4562234878540039, Total Reward: 379.3303619534032, Q Loss: 4874642.99609375, Actor Loss: -150202.82421875  
Episode 7488: Time: 0.19580674171447754, Total Reward: 156.60104777981897, Q Loss: 2266891.80078125, Actor Loss: -63654.80712890625  
Episode 7489: Time: 0.10947728157043457, Total Reward: 81.88396499542144, Q Loss: 1505299.36328125, Actor Loss: -37412.304443359375  
Episode 7490: Time: 0.39206790924072266, Total Reward: 324.6308890040675, Q Loss: 4928699.015625, Actor Loss: -128303.29223632812  
Episode 7491: Time: 0.3159215450286865, Total Reward: 259.44067233558553, Q Loss: 4013212.421875, Actor Loss: -106727.26513671875  
Episode 7492: Time: 0.1089165210723877, Total Reward: 81.551177016531, Q Loss: 1045262.8828125, Actor Loss: -34745.439453125  
Episode 7493: Time: 0.4023580551147461, Total Reward: 332.34551753417196, Q Loss: 4968634.6953125, Actor Loss: -133505.77075195312  
Episode 7494: Time: 0.15232181549072266, Total Reward: 119.46017950668823, Q Loss: 1779454.75, Actor Loss: -51082.478271484375  
Episode 7495: Time: 0.7052135467529297, Total Reward: 594.283892990949, Q Loss: 8195938.30078125, Actor Loss: -232616.85522460938  
Episode 7496: Time: 0.48821330070495605, Total Reward: 407.3627379006531, Q Loss: 5256660.12109375, Actor Loss: -165217.47680664062  
Episode 7497: Time: 0.17388701438903809, Total Reward: 138.02894076684453, Q Loss: 1912136.57421875, Actor Loss: -59398.305419921875  
Episode 7498: Time: 0.32639050483703613, Total Reward: 268.164063386939, Q Loss: 3914160.37109375, Actor Loss: -108846.08251953125  
Episode 7499: Time: 0.251145601272583, Total Reward: 202.004638762293, Q Loss: 2966712.26171875, Actor Loss: -85930.20947265625  
Validation Mean: 9354.331460567828, Validation Std: 0.30692307640816846  
saving model  
Episode 7500: Time: 0.284435510635376, Total Reward: 230.78758571383847, Q Loss: 2771848.73828125, Actor Loss: -92929.99047851562  
Episode 7501: Time: 0.1631755828857422, Total Reward: 128.1288621418078, Q Loss: 1937198.01953125, Actor Loss: -51425.897216796875  
Episode 7502: Time: 0.36973118782043457, Total Reward: 305.89766582557013, Q Loss: 4075615.109375, Actor Loss: -123937.07934570312  
Episode 7503: Time: 0.4347381591796875, Total Reward: 360.4484740490435, Q Loss: 4540804.859375, Actor Loss: -143327.9892578125  
Episode 7504: Time: 0.5003688335418701, Total Reward: 416.72936216980133, Q Loss: 5504361.796875, Actor Loss: -167752.67333984375  
Episode 7505: Time: 0.4356112480163574, Total Reward: 359.8575379406821, Q Loss: 5231462.81640625, Actor Loss: -147073.5224609375  
Episode 7506: Time: 0.15232062339782715, Total Reward: 118.92099535744315, Q Loss: 1774343.484375, Actor Loss: -49434.310791015625  
Episode 7507: Time: 0.6191504001617432, Total Reward: 519.9417052936469, Q Loss: 6979629.083984375, Actor Loss: -206937.20434570312  
Episode 7508: Time: 0.17417597770690918, Total Reward: 137.6141967250314, Q Loss: 2593019.884765625, Actor Loss: -58039.12451171875  
Episode 7509: Time: 0.20728206634521484, Total Reward: 166.2121362632459, Q Loss: 2252053.375, Actor Loss: -70568.46264648438  
Episode 7510: Time: 0.900867223739624, Total Reward: 761.7294988056167, Q Loss: 9357783.87890625, Actor Loss: -304640.49072265625  
Episode 7511: Time: 0.32651662826538086, Total Reward: 265.88098756711247, Q Loss: 3095671.83984375, Actor Loss: -108480.86206054688  
Episode 7512: Time: 0.6405258178710938, Total Reward: 535.5524133825826, Q Loss: 7146178.962890625, Actor Loss: -212106.85815429688

Episode 7513: Time: 0.5746753215789795, Total Reward: 482.6590236717486, Q Loss: 6311502.171875, Actor Loss: -195568.326171875  
Episode 7514: Time: 0.1411890983581543, Total Reward: 109.91048103827104, Q Loss: 1554890.203125, Actor Loss: -49836.3876953125  
Episode 7515: Time: 0.10934185981750488, Total Reward: 81.97668824609931, Q Loss: 1134196.7265625, Actor Loss: -35557.556640625  
Episode 7516: Time: 0.49010276794433594, Total Reward: 409.0696063368756, Q Loss: 5743651.125, Actor Loss: -166549.2705078125  
Episode 7517: Time: 0.20694231986999512, Total Reward: 166.20132500629856, Q Loss: 2547514.73046875, Actor Loss: -70927.82348632812  
Episode 7518: Time: 0.2723078727722168, Total Reward: 219.60878024189105, Q Loss: 3010153.333984375, Actor Loss: -91021.34619140625  
Episode 7519: Time: 0.1199800968170166, Total Reward: 91.44229715109923, Q Loss: 2123901.21875, Actor Loss: -39617.6513671875  
Episode 7520: Time: 0.3699033260345459, Total Reward: 303.9275058084083, Q Loss: 5556915.9921875, Actor Loss: -121476.57080078125  
Episode 7521: Time: 0.15229558944702148, Total Reward: 118.717200603769, Q Loss: 1730752.34765625, Actor Loss: -51255.9736328125  
Episode 7522: Time: 0.326124906539917, Total Reward: 267.1252970464661, Q Loss: 4212185.97265625, Actor Loss: -108495.97119140625  
Episode 7523: Time: 0.4020872116088867, Total Reward: 334.29898762837496, Q Loss: 5176558.173828125, Actor Loss: -138481.138671875  
Episode 7524: Time: 0.2612299919128418, Total Reward: 210.35296018090088, Q Loss: 2936225.03515625, Actor Loss: -85661.35791015625  
Episode 7525: Time: 0.4020380973815918, Total Reward: 333.520101690222, Q Loss: 4821281.46875, Actor Loss: -135698.546875  
Episode 7526: Time: 0.2504267692565918, Total Reward: 202.90984356281047, Q Loss: 3230321.9140625, Actor Loss: -82583.49951171875  
Episode 7527: Time: 0.5758607387542725, Total Reward: 479.76400487437627, Q Loss: 6081079.12890625, Actor Loss: -190698.166015625  
Episode 7528: Time: 0.13048958778381348, Total Reward: 100.89841649641833, Q Loss: 1307449.359375, Actor Loss: -43713.767333984375  
Episode 7529: Time: 0.1524190902709961, Total Reward: 119.0678601583114, Q Loss: 2189691.640625, Actor Loss: -50925.378173828125  
Episode 7530: Time: 0.1737992763519287, Total Reward: 138.0610873167631, Q Loss: 2019126.587890625, Actor Loss: -58691.395751953125  
Episode 7531: Time: 0.1200406551361084, Total Reward: 91.17604629520874, Q Loss: 1258658.90625, Actor Loss: -39890.449462890625  
Episode 7532: Time: 0.38004350662231445, Total Reward: 311.4638975859818, Q Loss: 3955550.68359375, Actor Loss: -127762.96020507812  
Episode 7533: Time: 0.39136195182800293, Total Reward: 323.7731593501928, Q Loss: 4092153.7734375, Actor Loss: -131153.65283203125  
Episode 7534: Time: 0.2832038402557373, Total Reward: 230.09173351277158, Q Loss: 3296537.4453125, Actor Loss: -96026.43701171875  
Episode 7535: Time: 0.2613718509674072, Total Reward: 210.85417887926707, Q Loss: 2890671.25390625, Actor Loss: -89531.13134765625  
Episode 7536: Time: 0.28298401832580566, Total Reward: 229.7212302702985, Q Loss: 3134978.822265625, Actor Loss: -94999.19213867188  
Episode 7537: Time: 0.13101768493652344, Total Reward: 101.21554132125253, Q Loss: 1615776.9609375, Actor Loss: -42695.0712890625  
Episode 7538: Time: 0.2827341556549072, Total Reward: 230.23926195941425, Q Loss: 3501399.3359375, Actor Loss: -95706.19995117188  
Episode 7539: Time: 0.23938846588134766, Total Reward: 192.27187517181554, Q Loss: 2755280.46875, Actor Loss: -82586.47338867188  
Episode 7540: Time: 0.2068769931793213, Total Reward: 166.25493587773764, Q Loss: 2729368.970703125, Actor Loss: -69511.8154296875



Episode 7541: Time: 0.11968302726745605, Total Reward: 91.5949874509542, Q Loss: 1402544.40234375, Actor Loss: -40161.85595703125  
Episode 7542: Time: 0.20717644691467285, Total Reward: 166.06300360732703, Q Loss: 1991509.0859375, Actor Loss: -69773.37915039062  
Episode 7543: Time: 0.40244436264038086, Total Reward: 333.1099839596882, Q Loss: 4672777.78125, Actor Loss: -134303.32666015625  
Episode 7544: Time: 0.36988329887390137, Total Reward: 304.4031834808739, Q Loss: 4531024.4921875, Actor Loss: -130797.38159179688  
Episode 7545: Time: 0.21750903129577637, Total Reward: 174.65768763785687, Q Loss: 2207393.35546875, Actor Loss: -75501.78686523438  
Episode 7546: Time: 0.5429496765136719, Total Reward: 452.213123001417, Q Loss: 6504291.439453125, Actor Loss: -180103.8779296875  
Episode 7547: Time: 0.17404413223266602, Total Reward: 137.956104520833, Q Loss: 2031129.9296875, Actor Loss: -56076.409912109375  
Episode 7548: Time: 0.18503499031066895, Total Reward: 146.8269250629215, Q Loss: 1996737.796875, Actor Loss: -61631.86279296875  
Episode 7549: Time: 0.3795318603515625, Total Reward: 312.59162486140445, Q Loss: 4101925.96875, Actor Loss: -130050.83911132812  
Episode 7550: Time: 0.09801149368286133, Total Reward: 72.04411014036982, Q Loss: 1119936.25, Actor Loss: -32928.6826171875  
Episode 7551: Time: 0.31511545181274414, Total Reward: 259.0466983754585, Q Loss: 3200324.6875, Actor Loss: -106768.66040039062  
Episode 7552: Time: 0.3044304847717285, Total Reward: 249.39374833493255, Q Loss: 3131541.81640625, Actor Loss: -102699.11254882812  
Episode 7553: Time: 0.3693685531616211, Total Reward: 303.14779755499836, Q Loss: 5050821.7890625, Actor Loss: -122007.05029296875  
Episode 7554: Time: 0.3482096195220947, Total Reward: 286.46502957983415, Q Loss: 3829777.822265625, Actor Loss: -119210.84301757812  
Episode 7555: Time: 0.31550097465515137, Total Reward: 257.8166684896028, Q Loss: 3618679.6875, Actor Loss: -107993.08056640625  
Episode 7556: Time: 0.2832818031311035, Total Reward: 229.48199427106383, Q Loss: 3227373.59375, Actor Loss: -95042.53662109375  
Episode 7557: Time: 0.1631910800933838, Total Reward: 128.81637871390043, Q Loss: 1861897.9140625, Actor Loss: -53812.9951171875  
Episode 7558: Time: 0.3155972957611084, Total Reward: 257.36528556964, Q Loss: 3562996.962890625, Actor Loss: -108153.68383789062  
Episode 7559: Time: 0.31583070755004883, Total Reward: 257.52187513697424, Q Loss: 4374616.77734375, Actor Loss: -109240.72998046875  
Episode 7560: Time: 0.7387971878051758, Total Reward: 621.7220877318098, Q Loss: 9057626.40625, Actor Loss: -251313.359375  
Episode 7561: Time: 0.32619714736938477, Total Reward: 267.9510064515158, Q Loss: 5385450.9140625, Actor Loss: -111405.05151367188  
Episode 7562: Time: 0.2394108772277832, Total Reward: 194.20595469406373, Q Loss: 2637828.34375, Actor Loss: -80545.50708007812  
Episode 7563: Time: 0.36960673332214355, Total Reward: 303.2518263646457, Q Loss: 4440271.19140625, Actor Loss: -124475.47241210938  
Episode 7564: Time: 0.8674194812774658, Total Reward: 733.4569098283635, Q Loss: 10552427.6328125, Actor Loss: -299093.74755859375  
Episode 7565: Time: 0.5105819702148438, Total Reward: 424.21964417944525, Q Loss: 5661785.21875, Actor Loss: -176345.9658203125  
Episode 7566: Time: 0.10911369323730469, Total Reward: 82.07070185705584, Q Loss: 1399547.4296875, Actor Loss: -37844.879638671875  
Episode 7567: Time: 0.12006878852844238, Total Reward: 91.75072622095051, Q Loss: 1450176.06640625, Actor Loss: -38560.552001953125  
Episode 7568: Time: 0.32238197326660156, Total Reward: 247.00387759917902, Q Loss: 4203708.17578125, Actor Loss: -105439.49340820312

Episode 7569: Time: 0.3727226257324219, Total Reward: 294.17210822642244, Q Loss: 4070220.55859375, Actor Loss: -121719.21240234375  
Episode 7570: Time: 0.49317264556884766, Total Reward: 396.99088309647203, Q Loss: 5996657.451171875, Actor Loss: -162632.77587890625  
Episode 7571: Time: 0.240678071975708, Total Reward: 194.12933790401678, Q Loss: 3111184.8046875, Actor Loss: -81606.60913085938  
Episode 7572: Time: 0.3818941116333008, Total Reward: 315.0712685172333, Q Loss: 4558073.63671875, Actor Loss: -128475.14892578125  
Episode 7573: Time: 0.2178184986114502, Total Reward: 175.2609782464201, Q Loss: 2573304.083984375, Actor Loss: -76977.97290039062  
Episode 7574: Time: 0.2831094264984131, Total Reward: 230.49786360518107, Q Loss: 3326125.1015625, Actor Loss: -96964.93212890625  
Episode 7575: Time: 0.28272461891174316, Total Reward: 230.03901936892873, Q Loss: 2732045.51953125, Actor Loss: -93450.884765625  
Episode 7576: Time: 0.2937510013580322, Total Reward: 240.27287015978794, Q Loss: 3614271.48828125, Actor Loss: -101396.40576171875  
Episode 7577: Time: 0.14137053489685059, Total Reward: 110.20591339776607, Q Loss: 1452599.33203125, Actor Loss: -47920.89404296875  
Episode 7578: Time: 0.5534029006958008, Total Reward: 464.00162190207334, Q Loss: 6199449.96484375, Actor Loss: -193272.19165039062  
Episode 7579: Time: 0.23953557014465332, Total Reward: 193.46794361849427, Q Loss: 3097442.1875, Actor Loss: -83108.54125976562  
Episode 7580: Time: 0.19532299041748047, Total Reward: 155.96015630922963, Q Loss: 1559773.48046875, Actor Loss: -68799.82836914062  
Episode 7581: Time: 0.24018216133117676, Total Reward: 193.50789411717128, Q Loss: 3384181.90234375, Actor Loss: -83166.74267578125  
Episode 7582: Time: 0.3372635841369629, Total Reward: 277.30631409129126, Q Loss: 4189798.64453125, Actor Loss: -114835.8095703125  
Episode 7583: Time: 0.5651750564575195, Total Reward: 473.0208952716451, Q Loss: 6380810.6796875, Actor Loss: -193403.13671875  
Episode 7584: Time: 0.630143404006958, Total Reward: 529.6412679668745, Q Loss: 7112394.380859375, Actor Loss: -219142.77294921875  
Episode 7585: Time: 0.845787525177002, Total Reward: 715.8386146313325, Q Loss: 11684254.57421875, Actor Loss: -298131.5305175781  
Episode 7586: Time: 0.34850454330444336, Total Reward: 283.28517923819584, Q Loss: 3946762.890625, Actor Loss: -122221.91088867188  
Episode 7587: Time: 0.48935747146606445, Total Reward: 407.61779900260444, Q Loss: 5178283.671875, Actor Loss: -168108.2666015625  
Episode 7588: Time: 0.13068151473999023, Total Reward: 100.69556618533045, Q Loss: 2124831.60546875, Actor Loss: -47499.49462890625  
Episode 7589: Time: 0.10926628112792969, Total Reward: 82.24216170543262, Q Loss: 1764380.0078125, Actor Loss: -36239.418701171875  
Episode 7590: Time: 0.6084995269775391, Total Reward: 509.4298748540187, Q Loss: 6922665.23046875, Actor Loss: -214102.12475585938  
Episode 7591: Time: 0.250657320022583, Total Reward: 202.8621817681978, Q Loss: 3277172.02734375, Actor Loss: -84163.03857421875  
Episode 7592: Time: 0.4131753444671631, Total Reward: 341.69520465556366, Q Loss: 5472617.3828125, Actor Loss: -142784.43872070312  
Episode 7593: Time: 0.27207255363464355, Total Reward: 221.49395556813062, Q Loss: 4625930.2109375, Actor Loss: -92486.5986328125  
Episode 7594: Time: 0.20715641975402832, Total Reward: 166.50096780694446, Q Loss: 2288997.314453125, Actor Loss: -76291.06811523438  
Episode 7595: Time: 0.13076186180114746, Total Reward: 100.49133950345222, Q Loss: 1420330.671875, Actor Loss: -43450.97265625  
Episode 7596: Time: 0.4671211242675781, Total Reward: 388.9260651041197, Q Loss: 6016565.12109375, Actor Loss: -159215.3876953125

Episode 7597: Time: 0.3493037223815918, Total Reward: 286.7531841245447, Q Loss: 3453046.16015625, Actor Loss: -123219.0068359375  
Episode 7598: Time: 0.20776677131652832, Total Reward: 165.3422111153427, Q Loss: 1935173.33203125, Actor Loss: -72639.71020507812  
Episode 7599: Time: 0.7706665992736816, Total Reward: 648.9108292284551, Q Loss: 10395653.787109375, Actor Loss: -269573.10888671875  
Validation Mean: 9355.027736776361, Validation Std: 0.5125863421315566  
saving model  
Episode 7600: Time: 0.19765019416809082, Total Reward: 155.66115370375178, Q Loss: 2995324.06640625, Actor Loss: -70114.26684570312  
Episode 7601: Time: 0.16360211372375488, Total Reward: 128.3519782088402, Q Loss: 2399353.6328125, Actor Loss: -56612.715576171875  
Episode 7602: Time: 0.2180790901184082, Total Reward: 174.511339634622, Q Loss: 2439681.07421875, Actor Loss: -78799.14770507812  
Episode 7603: Time: 0.3042449951171875, Total Reward: 249.07458297627772, Q Loss: 3925987.17578125, Actor Loss: -105764.11840820312  
Episode 7604: Time: 0.09820747375488281, Total Reward: 71.91721886000306, Q Loss: 1437471.4921875, Actor Loss: -35267.002685546875  
Episode 7605: Time: 0.163787841796875, Total Reward: 128.57452366407978, Q Loss: 1673092.99609375, Actor Loss: -56293.593017578125  
Episode 7606: Time: 0.8036830425262451, Total Reward: 677.4984458603561, Q Loss: 9746391.09765625, Actor Loss: -281895.912109375  
Episode 7607: Time: 0.19541335105895996, Total Reward: 156.87531739679702, Q Loss: 2539462.25, Actor Loss: -68175.16064453125  
Episode 7608: Time: 0.3263247013092041, Total Reward: 267.5660956584295, Q Loss: 3606236.130859375, Actor Loss: -110895.46557617188  
Episode 7609: Time: 0.5972216129302979, Total Reward: 500.1421333645729, Q Loss: 7670240.67578125, Actor Loss: -211819.63647460938  
Episode 7610: Time: 0.31542420387268066, Total Reward: 258.04029728864293, Q Loss: 4373014.953125, Actor Loss: -111091.712890625  
Episode 7611: Time: 0.3365519046783447, Total Reward: 277.097277232459, Q Loss: 3998441.791015625, Actor Loss: -116775.73315429688  
Episode 7612: Time: 0.8568389415740967, Total Reward: 725.2627651954191, Q Loss: 10983381.6875, Actor Loss: -299457.6032714844  
Episode 7613: Time: 0.34768199920654297, Total Reward: 286.3006287391289, Q Loss: 2828093.865234375, Actor Loss: -123215.63208007812  
Episode 7614: Time: 0.2610139846801758, Total Reward: 211.95418716679546, Q Loss: 3114151.0234375, Actor Loss: -92089.892578125  
Episode 7615: Time: 0.4343860149383545, Total Reward: 360.2925132556546, Q Loss: 6195180.1953125, Actor Loss: -152876.37963867188  
Episode 7616: Time: 1.182494878768921, Total Reward: 1001.416565670498, Q Loss: 15112605.587890625, Actor Loss: -416346.6862792969  
Episode 7617: Time: 0.3920779228210449, Total Reward: 323.4039623596858, Q Loss: 5100912.0546875, Actor Loss: -138094.84423828125  
Episode 7618: Time: 0.5763323307037354, Total Reward: 481.78474573608827, Q Loss: 6058944.982421875, Actor Loss: -200183.28881835938  
Episode 7619: Time: 0.5647790431976318, Total Reward: 472.28136821358225, Q Loss: 7529168.94140625, Actor Loss: -202774.02172851562  
Episode 7620: Time: 0.2611565589904785, Total Reward: 212.05441724816646, Q Loss: 2910117.9765625, Actor Loss: -93851.09375  
Episode 7621: Time: 0.15222501754760742, Total Reward: 118.01326462447085, Q Loss: 1597968.6484375, Actor Loss: -52566.4130859375  
Episode 7622: Time: 0.6958174705505371, Total Reward: 585.1177286207576, Q Loss: 8580103.611328125, Actor Loss: -248633.53100585938  
Episode 7623: Time: 0.08737921714782715, Total Reward: 62.53962498058277, Q Loss: 923941.9140625, Actor Loss: -31135.090576171875

Episode 7624: Time: 0.30489253997802734, Total Reward: 249.947078093239, Q Loss: 3007659.140625, Actor Loss: -110619.86791992188  
Episode 7625: Time: 0.23961973190307617, Total Reward: 194.15742306350478, Q Loss: 2687258.0, Actor Loss: -84517.23193359375  
Episode 7626: Time: 0.5975518226623535, Total Reward: 500.3548744118921, Q Loss: 7472729.78125, Actor Loss: -215114.50463867188  
Episode 7627: Time: 0.597264289855957, Total Reward: 500.4356615050265, Q Loss: 8108255.5390625, Actor Loss: -214383.423828125  
Episode 7628: Time: 0.22890615463256836, Total Reward: 182.54783231803543, Q Loss: 3070349.4296875, Actor Loss: -83495.60913085938  
Episode 7629: Time: 0.29396533966064453, Total Reward: 238.47880303323012, Q Loss: 3338572.994140625, Actor Loss: -103494.18041992188  
Episode 7630: Time: 0.16367435455322266, Total Reward: 128.14571101360852, Q Loss: 2208703.5625, Actor Loss: -56777.743408203125  
Episode 7631: Time: 0.141801118850708, Total Reward: 109.81821069348807, Q Loss: 1906893.87890625, Actor Loss: -49611.21484375  
Episode 7632: Time: 0.23918724060058594, Total Reward: 193.30397210424144, Q Loss: 3579814.921875, Actor Loss: -84981.796875  
Episode 7633: Time: 0.10912251472473145, Total Reward: 82.13871974015149, Q Loss: 1424292.0859375, Actor Loss: -37701.128662109375  
Episode 7634: Time: 0.21810078620910645, Total Reward: 173.26695391518066, Q Loss: 2725401.87890625, Actor Loss: -78769.18994140625  
Episode 7635: Time: 0.7385456562042236, Total Reward: 621.673214210298, Q Loss: 9949673.623046875, Actor Loss: -263707.3142089844  
Episode 7636: Time: 0.3373260498046875, Total Reward: 277.2026014408084, Q Loss: 5186473.97265625, Actor Loss: -119677.94262695312  
Episode 7637: Time: 0.3382833003997803, Total Reward: 277.184391278864, Q Loss: 4449137.65625, Actor Loss: -118437.20092773438  
Episode 7638: Time: 0.39260077476501465, Total Reward: 324.39208574047865, Q Loss: 5359791.3828125, Actor Loss: -135416.44946289062  
Episode 7639: Time: 0.35926127433776855, Total Reward: 295.9466587718031, Q Loss: 6542426.859375, Actor Loss: -127379.98046875  
Episode 7640: Time: 0.3056521415710449, Total Reward: 249.20363663469965, Q Loss: 4299808.203125, Actor Loss: -110687.75415039062  
Episode 7641: Time: 0.23979640007019043, Total Reward: 193.8279126508756, Q Loss: 3044228.009765625, Actor Loss: -85373.712890625  
Episode 7642: Time: 0.18506956100463867, Total Reward: 147.38130816781717, Q Loss: 2091286.8359375, Actor Loss: -66073.41064453125  
Episode 7643: Time: 1.020880937576294, Total Reward: 863.4482111613986, Q Loss: 13088205.328125, Actor Loss: -362557.3498535156  
Episode 7644: Time: 0.3593289852142334, Total Reward: 296.88329637447345, Q Loss: 4295925.3828125, Actor Loss: -127044.98095703125  
Episode 7645: Time: 0.14148831367492676, Total Reward: 110.0845017032221, Q Loss: 1942070.28515625, Actor Loss: -50543.895751953125  
Episode 7646: Time: 0.3693978786468506, Total Reward: 305.0225395066855, Q Loss: 4733213.46875, Actor Loss: -132028.98779296875  
Episode 7647: Time: 0.9982059001922607, Total Reward: 845.1213110717579, Q Loss: 12569305.859375, Actor Loss: -357642.564453125  
Episode 7648: Time: 0.5104496479034424, Total Reward: 426.7695884773608, Q Loss: 6692505.39453125, Actor Loss: -184330.05444335938  
Episode 7649: Time: 0.3590970039367676, Total Reward: 295.03586978822375, Q Loss: 4789432.5546875, Actor Loss: -124788.99365234375  
Episode 7650: Time: 0.17417693138122559, Total Reward: 138.12578732469055, Q Loss: 1900740.11328125, Actor Loss: -62580.2509765625  
Episode 7651: Time: 0.32624340057373047, Total Reward: 266.848590970863, Q Loss: 4391080.51953125, Actor Loss: -117054.380859375

Episode 7652: Time: 0.30537891387939453, Total Reward: 248.23445002783012, Q Loss: 5251112.59375, Actor Loss: -110369.41918945312  
Episode 7653: Time: 0.43550658226013184, Total Reward: 360.8282037947038, Q Loss: 5748781.908203125, Actor Loss: -157721.11767578125  
Episode 7654: Time: 0.6741197109222412, Total Reward: 566.6716937835645, Q Loss: 9956923.88671875, Actor Loss: -237917.49755859375  
Episode 7655: Time: 0.40256476402282715, Total Reward: 333.30684005356403, Q Loss: 4876807.99609375, Actor Loss: -146264.814453125  
Episode 7656: Time: 0.17443490028381348, Total Reward: 137.27830082869272, Q Loss: 2396326.0625, Actor Loss: -62918.597412109375  
Episode 7657: Time: 0.5002942085266113, Total Reward: 415.24663378644254, Q Loss: 6318347.03125, Actor Loss: -185538.6533203125  
Episode 7658: Time: 0.2936122417449951, Total Reward: 239.7606028636801, Q Loss: 3921951.671875, Actor Loss: -107006.21508789062  
Episode 7659: Time: 0.5317418575286865, Total Reward: 444.3337862212589, Q Loss: 7267621.0390625, Actor Loss: -189677.06469726562  
Episode 7660: Time: 0.2182626724243164, Total Reward: 175.21224833687384, Q Loss: 2784757.328125, Actor Loss: -79244.85107421875  
Episode 7661: Time: 0.5971488952636719, Total Reward: 501.1924902412035, Q Loss: 8425942.50390625, Actor Loss: -215612.96069335938  
Episode 7662: Time: 0.2829720973968506, Total Reward: 229.72836304196298, Q Loss: 3055998.703125, Actor Loss: -100345.76196289062  
Episode 7663: Time: 0.08803629875183105, Total Reward: 62.662529416766944, Q Loss: 1259358.61328125, Actor Loss: -33276.429443359375  
Episode 7664: Time: 0.18599271774291992, Total Reward: 146.47249807906968, Q Loss: 2386453.685546875, Actor Loss: -64332.544189453125  
Episode 7665: Time: 0.28314208984375, Total Reward: 229.64469208571143, Q Loss: 4518534.765625, Actor Loss: -102350.55004882812  
Episode 7666: Time: 0.2619917392730713, Total Reward: 210.81054486717917, Q Loss: 3432456.83984375, Actor Loss: -92045.81713867188  
Episode 7667: Time: 0.5756947994232178, Total Reward: 482.14175673708695, Q Loss: 7509802.232421875, Actor Loss: -207501.42749023438  
Episode 7668: Time: 0.34807491302490234, Total Reward: 286.8153520895013, Q Loss: 5334753.17578125, Actor Loss: -127420.89819335938  
Episode 7669: Time: 0.10881924629211426, Total Reward: 81.33334648724487, Q Loss: 1412905.88671875, Actor Loss: -41801.724365234375  
Episode 7670: Time: 0.21783041954040527, Total Reward: 175.254489054218, Q Loss: 2571511.1171875, Actor Loss: -78534.6005859375  
Episode 7671: Time: 0.2934443950653076, Total Reward: 241.00128069903116, Q Loss: 3870794.58203125, Actor Loss: -103611.91967773438  
Episode 7672: Time: 0.44576191902160645, Total Reward: 370.1803357952783, Q Loss: 5412444.43359375, Actor Loss: -160881.69995117188  
Episode 7673: Time: 0.348128080368042, Total Reward: 286.5127558187474, Q Loss: 3512391.484375, Actor Loss: -125669.00390625  
Episode 7674: Time: 0.9122920036315918, Total Reward: 771.2826284178572, Q Loss: 13084853.935546875, Actor Loss: -334587.0051269531  
Episode 7675: Time: 0.2829158306121826, Total Reward: 230.73328814868776, Q Loss: 3323013.875, Actor Loss: -104274.484375  
Episode 7676: Time: 0.2504005432128906, Total Reward: 202.92149652276214, Q Loss: 2432858.80859375, Actor Loss: -89771.681640625  
Episode 7677: Time: 0.22854304313659668, Total Reward: 184.2855788187247, Q Loss: 3372742.6640625, Actor Loss: -83162.45654296875  
Episode 7678: Time: 0.34839868545532227, Total Reward: 286.8752531934622, Q Loss: 6060723.4453125, Actor Loss: -129131.28173828125  
Episode 7679: Time: 0.28365349769592285, Total Reward: 228.46053009241555, Q Loss: 2789923.20703125, Actor Loss: -103473.119140625

Episode 7680: Time: 0.20694851875305176, Total Reward: 165.65793199595444, Q Loss: 3263527.3125, Actor Loss: -72238.36767578125  
Episode 7681: Time: 0.2831578254699707, Total Reward: 231.17931356032537, Q Loss: 4180590.576171875, Actor Loss: -106764.59350585938  
Episode 7682: Time: 1.0535728931427002, Total Reward: 892.1089700783739, Q Loss: 14536552.484375, Actor Loss: -389923.90966796875  
Episode 7683: Time: 0.15265846252441406, Total Reward: 119.3740652332986, Q Loss: 2688322.6640625, Actor Loss: -57395.89990234375  
Episode 7684: Time: 0.4792187213897705, Total Reward: 398.33872686634436, Q Loss: 6511524.4765625, Actor Loss: -175157.09765625  
Episode 7685: Time: 0.283444881439209, Total Reward: 230.70674552594448, Q Loss: 3497891.875, Actor Loss: -104654.77221679688  
Episode 7686: Time: 0.500420093536377, Total Reward: 415.88274915946005, Q Loss: 6012725.453125, Actor Loss: -180498.4677734375  
Episode 7687: Time: 0.2832036018371582, Total Reward: 230.12041953005553, Q Loss: 4187963.15625, Actor Loss: -102142.5732421875  
Episode 7688: Time: 0.9893379211425781, Total Reward: 837.4303396619302, Q Loss: 12522513.859375, Actor Loss: -362187.1240234375  
Episode 7689: Time: 0.7283644676208496, Total Reward: 612.8333028295997, Q Loss: 9455388.05859375, Actor Loss: -269986.6501464844  
Episode 7690: Time: 0.22899293899536133, Total Reward: 184.8484554932132, Q Loss: 2438321.92578125, Actor Loss: -82590.35693359375  
Episode 7691: Time: 0.1524052619934082, Total Reward: 118.4949346522137, Q Loss: 1994641.625, Actor Loss: -56564.815673828125  
Episode 7692: Time: 0.17460346221923828, Total Reward: 137.57861284453003, Q Loss: 2385312.06640625, Actor Loss: -63622.016357421875  
Episode 7693: Time: 0.25102877616882324, Total Reward: 201.12805582474334, Q Loss: 2573693.087890625, Actor Loss: -93403.59008789062  
Episode 7694: Time: 0.08745050430297852, Total Reward: 63.0104892302041, Q Loss: 1561407.3984375, Actor Loss: -32954.9033203125  
Episode 7695: Time: 0.22860336303710938, Total Reward: 183.34382298550224, Q Loss: 3250884.828125, Actor Loss: -86490.7177734375  
Episode 7696: Time: 0.18481659889221191, Total Reward: 146.6536441088647, Q Loss: 1914533.640625, Actor Loss: -67428.76171875  
Episode 7697: Time: 0.2286531925201416, Total Reward: 184.13917780544034, Q Loss: 4027830.79296875, Actor Loss: -81935.78564453125  
Episode 7698: Time: 0.19589495658874512, Total Reward: 157.0994480401804, Q Loss: 2748270.6640625, Actor Loss: -72048.1015625  
Episode 7699: Time: 0.19589710235595703, Total Reward: 155.32520005389665, Q Loss: 2359960.89453125, Actor Loss: -70081.92163085938  
Validation Mean: 9353.557835535683, Validation Std: 0.2682808642208507  
saving model  
Episode 7700: Time: 0.1072840690612793, Total Reward: 100.19771486114347, Q Loss: 2473421.3046875, Actor Loss: -48656.8291015625  
Episode 7701: Time: 0.2655360698699951, Total Reward: 266.59800193719883, Q Loss: 4780082.63671875, Actor Loss: -123077.79125976562  
Episode 7702: Time: 0.2564218044281006, Total Reward: 257.3509762154856, Q Loss: 4123859.34375, Actor Loss: -115982.763671875  
Episode 7703: Time: 0.4851052761077881, Total Reward: 499.65815790651163, Q Loss: 8170798.08203125, Actor Loss: -220341.25122070312  
Episode 7704: Time: 0.18528509140014648, Total Reward: 184.15560831755803, Q Loss: 3018601.171875, Actor Loss: -84681.22680664062  
Episode 7705: Time: 0.22116708755493164, Total Reward: 221.20763726819402, Q Loss: 3036940.5, Actor Loss: -99573.30346679688  
Episode 7706: Time: 0.37940263748168945, Total Reward: 388.1326922982092, Q Loss: 7102286.90234375, Actor Loss: -170528.42700195312

Episode 7707: Time: 0.5055563449859619, Total Reward: 519.6487267266423, Q Loss: 7677840.9375, Actor Loss: -230051.80883789062  
Episode 7708: Time: 0.1769425868988037, Total Reward: 175.32367902333232, Q Loss: 2473951.125, Actor Loss: -82799.34838867188  
Episode 7709: Time: 0.3619530200958252, Total Reward: 370.66761667938954, Q Loss: 5800943.8203125, Actor Loss: -164892.50561523438  
Episode 7710: Time: 0.7144417762756348, Total Reward: 742.2789891739784, Q Loss: 11637706.328125, Actor Loss: -318746.47509765625  
Episode 7711: Time: 0.3442976474761963, Total Reward: 352.34449792020325, Q Loss: 5082912.06640625, Actor Loss: -158214.80859375  
Episode 7712: Time: 0.42402005195617676, Total Reward: 436.2996357005091, Q Loss: 7749393.6015625, Actor Loss: -190767.24780273438  
Episode 7713: Time: 0.6173112392425537, Total Reward: 640.0451347286005, Q Loss: 10432447.57421875, Actor Loss: -282882.3786621094  
Episode 7714: Time: 0.05332493782043457, Total Reward: 44.45782106031117, Q Loss: 1287383.078125, Actor Loss: -25288.630615234375  
Episode 7715: Time: 0.44978761672973633, Total Reward: 464.5750602780503, Q Loss: 7712318.9765625, Actor Loss: -204771.01098632812  
Episode 7716: Time: 0.21220064163208008, Total Reward: 210.19049326938043, Q Loss: 3551816.25390625, Actor Loss: -94412.73461914062  
Episode 7717: Time: 0.27396655082702637, Total Reward: 277.4055335540978, Q Loss: 4657702.7421875, Actor Loss: -123677.89794921875  
Episode 7718: Time: 0.2387235164642334, Total Reward: 238.76726244659082, Q Loss: 5122420.265625, Actor Loss: -107643.009765625  
Episode 7719: Time: 0.6795468330383301, Total Reward: 704.7179128210464, Q Loss: 10476996.419921875, Actor Loss: -310601.4909667969  
Episode 7720: Time: 0.4689457416534424, Total Reward: 481.4919130476186, Q Loss: 8087996.56640625, Actor Loss: -214172.93286132812  
Episode 7721: Time: 0.43205904960632324, Total Reward: 445.0220477623066, Q Loss: 7058864.7265625, Actor Loss: -199517.86450195312  
Episode 7722: Time: 0.21264290809631348, Total Reward: 212.47778387095286, Q Loss: 3058343.140625, Actor Loss: -97066.42504882812  
Episode 7723: Time: 0.10557150840759277, Total Reward: 100.6811834388647, Q Loss: 1680806.7734375, Actor Loss: -47878.241455078125  
Episode 7724: Time: 0.1100161075592041, Total Reward: 100.20933668368347, Q Loss: 1622695.6796875, Actor Loss: -49242.76416015625  
Episode 7725: Time: 0.2579805850982666, Total Reward: 256.8229836282001, Q Loss: 3786878.84375, Actor Loss: -117226.17895507812  
Episode 7726: Time: 0.2732572555541992, Total Reward: 277.53670457630756, Q Loss: 5206661.234375, Actor Loss: -128098.82104492188  
Episode 7727: Time: 0.3877885341644287, Total Reward: 397.9504533390124, Q Loss: 6260479.91015625, Actor Loss: -178591.06518554688  
Episode 7728: Time: 0.5277464389801025, Total Reward: 547.9424665399364, Q Loss: 9499139.0625, Actor Loss: -242324.78295898438  
Episode 7729: Time: 0.1234290599822998, Total Reward: 119.02236488438363, Q Loss: 2067934.984375, Actor Loss: -56511.549072265625  
Episode 7730: Time: 0.2741405963897705, Total Reward: 277.10556664965253, Q Loss: 4587409.734375, Actor Loss: -125892.30224609375  
Episode 7731: Time: 0.3884720802307129, Total Reward: 399.4679838280391, Q Loss: 7098784.85546875, Actor Loss: -180216.54345703125  
Episode 7732: Time: 0.08870816230773926, Total Reward: 81.82381250796719, Q Loss: 1409199.640625, Actor Loss: -43216.69580078125  
Episode 7733: Time: 0.31784701347351074, Total Reward: 321.4506585415076, Q Loss: 5072100.8984375, Actor Loss: -147712.005859375  
Episode 7734: Time: 0.27341175079345703, Total Reward: 277.1763948384528, Q Loss: 4234541.63671875, Actor Loss: -128506.75439453125

Episode 7735: Time: 0.17624831199645996, Total Reward: 175.93403110259706, Q Loss: 3888364.859375, Actor Loss: -85477.31958007812  
Episode 7736: Time: 0.21254396438598633, Total Reward: 212.54186007057567, Q Loss: 3282679.35546875, Actor Loss: -95632.3857421875  
Episode 7737: Time: 0.2032933235168457, Total Reward: 202.93580318671644, Q Loss: 3108459.6484375, Actor Loss: -93839.70458984375  
Episode 7738: Time: 0.22980141639709473, Total Reward: 231.33266066515063, Q Loss: 4147285.10546875, Actor Loss: -105507.3603515625  
Episode 7739: Time: 0.13222265243530273, Total Reward: 128.6621408848787, Q Loss: 2151420.25, Actor Loss: -59696.087890625  
Episode 7740: Time: 0.2032163143157959, Total Reward: 203.0713229320363, Q Loss: 3030836.9765625, Actor Loss: -89930.99243164062  
Episode 7741: Time: 0.22300982475280762, Total Reward: 221.5318735625878, Q Loss: 3505847.92578125, Actor Loss: -102365.27612304688  
Episode 7742: Time: 0.0973348617553711, Total Reward: 91.41199671515893, Q Loss: 1915441.390625, Actor Loss: -45586.372802734375  
Episode 7743: Time: 0.07077741622924805, Total Reward: 63.38530266723168, Q Loss: 1481956.8203125, Actor Loss: -32304.438720703125  
Episode 7744: Time: 0.29943394660949707, Total Reward: 306.3598670586336, Q Loss: 5945327.5625, Actor Loss: -142292.630859375  
Episode 7745: Time: 0.14984917640686035, Total Reward: 147.5507679472033, Q Loss: 2359083.0, Actor Loss: -70091.787109375  
Episode 7746: Time: 0.1768968105316162, Total Reward: 174.7513871741834, Q Loss: 3341574.73046875, Actor Loss: -81852.2568359375  
Episode 7747: Time: 0.1674482822418213, Total Reward: 164.96974404003103, Q Loss: 3138927.73828125, Actor Loss: -79723.986328125  
Episode 7748: Time: 0.18554377555847168, Total Reward: 184.52071672398804, Q Loss: 4308050.8359375, Actor Loss: -87921.80322265625  
Episode 7749: Time: 0.4583461284637451, Total Reward: 472.1256005034877, Q Loss: 7615921.8515625, Actor Loss: -213876.294921875  
Episode 7750: Time: 0.2998697757720947, Total Reward: 305.5167690671093, Q Loss: 5772133.6640625, Actor Loss: -140563.73095703125  
Episode 7751: Time: 0.2732372283935547, Total Reward: 277.64977537929633, Q Loss: 5148989.1875, Actor Loss: -127733.220703125  
Episode 7752: Time: 0.20325827598571777, Total Reward: 201.06661341972455, Q Loss: 3373041.3203125, Actor Loss: -93125.18798828125  
Episode 7753: Time: 0.09704041481018066, Total Reward: 91.68029415174226, Q Loss: 1917672.109375, Actor Loss: -47200.052001953125  
Episode 7754: Time: 0.21222805976867676, Total Reward: 210.22966991741336, Q Loss: 3822099.26171875, Actor Loss: -102639.20849609375  
Episode 7755: Time: 0.3261547088623047, Total Reward: 333.2581522469441, Q Loss: 6112625.224609375, Actor Loss: -152956.03344726562  
Episode 7756: Time: 0.6423773765563965, Total Reward: 667.262647068796, Q Loss: 12152998.6171875, Actor Loss: -301187.59716796875  
Episode 7757: Time: 0.5452232360839844, Total Reward: 564.8972260397352, Q Loss: 8742744.59375, Actor Loss: -255238.42431640625  
Episode 7758: Time: 0.343430757522583, Total Reward: 350.84007052617767, Q Loss: 7245954.58984375, Actor Loss: -161642.890625  
Episode 7759: Time: 0.0972146987915039, Total Reward: 91.51979460099852, Q Loss: 1807051.59375, Actor Loss: -43002.855712890625  
Episode 7760: Time: 0.2732686996459961, Total Reward: 277.34141276770424, Q Loss: 5001757.49609375, Actor Loss: -127995.6904296875  
Episode 7761: Time: 0.14930057525634766, Total Reward: 147.1643368858093, Q Loss: 1975909.83203125, Actor Loss: -74083.560546875  
Episode 7762: Time: 0.25541138648986816, Total Reward: 259.72728621465103, Q Loss: 5151175.4921875, Actor Loss: -121621.12719726562



Episode 7763: Time: 0.23770594596862793, Total Reward: 240.5379713777098, Q Loss: 4064853.2578125, Actor Loss: -111224.95263671875  
Episode 7764: Time: 0.11459755897521973, Total Reward: 109.35039895039928, Q Loss: 2203484.29296875, Actor Loss: -51713.0244140625  
Episode 7765: Time: 0.2990400791168213, Total Reward: 305.8704169372238, Q Loss: 5313608.0703125, Actor Loss: -142265.298828125  
Episode 7766: Time: 0.4045374393463135, Total Reward: 414.032333386564, Q Loss: 7495684.79296875, Actor Loss: -191475.89965820312  
Episode 7767: Time: 0.4748835563659668, Total Reward: 491.3902492256078, Q Loss: 9863953.04296875, Actor Loss: -225779.28393554688  
Episode 7768: Time: 0.26403045654296875, Total Reward: 267.465319927964, Q Loss: 4877849.359375, Actor Loss: -126725.50439453125  
Episode 7769: Time: 0.14933371543884277, Total Reward: 146.50885211736642, Q Loss: 3165526.4609375, Actor Loss: -73122.24926757812  
Episode 7770: Time: 0.7724812030792236, Total Reward: 808.334755992414, Q Loss: 14288882.046875, Actor Loss: -363087.5859375  
Episode 7771: Time: 0.17560815811157227, Total Reward: 174.9754632429223, Q Loss: 3002235.90625, Actor Loss: -80003.806640625  
Episode 7772: Time: 0.18465495109558105, Total Reward: 182.33856151015462, Q Loss: 3075996.3984375, Actor Loss: -88573.63745117188  
Episode 7773: Time: 0.3693392276763916, Total Reward: 379.8850878934341, Q Loss: 5951928.6796875, Actor Loss: -178464.61962890625  
Episode 7774: Time: 0.25444889068603516, Total Reward: 257.7515648969147, Q Loss: 4409460.06640625, Actor Loss: -122431.26831054688  
Episode 7775: Time: 0.41281795501708984, Total Reward: 426.7091930393296, Q Loss: 8025674.14453125, Actor Loss: -196444.62646484375  
Episode 7776: Time: 0.19361233711242676, Total Reward: 193.22587018505848, Q Loss: 3960475.93359375, Actor Loss: -91989.7666015625  
Episode 7777: Time: 0.07109594345092773, Total Reward: 63.223445393015886, Q Loss: 1179489.51171875, Actor Loss: -32105.4921875  
Episode 7778: Time: 0.1500391960144043, Total Reward: 146.97983631727354, Q Loss: 3072619.6484375, Actor Loss: -69588.89135742188  
Episode 7779: Time: 0.3084864616394043, Total Reward: 314.7678479506828, Q Loss: 5167914.90625, Actor Loss: -147255.79443359375  
Episode 7780: Time: 0.07960772514343262, Total Reward: 72.38063938634397, Q Loss: 1327083.0078125, Actor Loss: -39533.657958984375  
Episode 7781: Time: 0.1767134666442871, Total Reward: 175.15487183711144, Q Loss: 2613474.03125, Actor Loss: -85302.43115234375  
Episode 7782: Time: 0.5618767738342285, Total Reward: 584.8213225198759, Q Loss: 9107860.423828125, Actor Loss: -267515.3703613281  
Episode 7783: Time: 0.44847583770751953, Total Reward: 462.92513253882333, Q Loss: 6701876.671875, Actor Loss: -212481.46484375  
Episode 7784: Time: 0.31657981872558594, Total Reward: 323.09207389989393, Q Loss: 6739659.19921875, Actor Loss: -150459.26782226562  
Episode 7785: Time: 0.16728901863098145, Total Reward: 164.73913792285722, Q Loss: 3818464.01953125, Actor Loss: -80937.556640625  
Episode 7786: Time: 0.3428025245666504, Total Reward: 352.0846063311905, Q Loss: 6507611.59375, Actor Loss: -163895.6796875  
Episode 7787: Time: 0.12824630737304688, Total Reward: 109.95368109645811, Q Loss: 1883769.140625, Actor Loss: -54551.992919921875  
Episode 7788: Time: 0.09573483467102051, Total Reward: 82.14009776549834, Q Loss: 1499952.115234375, Actor Loss: -42534.44580078125  
Episode 7789: Time: 0.14796948432922363, Total Reward: 138.05469796428534, Q Loss: 1870484.6796875, Actor Loss: -65758.51049804688  
Episode 7790: Time: 1.092498779296875, Total Reward: 1124.5704758762836, Q Loss: 20183407.609375, Actor Loss: -509608.4072265625

Episode 7791: Time: 0.13422799110412598, Total Reward: 128.64565305969091, Q Loss: 2350714.2890625, Actor Loss: -63096.236572265625  
Episode 7792: Time: 0.18804717063903809, Total Reward: 183.491094518208, Q Loss: 2936173.78125, Actor Loss: -89247.25537109375  
Episode 7793: Time: 0.21449065208435059, Total Reward: 210.31570546415657, Q Loss: 4537186.2734375, Actor Loss: -101581.98168945312  
Episode 7794: Time: 0.39325523376464844, Total Reward: 398.0194272355638, Q Loss: 7047722.51953125, Actor Loss: -184110.41625976562  
Episode 7795: Time: 0.19658946990966797, Total Reward: 193.30299515466533, Q Loss: 3529869.72265625, Actor Loss: -93336.52099609375  
Episode 7796: Time: 0.41055965423583984, Total Reward: 418.20431990945605, Q Loss: 6402334.818359375, Actor Loss: -191464.06201171875  
Episode 7797: Time: 0.5701537132263184, Total Reward: 584.2502621642356, Q Loss: 11320123.3515625, Actor Loss: -273420.3630371094  
Episode 7798: Time: 0.21372413635253906, Total Reward: 212.26765443626087, Q Loss: 3557029.734375, Actor Loss: -102593.54077148438  
Episode 7799: Time: 0.32074713706970215, Total Reward: 322.96837954136396, Q Loss: 6489162.9765625, Actor Loss: -151637.79833984375  
Validation Mean: 9353.576570832862, Validation Std: 0.3572304947144589  
saving model  
Episode 7800: Time: 0.44127702713012695, Total Reward: 435.1445308327162, Q Loss: 8880285.80859375, Actor Loss: -202586.5  
Episode 7801: Time: 0.17908525466918945, Total Reward: 173.3933271246999, Q Loss: 3027171.34375, Actor Loss: -83624.99584960938  
Episode 7802: Time: 0.34778547286987305, Total Reward: 349.4990105616205, Q Loss: 5515789.1953125, Actor Loss: -169212.45751953125  
Episode 7803: Time: 0.22310853004455566, Total Reward: 219.4402609633381, Q Loss: 5066181.349609375, Actor Loss: -105689.76098632812  
Episode 7804: Time: 0.25829195976257324, Total Reward: 256.6535456895445, Q Loss: 5054412.5078125, Actor Loss: -121235.14599609375  
Episode 7805: Time: 0.33824729919433594, Total Reward: 341.36108032009787, Q Loss: 4868920.05859375, Actor Loss: -162691.5810546875  
Episode 7806: Time: 0.2233731746673584, Total Reward: 220.60852291135433, Q Loss: 4145040.88671875, Actor Loss: -104895.90234375  
Episode 7807: Time: 0.2497091293334961, Total Reward: 250.14839837174105, Q Loss: 5006142.18359375, Actor Loss: -116234.1982421875  
Episode 7808: Time: 0.24071478843688965, Total Reward: 238.62650674159937, Q Loss: 3980600.1171875, Actor Loss: -113833.66259765625  
Episode 7809: Time: 0.14234399795532227, Total Reward: 138.33868058022148, Q Loss: 2759788.6171875, Actor Loss: -66239.51293945312  
Episode 7810: Time: 0.23155570030212402, Total Reward: 229.56146615954717, Q Loss: 4745387.294921875, Actor Loss: -106325.1513671875  
Episode 7811: Time: 0.3953094482421875, Total Reward: 398.106625458468, Q Loss: 8756273.4609375, Actor Loss: -185086.59594726562  
Episode 7812: Time: 0.27793097496032715, Total Reward: 278.1344706904518, Q Loss: 4709373.63671875, Actor Loss: -133555.37866210938  
Episode 7813: Time: 0.23206853866577148, Total Reward: 228.58899251415636, Q Loss: 4171908.36328125, Actor Loss: -109039.2626953125  
Episode 7814: Time: 0.2142949104309082, Total Reward: 212.02769093295723, Q Loss: 4156494.2421875, Actor Loss: -103714.73852539062  
Episode 7815: Time: 0.727736234664917, Total Reward: 734.0850184381351, Q Loss: 12701776.640625, Actor Loss: -340252.1511230469  
Episode 7816: Time: 0.2497873306274414, Total Reward: 237.93774243739583, Q Loss: 4364144.9140625, Actor Loss: -115209.31176757812  
Episode 7817: Time: 0.2585868835449219, Total Reward: 239.49467638152603, Q Loss: 5234185.30078125, Actor Loss: -117167.27270507812

Episode 7818: Time: 0.3004631996154785, Total Reward: 295.56693473835816, Q Loss: 5068061.28125, Actor Loss: -145761.23291015625  
Episode 7819: Time: 0.46718263626098633, Total Reward: 481.04925251802075, Q Loss: 9284983.4453125, Actor Loss: -224786.28076171875  
Episode 7820: Time: 0.07050728797912598, Total Reward: 62.5823964321103, Q Loss: 2013755.484375, Actor Loss: -32373.5966796875  
Episode 7821: Time: 0.11460351943969727, Total Reward: 109.96613415106401, Q Loss: 2050817.86328125, Actor Loss: -57301.353759765625  
Episode 7822: Time: 0.3527688980102539, Total Reward: 359.6372590183705, Q Loss: 6811953.796875, Actor Loss: -166108.2939453125  
Episode 7823: Time: 0.13227534294128418, Total Reward: 129.2472690311396, Q Loss: 2551714.7109375, Actor Loss: -65494.823486328125  
Episode 7824: Time: 0.17624878883361816, Total Reward: 175.02970575689514, Q Loss: 3615111.400390625, Actor Loss: -84386.98193359375  
Episode 7825: Time: 0.27301645278930664, Total Reward: 275.6160394921547, Q Loss: 7293673.00390625, Actor Loss: -129610.43383789062  
Episode 7826: Time: 0.2646622657775879, Total Reward: 268.0528262028106, Q Loss: 5760873.71484375, Actor Loss: -126472.07763671875  
Episode 7827: Time: 0.22917437553405762, Total Reward: 230.93311668936317, Q Loss: 4877150.87109375, Actor Loss: -112281.94604492188  
Episode 7828: Time: 0.4131298065185547, Total Reward: 426.61151417793616, Q Loss: 7877260.28515625, Actor Loss: -199933.9296875  
Episode 7829: Time: 0.29114532470703125, Total Reward: 295.32464987993126, Q Loss: 5138055.87109375, Actor Loss: -138019.3134765625  
Episode 7830: Time: 0.10599184036254883, Total Reward: 100.54908804193964, Q Loss: 2145593.26171875, Actor Loss: -49578.986328125  
Episode 7831: Time: 0.1771237850189209, Total Reward: 174.54729363329147, Q Loss: 3071181.46875, Actor Loss: -88734.36474609375  
Episode 7832: Time: 0.08833098411560059, Total Reward: 82.04187777534601, Q Loss: 1786146.2734375, Actor Loss: -45020.439453125  
Episode 7833: Time: 0.31687331199645996, Total Reward: 322.417297856835, Q Loss: 5873479.1796875, Actor Loss: -153421.56225585938  
Episode 7834: Time: 0.2115786075592041, Total Reward: 211.6741809953395, Q Loss: 3135251.8515625, Actor Loss: -102978.029296875  
Episode 7835: Time: 0.3883781433105469, Total Reward: 397.6404948455013, Q Loss: 7237666.25390625, Actor Loss: -190038.18188476562  
Episode 7836: Time: 0.3350870609283447, Total Reward: 341.8546061982244, Q Loss: 7093923.1328125, Actor Loss: -160313.72143554688  
Episode 7837: Time: 0.3168487548828125, Total Reward: 323.2327435463259, Q Loss: 6816042.16796875, Actor Loss: -154437.86938476562  
Episode 7838: Time: 0.12346816062927246, Total Reward: 119.08939123266543, Q Loss: 2261661.84375, Actor Loss: -57189.26220703125  
Episode 7839: Time: 0.1680150032043457, Total Reward: 165.51416342575405, Q Loss: 2426982.71875, Actor Loss: -80384.5927734375  
Episode 7840: Time: 0.25601792335510254, Total Reward: 259.17514436478774, Q Loss: 4683530.84375, Actor Loss: -119893.16943359375  
Episode 7841: Time: 0.16753411293029785, Total Reward: 166.34071589838837, Q Loss: 2884330.7109375, Actor Loss: -82767.9873046875  
Episode 7842: Time: 0.22124361991882324, Total Reward: 220.67770991131994, Q Loss: 4312681.83203125, Actor Loss: -107701.24365234375  
Episode 7843: Time: 0.1764845848083496, Total Reward: 174.54270232118097, Q Loss: 2353828.3671875, Actor Loss: -86627.13330078125  
Episode 7844: Time: 0.42247581481933594, Total Reward: 435.86007800689, Q Loss: 8091328.7578125, Actor Loss: -208869.64111328125  
Episode 7845: Time: 0.3517632484436035, Total Reward: 361.3989600991919, Q Loss: 6297735.54296875, Actor Loss: -170426.52490234375

Episode 7846: Time: 0.08808684349060059, Total Reward: 82.16888218960788, Q Loss: 1267483.625, Actor Loss: -43854.743896484375  
Episode 7847: Time: 0.39583492279052734, Total Reward: 405.80766321581024, Q Loss: 7192115.48828125, Actor Loss: -194903.466796875  
Episode 7848: Time: 0.676868200302124, Total Reward: 704.463731785861, Q Loss: 14072815.7578125, Actor Loss: -332274.2578125  
Episode 7849: Time: 0.14211249351501465, Total Reward: 137.2211783549274, Q Loss: 2853333.2578125, Actor Loss: -66235.08154296875  
Episode 7850: Time: 0.20282936096191406, Total Reward: 201.29530692605599, Q Loss: 4417612.96875, Actor Loss: -100256.41674804688  
Episode 7851: Time: 0.29053783416748047, Total Reward: 295.6432563363556, Q Loss: 6340918.15625, Actor Loss: -141028.5986328125  
Episode 7852: Time: 0.22078871726989746, Total Reward: 221.8723495010414, Q Loss: 4077582.86328125, Actor Loss: -108157.11010742188  
Episode 7853: Time: 0.22048640251159668, Total Reward: 221.36510706985754, Q Loss: 4465304.515625, Actor Loss: -107250.91943359375  
Episode 7854: Time: 0.35184168815612793, Total Reward: 361.10063231362335, Q Loss: 6585783.671875, Actor Loss: -172669.41235351562  
Episode 7855: Time: 0.16698074340820312, Total Reward: 165.68636990560574, Q Loss: 3799742.640625, Actor Loss: -82090.37158203125  
Episode 7856: Time: 0.29860448837280273, Total Reward: 304.1605284517507, Q Loss: 6219183.609375, Actor Loss: -149232.96875  
Episode 7857: Time: 0.5191428661346436, Total Reward: 539.4039579082229, Q Loss: 9999282.37890625, Actor Loss: -253682.94018554688  
Episode 7858: Time: 0.20303797721862793, Total Reward: 202.1728074300111, Q Loss: 4060940.0234375, Actor Loss: -98786.64379882812  
Episode 7859: Time: 0.2992708683013916, Total Reward: 304.8584103273504, Q Loss: 5388690.87890625, Actor Loss: -147758.39819335938  
Episode 7860: Time: 0.33455467224121094, Total Reward: 342.3792250262091, Q Loss: 6671895.28125, Actor Loss: -161980.26049804688  
Episode 7861: Time: 0.28174352645874023, Total Reward: 287.13283175483497, Q Loss: 5175472.5546875, Actor Loss: -141349.595703125  
Episode 7862: Time: 0.4658317565917969, Total Reward: 482.2542359307378, Q Loss: 8315903.841796875, Actor Loss: -229219.42041015625  
Episode 7863: Time: 0.16749811172485352, Total Reward: 165.30726740975467, Q Loss: 3956700.9375, Actor Loss: -84323.10717773438  
Episode 7864: Time: 0.1326124668121338, Total Reward: 128.26642282293056, Q Loss: 2849718.67578125, Actor Loss: -66007.24291992188  
Episode 7865: Time: 0.32555270195007324, Total Reward: 332.43166346619273, Q Loss: 5863309.73046875, Actor Loss: -160396.53637695312  
Episode 7866: Time: 0.46622443199157715, Total Reward: 481.37018061853763, Q Loss: 9241767.3515625, Actor Loss: -227953.82958984375  
Episode 7867: Time: 0.13230013847351074, Total Reward: 129.02947405293784, Q Loss: 4310472.0, Actor Loss: -64638.262939453125  
Episode 7868: Time: 0.1331946849822998, Total Reward: 128.4890569393856, Q Loss: 2925773.34375, Actor Loss: -62197.262451171875  
Episode 7869: Time: 0.23813843727111816, Total Reward: 240.06357557080324, Q Loss: 4400128.91015625, Actor Loss: -119535.69384765625  
Episode 7870: Time: 0.14521002769470215, Total Reward: 118.52498631133291, Q Loss: 2171905.1640625, Actor Loss: -63871.6767578125  
Episode 7871: Time: 0.14107322692871094, Total Reward: 138.06605921013917, Q Loss: 2265853.0, Actor Loss: -72231.36059570312  
Episode 7872: Time: 0.28157949447631836, Total Reward: 286.933572210188, Q Loss: 5487984.06640625, Actor Loss: -140305.8779296875  
Episode 7873: Time: 0.2199099063873291, Total Reward: 222.20186587226988, Q Loss: 3331456.51953125, Actor Loss: -107364.19750976562

Episode 7874: Time: 0.15843510627746582, Total Reward: 155.1984238500085, Q Loss: 3493992.50390625, Actor Loss: -77610.39282226562  
Episode 7875: Time: 0.4493277072906494, Total Reward: 461.4496779117381, Q Loss: 10069522.0703125, Actor Loss: -218408.0791015625  
Episode 7876: Time: 0.19373726844787598, Total Reward: 193.85900304132284, Q Loss: 3676966.90625, Actor Loss: -96305.439453125  
Episode 7877: Time: 0.28176021575927734, Total Reward: 287.37457433035866, Q Loss: 5367766.6328125, Actor Loss: -142397.328125  
Episode 7878: Time: 0.13224220275878906, Total Reward: 128.8489933122134, Q Loss: 3088712.125, Actor Loss: -66113.65551757812  
Episode 7879: Time: 0.2908291816711426, Total Reward: 295.3766851417356, Q Loss: 5696460.0859375, Actor Loss: -140963.31982421875  
Episode 7880: Time: 0.22932100296020508, Total Reward: 230.2973721368785, Q Loss: 4789138.0390625, Actor Loss: -113634.89086914062  
Episode 7881: Time: 0.47484326362609863, Total Reward: 492.37814065965256, Q Loss: 9485452.640625, Actor Loss: -231042.75366210938  
Episode 7882: Time: 0.3082153797149658, Total Reward: 314.8609977976087, Q Loss: 5042938.29296875, Actor Loss: -155651.57885742188  
Episode 7883: Time: 0.3168368339538574, Total Reward: 324.03359025555363, Q Loss: 6064114.5, Actor Loss: -151859.03564453125  
Episode 7884: Time: 0.13209962844848633, Total Reward: 127.93470908895044, Q Loss: 2885101.9765625, Actor Loss: -66662.0771484375  
Episode 7885: Time: 0.12361884117126465, Total Reward: 119.37807711575512, Q Loss: 1692340.52734375, Actor Loss: -60830.765380859375  
Episode 7886: Time: 0.27313828468322754, Total Reward: 276.05907798523776, Q Loss: 5009443.60546875, Actor Loss: -135046.01293945312  
Episode 7887: Time: 0.3349883556365967, Total Reward: 342.35254010653443, Q Loss: 6701494.25, Actor Loss: -167922.90844726562  
Episode 7888: Time: 0.38742995262145996, Total Reward: 398.064487062143, Q Loss: 8088505.19921875, Actor Loss: -188988.21533203125  
Episode 7889: Time: 0.36075758934020996, Total Reward: 369.5497737382017, Q Loss: 7842348.265625, Actor Loss: -177553.39306640625  
Episode 7890: Time: 0.17647814750671387, Total Reward: 173.32825335379852, Q Loss: 2858906.796875, Actor Loss: -85826.80249023438  
Episode 7891: Time: 0.44072842597961426, Total Reward: 454.1322135639317, Q Loss: 10078476.70703125, Actor Loss: -222825.2939453125  
Episode 7892: Time: 0.14121174812316895, Total Reward: 138.34613859900728, Q Loss: 3084470.8203125, Actor Loss: -71848.29418945312  
Episode 7893: Time: 0.2388613224029541, Total Reward: 239.7468635625109, Q Loss: 5229815.84765625, Actor Loss: -116151.69116210938  
Episode 7894: Time: 0.07977843284606934, Total Reward: 72.36827492978153, Q Loss: 1873163.546875, Actor Loss: -40724.309326171875  
Episode 7895: Time: 0.265209436416626, Total Reward: 267.00302522252537, Q Loss: 5283645.9453125, Actor Loss: -128639.72778320312  
Episode 7896: Time: 0.2301192283630371, Total Reward: 229.7360229786228, Q Loss: 5033568.0625, Actor Loss: -113010.64038085938  
Episode 7897: Time: 0.19418668746948242, Total Reward: 191.23774452095165, Q Loss: 3438397.02734375, Actor Loss: -94605.45629882812  
Episode 7898: Time: 0.08018851280212402, Total Reward: 72.02862902439645, Q Loss: 1451019.1640625, Actor Loss: -40693.2060546875  
Episode 7899: Time: 0.5202755928039551, Total Reward: 538.9861919966229, Q Loss: 10910712.02734375, Actor Loss: -258887.36645507812  
Validation Mean: 9353.383624457798, Validation Std: 0.3247872441425427  
saving model  
Episode 7900: Time: 0.5811879634857178, Total Reward: 584.4731535764686, Q Loss: 11450773.91796875, Actor Loss: -278756.60400390625

Episode 7901: Time: 0.13446855545043945, Total Reward: 127.84575267508541, Q Loss: 3428723.0625, Actor Loss: -67630.81323242188  
Episode 7902: Time: 0.7207019329071045, Total Reward: 742.685153325898, Q Loss: 13770678.09375, Actor Loss: -359190.0793457031  
Episode 7903: Time: 0.26684141159057617, Total Reward: 266.4621601687545, Q Loss: 6398159.79296875, Actor Loss: -131087.90112304688  
Episode 7904: Time: 0.43442416191101074, Total Reward: 444.0844512914963, Q Loss: 8565723.59765625, Actor Loss: -216791.25708007812  
Episode 7905: Time: 0.20424628257751465, Total Reward: 202.22227692725113, Q Loss: 3278244.4140625, Actor Loss: -103032.64282226562  
Episode 7906: Time: 0.5214760303497314, Total Reward: 538.3172654885119, Q Loss: 11147460.86328125, Actor Loss: -255203.322265625  
Episode 7907: Time: 0.22096538543701172, Total Reward: 220.20265944841583, Q Loss: 4645291.61328125, Actor Loss: -108744.40185546875  
Episode 7908: Time: 0.1679387092590332, Total Reward: 166.39427228974023, Q Loss: 3641345.546875, Actor Loss: -85089.84814453125  
Episode 7909: Time: 0.38028740882873535, Total Reward: 388.5067782182951, Q Loss: 7162532.4375, Actor Loss: -186938.85424804688  
Episode 7910: Time: 0.28450846672058105, Total Reward: 286.8057529018217, Q Loss: 6244927.2421875, Actor Loss: -141500.041015625  
Episode 7911: Time: 0.37168312072753906, Total Reward: 378.0127966064905, Q Loss: 8129737.958984375, Actor Loss: -184642.6474609375  
Episode 7912: Time: 0.15079522132873535, Total Reward: 146.99041138634558, Q Loss: 3670216.08984375, Actor Loss: -76265.04467773438  
Episode 7913: Time: 0.3185081481933594, Total Reward: 323.9213450520585, Q Loss: 7034252.6328125, Actor Loss: -161097.1123046875  
Episode 7914: Time: 0.2037522792816162, Total Reward: 202.06055320208165, Q Loss: 3371324.16015625, Actor Loss: -101738.29736328125  
Episode 7915: Time: 0.5737581253051758, Total Reward: 594.7983768111766, Q Loss: 11700323.01171875, Actor Loss: -286534.6696777344  
Episode 7916: Time: 0.2920076847076416, Total Reward: 295.93868228479425, Q Loss: 6473892.88671875, Actor Loss: -143144.96264648438  
Episode 7917: Time: 0.6766886711120605, Total Reward: 697.1774003365633, Q Loss: 12284647.984375, Actor Loss: -332956.24462890625  
Episode 7918: Time: 0.4167799949645996, Total Reward: 426.1904110850603, Q Loss: 9124385.87109375, Actor Loss: -207408.17163085938  
Episode 7919: Time: 0.3192439079284668, Total Reward: 324.0189488584906, Q Loss: 7549306.04296875, Actor Loss: -155587.60180664062  
Episode 7920: Time: 0.1418895721435547, Total Reward: 137.85290289202595, Q Loss: 2079417.21875, Actor Loss: -70124.115234375  
Episode 7921: Time: 0.2747931480407715, Total Reward: 277.2698449559922, Q Loss: 5164211.02734375, Actor Loss: -139373.158203125  
Episode 7922: Time: 0.15044236183166504, Total Reward: 146.67029405608022, Q Loss: 2185309.3046875, Actor Loss: -76854.775390625  
Episode 7923: Time: 0.13351130485534668, Total Reward: 128.37419517684347, Q Loss: 2264673.921875, Actor Loss: -65968.19311523438  
Episode 7924: Time: 0.6989357471466064, Total Reward: 723.5530888472334, Q Loss: 13029681.66015625, Actor Loss: -348412.6359863281  
Episode 7925: Time: 0.7873635292053223, Total Reward: 818.2721971408066, Q Loss: 17104209.53125, Actor Loss: -397508.5231933594  
Episode 7926: Time: 0.24786734580993652, Total Reward: 249.97565705643262, Q Loss: 4064346.15625, Actor Loss: -126476.86840820312  
Episode 7927: Time: 0.1678311824798584, Total Reward: 165.9304070679734, Q Loss: 3804199.7265625, Actor Loss: -84078.79272460938  
Episode 7928: Time: 0.14183998107910156, Total Reward: 137.97493597786027, Q Loss: 2463680.4921875, Actor Loss: -68129.96606445312

Episode 7929: Time: 0.2996406555175781, Total Reward: 305.23432802061103, Q Loss: 6571075.48828125, Actor Loss: -151478.70166015625  
Episode 7930: Time: 0.2826206684112549, Total Reward: 287.4925487056229, Q Loss: 7299570.2734375, Actor Loss: -140419.49145507812  
Episode 7931: Time: 0.14995455741882324, Total Reward: 147.33365413686488, Q Loss: 2902185.44140625, Actor Loss: -75806.8076171875  
Episode 7932: Time: 0.45079469680786133, Total Reward: 461.2847660653243, Q Loss: 9327340.7890625, Actor Loss: -230566.40771484375  
Episode 7933: Time: 0.3361392021179199, Total Reward: 341.5076060881366, Q Loss: 8221408.6484375, Actor Loss: -172388.0322265625  
Episode 7934: Time: 0.08857178688049316, Total Reward: 81.75212692096844, Q Loss: 2093172.26171875, Actor Loss: -43262.255126953125  
Episode 7935: Time: 0.3976454734802246, Total Reward: 407.17900032053006, Q Loss: 9118737.53515625, Actor Loss: -201894.70629882812  
Episode 7936: Time: 0.3182237148284912, Total Reward: 323.46520355579514, Q Loss: 7417341.078125, Actor Loss: -158143.34643554688  
Episode 7937: Time: 0.4085240364074707, Total Reward: 417.41902500828695, Q Loss: 8499041.11328125, Actor Loss: -200931.61889648438  
Episode 7938: Time: 0.18882322311401367, Total Reward: 184.6158923178835, Q Loss: 4231657.140625, Actor Loss: -93509.32348632812  
Episode 7939: Time: 0.10686016082763672, Total Reward: 100.80498563434885, Q Loss: 1562795.62890625, Actor Loss: -54680.7646484375  
Episode 7940: Time: 0.22137713432312012, Total Reward: 220.71586151308318, Q Loss: 5311671.78125, Actor Loss: -112703.57641601562  
Episode 7941: Time: 0.3715236186981201, Total Reward: 377.3964218780535, Q Loss: 8419672.7109375, Actor Loss: -188901.86474609375  
Episode 7942: Time: 0.1424398422241211, Total Reward: 137.71216971275555, Q Loss: 2503358.515625, Actor Loss: -71917.62426757812  
Episode 7943: Time: 0.06273365020751953, Total Reward: 53.36409015879566, Q Loss: 1738292.75, Actor Loss: -32410.78857421875  
Episode 7944: Time: 0.15014386177062988, Total Reward: 146.973507181227, Q Loss: 3066984.83203125, Actor Loss: -75559.40234375  
Episode 7945: Time: 0.41492533683776855, Total Reward: 426.900139900978, Q Loss: 9020801.703125, Actor Loss: -208930.8173828125  
Episode 7946: Time: 0.2214341163635254, Total Reward: 222.07162735512722, Q Loss: 3858455.62890625, Actor Loss: -112125.94970703125  
Episode 7947: Time: 0.5026867389678955, Total Reward: 520.2752480610658, Q Loss: 9049299.2265625, Actor Loss: -259784.830078125  
Episode 7948: Time: 0.20320653915405273, Total Reward: 202.50602323782988, Q Loss: 4272480.1015625, Actor Loss: -104786.97265625  
Episode 7949: Time: 0.11481904983520508, Total Reward: 110.15084889560715, Q Loss: 2314434.859375, Actor Loss: -60212.42138671875  
Episode 7950: Time: 0.21224641799926758, Total Reward: 211.3684508412053, Q Loss: 6232806.84375, Actor Loss: -109992.22387695312  
Episode 7951: Time: 0.3271052837371826, Total Reward: 332.49859554194745, Q Loss: 6180726.91015625, Actor Loss: -168841.87890625  
Episode 7952: Time: 0.12364554405212402, Total Reward: 117.92722242652547, Q Loss: 1785010.48046875, Actor Loss: -62342.505615234375  
Episode 7953: Time: 0.24845552444458008, Total Reward: 249.6606507202112, Q Loss: 6593896.41796875, Actor Loss: -127647.24951171875  
Episode 7954: Time: 0.08879327774047852, Total Reward: 82.07908071409065, Q Loss: 2480068.1875, Actor Loss: -46436.966796875  
Episode 7955: Time: 0.1681504249572754, Total Reward: 164.40233923403898, Q Loss: 4035984.41796875, Actor Loss: -87375.19580078125  
Episode 7956: Time: 0.5201468467712402, Total Reward: 537.705956904837, Q Loss: 11751350.234375, Actor Loss: -275534.81201171875

Episode 7957: Time: 0.23829126358032227, Total Reward: 240.16848061881382, Q Loss: 5186014.81640625, Actor Loss: -123213.48559570312  
Episode 7958: Time: 0.3357694149017334, Total Reward: 342.94431633473425, Q Loss: 7392284.0234375, Actor Loss: -172014.85717773438  
Episode 7959: Time: 0.24773383140563965, Total Reward: 249.07092612132274, Q Loss: 4686967.79296875, Actor Loss: -127580.63452148438  
Episode 7960: Time: 0.34387922286987305, Total Reward: 351.3574735121959, Q Loss: 7542496.48046875, Actor Loss: -175920.56005859375  
Episode 7961: Time: 0.1148080825805664, Total Reward: 110.32738575106116, Q Loss: 2576151.0625, Actor Loss: -57370.38720703125  
Episode 7962: Time: 0.11502218246459961, Total Reward: 108.89576650306968, Q Loss: 3253699.0234375, Actor Loss: -58365.738525390625  
Episode 7963: Time: 0.44185495376586914, Total Reward: 454.9248044500501, Q Loss: 10515361.69140625, Actor Loss: -226286.1591796875  
Episode 7964: Time: 0.29111409187316895, Total Reward: 296.2261233996249, Q Loss: 6237599.45703125, Actor Loss: -150169.318359375  
Episode 7965: Time: 0.21225619316101074, Total Reward: 211.9992964221034, Q Loss: 3574718.6953125, Actor Loss: -107689.130859375  
Episode 7966: Time: 0.5474038124084473, Total Reward: 566.6347817112332, Q Loss: 12195055.12109375, Actor Loss: -281677.83984375  
Episode 7967: Time: 0.1854572296142578, Total Reward: 182.1663710135291, Q Loss: 4881718.265625, Actor Loss: -95782.04638671875  
Episode 7968: Time: 0.1594247817993164, Total Reward: 155.3440578697556, Q Loss: 3609558.9453125, Actor Loss: -81816.89428710938  
Episode 7969: Time: 0.39714813232421875, Total Reward: 405.8360183763152, Q Loss: 8249117.2734375, Actor Loss: -205454.78051757812  
Episode 7970: Time: 0.08860325813293457, Total Reward: 82.09123372835383, Q Loss: 1839415.984375, Actor Loss: -46745.9765625  
Episode 7971: Time: 0.17703461647033691, Total Reward: 174.59244625971345, Q Loss: 4289289.5078125, Actor Loss: -90646.7744140625  
Episode 7972: Time: 0.14999961853027344, Total Reward: 146.40191534326843, Q Loss: 3575809.3828125, Actor Loss: -75988.6279296875  
Episode 7973: Time: 0.3358309268951416, Total Reward: 342.5721147219429, Q Loss: 7004311.90234375, Actor Loss: -167438.44995117188  
Episode 7974: Time: 0.26439571380615234, Total Reward: 268.0371187130207, Q Loss: 6077573.46484375, Actor Loss: -138717.92065429688  
Episode 7975: Time: 0.264819860458374, Total Reward: 268.0903170263701, Q Loss: 5957652.62890625, Actor Loss: -138020.20336914062  
Episode 7976: Time: 0.14127039909362793, Total Reward: 138.2873439693805, Q Loss: 2902809.09765625, Actor Loss: -76280.80029296875  
Episode 7977: Time: 0.16849470138549805, Total Reward: 166.4084155224959, Q Loss: 3363272.0859375, Actor Loss: -84346.82177734375  
Episode 7978: Time: 0.3263058662414551, Total Reward: 332.3182806521399, Q Loss: 6565467.65234375, Actor Loss: -169018.66064453125  
Episode 7979: Time: 0.23793601989746094, Total Reward: 238.21227054532451, Q Loss: 5498927.109375, Actor Loss: -122240.96069335938  
Episode 7980: Time: 0.4666876792907715, Total Reward: 479.660271352135, Q Loss: 10038110.6796875, Actor Loss: -241848.16918945312  
Episode 7981: Time: 0.20284056663513184, Total Reward: 202.5262736796518, Q Loss: 4197283.6328125, Actor Loss: -102221.40380859375  
Episode 7982: Time: 0.3896212577819824, Total Reward: 394.8099472540113, Q Loss: 7945590.66015625, Actor Loss: -201251.97387695312  
Episode 7983: Time: 0.14118289947509766, Total Reward: 137.7244426186905, Q Loss: 3602930.796875, Actor Loss: -74787.16186523438  
Episode 7984: Time: 0.2210378646850586, Total Reward: 220.25805881003473, Q Loss: 4176238.421875, Actor Loss: -116100.85400390625



Episode 7985: Time: 0.5022597312927246, Total Reward: 519.7463694084115, Q Loss: 11503087.625, Actor Loss: -261469.330078125  
Episode 7986: Time: 0.4226865768432617, Total Reward: 434.5343694893106, Q Loss: 9141769.70703125, Actor Loss: -218829.40698242188  
Episode 7987: Time: 0.16765975952148438, Total Reward: 165.50992513919755, Q Loss: 4462527.62890625, Actor Loss: -87113.37841796875  
Episode 7988: Time: 0.17666983604431152, Total Reward: 175.16699295530717, Q Loss: 4316185.265625, Actor Loss: -90560.9111328125  
Episode 7989: Time: 0.14092206954956055, Total Reward: 137.35397990842296, Q Loss: 2229643.140625, Actor Loss: -73353.01147460938  
Episode 7990: Time: 0.15912365913391113, Total Reward: 156.83823791277652, Q Loss: 2398238.21484375, Actor Loss: -81563.7666015625  
Episode 7991: Time: 0.13214492797851562, Total Reward: 129.30755779792779, Q Loss: 2259838.63671875, Actor Loss: -67848.34765625  
Episode 7992: Time: 0.19369721412658691, Total Reward: 193.52028224972838, Q Loss: 4378101.3984375, Actor Loss: -99753.37133789062  
Episode 7993: Time: 0.22940659523010254, Total Reward: 230.2768903917648, Q Loss: 5363078.3671875, Actor Loss: -121082.18627929688  
Episode 7994: Time: 0.24707913398742676, Total Reward: 247.38075293483718, Q Loss: 5574465.6796875, Actor Loss: -125684.07470703125  
Episode 7995: Time: 0.3080124855041504, Total Reward: 314.82217832593324, Q Loss: 7387372.21875, Actor Loss: -163447.36547851562  
Episode 7996: Time: 0.16739773750305176, Total Reward: 165.5021902990604, Q Loss: 3959218.7109375, Actor Loss: -85159.7724609375  
Episode 7997: Time: 0.3609476089477539, Total Reward: 370.33333786885913, Q Loss: 8620511.2421875, Actor Loss: -185594.55346679688  
Episode 7998: Time: 0.1498889923095703, Total Reward: 147.12682773501945, Q Loss: 2836362.51953125, Actor Loss: -80893.52270507812  
Episode 7999: Time: 0.13293671607971191, Total Reward: 128.4443974431599, Q Loss: 3872047.6484375, Actor Loss: -68584.51513671875  
Validation Mean: 9353.163878356023, Validation Std: 0.2992948991222425  
saving model  
Episode 8000: Time: 0.30167150497436523, Total Reward: 304.85650496509857, Q Loss: 5960261.03125, Actor Loss: -156755.484375  
Episode 8001: Time: 0.19404840469360352, Total Reward: 194.29896138693206, Q Loss: 4561063.8203125, Actor Loss: -100413.37231445312  
Episode 8002: Time: 0.32757091522216797, Total Reward: 331.3537549697401, Q Loss: 6114991.953125, Actor Loss: -173174.09545898438  
Episode 8003: Time: 0.11487698554992676, Total Reward: 109.74744699670384, Q Loss: 2507742.30078125, Actor Loss: -57687.957275390625  
Episode 8004: Time: 0.4235727787017822, Total Reward: 436.5062820787805, Q Loss: 8850355.37109375, Actor Loss: -216904.255859375  
Episode 8005: Time: 0.38718676567077637, Total Reward: 398.0236499311668, Q Loss: 9356489.15625, Actor Loss: -203797.66137695312  
Episode 8006: Time: 0.2818727493286133, Total Reward: 285.7209040972747, Q Loss: 5756577.1875, Actor Loss: -146430.99194335938  
Episode 8007: Time: 0.23789024353027344, Total Reward: 239.75070562492783, Q Loss: 4656848.08984375, Actor Loss: -123754.5693359375  
Episode 8008: Time: 0.14058160781860352, Total Reward: 137.59580721215838, Q Loss: 3350433.375, Actor Loss: -72190.14379882812  
Episode 8009: Time: 0.49228525161743164, Total Reward: 510.12632524405825, Q Loss: 12442254.34765625, Actor Loss: -260369.58129882812  
Episode 8010: Time: 0.6353950500488281, Total Reward: 655.8640760567675, Q Loss: 14983809.41015625, Actor Loss: -331876.4362792969  
Episode 8011: Time: 0.17651820182800293, Total Reward: 174.22167194470737, Q Loss: 4241031.28125, Actor Loss: -92006.93969726562

Episode 8012: Time: 0.3698086738586426, Total Reward: 380.56309670040315, Q Loss: 8113338.26953125, Actor Loss: -190449.88159179688  
Episode 8013: Time: 0.0969383716583252, Total Reward: 91.05662876178835, Q Loss: 1653535.4921875, Actor Loss: -50589.83056640625  
Episode 8014: Time: 0.2203507423400879, Total Reward: 220.80572791850454, Q Loss: 4433360.40625, Actor Loss: -116553.951171875  
Episode 8015: Time: 0.3344705104827881, Total Reward: 341.9104375240898, Q Loss: 7759841.26171875, Actor Loss: -174718.43603515625  
Episode 8016: Time: 0.20286941528320312, Total Reward: 200.60816879941916, Q Loss: 4915915.9375, Actor Loss: -107130.28271484375  
Episode 8017: Time: 0.23789381980895996, Total Reward: 239.0585097406312, Q Loss: 5914064.5546875, Actor Loss: -122685.92065429688  
Episode 8018: Time: 0.20286083221435547, Total Reward: 202.0448759927441, Q Loss: 4971916.77734375, Actor Loss: -107016.08032226562  
Episode 8019: Time: 0.18516850471496582, Total Reward: 184.45555156342405, Q Loss: 4246112.40234375, Actor Loss: -96806.74877929688  
Episode 8020: Time: 0.8460321426391602, Total Reward: 881.2876808107997, Q Loss: 19010073.76953125, Actor Loss: -444044.4255371094  
Episode 8021: Time: 0.2028336524963379, Total Reward: 202.4605068098523, Q Loss: 4165906.2578125, Actor Loss: -104159.0283203125  
Episode 8022: Time: 0.25553250312805176, Total Reward: 259.3773218355857, Q Loss: 5067277.3359375, Actor Loss: -131599.62719726562  
Episode 8023: Time: 0.2822601795196533, Total Reward: 287.6210471846581, Q Loss: 7255282.421875, Actor Loss: -148557.22778320312  
Episode 8024: Time: 0.3518366813659668, Total Reward: 361.1361819356795, Q Loss: 9178152.85546875, Actor Loss: -180759.22314453125  
Episode 8025: Time: 0.2644529342651367, Total Reward: 264.66992755880943, Q Loss: 5319230.6484375, Actor Loss: -136529.46313476562  
Episode 8026: Time: 0.22911286354064941, Total Reward: 229.23987328575427, Q Loss: 5337956.28125, Actor Loss: -121818.8330078125  
Episode 8027: Time: 0.5042762756347656, Total Reward: 519.2121867553885, Q Loss: 10011752.431640625, Actor Loss: -263534.9580078125  
Episode 8028: Time: 0.09705924987792969, Total Reward: 91.36627682831414, Q Loss: 2175115.84765625, Actor Loss: -51544.234375  
Episode 8029: Time: 0.28246045112609863, Total Reward: 285.3222428111224, Q Loss: 6335935.96875, Actor Loss: -149688.109375  
Episode 8030: Time: 0.35216856002807617, Total Reward: 358.81574503799817, Q Loss: 8582272.265625, Actor Loss: -185957.89013671875  
Episode 8031: Time: 0.11440849304199219, Total Reward: 109.56801553440181, Q Loss: 1770325.29296875, Actor Loss: -61940.7802734375  
Episode 8032: Time: 0.4042508602142334, Total Reward: 416.8303811898045, Q Loss: 9949830.046875, Actor Loss: -215124.89379882812  
Episode 8033: Time: 0.1848921775817871, Total Reward: 184.33314136390393, Q Loss: 4184516.78515625, Actor Loss: -96371.47729492188  
Episode 8034: Time: 0.5108010768890381, Total Reward: 528.9875145992266, Q Loss: 11058378.30859375, Actor Loss: -267876.60400390625  
Episode 8035: Time: 0.3538081645965576, Total Reward: 359.59837657152605, Q Loss: 8749404.6328125, Actor Loss: -182119.59985351562  
Episode 8036: Time: 0.25670814514160156, Total Reward: 257.1349234627502, Q Loss: 5869031.1640625, Actor Loss: -133577.32568359375  
Episode 8037: Time: 0.3609926700592041, Total Reward: 371.3871861927285, Q Loss: 7602419.19921875, Actor Loss: -192979.83056640625  
Episode 8038: Time: 0.08846187591552734, Total Reward: 81.896551381501, Q Loss: 2282111.71484375, Actor Loss: -46593.88623046875  
Episode 8039: Time: 0.12351465225219727, Total Reward: 119.33686861526847, Q Loss: 2720315.296875, Actor Loss: -66767.8125

Episode 8040: Time: 0.35974907875061035, Total Reward: 369.26805913277946, Q Loss: 7336922.07421875, Actor Loss: -192764.7431640625  
Episode 8041: Time: 0.22027277946472168, Total Reward: 219.7756789941004, Q Loss: 5855486.69140625, Actor Loss: -120175.99560546875  
Episode 8042: Time: 0.1848125457763672, Total Reward: 183.75614677144517, Q Loss: 4256960.3203125, Actor Loss: -98914.30102539062  
Episode 8043: Time: 0.22907233238220215, Total Reward: 231.29586514166638, Q Loss: 5571891.46484375, Actor Loss: -120312.17163085938  
Episode 8044: Time: 0.19335269927978516, Total Reward: 194.15273031811796, Q Loss: 3236254.19140625, Actor Loss: -101582.83129882812  
Episode 8045: Time: 0.49286937713623047, Total Reward: 510.0115808675828, Q Loss: 11001657.99609375, Actor Loss: -263184.14111328125  
Episode 8046: Time: 0.43988895416259766, Total Reward: 455.06987052233404, Q Loss: 9282358.7890625, Actor Loss: -236261.9853515625  
Episode 8047: Time: 0.4307377338409424, Total Reward: 445.4627511133031, Q Loss: 9485219.1640625, Actor Loss: -229931.05517578125  
Episode 8048: Time: 0.5098381042480469, Total Reward: 530.1081750209034, Q Loss: 11829236.703125, Actor Loss: -272221.3386230469  
Episode 8049: Time: 0.24310684204101562, Total Reward: 239.98235380145925, Q Loss: 4859936.03515625, Actor Loss: -128475.7490234375  
Episode 8050: Time: 0.21255922317504883, Total Reward: 212.18383465153497, Q Loss: 4708758.78125, Actor Loss: -113149.51513671875  
Episode 8051: Time: 0.8371405601501465, Total Reward: 870.9168467008768, Q Loss: 16263278.22265625, Actor Loss: -443235.5656738281  
Episode 8052: Time: 0.3612802028656006, Total Reward: 370.2175620483392, Q Loss: 8120788.44921875, Actor Loss: -189368.32958984375  
Episode 8053: Time: 0.48412632942199707, Total Reward: 498.15674081748506, Q Loss: 10011629.3828125, Actor Loss: -259796.21069335938  
Episode 8054: Time: 0.41326308250427246, Total Reward: 422.9160739153557, Q Loss: 11668033.80859375, Actor Loss: -223135.8662109375  
Episode 8055: Time: 0.2733321189880371, Total Reward: 277.1507901236292, Q Loss: 5987229.7734375, Actor Loss: -145221.44580078125  
Episode 8056: Time: 0.1581885814666748, Total Reward: 156.52938969069655, Q Loss: 3951775.9296875, Actor Loss: -86209.61572265625  
Episode 8057: Time: 0.281649112701416, Total Reward: 286.40351729517334, Q Loss: 7290329.2578125, Actor Loss: -151582.46508789062  
Episode 8058: Time: 0.3102450370788574, Total Reward: 314.0708439160172, Q Loss: 7824093.7265625, Actor Loss: -164514.25903320312  
Episode 8059: Time: 0.3529801368713379, Total Reward: 361.4175659825533, Q Loss: 8566316.921875, Actor Loss: -184994.5029296875  
Episode 8060: Time: 0.37801551818847656, Total Reward: 388.3807231038682, Q Loss: 10306213.21875, Actor Loss: -207887.29418945312  
Episode 8061: Time: 0.4305148124694824, Total Reward: 445.2157406496132, Q Loss: 10263308.4765625, Actor Loss: -232643.76928710938  
Episode 8062: Time: 0.649986982345581, Total Reward: 678.7555867728713, Q Loss: 15618274.421875, Actor Loss: -348757.8640136719  
Episode 8063: Time: 0.18467974662780762, Total Reward: 182.7799371760719, Q Loss: 4684626.3671875, Actor Loss: -101730.93017578125  
Episode 8064: Time: 0.08858537673950195, Total Reward: 82.30022361567735, Q Loss: 1497964.1796875, Actor Loss: -49144.1728515625  
Episode 8065: Time: 0.9509997367858887, Total Reward: 992.3160194814924, Q Loss: 22894974.390625, Actor Loss: -516220.822265625  
Episode 8066: Time: 0.09721922874450684, Total Reward: 91.15970380826062, Q Loss: 2743058.9453125, Actor Loss: -52289.0888671875  
Episode 8067: Time: 0.22043776512145996, Total Reward: 221.13591751532994, Q Loss: 4953879.0546875, Actor Loss: -114905.61083984375

Episode 8068: Time: 0.19339632987976074, Total Reward: 194.20621210578244, Q Loss: 4575851.83984375, Actor Loss: -104561.54541015625  
Episode 8069: Time: 0.16733479499816895, Total Reward: 165.3579690515128, Q Loss: 3276608.19921875, Actor Loss: -91607.43310546875  
Episode 8070: Time: 0.3171968460083008, Total Reward: 323.2840247021263, Q Loss: 9001413.5859375, Actor Loss: -173287.283203125  
Episode 8071: Time: 0.31707167625427246, Total Reward: 324.195256485757, Q Loss: 7585863.09375, Actor Loss: -168940.50170898438  
Episode 8072: Time: 0.15894675254821777, Total Reward: 156.3673911653673, Q Loss: 3914750.5078125, Actor Loss: -84572.619140625  
Episode 8073: Time: 0.12391376495361328, Total Reward: 119.26412923949977, Q Loss: 2212701.0859375, Actor Loss: -65970.94140625  
Episode 8074: Time: 0.07073712348937988, Total Reward: 63.02751796387496, Q Loss: 908801.5, Actor Loss: -38484.95556640625  
Episode 8075: Time: 0.31719064712524414, Total Reward: 324.3723808365256, Q Loss: 7905788.28125, Actor Loss: -171803.13745117188  
Episode 8076: Time: 0.07952666282653809, Total Reward: 72.02049466883767, Q Loss: 1882191.6171875, Actor Loss: -41155.321533203125  
Episode 8077: Time: 0.10615205764770508, Total Reward: 100.15785674955481, Q Loss: 2973367.34375, Actor Loss: -56588.271484375  
Episode 8078: Time: 0.17705512046813965, Total Reward: 174.36438365140447, Q Loss: 4412770.7265625, Actor Loss: -94833.52514648438  
Episode 8079: Time: 0.6861422061920166, Total Reward: 712.484761443028, Q Loss: 18518646.1640625, Actor Loss: -376296.8811035156  
Episode 8080: Time: 0.2026808261871338, Total Reward: 202.1902563416718, Q Loss: 4782509.48828125, Actor Loss: -109122.27880859375  
Episode 8081: Time: 0.2907121181488037, Total Reward: 295.83696200161756, Q Loss: 6190884.7421875, Actor Loss: -157973.83520507812  
Episode 8082: Time: 0.1846764087677002, Total Reward: 185.1750280905285, Q Loss: 4526199.3671875, Actor Loss: -99820.23046875  
Episode 8083: Time: 0.37831711769104004, Total Reward: 388.09949066008267, Q Loss: 9729109.76953125, Actor Loss: -208675.43603515625  
Episode 8084: Time: 0.16768908500671387, Total Reward: 166.41996648381908, Q Loss: 4180416.5, Actor Loss: -91683.85815429688  
Episode 8085: Time: 0.21287178993225098, Total Reward: 210.6996932683325, Q Loss: 4567354.2421875, Actor Loss: -116949.11499023438  
Episode 8086: Time: 0.4219217300415039, Total Reward: 435.9869636502954, Q Loss: 9635513.90625, Actor Loss: -228330.13110351562  
Episode 8087: Time: 0.31685709953308105, Total Reward: 324.41280621572, Q Loss: 6780985.1015625, Actor Loss: -172421.20361328125  
Episode 8088: Time: 0.352616548538208, Total Reward: 360.8311399295316, Q Loss: 9191156.30859375, Actor Loss: -187917.53833007812  
Episode 8089: Time: 0.17599964141845703, Total Reward: 174.77398932775174, Q Loss: 4290679.4375, Actor Loss: -93787.91381835938  
Episode 8090: Time: 0.12364745140075684, Total Reward: 119.71443685824757, Q Loss: 2367811.9296875, Actor Loss: -66485.41040039062  
Episode 8091: Time: 0.5356009006500244, Total Reward: 556.2766131853768, Q Loss: 14850146.6953125, Actor Loss: -292009.1262207031  
Episode 8092: Time: 0.290802001953125, Total Reward: 295.10630444627384, Q Loss: 7305871.45703125, Actor Loss: -159583.0048828125  
Episode 8093: Time: 0.2908194065093994, Total Reward: 296.4978361809236, Q Loss: 6991710.57421875, Actor Loss: -157956.58520507812  
Episode 8094: Time: 0.21982979774475098, Total Reward: 218.92332724248826, Q Loss: 5199151.7265625, Actor Loss: -121014.53515625  
Episode 8095: Time: 0.31696319580078125, Total Reward: 323.137068054481, Q Loss: 8131529.80078125, Actor Loss: -173461.759765625

Episode 8096: Time: 0.16664791107177734, Total Reward: 166.04493237219327, Q Loss: 4252904.234375, Actor Loss: -93161.05932617188  
Episode 8097: Time: 0.7459917068481445, Total Reward: 779.7794580897105, Q Loss: 18812856.87109375, Actor Loss: -400922.7580566406  
Episode 8098: Time: 0.7202675342559814, Total Reward: 751.3920411559315, Q Loss: 14855876.41015625, Actor Loss: -401813.97705078125  
Episode 8099: Time: 0.21293115615844727, Total Reward: 211.16172712824874, Q Loss: 5358344.10546875, Actor Loss: -118268.36474609375  
Validation Mean: 9353.768162617489, Validation Std: 0.4784014196554881  
saving model  
Episode 8100: Time: 0.2927100658416748, Total Reward: 295.34989190335205, Q Loss: 7552640.5859375, Actor Loss: -157498.0078125  
Episode 8101: Time: 0.43953585624694824, Total Reward: 454.47582385639913, Q Loss: 12956134.69921875, Actor Loss: -241230.61083984375  
Episode 8102: Time: 0.317716121673584, Total Reward: 324.2026271828668, Q Loss: 8495162.484375, Actor Loss: -174225.130859375  
Episode 8103: Time: 0.09699797630310059, Total Reward: 91.57548951088943, Q Loss: 1904001.73828125, Actor Loss: -53973.80322265625  
Episode 8104: Time: 0.26423048973083496, Total Reward: 267.75248942692957, Q Loss: 5803450.09375, Actor Loss: -143841.7666015625  
Episode 8105: Time: 0.7578041553497314, Total Reward: 789.8087537792417, Q Loss: 18030364.39453125, Actor Loss: -412278.97802734375  
Episode 8106: Time: 0.19387388229370117, Total Reward: 191.92689542800142, Q Loss: 4749787.5234375, Actor Loss: -104364.26342773438  
Episode 8107: Time: 0.4668295383453369, Total Reward: 482.124391282859, Q Loss: 12082607.08203125, Actor Loss: -252172.50439453125  
Episode 8108: Time: 0.1587662696838379, Total Reward: 155.6183859379873, Q Loss: 4899548.4453125, Actor Loss: -90320.20654296875  
Episode 8109: Time: 0.12370967864990234, Total Reward: 119.52057424444295, Q Loss: 3141205.4296875, Actor Loss: -66996.24560546875  
Episode 8110: Time: 0.2995467185974121, Total Reward: 305.591519484258, Q Loss: 7265933.0703125, Actor Loss: -164280.11889648438  
Episode 8111: Time: 0.19347834587097168, Total Reward: 193.3114177628758, Q Loss: 4961302.07421875, Actor Loss: -107151.03857421875  
Episode 8112: Time: 0.32594943046569824, Total Reward: 333.1386272915682, Q Loss: 9337161.0703125, Actor Loss: -180957.58935546875  
Episode 8113: Time: 0.2203829288482666, Total Reward: 220.94494817979398, Q Loss: 4943036.71484375, Actor Loss: -122492.25341796875  
Episode 8114: Time: 0.07953929901123047, Total Reward: 72.68077781885358, Q Loss: 2357438.9375, Actor Loss: -42206.283935546875  
Episode 8115: Time: 0.20264339447021484, Total Reward: 203.63034185957716, Q Loss: 7073676.609375, Actor Loss: -109387.25952148438  
Episode 8116: Time: 0.2479546070098877, Total Reward: 250.10245176906258, Q Loss: 5537067.359375, Actor Loss: -137093.80126953125  
Episode 8117: Time: 0.35210299491882324, Total Reward: 361.1755373831918, Q Loss: 8494953.12109375, Actor Loss: -193818.17797851562  
Episode 8118: Time: 0.2555239200592041, Total Reward: 255.83710346035787, Q Loss: 5491724.234375, Actor Loss: -138077.26708984375  
Episode 8119: Time: 0.5806357860565186, Total Reward: 602.631977320807, Q Loss: 13549363.8515625, Actor Loss: -321216.0427246094  
Episode 8120: Time: 0.22037625312805176, Total Reward: 219.97663209110087, Q Loss: 6153267.73046875, Actor Loss: -119885.0166015625  
Episode 8121: Time: 0.3518331050872803, Total Reward: 361.2666552314595, Q Loss: 9175378.3359375, Actor Loss: -193003.72827148438  
Episode 8122: Time: 0.4580345153808594, Total Reward: 469.93690471019795, Q Loss: 10313829.611328125, Actor Loss: -248477.14428710938

Episode 8123: Time: 0.19429707527160645, Total Reward: 193.86331565695482, Q Loss: 4420501.81640625, Actor Loss: -108408.0400390625  
Episode 8124: Time: 0.19417881965637207, Total Reward: 194.2651360765751, Q Loss: 4752208.63671875, Actor Loss: -108315.40966796875  
Episode 8125: Time: 0.35447120666503906, Total Reward: 360.8499973555156, Q Loss: 8481472.53125, Actor Loss: -195066.96240234375  
Episode 8126: Time: 0.4245028495788574, Total Reward: 435.6922999239306, Q Loss: 12588275.19921875, Actor Loss: -235027.77001953125  
Episode 8127: Time: 0.4581117630004883, Total Reward: 470.3409163278749, Q Loss: 13476287.53125, Actor Loss: -255042.36962890625  
Episode 8128: Time: 0.5643186569213867, Total Reward: 585.3886399111715, Q Loss: 15059191.37109375, Actor Loss: -312040.4938964844  
Episode 8129: Time: 0.8545570373535156, Total Reward: 888.5170840391154, Q Loss: 20973622.3828125, Actor Loss: -475130.0720214844  
Episode 8130: Time: 0.08849239349365234, Total Reward: 81.74832892557747, Q Loss: 1823038.6328125, Actor Loss: -49836.9443359375  
Episode 8131: Time: 0.07958459854125977, Total Reward: 72.36095590738668, Q Loss: 1827605.8984375, Actor Loss: -45357.8154296875  
Episode 8132: Time: 0.40581369400024414, Total Reward: 416.22305489399133, Q Loss: 10066039.25, Actor Loss: -228625.34130859375  
Episode 8133: Time: 0.24660444259643555, Total Reward: 249.7015301562812, Q Loss: 5981954.21484375, Actor Loss: -135491.10546875  
Episode 8134: Time: 0.30901050567626953, Total Reward: 313.4186666404778, Q Loss: 9257909.1875, Actor Loss: -170738.93798828125  
Episode 8135: Time: 0.2911844253540039, Total Reward: 295.6085483858343, Q Loss: 6750086.57421875, Actor Loss: -159718.16430664062  
Episode 8136: Time: 0.26439642906188965, Total Reward: 267.7397635313574, Q Loss: 6118179.4921875, Actor Loss: -141302.32666015625  
Episode 8137: Time: 0.21362805366516113, Total Reward: 212.50814095125438, Q Loss: 5101969.0078125, Actor Loss: -120583.18994140625  
Episode 8138: Time: 0.1410384178161621, Total Reward: 137.92794339017485, Q Loss: 3789455.1171875, Actor Loss: -79478.02856445312  
Episode 8139: Time: 0.4408736228942871, Total Reward: 453.1383841970299, Q Loss: 11514753.74609375, Actor Loss: -244748.03002929688  
Episode 8140: Time: 0.10600829124450684, Total Reward: 100.34365069396, Q Loss: 2580740.0078125, Actor Loss: -59331.8427734375  
Episode 8141: Time: 0.35370659828186035, Total Reward: 361.0341387653877, Q Loss: 9763258.5, Actor Loss: -195451.07250976562  
Episode 8142: Time: 0.5288474559783936, Total Reward: 545.2870584645034, Q Loss: 12480157.21875, Actor Loss: -297168.6669921875  
Episode 8143: Time: 0.38898420333862305, Total Reward: 399.2108177745385, Q Loss: 9938026.5859375, Actor Loss: -215190.58056640625  
Episode 8144: Time: 0.08857989311218262, Total Reward: 81.74639062698219, Q Loss: 1880510.5703125, Actor Loss: -50098.03076171875  
Episode 8145: Time: 0.32000064849853516, Total Reward: 324.6123721024609, Q Loss: 6768779.40234375, Actor Loss: -180502.25244140625  
Episode 8146: Time: 0.39722204208374023, Total Reward: 407.5145066959406, Q Loss: 9888623.33203125, Actor Loss: -223251.93188476562  
Episode 8147: Time: 0.23920488357543945, Total Reward: 238.27459839743725, Q Loss: 6263475.40625, Actor Loss: -133412.05615234375  
Episode 8148: Time: 0.2913351058959961, Total Reward: 295.07798186315443, Q Loss: 8839608.484375, Actor Loss: -161491.6630859375  
Episode 8149: Time: 0.09700942039489746, Total Reward: 90.25631776566834, Q Loss: 2327091.984375, Actor Loss: -54586.69287109375  
Episode 8150: Time: 0.24745965003967285, Total Reward: 249.68789313327045, Q Loss: 5578573.19140625, Actor Loss: -141241.44091796875

Episode 8151: Time: 0.2556133270263672, Total Reward: 257.28655825516955, Q Loss: 6215543.76171875, Actor Loss: -144118.94677734375  
Episode 8152: Time: 0.20314764976501465, Total Reward: 203.55876994982754, Q Loss: 4496488.375, Actor Loss: -115609.525390625  
Episode 8153: Time: 0.07961606979370117, Total Reward: 72.58155614021962, Q Loss: 2150480.078125, Actor Loss: -43382.064453125  
Episode 8154: Time: 0.47493433952331543, Total Reward: 491.83402452957097, Q Loss: 10793512.16015625, Actor Loss: -272163.3962402344  
Episode 8155: Time: 0.14095473289489746, Total Reward: 137.9209660737566, Q Loss: 3280257.21484375, Actor Loss: -81590.1220703125  
Episode 8156: Time: 0.29979968070983887, Total Reward: 306.0597117337835, Q Loss: 8000327.09375, Actor Loss: -169733.6513671875  
Episode 8157: Time: 0.5121176242828369, Total Reward: 525.5520149231403, Q Loss: 11559936.2109375, Actor Loss: -286432.79150390625  
Episode 8158: Time: 0.3526432514190674, Total Reward: 360.3138447010813, Q Loss: 8713304.234375, Actor Loss: -196214.80639648438  
Episode 8159: Time: 0.28219008445739746, Total Reward: 286.64100180905734, Q Loss: 8555653.23046875, Actor Loss: -160859.04638671875  
Episode 8160: Time: 0.264068603515625, Total Reward: 267.4260732447478, Q Loss: 6702893.90625, Actor Loss: -152123.37939453125  
Episode 8161: Time: 0.3257882595062256, Total Reward: 332.9979854081693, Q Loss: 7279679.8125, Actor Loss: -186819.5478515625  
Episode 8162: Time: 0.09690093994140625, Total Reward: 91.06194215411304, Q Loss: 3033680.6171875, Actor Loss: -56983.8466796875  
Episode 8163: Time: 0.5279340744018555, Total Reward: 547.1780718122137, Q Loss: 13167971.0, Actor Loss: -297734.03955078125  
Episode 8164: Time: 0.1321110725402832, Total Reward: 128.8448295688546, Q Loss: 3138965.4140625, Actor Loss: -74495.36083984375  
Episode 8165: Time: 0.21247339248657227, Total Reward: 212.05813805429145, Q Loss: 3957255.703125, Actor Loss: -115125.19873046875  
Episode 8166: Time: 0.12369823455810547, Total Reward: 118.54508120327485, Q Loss: 3530322.07421875, Actor Loss: -71432.7236328125  
Episode 8167: Time: 0.14152884483337402, Total Reward: 137.77695728675496, Q Loss: 3255927.203125, Actor Loss: -81331.63037109375  
Episode 8168: Time: 0.2203679084777832, Total Reward: 221.37507431734497, Q Loss: 5986733.375, Actor Loss: -125250.41259765625  
Episode 8169: Time: 0.35208821296691895, Total Reward: 361.30074354573196, Q Loss: 9020501.6015625, Actor Loss: -194326.0498046875  
Episode 8170: Time: 0.5362808704376221, Total Reward: 556.548224884648, Q Loss: 11970867.58984375, Actor Loss: -305132.0812988281  
Episode 8171: Time: 0.1586933135986328, Total Reward: 156.15488724010663, Q Loss: 3715838.8515625, Actor Loss: -87008.30126953125  
Episode 8172: Time: 0.43088555335998535, Total Reward: 444.97714230704634, Q Loss: 11015588.98046875, Actor Loss: -245197.03979492188  
Episode 8173: Time: 0.22040033340454102, Total Reward: 220.05765847701798, Q Loss: 5149837.8515625, Actor Loss: -123719.0654296875  
Episode 8174: Time: 0.09676384925842285, Total Reward: 91.428435665725, Q Loss: 2531190.453125, Actor Loss: -53416.701171875  
Episode 8175: Time: 0.24699807167053223, Total Reward: 248.71649977056381, Q Loss: 6364879.8515625, Actor Loss: -137631.12060546875  
Episode 8176: Time: 0.27309632301330566, Total Reward: 275.5687086017307, Q Loss: 6251436.69921875, Actor Loss: -152201.00659179688  
Episode 8177: Time: 0.24667906761169434, Total Reward: 248.3315412511313, Q Loss: 5762811.59375, Actor Loss: -140827.96435546875  
Episode 8178: Time: 0.2726588249206543, Total Reward: 277.03026056732324, Q Loss: 7079513.5625, Actor Loss: -153063.53100585938

Episode 8179: Time: 0.2635965347290039, Total Reward: 266.4936777733673, Q Loss: 6493051.265625, Actor Loss: -150520.75146484375  
Episode 8180: Time: 0.24661707878112793, Total Reward: 249.3872509658105, Q Loss: 5864035.19921875, Actor Loss: -136270.86889648438  
Episode 8181: Time: 0.24570226669311523, Total Reward: 249.1194463344538, Q Loss: 6667815.375, Actor Loss: -141083.49462890625  
Episode 8182: Time: 0.16744542121887207, Total Reward: 165.43444728813802, Q Loss: 5143506.15625, Actor Loss: -94054.76806640625  
Episode 8183: Time: 0.18443822860717773, Total Reward: 184.23435462882043, Q Loss: 4290254.02734375, Actor Loss: -105643.89501953125  
Episode 8184: Time: 0.31651949882507324, Total Reward: 322.4426128838577, Q Loss: 7653829.67578125, Actor Loss: -181975.259765625  
Episode 8185: Time: 0.24759817123413086, Total Reward: 248.8613494571873, Q Loss: 7848728.5703125, Actor Loss: -139636.9462890625  
Episode 8186: Time: 0.3167438507080078, Total Reward: 323.3822651953281, Q Loss: 7546497.796875, Actor Loss: -183889.97900390625  
Episode 8187: Time: 0.09693074226379395, Total Reward: 90.91896193609927, Q Loss: 2221616.8125, Actor Loss: -56736.82177734375  
Episode 8188: Time: 0.4300220012664795, Total Reward: 443.48905620138476, Q Loss: 13460219.21875, Actor Loss: -249924.86669921875  
Episode 8189: Time: 0.4751918315887451, Total Reward: 489.06621252047415, Q Loss: 13786336.78125, Actor Loss: -271765.81787109375  
Episode 8190: Time: 0.18474268913269043, Total Reward: 184.73649113788625, Q Loss: 4121411.8359375, Actor Loss: -106955.53759765625  
Episode 8191: Time: 0.175886869430542, Total Reward: 174.50979883107368, Q Loss: 5846835.4453125, Actor Loss: -99743.73291015625  
Episode 8192: Time: 0.2731161117553711, Total Reward: 274.9686051453938, Q Loss: 7134098.546875, Actor Loss: -160187.85986328125  
Episode 8193: Time: 0.5634922981262207, Total Reward: 585.0377267136915, Q Loss: 16536452.3828125, Actor Loss: -325462.61865234375  
Episode 8194: Time: 0.07949662208557129, Total Reward: 72.59706054841708, Q Loss: 2144628.8046875, Actor Loss: -44940.13623046875  
Episode 8195: Time: 0.10561132431030273, Total Reward: 100.29367713716142, Q Loss: 2845189.921875, Actor Loss: -60812.26953125  
Episode 8196: Time: 0.1147773265838623, Total Reward: 109.90365634462431, Q Loss: 4080309.4375, Actor Loss: -68424.076171875  
Episode 8197: Time: 0.2645294666290283, Total Reward: 264.8655864596145, Q Loss: 7922882.8359375, Actor Loss: -156099.87109375  
Episode 8198: Time: 0.10598993301391602, Total Reward: 100.791328329936, Q Loss: 2437124.2578125, Actor Loss: -60058.10009765625  
Episode 8199: Time: 0.25575971603393555, Total Reward: 258.35777495508995, Q Loss: 7741390.578125, Actor Loss: -144058.84619140625  
Validation Mean: 9354.428119695569, Validation Std: 0.3037601769756128  
saving model  
Episode 8200: Time: 0.14270329475402832, Total Reward: 137.70349676470954, Q Loss: 3611974.9765625, Actor Loss: -80516.04174804688  
Episode 8201: Time: 0.17726421356201172, Total Reward: 172.96882556009217, Q Loss: 3796932.99609375, Actor Loss: -100835.96240234375  
Episode 8202: Time: 0.25603222846984863, Total Reward: 258.88366269828106, Q Loss: 6194335.390625, Actor Loss: -144932.6845703125  
Episode 8203: Time: 0.18496441841125488, Total Reward: 183.44131274507558, Q Loss: 4585526.02734375, Actor Loss: -106105.21728515625  
Episode 8204: Time: 0.45769810676574707, Total Reward: 473.42577040734005, Q Loss: 14149793.48828125, Actor Loss: -266294.4860839844  
Episode 8205: Time: 0.1409740447998047, Total Reward: 138.28514340075068, Q Loss: 3596554.7265625, Actor Loss: -83626.0205078125



Episode 8206: Time: 0.07141780853271484, Total Reward: 63.13096024414252, Q Loss: 2490049.9375, Actor Loss: -41458.07177734375  
Episode 8207: Time: 0.2643454074859619, Total Reward: 267.7255916420863, Q Loss: 6478905.65234375, Actor Loss: -149887.46875  
Episode 8208: Time: 0.21140623092651367, Total Reward: 212.25113275055912, Q Loss: 5415486.2265625, Actor Loss: -125556.681640625  
Episode 8209: Time: 0.4222719669342041, Total Reward: 435.7110396568464, Q Loss: 10434949.85546875, Actor Loss: -243437.2255859375  
Episode 8210: Time: 0.2906317710876465, Total Reward: 294.94286276586314, Q Loss: 5929827.3125, Actor Loss: -168422.12426757812  
Episode 8211: Time: 0.21160244941711426, Total Reward: 210.42503762634692, Q Loss: 5190759.765625, Actor Loss: -118159.25634765625  
Episode 8212: Time: 0.41361141204833984, Total Reward: 424.9879955191264, Q Loss: 11755421.5546875, Actor Loss: -236355.19482421875  
Episode 8213: Time: 0.28044772148132324, Total Reward: 258.9461729951812, Q Loss: 8586216.3125, Actor Loss: -141191.61767578125  
Episode 8214: Time: 0.13016104698181152, Total Reward: 100.5623560525372, Q Loss: 3055058.40625, Actor Loss: -62685.93505859375  
Episode 8215: Time: 0.38300204277038574, Total Reward: 384.97450938079595, Q Loss: 9710029.046875, Actor Loss: -213894.12280273438  
Episode 8216: Time: 0.29186248779296875, Total Reward: 294.89066277897217, Q Loss: 8454080.890625, Actor Loss: -167065.10009765625  
Episode 8217: Time: 0.1499783992767334, Total Reward: 147.48755098692274, Q Loss: 4836159.9296875, Actor Loss: -87780.32177734375  
Episode 8218: Time: 0.31760406494140625, Total Reward: 322.1793132601157, Q Loss: 10580103.7578125, Actor Loss: -179388.98291015625  
Episode 8219: Time: 0.21156549453735352, Total Reward: 210.71985318886172, Q Loss: 6010779.875, Actor Loss: -117537.96069335938  
Episode 8220: Time: 0.2645223140716553, Total Reward: 265.5447175808277, Q Loss: 6927681.1015625, Actor Loss: -151360.64697265625  
Episode 8221: Time: 0.299884557723999, Total Reward: 304.4566079251017, Q Loss: 8147217.41015625, Actor Loss: -172868.02978515625  
Episode 8222: Time: 0.21154546737670898, Total Reward: 211.79455064797773, Q Loss: 6164413.7734375, Actor Loss: -124811.47119140625  
Episode 8223: Time: 0.3793301582336426, Total Reward: 389.1390175189112, Q Loss: 10368820.205078125, Actor Loss: -217271.86499023438  
Episode 8224: Time: 0.1062464714050293, Total Reward: 100.82923449294357, Q Loss: 3581318.96875, Actor Loss: -59117.3564453125  
Episode 8225: Time: 0.5381529331207275, Total Reward: 557.2015391786431, Q Loss: 15839912.5625, Actor Loss: -306741.92919921875  
Episode 8226: Time: 0.3880953788757324, Total Reward: 361.1070460745228, Q Loss: 9400279.6015625, Actor Loss: -200378.6376953125  
Episode 8227: Time: 0.07447504997253418, Total Reward: 53.49554378454402, Q Loss: 1844058.125, Actor Loss: -35081.78759765625  
Episode 8228: Time: 0.44152355194091797, Total Reward: 454.58175400710735, Q Loss: 12702020.34765625, Actor Loss: -251975.24047851562  
Episode 8229: Time: 0.466825008392334, Total Reward: 480.5722327892298, Q Loss: 13106558.0390625, Actor Loss: -271824.8046875  
Episode 8230: Time: 0.13218450546264648, Total Reward: 128.56706853699148, Q Loss: 3453997.546875, Actor Loss: -79708.9658203125  
Episode 8231: Time: 0.23763799667358398, Total Reward: 239.3114074966058, Q Loss: 5325158.51171875, Actor Loss: -137342.18603515625  
Episode 8232: Time: 0.10632872581481934, Total Reward: 100.70260155894252, Q Loss: 3459604.4921875, Actor Loss: -61118.84423828125  
Episode 8233: Time: 0.49393391609191895, Total Reward: 508.565555088837, Q Loss: 13268070.3828125, Actor Loss: -279311.64404296875

Episode 8234: Time: 0.5815680027008057, Total Reward: 604.1804108536994, Q Loss: 16682282.515625, Actor Loss: -342202.03515625  
Episode 8235: Time: 0.23809313774108887, Total Reward: 239.06311881900209, Q Loss: 5810110.90625, Actor Loss: -133520.87548828125  
Episode 8236: Time: 0.18497371673583984, Total Reward: 184.61896565265124, Q Loss: 6210189.015625, Actor Loss: -103767.37841796875  
Episode 8237: Time: 0.29088354110717773, Total Reward: 296.1952498059662, Q Loss: 8174025.37109375, Actor Loss: -170573.25073242188  
Episode 8238: Time: 0.08810091018676758, Total Reward: 82.29436670572733, Q Loss: 1824523.703125, Actor Loss: -48420.7587890625  
Episode 8239: Time: 0.4401850700378418, Total Reward: 454.25872274238924, Q Loss: 12178827.42578125, Actor Loss: -257523.025390625  
Episode 8240: Time: 0.10550761222839355, Total Reward: 100.39544348239399, Q Loss: 3400797.2578125, Actor Loss: -61586.068359375  
Episode 8241: Time: 0.3696427345275879, Total Reward: 379.02096307121866, Q Loss: 9643125.4765625, Actor Loss: -213945.22900390625  
Episode 8242: Time: 0.17641139030456543, Total Reward: 174.66743431886218, Q Loss: 4854273.9609375, Actor Loss: -103164.1240234375  
Episode 8243: Time: 0.20272326469421387, Total Reward: 202.73874787481407, Q Loss: 5722719.3984375, Actor Loss: -123403.63671875  
Episode 8244: Time: 0.5365128517150879, Total Reward: 554.4413167866662, Q Loss: 13829067.55859375, Actor Loss: -308659.8984375  
Episode 8245: Time: 0.3351435661315918, Total Reward: 342.6184544179686, Q Loss: 10383551.1171875, Actor Loss: -197116.4326171875  
Episode 8246: Time: 0.16744089126586914, Total Reward: 165.4581711899745, Q Loss: 5765451.109375, Actor Loss: -95449.990234375  
Episode 8247: Time: 0.2118380069732666, Total Reward: 211.8772198008473, Q Loss: 5829498.09375, Actor Loss: -123786.60546875  
Episode 8248: Time: 0.18486237525939941, Total Reward: 182.95290379181515, Q Loss: 4536238.03515625, Actor Loss: -109725.2919921875  
Episode 8249: Time: 0.19428491592407227, Total Reward: 192.11386912555332, Q Loss: 6763617.9921875, Actor Loss: -112348.98681640625  
Episode 8250: Time: 0.3348870277404785, Total Reward: 342.8297321027246, Q Loss: 10001201.609375, Actor Loss: -192800.9267578125  
Episode 8251: Time: 0.14980077743530273, Total Reward: 146.07028561578989, Q Loss: 3790137.9140625, Actor Loss: -86206.2998046875  
Episode 8252: Time: 0.11487078666687012, Total Reward: 110.07560863516532, Q Loss: 3594498.296875, Actor Loss: -68388.36962890625  
Episode 8253: Time: 0.3609623908996582, Total Reward: 369.8999508649, Q Loss: 8737406.13671875, Actor Loss: -207366.82177734375  
Episode 8254: Time: 0.3971865177154541, Total Reward: 407.14447240719693, Q Loss: 11509337.2109375, Actor Loss: -233159.34912109375  
Episode 8255: Time: 0.4937107563018799, Total Reward: 509.8612434432689, Q Loss: 12322332.1484375, Actor Loss: -289431.7175292969  
Episode 8256: Time: 0.12364339828491211, Total Reward: 119.38150549169322, Q Loss: 2930093.265625, Actor Loss: -72918.900390625  
Episode 8257: Time: 0.46883225440979004, Total Reward: 470.74943720177055, Q Loss: 14718246.4375, Actor Loss: -262850.5478515625  
Episode 8258: Time: 0.1653597354888916, Total Reward: 156.54852661779455, Q Loss: 4618482.421875, Actor Loss: -91714.2060546875  
Episode 8259: Time: 0.1066741943359375, Total Reward: 100.52570616467595, Q Loss: 2867981.46484375, Actor Loss: -60749.04345703125  
Episode 8260: Time: 0.2558586597442627, Total Reward: 257.1624339959725, Q Loss: 7108290.75, Actor Loss: -149646.78076171875  
Episode 8261: Time: 0.17698121070861816, Total Reward: 175.29005191755485, Q Loss: 4903872.5390625, Actor Loss: -97834.42919921875

Episode 8262: Time: 0.17745590209960938, Total Reward: 175.0275736499632, Q Loss: 4395446.546875, Actor Loss: -103692.0615234375  
Episode 8263: Time: 0.3090245723724365, Total Reward: 314.7180659344755, Q Loss: 9367721.1640625, Actor Loss: -177749.849609375  
Episode 8264: Time: 0.176682710647583, Total Reward: 174.57530802267894, Q Loss: 6668485.671875, Actor Loss: -105319.43212890625  
Episode 8265: Time: 0.20296907424926758, Total Reward: 202.8746787340525, Q Loss: 6291847.3515625, Actor Loss: -119578.1884765625  
Episode 8266: Time: 0.20316028594970703, Total Reward: 201.54824526760478, Q Loss: 7489684.734375, Actor Loss: -121657.8818359375  
Episode 8267: Time: 0.11498403549194336, Total Reward: 110.13997283920139, Q Loss: 2954738.5625, Actor Loss: -63425.513671875  
Episode 8268: Time: 0.07072877883911133, Total Reward: 62.69555843102276, Q Loss: 1746857.5546875, Actor Loss: -39771.1103515625  
Episode 8269: Time: 0.11537957191467285, Total Reward: 110.1089851098516, Q Loss: 2960211.375, Actor Loss: -65861.60107421875  
Episode 8270: Time: 0.4589657783508301, Total Reward: 471.91999114592926, Q Loss: 12151264.359375, Actor Loss: -267223.7922363281  
Episode 8271: Time: 0.31078577041625977, Total Reward: 313.703157717233, Q Loss: 9381208.046875, Actor Loss: -181842.60595703125  
Episode 8272: Time: 0.31723761558532715, Total Reward: 324.03132146880404, Q Loss: 9779621.2421875, Actor Loss: -189854.33935546875  
Episode 8273: Time: 0.39604735374450684, Total Reward: 407.45328992403233, Q Loss: 11732053.4765625, Actor Loss: -230121.46240234375  
Episode 8274: Time: 0.19426941871643066, Total Reward: 191.7171696700073, Q Loss: 5285359.91796875, Actor Loss: -113321.8330078125  
Episode 8275: Time: 0.10635042190551758, Total Reward: 100.72393707740454, Q Loss: 2173236.9453125, Actor Loss: -60789.7138671875  
Episode 8276: Time: 0.20258831977844238, Total Reward: 201.68744934939497, Q Loss: 4950732.72265625, Actor Loss: -120503.6826171875  
Episode 8277: Time: 0.8963487148284912, Total Reward: 937.9274287108967, Q Loss: 24296792.78515625, Actor Loss: -532071.083984375  
Episode 8278: Time: 1.2407009601593018, Total Reward: 1303.1062230822295, Q Loss: 35495270.48828125, Actor Loss: -735212.4328613281  
Episode 8279: Time: 0.6870653629302979, Total Reward: 712.3373787744071, Q Loss: 20599033.703125, Actor Loss: -410323.4296875  
Episode 8280: Time: 0.3701636791229248, Total Reward: 379.9415609456456, Q Loss: 12321051.87109375, Actor Loss: -219539.27978515625  
Episode 8281: Time: 0.40509533882141113, Total Reward: 416.3489505151568, Q Loss: 11613631.984375, Actor Loss: -241835.99169921875  
Episode 8282: Time: 0.10602474212646484, Total Reward: 100.81277274002328, Q Loss: 1868123.7578125, Actor Loss: -62375.02978515625  
Episode 8283: Time: 0.10668182373046875, Total Reward: 100.67121140592198, Q Loss: 3472528.1171875, Actor Loss: -64641.8759765625  
Episode 8284: Time: 0.24774837493896484, Total Reward: 248.74601495809102, Q Loss: 8352223.4453125, Actor Loss: -142727.20434570312  
Episode 8285: Time: 0.4674038887023926, Total Reward: 481.65539576609, Q Loss: 12918321.4375, Actor Loss: -278692.0302734375  
Episode 8286: Time: 0.15999937057495117, Total Reward: 156.9953678905828, Q Loss: 4203550.453125, Actor Loss: -92555.6005859375  
Episode 8287: Time: 0.1869347095489502, Total Reward: 183.65775719455854, Q Loss: 6504992.0859375, Actor Loss: -109847.8310546875  
Episode 8288: Time: 0.17740678787231445, Total Reward: 174.69900937740096, Q Loss: 5356805.953125, Actor Loss: -105055.73486328125  
Episode 8289: Time: 0.3012697696685791, Total Reward: 304.84190320345743, Q Loss: 10073369.640625, Actor Loss: -175473.84594726562

Episode 8290: Time: 0.11521410942077637, Total Reward: 109.40905549351524, Q Loss: 3840044.3125, Actor Loss: -63132.84765625  
Episode 8291: Time: 0.2836599349975586, Total Reward: 286.84664639641665, Q Loss: 8429324.1484375, Actor Loss: -167480.68896484375  
Episode 8292: Time: 0.15078973770141602, Total Reward: 146.47249382902677, Q Loss: 5340410.484375, Actor Loss: -89988.90087890625  
Episode 8293: Time: 0.380399227142334, Total Reward: 389.25731155770524, Q Loss: 11124386.53125, Actor Loss: -227183.91015625  
Episode 8294: Time: 0.16805028915405273, Total Reward: 166.0165640613789, Q Loss: 4980983.76171875, Actor Loss: -101835.75  
Episode 8295: Time: 0.29237890243530273, Total Reward: 296.23397012530666, Q Loss: 8780468.625, Actor Loss: -171687.89404296875  
Episode 8296: Time: 0.23021435737609863, Total Reward: 229.9422124387578, Q Loss: 5738036.921875, Actor Loss: -135863.18676757812  
Episode 8297: Time: 0.35330843925476074, Total Reward: 360.4812631253786, Q Loss: 11572705.640625, Actor Loss: -212690.09130859375  
Episode 8298: Time: 0.28334712982177734, Total Reward: 284.5149186972957, Q Loss: 8286647.6171875, Actor Loss: -167616.21240234375  
Episode 8299: Time: 0.25708985328674316, Total Reward: 259.14654990984513, Q Loss: 7466942.4609375, Actor Loss: -152872.509765625  
Validation Mean: 9352.836327117191, Validation Std: 0.8930726068760213  
saving model  
Episode 8300: Time: 0.18804359436035156, Total Reward: 183.65600561252117, Q Loss: 5986226.703125, Actor Loss: -113366.37744140625  
Episode 8301: Time: 0.3465111255645752, Total Reward: 349.09469931999047, Q Loss: 11027648.4921875, Actor Loss: -206254.140625  
Episode 8302: Time: 0.31900930404663086, Total Reward: 323.012399409259, Q Loss: 8708023.3125, Actor Loss: -187216.34887695312  
Episode 8303: Time: 0.5039222240447998, Total Reward: 518.5026476313607, Q Loss: 12922027.1328125, Actor Loss: -300635.908203125  
Episode 8304: Time: 0.38175034523010254, Total Reward: 388.27754557612957, Q Loss: 9959880.5625, Actor Loss: -224849.70068359375  
Episode 8305: Time: 0.26567554473876953, Total Reward: 267.91448028262374, Q Loss: 7796277.140625, Actor Loss: -156760.62646484375  
Episode 8306: Time: 0.23102951049804688, Total Reward: 229.84197875550117, Q Loss: 6804149.6015625, Actor Loss: -134560.07763671875  
Episode 8307: Time: 0.16889095306396484, Total Reward: 164.7574685537935, Q Loss: 5553507.3203125, Actor Loss: -99918.390625  
Episode 8308: Time: 0.24834394454956055, Total Reward: 249.28624165476307, Q Loss: 8160733.578125, Actor Loss: -144673.40966796875  
Episode 8309: Time: 0.11529397964477539, Total Reward: 110.1051450064447, Q Loss: 4611518.7578125, Actor Loss: -66464.5947265625  
Episode 8310: Time: 0.44280147552490234, Total Reward: 450.80694022265186, Q Loss: 13252670.59375, Actor Loss: -266839.34375  
Episode 8311: Time: 0.18631219863891602, Total Reward: 183.73760258329673, Q Loss: 6869613.953125, Actor Loss: -110755.17138671875  
Episode 8312: Time: 0.12475943565368652, Total Reward: 119.52767159350438, Q Loss: 3734742.890625, Actor Loss: -74403.884765625  
Episode 8313: Time: 0.2751436233520508, Total Reward: 277.4504756556882, Q Loss: 8912325.26953125, Actor Loss: -162608.4453125  
Episode 8314: Time: 0.5134670734405518, Total Reward: 525.0367353118587, Q Loss: 14843111.43359375, Actor Loss: -305794.3388671875  
Episode 8315: Time: 0.2659111022949219, Total Reward: 268.43049192772526, Q Loss: 7535813.390625, Actor Loss: -161077.892578125  
Episode 8316: Time: 0.16872358322143555, Total Reward: 165.771860200334, Q Loss: 5776147.34375, Actor Loss: -99417.96215820312

Episode 8317: Time: 0.17789363861083984, Total Reward: 174.58896877676273, Q Loss: 5853410.7890625, Actor Loss: -106004.49853515625  
Episode 8318: Time: 0.30304932594299316, Total Reward: 304.0096442482432, Q Loss: 8052772.2578125, Actor Loss: -180895.8984375  
Episode 8319: Time: 0.18753886222839355, Total Reward: 183.1682372822406, Q Loss: 5481850.3359375, Actor Loss: -115783.99658203125  
Episode 8320: Time: 0.5500586032867432, Total Reward: 566.020844622899, Q Loss: 18914266.0546875, Actor Loss: -327218.18896484375  
Episode 8321: Time: 0.3901395797729492, Total Reward: 397.6367952865348, Q Loss: 11750686.6640625, Actor Loss: -228978.27734375  
Episode 8322: Time: 0.3101928234100342, Total Reward: 314.2243530253742, Q Loss: 12354505.3359375, Actor Loss: -187172.9423828125  
Episode 8323: Time: 0.2573673725128174, Total Reward: 258.7335009519053, Q Loss: 8022427.65625, Actor Loss: -154032.6455078125  
Episode 8324: Time: 0.584683895111084, Total Reward: 603.5230021727186, Q Loss: 17098958.8671875, Actor Loss: -350101.93798828125  
Episode 8325: Time: 0.17712640762329102, Total Reward: 174.19539396322023, Q Loss: 5681527.94921875, Actor Loss: -107298.47802734375  
Episode 8326: Time: 0.38053226470947266, Total Reward: 388.47090286022615, Q Loss: 10844641.0546875, Actor Loss: -234766.11962890625  
Episode 8327: Time: 0.18597817420959473, Total Reward: 183.0184663739472, Q Loss: 5502680.0625, Actor Loss: -113992.2216796875  
Episode 8328: Time: 0.2306504249572754, Total Reward: 228.54119986522457, Q Loss: 6659981.9140625, Actor Loss: -142219.4970703125  
Episode 8329: Time: 0.16829299926757812, Total Reward: 163.8449127540094, Q Loss: 5131602.046875, Actor Loss: -99365.189453125  
Episode 8330: Time: 0.2572963237762451, Total Reward: 258.8472809850298, Q Loss: 7057378.9921875, Actor Loss: -157022.04833984375  
Episode 8331: Time: 0.15939760208129883, Total Reward: 155.56961970339594, Q Loss: 4283797.9375, Actor Loss: -95255.41455078125  
Episode 8332: Time: 0.20398640632629395, Total Reward: 202.97865008594238, Q Loss: 8445363.8359375, Actor Loss: -125787.05908203125  
Episode 8333: Time: 0.4164152145385742, Total Reward: 426.42985126401663, Q Loss: 15648408.3984375, Actor Loss: -250158.55859375  
Episode 8334: Time: 0.4687049388885498, Total Reward: 483.09233286476154, Q Loss: 13646607.43359375, Actor Loss: -281686.2331542969  
Episode 8335: Time: 0.23111224174499512, Total Reward: 228.30221015382827, Q Loss: 6702079.375, Actor Loss: -139276.1513671875  
Episode 8336: Time: 0.06239771842956543, Total Reward: 53.778306429124, Q Loss: 1371204.390625, Actor Loss: -36827.3154296875  
Episode 8337: Time: 0.2832827568054199, Total Reward: 286.1224954393114, Q Loss: 8454970.1171875, Actor Loss: -174050.14111328125  
Episode 8338: Time: 0.32297468185424805, Total Reward: 324.09734900948894, Q Loss: 10115049.8046875, Actor Loss: -190981.833984375  
Episode 8339: Time: 0.37267160415649414, Total Reward: 379.33863319522186, Q Loss: 11928574.8984375, Actor Loss: -217751.11474609375  
Episode 8340: Time: 0.26630687713623047, Total Reward: 267.6168816871489, Q Loss: 8881052.1640625, Actor Loss: -159402.544921875  
Episode 8341: Time: 0.24799656867980957, Total Reward: 247.97221630131884, Q Loss: 7543551.80859375, Actor Loss: -147327.97998046875  
Episode 8342: Time: 0.24882769584655762, Total Reward: 249.19971713347093, Q Loss: 6126380.1953125, Actor Loss: -149954.35498046875  
Episode 8343: Time: 0.2490220069885254, Total Reward: 249.5420068133289, Q Loss: 7378930.890625, Actor Loss: -152677.70556640625  
Episode 8344: Time: 0.2577245235443115, Total Reward: 259.11141382778925, Q Loss: 6408410.390625, Actor Loss: -153829.38916015625

Episode 8345: Time: 0.19520044326782227, Total Reward: 191.37487142986, Q Loss: 6229934.8125, Actor Loss: -124029.6650390625  
Episode 8346: Time: 0.15123391151428223, Total Reward: 145.3970126181682, Q Loss: 5144555.765625, Actor Loss: -91237.458984375  
Episode 8347: Time: 0.062261343002319336, Total Reward: 53.49385416583762, Q Loss: 1632906.96875, Actor Loss: -36611.6123046875  
Episode 8348: Time: 0.15965580940246582, Total Reward: 156.86484319287206, Q Loss: 5245470.9765625, Actor Loss: -93684.91943359375  
Episode 8349: Time: 0.08899235725402832, Total Reward: 81.92356621834969, Q Loss: 2531352.8125, Actor Loss: -54513.2177734375  
Episode 8350: Time: 0.22212791442871094, Total Reward: 221.64509450120966, Q Loss: 6865017.3515625, Actor Loss: -138083.51416015625  
Episode 8351: Time: 0.398207426071167, Total Reward: 407.76755606522937, Q Loss: 10837082.73046875, Actor Loss: -234121.861328125  
Episode 8352: Time: 0.29183077812194824, Total Reward: 294.9124468014051, Q Loss: 9392443.421875, Actor Loss: -177422.35302734375  
Episode 8353: Time: 0.2393205165863037, Total Reward: 240.33202097477462, Q Loss: 6343534.234375, Actor Loss: -148238.2744140625  
Episode 8354: Time: 0.27534937858581543, Total Reward: 275.9677106218377, Q Loss: 9287165.59375, Actor Loss: -168155.6689453125  
Episode 8355: Time: 0.5411765575408936, Total Reward: 555.4782877424266, Q Loss: 18560185.3359375, Actor Loss: -331561.9921875  
Episode 8356: Time: 0.08935737609863281, Total Reward: 82.16795119286678, Q Loss: 2561761.4296875, Actor Loss: -53748.93701171875  
Episode 8357: Time: 0.22175979614257812, Total Reward: 219.79547481857125, Q Loss: 6259310.9453125, Actor Loss: -135787.27880859375  
Episode 8358: Time: 0.2749323844909668, Total Reward: 277.2251054007507, Q Loss: 8331343.44140625, Actor Loss: -163076.34521484375  
Episode 8359: Time: 0.426450252532959, Total Reward: 435.73275370494486, Q Loss: 15992201.4921875, Actor Loss: -254721.59130859375  
Episode 8360: Time: 0.5400488376617432, Total Reward: 555.9457637444544, Q Loss: 16733429.46875, Actor Loss: -326497.9580078125  
Episode 8361: Time: 0.10627031326293945, Total Reward: 100.7201868449029, Q Loss: 3630079.109375, Actor Loss: -62499.29638671875  
Episode 8362: Time: 0.1333303451538086, Total Reward: 128.71947730906382, Q Loss: 5083070.2421875, Actor Loss: -80331.3046875  
Episode 8363: Time: 0.07984304428100586, Total Reward: 72.24622999653494, Q Loss: 2891175.1796875, Actor Loss: -49092.5146484375  
Episode 8364: Time: 0.380385160446167, Total Reward: 389.43038964725395, Q Loss: 12414534.734375, Actor Loss: -233756.04052734375  
Episode 8365: Time: 0.13288331031799316, Total Reward: 128.2318444640462, Q Loss: 4978448.6875, Actor Loss: -81570.57666015625  
Episode 8366: Time: 0.3562936782836914, Total Reward: 361.49936030127793, Q Loss: 11184894.5390625, Actor Loss: -212734.833984375  
Episode 8367: Time: 0.425628662109375, Total Reward: 434.9321962340146, Q Loss: 13857777.46875, Actor Loss: -258290.94873046875  
Episode 8368: Time: 0.11499357223510742, Total Reward: 109.86438663601461, Q Loss: 4672317.0, Actor Loss: -71443.12451171875  
Episode 8369: Time: 0.11560750007629395, Total Reward: 109.27207737504658, Q Loss: 3055013.671875, Actor Loss: -70084.87060546875  
Episode 8370: Time: 0.433591365814209, Total Reward: 441.5871500506773, Q Loss: 13215508.08203125, Actor Loss: -267605.95458984375  
Episode 8371: Time: 0.32712316513061523, Total Reward: 331.67123746067284, Q Loss: 9506750.8828125, Actor Loss: -201238.27685546875  
Episode 8372: Time: 0.20351529121398926, Total Reward: 203.0445335233325, Q Loss: 7558020.2265625, Actor Loss: -127330.55859375

Episode 8373: Time: 0.09766936302185059, Total Reward: 91.07762550141224, Q Loss: 3255270.21875, Actor Loss: -57031.4697265625  
Episode 8374: Time: 0.12430286407470703, Total Reward: 119.41295242981552, Q Loss: 3465814.140625, Actor Loss: -74051.93505859375  
Episode 8375: Time: 0.2742576599121094, Total Reward: 277.7076451025051, Q Loss: 7831553.5390625, Actor Loss: -169058.34814453125  
Episode 8376: Time: 0.09741830825805664, Total Reward: 91.34282450736893, Q Loss: 3147034.8046875, Actor Loss: -57069.09228515625  
Episode 8377: Time: 0.10746145248413086, Total Reward: 100.02419128669858, Q Loss: 4220349.2578125, Actor Loss: -64199.04931640625  
Episode 8378: Time: 0.18633008003234863, Total Reward: 184.37688398279627, Q Loss: 5955155.1015625, Actor Loss: -112334.52490234375  
Episode 8379: Time: 0.12421202659606934, Total Reward: 119.67261258967453, Q Loss: 3499212.3125, Actor Loss: -74488.2744140625  
Episode 8380: Time: 0.37200260162353516, Total Reward: 379.42693628880704, Q Loss: 11993917.9296875, Actor Loss: -228794.5576171875  
Episode 8381: Time: 0.07987022399902344, Total Reward: 72.97821275401637, Q Loss: 2218551.859375, Actor Loss: -50968.107421875  
Episode 8382: Time: 0.2837188243865967, Total Reward: 287.0647611186663, Q Loss: 9152972.609375, Actor Loss: -172637.34521484375  
Episode 8383: Time: 0.16852116584777832, Total Reward: 165.70045204784773, Q Loss: 4594871.2890625, Actor Loss: -102885.7705078125  
Episode 8384: Time: 0.1861264705657959, Total Reward: 182.30742451450323, Q Loss: 5230261.74609375, Actor Loss: -111333.08447265625  
Episode 8385: Time: 0.33612680435180664, Total Reward: 342.29307082898043, Q Loss: 11765793.26171875, Actor Loss: -205034.251953125  
Episode 8386: Time: 0.16840457916259766, Total Reward: 164.68421509556796, Q Loss: 6496964.7734375, Actor Loss: -103264.47900390625  
Episode 8387: Time: 0.16008734703063965, Total Reward: 156.33534373918687, Q Loss: 6891354.2265625, Actor Loss: -96103.13818359375  
Episode 8388: Time: 0.4422571659088135, Total Reward: 454.21323888818154, Q Loss: 16559168.322265625, Actor Loss: -277100.82177734375  
Episode 8389: Time: 0.3015282154083252, Total Reward: 305.44193599580876, Q Loss: 9986061.8203125, Actor Loss: -184471.3125  
Episode 8390: Time: 0.13298630714416504, Total Reward: 128.75502814988167, Q Loss: 4516948.3828125, Actor Loss: -81844.5126953125  
Episode 8391: Time: 0.18626761436462402, Total Reward: 180.84832796253133, Q Loss: 6268344.0234375, Actor Loss: -115583.56298828125  
Episode 8392: Time: 0.07091784477233887, Total Reward: 62.77965450266002, Q Loss: 2384493.7734375, Actor Loss: -45108.80419921875  
Episode 8393: Time: 0.1064906120300293, Total Reward: 100.70223326416264, Q Loss: 6114458.9375, Actor Loss: -66920.81787109375  
Episode 8394: Time: 0.0717933177947998, Total Reward: 62.76538575862911, Q Loss: 1615245.75, Actor Loss: -43914.71923828125  
Episode 8395: Time: 0.21269559860229492, Total Reward: 211.3257614320568, Q Loss: 7103506.5859375, Actor Loss: -127947.3564453125  
Episode 8396: Time: 0.3013269901275635, Total Reward: 303.8851645000673, Q Loss: 8654366.65625, Actor Loss: -187984.99169921875  
Episode 8397: Time: 0.33632612228393555, Total Reward: 341.6312755121724, Q Loss: 9167585.24609375, Actor Loss: -205036.47509765625  
Episode 8398: Time: 0.44247865676879883, Total Reward: 453.5211847233272, Q Loss: 14443096.2421875, Actor Loss: -269220.28515625  
Episode 8399: Time: 0.2926194667816162, Total Reward: 295.851401958787, Q Loss: 9125720.25390625, Actor Loss: -181152.984375  
Validation Mean: 9354.079187190968, Validation Std: 0.49956188659914197  
saving model

Episode 8400: Time: 0.09006834030151367, Total Reward: 82.05206376653561, Q Loss: 2928970.5703125, Actor Loss: -49049.96875  
Episode 8401: Time: 0.19516229629516602, Total Reward: 193.24364012737652, Q Loss: 5758489.1328125, Actor Loss: -120601.201171875  
Episode 8402: Time: 0.2045278549194336, Total Reward: 202.675177150564, Q Loss: 7303874.5234375, Actor Loss: -128207.037109375  
Episode 8403: Time: 0.3279542922973633, Total Reward: 333.5327544563916, Q Loss: 10103039.4765625, Actor Loss: -202560.375  
Episode 8404: Time: 0.23998141288757324, Total Reward: 239.76417830899265, Q Loss: 8003346.7265625, Actor Loss: -150185.841796875  
Episode 8405: Time: 0.372791051864624, Total Reward: 379.1305477803832, Q Loss: 13279280.7421875, Actor Loss: -221276.70068359375  
Episode 8406: Time: 0.35489606857299805, Total Reward: 361.6023789827611, Q Loss: 10420073.578125, Actor Loss: -221232.6240234375  
Episode 8407: Time: 0.4430356025695801, Total Reward: 453.22948430855814, Q Loss: 13727423.4921875, Actor Loss: -267197.79248046875  
Episode 8408: Time: 0.2834303379058838, Total Reward: 286.67278288165085, Q Loss: 9229118.53125, Actor Loss: -165861.27099609375  
Episode 8409: Time: 0.3101992607116699, Total Reward: 314.4790094326862, Q Loss: 11010910.9296875, Actor Loss: -189521.52001953125  
Episode 8410: Time: 0.2575094699859619, Total Reward: 257.8537029516873, Q Loss: 7026484.91015625, Actor Loss: -166782.49462890625  
Episode 8411: Time: 0.2223515510559082, Total Reward: 220.91104726700877, Q Loss: 6996758.37109375, Actor Loss: -133525.47900390625  
Episode 8412: Time: 0.16853022575378418, Total Reward: 164.31453849687335, Q Loss: 4875077.2265625, Actor Loss: -102643.36865234375  
Episode 8413: Time: 0.2393181324005127, Total Reward: 240.0361895142133, Q Loss: 8143509.328125, Actor Loss: -149884.123046875  
Episode 8414: Time: 0.4692246913909912, Total Reward: 482.507451542212, Q Loss: 12538328.9921875, Actor Loss: -291838.7587890625  
Episode 8415: Time: 0.2656867504119873, Total Reward: 268.9035694503836, Q Loss: 8837058.984375, Actor Loss: -167184.24462890625  
Episode 8416: Time: 0.3024251461029053, Total Reward: 305.7559635940456, Q Loss: 8870313.484375, Actor Loss: -183143.16357421875  
Episode 8417: Time: 0.15082097053527832, Total Reward: 147.0419289038829, Q Loss: 3640895.0, Actor Loss: -92606.4140625  
Episode 8418: Time: 0.14202165603637695, Total Reward: 138.01388169502047, Q Loss: 2934457.859375, Actor Loss: -87623.36328125  
Episode 8419: Time: 0.14191484451293945, Total Reward: 137.91839444097414, Q Loss: 3552453.7109375, Actor Loss: -87182.19970703125  
Episode 8420: Time: 0.17732572555541992, Total Reward: 172.94096097562667, Q Loss: 6260971.2890625, Actor Loss: -105752.73583984375  
Episode 8421: Time: 0.29611849784851074, Total Reward: 257.5649493269889, Q Loss: 8778443.734375, Actor Loss: -156597.9951171875  
Episode 8422: Time: 0.38459181785583496, Total Reward: 378.7717338193924, Q Loss: 13052915.015625, Actor Loss: -230824.68896484375  
Episode 8423: Time: 0.2924025058746338, Total Reward: 294.33081928807763, Q Loss: 9250505.02734375, Actor Loss: -180003.7275390625  
Episode 8424: Time: 0.4420137405395508, Total Reward: 452.2183741019032, Q Loss: 12855190.765625, Actor Loss: -276807.43359375  
Episode 8425: Time: 0.3985748291015625, Total Reward: 407.55819477437433, Q Loss: 10640565.22265625, Actor Loss: -251524.05224609375  
Episode 8426: Time: 0.16806983947753906, Total Reward: 166.02245406200902, Q Loss: 5033120.34375, Actor Loss: -101934.486328125  
Episode 8427: Time: 0.12418007850646973, Total Reward: 119.12852128203411, Q Loss: 3576598.234375, Actor Loss: -77852.31982421875



Episode 8428: Time: 0.3281576633453369, Total Reward: 332.89033310632135, Q Loss: 11823706.1640625, Actor Loss: -207201.078125  
Episode 8429: Time: 0.26622557640075684, Total Reward: 268.23342882473634, Q Loss: 8686971.984375, Actor Loss: -164835.61962890625  
Episode 8430: Time: 0.24823927879333496, Total Reward: 248.67014342431497, Q Loss: 7831089.015625, Actor Loss: -152679.1044921875  
Episode 8431: Time: 0.4071190357208252, Total Reward: 416.21801250023003, Q Loss: 14438781.609375, Actor Loss: -251597.3720703125  
Episode 8432: Time: 0.37158894538879395, Total Reward: 379.5331510156367, Q Loss: 12624615.734375, Actor Loss: -228397.67236328125  
Episode 8433: Time: 0.20394492149353027, Total Reward: 201.64559460815659, Q Loss: 5841167.765625, Actor Loss: -128922.884765625  
Episode 8434: Time: 0.6643364429473877, Total Reward: 687.7990190009349, Q Loss: 21761599.9296875, Actor Loss: -412248.38427734375  
Episode 8435: Time: 0.16874933242797852, Total Reward: 165.70991357295352, Q Loss: 4881975.3359375, Actor Loss: -107957.2939453125  
Episode 8436: Time: 0.31029367446899414, Total Reward: 313.9405421206399, Q Loss: 10094571.4921875, Actor Loss: -190883.07299804688  
Episode 8437: Time: 0.34609413146972656, Total Reward: 351.06607403645194, Q Loss: 12212040.0, Actor Loss: -216888.52685546875  
Episode 8438: Time: 0.16864800453186035, Total Reward: 166.37816774782377, Q Loss: 5760774.2265625, Actor Loss: -105263.9248046875  
Episode 8439: Time: 0.40729546546936035, Total Reward: 417.56259190756185, Q Loss: 12336049.046875, Actor Loss: -256284.85498046875  
Episode 8440: Time: 0.3988356590270996, Total Reward: 331.9909363984151, Q Loss: 10625451.3828125, Actor Loss: -203245.3330078125  
Episode 8441: Time: 0.3450007438659668, Total Reward: 286.26165303590676, Q Loss: 11774035.671875, Actor Loss: -170020.46240234375  
Episode 8442: Time: 0.4744560718536377, Total Reward: 397.4707881693995, Q Loss: 12859657.2890625, Actor Loss: -246922.44287109375  
Episode 8443: Time: 0.2160956859588623, Total Reward: 175.2773354967133, Q Loss: 5887886.3359375, Actor Loss: -111220.52197265625  
Episode 8444: Time: 0.22693443298339844, Total Reward: 184.09250751066807, Q Loss: 8386493.8984375, Actor Loss: -118947.564453125  
Episode 8445: Time: 0.21590876579284668, Total Reward: 174.6832066335776, Q Loss: 5666498.90625, Actor Loss: -112735.89501953125  
Episode 8446: Time: 0.4849574565887451, Total Reward: 408.03515247092724, Q Loss: 11929807.1953125, Actor Loss: -252302.1923828125  
Episode 8447: Time: 0.818378210067749, Total Reward: 697.2421671891371, Q Loss: 23934820.8125, Actor Loss: -427039.6865234375  
Episode 8448: Time: 0.2161273956298828, Total Reward: 174.39059957541895, Q Loss: 6040143.125, Actor Loss: -108606.1083984375  
Episode 8449: Time: 0.3235013484954834, Total Reward: 266.3773314696984, Q Loss: 9077533.0390625, Actor Loss: -165012.77587890625  
Episode 8450: Time: 1.3469634056091309, Total Reward: 1153.1822337702415, Q Loss: 39584584.7265625, Actor Loss: -701641.4404296875  
Episode 8451: Time: 0.4532930850982666, Total Reward: 379.93796313460064, Q Loss: 11238848.578125, Actor Loss: -233359.17578125  
Episode 8452: Time: 0.27001500129699707, Total Reward: 220.81144744386017, Q Loss: 6949768.84375, Actor Loss: -141460.88232421875  
Episode 8453: Time: 0.48525094985961914, Total Reward: 407.84120796150336, Q Loss: 13154649.109375, Actor Loss: -244163.10107421875  
Episode 8454: Time: 0.47463178634643555, Total Reward: 397.1427925024542, Q Loss: 14029834.7578125, Actor Loss: -243887.98486328125  
Episode 8455: Time: 0.18362784385681152, Total Reward: 146.94775823908768, Q Loss: 4878448.6328125, Actor Loss: -93334.20068359375

Episode 8456: Time: 0.33426380157470703, Total Reward: 276.9688295526088, Q Loss: 12523131.046875, Actor Loss: -174515.310546875  
Episode 8457: Time: 0.36690282821655273, Total Reward: 305.1173321366465, Q Loss: 11670800.7578125, Actor Loss: -191220.1728515625  
Episode 8458: Time: 0.39873218536376953, Total Reward: 333.88825889707147, Q Loss: 10312289.4921875, Actor Loss: -211461.26220703125  
Episode 8459: Time: 0.6462228298187256, Total Reward: 545.5113683109073, Q Loss: 14038606.375, Actor Loss: -339736.2705078125  
Episode 8460: Time: 0.07583785057067871, Total Reward: 53.29088929249881, Q Loss: 1370870.125, Actor Loss: -38812.1767578125  
Episode 8461: Time: 0.1621098518371582, Total Reward: 129.12396202439677, Q Loss: 5370799.4375, Actor Loss: -81192.833984375  
Episode 8462: Time: 0.2692525386810303, Total Reward: 220.78403000806395, Q Loss: 7164744.0546875, Actor Loss: -140097.99169921875  
Episode 8463: Time: 0.11876630783081055, Total Reward: 91.40812285215824, Q Loss: 3841832.5546875, Actor Loss: -62965.4609375  
Episode 8464: Time: 0.36653614044189453, Total Reward: 306.2712290191869, Q Loss: 9866355.90625, Actor Loss: -192166.818359375  
Episode 8465: Time: 0.3879246711730957, Total Reward: 324.80567590895953, Q Loss: 10446629.8515625, Actor Loss: -202120.76416015625  
Episode 8466: Time: 0.1403334140777588, Total Reward: 109.86977764540319, Q Loss: 4893316.6875, Actor Loss: -73328.15087890625  
Episode 8467: Time: 0.16228342056274414, Total Reward: 128.89198972240308, Q Loss: 5194108.64453125, Actor Loss: -86076.2587890625  
Episode 8468: Time: 0.3234372138977051, Total Reward: 267.0238471087383, Q Loss: 10120566.328125, Actor Loss: -166849.04443359375  
Episode 8469: Time: 0.1509544849395752, Total Reward: 118.6883565891931, Q Loss: 3824306.53125, Actor Loss: -77312.7451171875  
Episode 8470: Time: 0.06534647941589355, Total Reward: 44.394690945086694, Q Loss: 3439391.5625, Actor Loss: -34493.95068359375  
Episode 8471: Time: 0.495894193649292, Total Reward: 416.8989359974535, Q Loss: 16467143.140625, Actor Loss: -257218.13671875  
Episode 8472: Time: 0.3993854522705078, Total Reward: 332.92039075106385, Q Loss: 10172293.94140625, Actor Loss: -208715.75341796875  
Episode 8473: Time: 0.819044828414917, Total Reward: 695.6311066409937, Q Loss: 24418063.7421875, Actor Loss: -426285.66796875  
Episode 8474: Time: 0.2592315673828125, Total Reward: 208.82932571901247, Q Loss: 5721059.078125, Actor Loss: -135078.5341796875  
Episode 8475: Time: 0.5174126625061035, Total Reward: 434.57616511862784, Q Loss: 16689904.6875, Actor Loss: -272458.02587890625  
Episode 8476: Time: 1.217125415802002, Total Reward: 1038.8092816869614, Q Loss: 36016765.8984375, Actor Loss: -642296.4321289062  
Episode 8477: Time: 0.18337774276733398, Total Reward: 146.86509241969466, Q Loss: 4950066.3515625, Actor Loss: -94404.67578125  
Episode 8478: Time: 0.2160508632659912, Total Reward: 173.92376894738143, Q Loss: 5968940.9453125, Actor Loss: -113800.94921875  
Episode 8479: Time: 0.15116477012634277, Total Reward: 119.06428173911267, Q Loss: 4743524.34375, Actor Loss: -78082.0712890625  
Episode 8480: Time: 0.23794221878051758, Total Reward: 192.6770699272715, Q Loss: 6520049.4453125, Actor Loss: -127505.07470703125  
Episode 8481: Time: 0.15090489387512207, Total Reward: 119.73226083574909, Q Loss: 4124234.3125, Actor Loss: -81907.30224609375  
Episode 8482: Time: 0.3769404888153076, Total Reward: 314.46914873165633, Q Loss: 11679076.3046875, Actor Loss: -196157.423828125  
Episode 8483: Time: 0.3018155097961426, Total Reward: 249.3398147484265, Q Loss: 7072471.953125, Actor Loss: -160734.29736328125

Episode 8484: Time: 0.24822187423706055, Total Reward: 198.83809029175168, Q Loss: 7629030.01171875, Actor Loss: -128074.966796875  
Episode 8485: Time: 0.3991587162017822, Total Reward: 332.44687160619276, Q Loss: 11699483.40234375, Actor Loss: -210970.44677734375  
Episode 8486: Time: 0.6351532936096191, Total Reward: 539.0248732553454, Q Loss: 19252021.46484375, Actor Loss: -330403.08251953125  
Episode 8487: Time: 1.2032005786895752, Total Reward: 1030.8892305585362, Q Loss: 32971834.8046875, Actor Loss: -635573.236328125  
Episode 8488: Time: 0.08635401725769043, Total Reward: 62.64656434975825, Q Loss: 2196301.7890625, Actor Loss: -46343.0625  
Episode 8489: Time: 0.3767561912536621, Total Reward: 314.5564009393676, Q Loss: 11289412.8984375, Actor Loss: -196441.3505859375  
Episode 8490: Time: 0.6663258075714111, Total Reward: 565.4173031472702, Q Loss: 17612471.921875, Actor Loss: -359143.76806640625  
Episode 8491: Time: 0.5056407451629639, Total Reward: 427.3695786684504, Q Loss: 14418960.9765625, Actor Loss: -267543.3251953125  
Episode 8492: Time: 0.21567296981811523, Total Reward: 175.07317413104258, Q Loss: 6694544.5, Actor Loss: -115941.85205078125  
Episode 8493: Time: 0.6337471008300781, Total Reward: 537.1417662978223, Q Loss: 20596998.3203125, Actor Loss: -338709.4892578125  
Episode 8494: Time: 0.37709546089172363, Total Reward: 314.6399545524562, Q Loss: 9550252.5390625, Actor Loss: -195602.2353515625  
Episode 8495: Time: 0.15082550048828125, Total Reward: 119.37930068849853, Q Loss: 3336759.27734375, Actor Loss: -77982.59423828125  
Episode 8496: Time: 0.15109872817993164, Total Reward: 119.41408683776162, Q Loss: 5130479.890625, Actor Loss: -78228.9443359375  
Episode 8497: Time: 0.3123352527618408, Total Reward: 258.1175262600405, Q Loss: 6392182.7890625, Actor Loss: -168262.94189453125  
Episode 8498: Time: 0.48465943336486816, Total Reward: 407.6481451851552, Q Loss: 13909497.33203125, Actor Loss: -257713.7890625  
Episode 8499: Time: 0.247788667678833, Total Reward: 203.15323850194892, Q Loss: 7592590.5234375, Actor Loss: -129316.36328125  
Validation Mean: 9352.72142212903, Validation Std: 0.8662553160481683  
saving model  
Episode 8500: Time: 0.27126598358154297, Total Reward: 220.78574134345706, Q Loss: 8817766.5625, Actor Loss: -144509.05029296875  
Episode 8501: Time: 0.6568820476531982, Total Reward: 556.5508028559016, Q Loss: 19438948.1953125, Actor Loss: -344911.50146484375  
Episode 8502: Time: 0.5491287708282471, Total Reward: 462.99795158429384, Q Loss: 20518333.109375, Actor Loss: -294255.84814453125  
Episode 8503: Time: 0.226607084274292, Total Reward: 184.6465584934315, Q Loss: 4629407.1484375, Actor Loss: -116906.10986328125  
Episode 8504: Time: 0.09717202186584473, Total Reward: 72.04085567028439, Q Loss: 2679995.65625, Actor Loss: -50402.6201171875  
Episode 8505: Time: 0.46334266662597656, Total Reward: 388.5684294029163, Q Loss: 13865264.078125, Actor Loss: -247088.7783203125  
Episode 8506: Time: 0.38822150230407715, Total Reward: 323.82715989170947, Q Loss: 9891709.671875, Actor Loss: -207239.23095703125  
Episode 8507: Time: 0.2803680896759033, Total Reward: 231.207901638812, Q Loss: 7125094.4609375, Actor Loss: -145485.2939453125  
Episode 8508: Time: 0.19438767433166504, Total Reward: 156.76692333034904, Q Loss: 5436020.546875, Actor Loss: -101656.64892578125  
Episode 8509: Time: 0.7005336284637451, Total Reward: 594.3765318646854, Q Loss: 20332123.0546875, Actor Loss: -375742.65576171875  
Episode 8510: Time: 0.12946414947509766, Total Reward: 100.34261886340418, Q Loss: 3737017.38671875, Actor Loss: -67742.5224609375

Episode 8511: Time: 0.2370290756225586, Total Reward: 193.99657254658226, Q Loss: 6958558.890625, Actor Loss: -122352.08056640625  
Episode 8512: Time: 0.4524688720703125, Total Reward: 380.1755726424037, Q Loss: 13739238.28125, Actor Loss: -241287.45361328125  
Episode 8513: Time: 0.3125636577606201, Total Reward: 256.77055818862675, Q Loss: 11563074.4765625, Actor Loss: -167327.92529296875  
Episode 8514: Time: 0.37791919708251953, Total Reward: 314.52369836719384, Q Loss: 9528598.87109375, Actor Loss: -200105.216796875  
Episode 8515: Time: 0.2373208999633789, Total Reward: 193.7702330194489, Q Loss: 6911039.78125, Actor Loss: -127144.89892578125  
Episode 8516: Time: 0.19432663917541504, Total Reward: 155.49500882603698, Q Loss: 5390755.796875, Actor Loss: -103551.2265625  
Episode 8517: Time: 0.08682894706726074, Total Reward: 63.443034198483275, Q Loss: 2385840.5703125, Actor Loss: -44825.392578125  
Episode 8518: Time: 0.5813243389129639, Total Reward: 491.46655428123415, Q Loss: 22064437.9765625, Actor Loss: -310210.0380859375  
Episode 8519: Time: 0.7102715969085693, Total Reward: 604.0835896544726, Q Loss: 22621375.03125, Actor Loss: -380436.8837890625  
Episode 8520: Time: 0.2697930335998535, Total Reward: 221.79577062904488, Q Loss: 8134003.8046875, Actor Loss: -144065.916015625  
Episode 8521: Time: 0.1616058349609375, Total Reward: 128.76149450989925, Q Loss: 4765960.578125, Actor Loss: -84776.32275390625  
Episode 8522: Time: 0.8158116340637207, Total Reward: 508.565530547648, Q Loss: 18788220.42578125, Actor Loss: -325636.80224609375  
Episode 8523: Time: 0.5782716274261475, Total Reward: 351.70726793059083, Q Loss: 13515580.65234375, Actor Loss: -226630.46875  
Episode 8524: Time: 0.1635589599609375, Total Reward: 91.39616082476056, Q Loss: 2424193.0546875, Actor Loss: -62128.96728515625  
Episode 8525: Time: 0.6236739158630371, Total Reward: 378.5009280544506, Q Loss: 11696365.8125, Actor Loss: -245834.42578125  
Episode 8526: Time: 0.7278835773468018, Total Reward: 444.05053693576366, Q Loss: 15367548.0546875, Actor Loss: -282932.9521484375  
Episode 8527: Time: 0.609398365020752, Total Reward: 369.95369221398244, Q Loss: 12568527.0859375, Actor Loss: -238252.7548828125  
Episode 8528: Time: 0.14878153800964355, Total Reward: 81.94352634272803, Q Loss: 3648013.21875, Actor Loss: -57779.4189453125  
Episode 8529: Time: 0.8169102668762207, Total Reward: 499.17369022229104, Q Loss: 14795376.578125, Actor Loss: -318062.669921875  
Episode 8530: Time: 0.4461939334869385, Total Reward: 266.18261586722736, Q Loss: 8640370.578125, Actor Loss: -171398.01220703125  
Episode 8531: Time: 0.564507007598877, Total Reward: 342.5153784184834, Q Loss: 11777935.84375, Actor Loss: -220332.3662109375  
Episode 8532: Time: 0.3718891143798828, Total Reward: 221.5730602670548, Q Loss: 8588398.09375, Actor Loss: -144685.1962890625  
Episode 8533: Time: 0.41527843475341797, Total Reward: 248.38884845111056, Q Loss: 9944681.046875, Actor Loss: -163825.33154296875  
Episode 8534: Time: 0.371274471282959, Total Reward: 221.67921545319018, Q Loss: 9165330.953125, Actor Loss: -142255.8447265625  
Episode 8535: Time: 0.4893317222595215, Total Reward: 295.84368190076, Q Loss: 11856719.3125, Actor Loss: -185176.26611328125  
Episode 8536: Time: 0.17847132682800293, Total Reward: 100.49623642173329, Q Loss: 3821216.8125, Actor Loss: -69404.4189453125  
Episode 8537: Time: 0.43074750900268555, Total Reward: 257.41862352751525, Q Loss: 8649707.453125, Actor Loss: -169146.689453125  
Episode 8538: Time: 0.5196821689605713, Total Reward: 315.0514612746226, Q Loss: 11908330.171875, Actor Loss: -206696.9248046875

Episode 8539: Time: 0.727320671081543, Total Reward: 443.5650779234306, Q Loss: 15675118.140625, Actor Loss: -282732.67431640625  
Episode 8540: Time: 0.25246644020080566, Total Reward: 147.8058296445226, Q Loss: 5035722.1796875, Actor Loss: -96887.59814453125  
Episode 8541: Time: 0.32772135734558105, Total Reward: 193.68595759958134, Q Loss: 6159949.2109375, Actor Loss: -129519.98974609375  
Episode 8542: Time: 0.32715916633605957, Total Reward: 194.12057245964397, Q Loss: 8419857.0625, Actor Loss: -127624.587890625  
Episode 8543: Time: 0.1341714859008789, Total Reward: 72.32260334324228, Q Loss: 3119834.03125, Actor Loss: -51754.69482421875  
Episode 8544: Time: 0.7715787887573242, Total Reward: 472.1945222769283, Q Loss: 17178764.46875, Actor Loss: -301804.4052734375  
Episode 8545: Time: 0.25259828567504883, Total Reward: 146.93949932553534, Q Loss: 4192251.359375, Actor Loss: -96626.8564453125  
Episode 8546: Time: 0.16320514678955078, Total Reward: 91.47205045411991, Q Loss: 4348921.375, Actor Loss: -62342.3427734375  
Episode 8547: Time: 0.6680357456207275, Total Reward: 406.4747261757846, Q Loss: 14105456.0625, Actor Loss: -266665.52294921875  
Episode 8548: Time: 0.13375616073608398, Total Reward: 72.7631209877576, Q Loss: 3064841.984375, Actor Loss: -52536.5546875  
Episode 8549: Time: 0.4310111999511719, Total Reward: 259.24497589442916, Q Loss: 9309214.8515625, Actor Loss: -170770.576171875  
Episode 8550: Time: 0.5498912334442139, Total Reward: 332.2199395347918, Q Loss: 12624667.6640625, Actor Loss: -212990.36962890625  
Episode 8551: Time: 0.34209322929382324, Total Reward: 201.69623372143863, Q Loss: 7591731.140625, Actor Loss: -128013.99755859375  
Episode 8552: Time: 0.5356035232543945, Total Reward: 322.8700306616753, Q Loss: 11727261.703125, Actor Loss: -207346.455078125  
Episode 8553: Time: 0.37143516540527344, Total Reward: 219.774588955371, Q Loss: 6110859.9453125, Actor Loss: -144013.57177734375  
Episode 8554: Time: 0.16338443756103516, Total Reward: 91.37987709532182, Q Loss: 4665292.984375, Actor Loss: -64377.61328125  
Episode 8555: Time: 0.47548580169677734, Total Reward: 286.23176320570155, Q Loss: 10624707.078125, Actor Loss: -194550.83154296875  
Episode 8556: Time: 0.28227901458740234, Total Reward: 165.62443088061778, Q Loss: 7385831.765625, Actor Loss: -109398.919921875  
Episode 8557: Time: 0.3272993564605713, Total Reward: 194.34232981115196, Q Loss: 8991833.28125, Actor Loss: -128823.64892578125  
Episode 8558: Time: 0.32677769660949707, Total Reward: 194.06301450000683, Q Loss: 7291534.265625, Actor Loss: -128566.11474609375  
Episode 8559: Time: 0.6226143836975098, Total Reward: 380.3471528977651, Q Loss: 14269654.921875, Actor Loss: -243593.5947265625  
Episode 8560: Time: 0.40094614028930664, Total Reward: 239.42128678862633, Q Loss: 8888880.1640625, Actor Loss: -158358.19287109375  
Episode 8561: Time: 0.7409329414367676, Total Reward: 453.7410172945715, Q Loss: 19764658.265625, Actor Loss: -290635.17236328125  
Episode 8562: Time: 0.44554758071899414, Total Reward: 266.11718919160046, Q Loss: 10826697.296875, Actor Loss: -174578.421875  
Episode 8563: Time: 0.47458505630493164, Total Reward: 285.86609982157734, Q Loss: 9066888.84375, Actor Loss: -184950.46044921875  
Episode 8564: Time: 0.8900332450866699, Total Reward: 547.5312474926216, Q Loss: 18698898.734375, Actor Loss: -349108.96630859375  
Episode 8565: Time: 0.6840763092041016, Total Reward: 415.9314634921076, Q Loss: 14000336.6640625, Actor Loss: -269098.1259765625  
Episode 8566: Time: 0.3412775993347168, Total Reward: 201.93562251970124, Q Loss: 8148268.9609375, Actor Loss: -130353.12939453125

Episode 8567: Time: 0.29746246337890625, Total Reward: 174.6196407867115, Q Loss: 6957023.546875, Actor Loss: -117556.42236328125  
Episode 8568: Time: 0.519428014755249, Total Reward: 314.2196531268816, Q Loss: 10479771.234375, Actor Loss: -203252.640625  
Episode 8569: Time: 0.6974565982818604, Total Reward: 426.6682369438238, Q Loss: 14562234.9140625, Actor Loss: -278909.3115234375  
Episode 8570: Time: 0.6226708889007568, Total Reward: 379.11908989288463, Q Loss: 13091590.8125, Actor Loss: -243256.58447265625  
Episode 8571: Time: 0.10425400733947754, Total Reward: 53.7555126011076, Q Loss: 1340868.015625, Actor Loss: -40307.94775390625  
Episode 8572: Time: 0.3124501705169678, Total Reward: 183.95391566494933, Q Loss: 6174159.40625, Actor Loss: -122918.32666015625  
Episode 8573: Time: 0.519780158996582, Total Reward: 312.60957734117085, Q Loss: 11008811.1796875, Actor Loss: -203994.65673828125  
Episode 8574: Time: 0.26753807067871094, Total Reward: 156.45776882303915, Q Loss: 6050432.5, Actor Loss: -106633.40380859375  
Episode 8575: Time: 0.563849687576294, Total Reward: 339.9601072180612, Q Loss: 12643655.359375, Actor Loss: -226661.732421875  
Episode 8576: Time: 1.0230226516723633, Total Reward: 630.0911831483855, Q Loss: 19470600.9921875, Actor Loss: -409386.3779296875  
Episode 8577: Time: 1.9740715026855469, Total Reward: 1224.7683042840408, Q Loss: 42751672.9296875, Actor Loss: -782689.8793945312  
Episode 8578: Time: 0.3864247798919678, Total Reward: 230.53399631478942, Q Loss: 8382454.953125, Actor Loss: -154639.68603515625  
Episode 8579: Time: 0.6833324432373047, Total Reward: 418.226202857816, Q Loss: 16118440.3828125, Actor Loss: -274314.66259765625  
Episode 8580: Time: 0.3422524929046631, Total Reward: 202.8637028823599, Q Loss: 7197607.4765625, Actor Loss: -134999.05615234375  
Episode 8581: Time: 0.44576382637023926, Total Reward: 266.5366142538786, Q Loss: 10471325.6640625, Actor Loss: -177330.3056640625  
Episode 8582: Time: 0.22357535362243652, Total Reward: 128.72737130500363, Q Loss: 6091133.5859375, Actor Loss: -85519.92578125  
Episode 8583: Time: 0.4156534671783447, Total Reward: 248.33659548697312, Q Loss: 7793111.4296875, Actor Loss: -167978.5048828125  
Episode 8584: Time: 0.8018920421600342, Total Reward: 491.55305829984144, Q Loss: 16654127.390625, Actor Loss: -325753.6552734375  
Episode 8585: Time: 0.1339397430419922, Total Reward: 72.26268074373802, Q Loss: 2137541.0546875, Actor Loss: -52832.322265625  
Episode 8586: Time: 0.44599413871765137, Total Reward: 265.6830650487032, Q Loss: 9942188.140625, Actor Loss: -183168.390625  
Episode 8587: Time: 0.23818492889404297, Total Reward: 137.9266584524235, Q Loss: 6394645.765625, Actor Loss: -95932.65966796875  
Episode 8588: Time: 0.4607405662536621, Total Reward: 276.1025744031384, Q Loss: 9625226.9296875, Actor Loss: -181192.42041015625  
Episode 8589: Time: 0.14874744415283203, Total Reward: 82.27483552466275, Q Loss: 2936776.921875, Actor Loss: -58633.97265625  
Episode 8590: Time: 0.3865501880645752, Total Reward: 228.5443661335652, Q Loss: 9244278.8828125, Actor Loss: -150760.51171875  
Episode 8591: Time: 0.8474335670471191, Total Reward: 520.6382218015127, Q Loss: 17423044.15625, Actor Loss: -332617.6181640625  
Episode 8592: Time: 0.29782962799072266, Total Reward: 174.39344682506297, Q Loss: 6982649.7734375, Actor Loss: -118917.400390625  
Episode 8593: Time: 0.31225109100341797, Total Reward: 184.21953743822672, Q Loss: 7146214.625, Actor Loss: -125125.27880859375  
Episode 8594: Time: 0.2230546474456787, Total Reward: 128.5888554932049, Q Loss: 5868523.7109375, Actor Loss: -89794.39501953125

Episode 8595: Time: 0.3570563793182373, Total Reward: 212.0139913127396, Q Loss: 10081564.0234375, Actor Loss: -145309.58056640625  
Episode 8596: Time: 0.32791948318481445, Total Reward: 193.42284192906203, Q Loss: 6674116.5625, Actor Loss: -128829.8388671875  
Episode 8597: Time: 0.22337079048156738, Total Reward: 128.8382479225988, Q Loss: 5080082.33203125, Actor Loss: -87079.15478515625  
Episode 8598: Time: 0.19361257553100586, Total Reward: 109.99923308652413, Q Loss: 4665929.421875, Actor Loss: -79851.80322265625  
Episode 8599: Time: 0.267681360244751, Total Reward: 155.8085966902989, Q Loss: 6355948.578125, Actor Loss: -108518.31201171875  
Validation Mean: 9352.422640154538, Validation Std: 1.0313839019957527  
saving model  
Episode 8600: Time: 0.7102820873260498, Total Reward: 406.39348497093494, Q Loss: 12763092.25, Actor Loss: -275514.484375  
Episode 8601: Time: 0.33095693588256836, Total Reward: 191.56725839556785, Q Loss: 5906635.265625, Actor Loss: -134885.5458984375  
Episode 8602: Time: 0.38817477226257324, Total Reward: 231.55317067826712, Q Loss: 9652509.390625, Actor Loss: -153666.96630859375  
Episode 8603: Time: 0.23891854286193848, Total Reward: 138.31610088299408, Q Loss: 5489212.578125, Actor Loss: -92845.83544921875  
Episode 8604: Time: 0.5512681007385254, Total Reward: 332.1024767746966, Q Loss: 12111465.1953125, Actor Loss: -219804.13671875  
Episode 8605: Time: 0.5514049530029297, Total Reward: 332.3207288395618, Q Loss: 12139043.9453125, Actor Loss: -212893.55688476562  
Episode 8606: Time: 0.5661144256591797, Total Reward: 340.7554768871566, Q Loss: 11298258.3359375, Actor Loss: -223504.8720703125  
Episode 8607: Time: 0.5059609413146973, Total Reward: 302.1478478142267, Q Loss: 10149373.96875, Actor Loss: -207353.732421875  
Episode 8608: Time: 0.3129274845123291, Total Reward: 184.94860040936632, Q Loss: 6410265.3359375, Actor Loss: -124900.1630859375  
Episode 8609: Time: 0.7136235237121582, Total Reward: 434.63575483558196, Q Loss: 15097078.328125, Actor Loss: -290897.8623046875  
Episode 8610: Time: 0.35730648040771484, Total Reward: 213.00135570242793, Q Loss: 8375424.9140625, Actor Loss: -140243.298828125  
Episode 8611: Time: 0.08952903747558594, Total Reward: 44.612525805316764, Q Loss: 2504533.765625, Actor Loss: -35008.056640625  
Episode 8612: Time: 0.6246459484100342, Total Reward: 379.3809910147664, Q Loss: 14297629.8359375, Actor Loss: -247975.2392578125  
Episode 8613: Time: 0.31267261505126953, Total Reward: 184.51006441005273, Q Loss: 7405573.96875, Actor Loss: -129217.45947265625  
Episode 8614: Time: 0.9817080497741699, Total Reward: 601.8865696457224, Q Loss: 22812294.9296875, Actor Loss: -393919.220703125  
Episode 8615: Time: 0.5505852699279785, Total Reward: 332.7143525444843, Q Loss: 11079504.83203125, Actor Loss: -221798.16357421875  
Episode 8616: Time: 0.4605214595794678, Total Reward: 277.8466559044011, Q Loss: 10647702.3125, Actor Loss: -178995.294921875  
Episode 8617: Time: 0.5644524097442627, Total Reward: 342.57084517348625, Q Loss: 12659169.609375, Actor Loss: -223542.259765625  
Episode 8618: Time: 0.742171049118042, Total Reward: 454.4640587874893, Q Loss: 14838454.484375, Actor Loss: -301329.39013671875  
Episode 8619: Time: 0.5802006721496582, Total Reward: 351.90213252976093, Q Loss: 15753011.2421875, Actor Loss: -229609.01025390625  
Episode 8620: Time: 0.4908449649810791, Total Reward: 294.56281357090984, Q Loss: 12743135.09375, Actor Loss: -198583.35546875  
Episode 8621: Time: 1.1139779090881348, Total Reward: 685.7102345169519, Q Loss: 23573172.5703125, Actor Loss: -450528.58349609375

Episode 8622: Time: 0.5208349227905273, Total Reward: 315.084785314289, Q Loss: 11868219.125, Actor Loss: -208573.21826171875  
Episode 8623: Time: 0.5800457000732422, Total Reward: 352.2721859293031, Q Loss: 12616504.25, Actor Loss: -230702.5703125  
Episode 8624: Time: 0.5201597213745117, Total Reward: 313.98993329019936, Q Loss: 10835537.71875, Actor Loss: -214753.57275390625  
Episode 8625: Time: 0.19338274002075195, Total Reward: 110.08280379228943, Q Loss: 3706315.5546875, Actor Loss: -76383.0380859375  
Episode 8626: Time: 0.5051846504211426, Total Reward: 304.9890113390755, Q Loss: 10183202.13671875, Actor Loss: -209554.763671875  
Episode 8627: Time: 0.3868072032928467, Total Reward: 230.79575124248123, Q Loss: 9440914.1015625, Actor Loss: -153860.85400390625  
Episode 8628: Time: 0.2383580207824707, Total Reward: 136.7795051418823, Q Loss: 5650924.40625, Actor Loss: -99674.673828125  
Episode 8629: Time: 0.6099081039428711, Total Reward: 369.44654099462787, Q Loss: 16850003.421875, Actor Loss: -250868.75830078125  
Episode 8630: Time: 0.5058319568634033, Total Reward: 303.78145311407803, Q Loss: 11610116.265625, Actor Loss: -208140.9384765625  
Episode 8631: Time: 0.3419044017791748, Total Reward: 202.8463725066354, Q Loss: 7081015.25, Actor Loss: -138255.453125  
Episode 8632: Time: 0.9953937530517578, Total Reward: 612.0181578257191, Q Loss: 24442239.78515625, Actor Loss: -396714.49853515625  
Episode 8633: Time: 0.7869675159454346, Total Reward: 481.9910236444234, Q Loss: 16605641.0390625, Actor Loss: -325366.4150390625  
Episode 8634: Time: 0.34172940254211426, Total Reward: 203.23586128271728, Q Loss: 8008952.359375, Actor Loss: -139316.46142578125  
Episode 8635: Time: 0.2675163745880127, Total Reward: 156.93878393447696, Q Loss: 6060316.8203125, Actor Loss: -108422.7158203125  
Episode 8636: Time: 0.17847108840942383, Total Reward: 100.6683647487757, Q Loss: 4643546.671875, Actor Loss: -72947.77197265625  
Episode 8637: Time: 0.16390776634216309, Total Reward: 91.26396803484005, Q Loss: 3651544.15625, Actor Loss: -69697.6171875  
Episode 8638: Time: 0.2972583770751953, Total Reward: 175.5972175187171, Q Loss: 5954275.21875, Actor Loss: -123527.279296875  
Episode 8639: Time: 0.7276580333709717, Total Reward: 444.61767629963964, Q Loss: 15863096.140625, Actor Loss: -301240.30615234375  
Episode 8640: Time: 0.1636943817138672, Total Reward: 91.54195380339912, Q Loss: 2567760.6875, Actor Loss: -66126.1044921875  
Episode 8641: Time: 0.25281763076782227, Total Reward: 147.28864939915587, Q Loss: 4844253.359375, Actor Loss: -103125.5849609375  
Episode 8642: Time: 0.22312402725219727, Total Reward: 127.99100750551835, Q Loss: 4189955.484375, Actor Loss: -88688.28125  
Episode 8643: Time: 0.623610258102417, Total Reward: 378.2872450525087, Q Loss: 12735385.640625, Actor Loss: -259062.74609375  
Episode 8644: Time: 0.20820021629333496, Total Reward: 119.01107839590614, Q Loss: 4491627.328125, Actor Loss: -86611.94580078125  
Episode 8645: Time: 0.1341567039489746, Total Reward: 72.63479873673707, Q Loss: 3248406.375, Actor Loss: -51393.1943359375  
Episode 8646: Time: 0.756589412689209, Total Reward: 463.2431880960718, Q Loss: 18292271.9375, Actor Loss: -312746.59423828125  
Episode 8647: Time: 0.4904491901397705, Total Reward: 295.61553023645627, Q Loss: 15428712.46875, Actor Loss: -195763.673828125  
Episode 8648: Time: 0.5493948459625244, Total Reward: 332.053746087032, Q Loss: 16710076.4296875, Actor Loss: -219654.6630859375  
Episode 8649: Time: 0.3420281410217285, Total Reward: 202.53062149855734, Q Loss: 7971633.6640625, Actor Loss: -139783.8291015625



Episode 8650: Time: 0.2230064868927002, Total Reward: 128.3287352981768, Q Loss: 3905833.796875, Actor Loss: -87575.912109375  
Episode 8651: Time: 0.5341277122497559, Total Reward: 322.86222922836055, Q Loss: 9721941.84375, Actor Loss: -219398.7626953125  
Episode 8652: Time: 0.46038246154785156, Total Reward: 276.921185185218, Q Loss: 8762468.5390625, Actor Loss: -186100.18017578125  
Episode 8653: Time: 0.429854154586792, Total Reward: 257.05394579805505, Q Loss: 10951753.1484375, Actor Loss: -176726.09912109375  
Episode 8654: Time: 0.26787829399108887, Total Reward: 155.71499601175978, Q Loss: 5698797.6171875, Actor Loss: -111372.244140625  
Episode 8655: Time: 0.7714908123016357, Total Reward: 472.0448684523457, Q Loss: 17966211.73828125, Actor Loss: -325211.65234375  
Episode 8656: Time: 1.2468791007995605, Total Reward: 771.086274492307, Q Loss: 26447014.2109375, Actor Loss: -516588.9609375  
Episode 8657: Time: 0.5501534938812256, Total Reward: 331.9660392268828, Q Loss: 15911992.6796875, Actor Loss: -226462.90869140625  
Episode 8658: Time: 0.9954242706298828, Total Reward: 612.471105845049, Q Loss: 20199507.828125, Actor Loss: -404638.330078125  
Episode 8659: Time: 0.5052087306976318, Total Reward: 306.0834613816102, Q Loss: 11237707.8046875, Actor Loss: -206459.82080078125  
Episode 8660: Time: 0.14884209632873535, Total Reward: 82.14194735239677, Q Loss: 2940126.9453125, Actor Loss: -63390.560546875  
Episode 8661: Time: 0.20850229263305664, Total Reward: 118.96085382760344, Q Loss: 5100990.8203125, Actor Loss: -84786.3896484375  
Episode 8662: Time: 0.10437297821044922, Total Reward: 53.43926187179979, Q Loss: 2916060.375, Actor Loss: -42213.1806640625  
Episode 8663: Time: 0.4458332061767578, Total Reward: 268.4160350460747, Q Loss: 12139100.984375, Actor Loss: -184569.560546875  
Episode 8664: Time: 0.28276681900024414, Total Reward: 166.27228708386545, Q Loss: 6784896.0703125, Actor Loss: -117325.79248046875  
Episode 8665: Time: 0.534757137298584, Total Reward: 324.7789142221853, Q Loss: 9647694.6015625, Actor Loss: -221702.36181640625  
Episode 8666: Time: 0.43187785148620605, Total Reward: 258.79444990698425, Q Loss: 10165288.53125, Actor Loss: -178396.74560546875  
Episode 8667: Time: 0.831679105758667, Total Reward: 511.1342135921443, Q Loss: 17892052.6328125, Actor Loss: -344709.56787109375  
Episode 8668: Time: 0.7590231895446777, Total Reward: 461.6380030442562, Q Loss: 17806024.6484375, Actor Loss: -321844.76025390625  
Episode 8669: Time: 0.2531912326812744, Total Reward: 147.4330168170415, Q Loss: 7172627.9375, Actor Loss: -105177.2236328125  
Episode 8670: Time: 0.9507780075073242, Total Reward: 584.6189849605571, Q Loss: 22520360.23046875, Actor Loss: -387721.7548828125  
Episode 8671: Time: 0.5203535556793213, Total Reward: 314.94548967064486, Q Loss: 10571806.3828125, Actor Loss: -214896.697265625  
Episode 8672: Time: 0.6393351554870605, Total Reward: 388.18850155515884, Q Loss: 12918471.265625, Actor Loss: -261500.86669921875  
Episode 8673: Time: 0.6095023155212402, Total Reward: 369.4259709595, Q Loss: 14003507.09375, Actor Loss: -251318.57177734375  
Episode 8674: Time: 0.8461482524871826, Total Reward: 516.723977447559, Q Loss: 21494269.75, Actor Loss: -357198.47998046875  
Episode 8675: Time: 0.17842912673950195, Total Reward: 100.96429443496596, Q Loss: 3461945.65625, Actor Loss: -76544.35595703125  
Episode 8676: Time: 0.6680800914764404, Total Reward: 407.57626863508295, Q Loss: 13988448.765625, Actor Loss: -275492.24755859375  
Episode 8677: Time: 0.19335079193115234, Total Reward: 109.95584762293274, Q Loss: 3968718.375, Actor Loss: -80297.66845703125

Episode 8678: Time: 0.520235538482666, Total Reward: 313.515761445323, Q Loss: 13020481.859375, Actor Loss: -215090.4716796875  
Episode 8679: Time: 0.5499589443206787, Total Reward: 331.7752459449098, Q Loss: 13858879.6484375, Actor Loss: -230330.1572265625  
Episode 8680: Time: 0.22361516952514648, Total Reward: 127.8445399479792, Q Loss: 3855645.765625, Actor Loss: -92628.1533203125  
Episode 8681: Time: 0.43147969245910645, Total Reward: 259.1785389083812, Q Loss: 9209014.24609375, Actor Loss: -184089.439453125  
Episode 8682: Time: 0.19419288635253906, Total Reward: 109.76429298282706, Q Loss: 3674021.8125, Actor Loss: -78794.126953125  
Episode 8683: Time: 0.23883581161499023, Total Reward: 138.29961762350834, Q Loss: 5865620.9375, Actor Loss: -99076.62353515625  
Episode 8684: Time: 0.5068337917327881, Total Reward: 304.70905496122555, Q Loss: 11979210.6328125, Actor Loss: -208342.271484375  
Episode 8685: Time: 0.23890471458435059, Total Reward: 137.4527828511052, Q Loss: 5891644.203125, Actor Loss: -101816.8603515625  
Episode 8686: Time: 0.7904238700866699, Total Reward: 481.3942306195215, Q Loss: 21549544.5546875, Actor Loss: -323106.47412109375  
Episode 8687: Time: 0.46126890182495117, Total Reward: 277.39602057615934, Q Loss: 10934854.9296875, Actor Loss: -193122.3662109375  
Episode 8688: Time: 0.26813387870788574, Total Reward: 156.35681494082183, Q Loss: 5755541.453125, Actor Loss: -110032.3525390625  
Episode 8689: Time: 0.6094348430633545, Total Reward: 370.30943077128086, Q Loss: 12889787.3671875, Actor Loss: -247085.8525390625  
Episode 8690: Time: 0.4164106845855713, Total Reward: 249.94547283147244, Q Loss: 9003343.421875, Actor Loss: -168509.97265625  
Episode 8691: Time: 0.327747106552124, Total Reward: 191.36883938317632, Q Loss: 6311253.984375, Actor Loss: -135264.8935546875  
Episode 8692: Time: 0.6685154438018799, Total Reward: 408.594140368854, Q Loss: 15150476.51953125, Actor Loss: -280451.00927734375  
Episode 8693: Time: 0.17887115478515625, Total Reward: 100.60865470992752, Q Loss: 2857327.125, Actor Loss: -74430.10595703125  
Episode 8694: Time: 0.19396591186523438, Total Reward: 109.95233614164395, Q Loss: 6023066.734375, Actor Loss: -82296.60546875  
Episode 8695: Time: 0.446028470993042, Total Reward: 265.67738893708866, Q Loss: 10229740.1015625, Actor Loss: -185638.2158203125  
Episode 8696: Time: 0.38671159744262695, Total Reward: 230.61802397761784, Q Loss: 7537925.0546875, Actor Loss: -159528.9921875  
Episode 8697: Time: 0.4310271739959717, Total Reward: 259.35482634569337, Q Loss: 12217518.3125, Actor Loss: -180975.68359375  
Episode 8698: Time: 0.2084798812866211, Total Reward: 118.75154495484426, Q Loss: 6447916.484375, Actor Loss: -85374.09228515625  
Episode 8699: Time: 0.49106431007385254, Total Reward: 295.24273323857994, Q Loss: 11696379.140625, Actor Loss: -200350.59765625  
Validation Mean: 9352.48251692884, Validation Std: 0.6713344703315801  
saving model  
Episode 8700: Time: 0.4040200710296631, Total Reward: 239.29377196183688, Q Loss: 10049172.140625, Actor Loss: -173174.33984375  
Episode 8701: Time: 0.43244051933288574, Total Reward: 258.09682370329415, Q Loss: 11231586.4765625, Actor Loss: -181227.47412109375  
Episode 8702: Time: 0.7438509464263916, Total Reward: 454.4987850287259, Q Loss: 16565945.69140625, Actor Loss: -318400.83251953125  
Episode 8703: Time: 0.43230128288269043, Total Reward: 257.14131102992656, Q Loss: 11047880.2890625, Actor Loss: -181464.83056640625  
Episode 8704: Time: 0.13427448272705078, Total Reward: 72.2855784782298, Q Loss: 2675206.28125, Actor Loss: -54717.443359375

Episode 8705: Time: 0.20891022682189941, Total Reward: 119.04327958693904, Q Loss: 5782130.96875, Actor Loss: -86105.55615234375  
Episode 8706: Time: 0.4613828659057617, Total Reward: 277.20794798698387, Q Loss: 8898928.8671875, Actor Loss: -199900.81396484375  
Episode 8707: Time: 0.19361495971679688, Total Reward: 109.92521786409051, Q Loss: 5145404.9453125, Actor Loss: -81762.87109375  
Episode 8708: Time: 1.173079490661621, Total Reward: 723.0537844009585, Q Loss: 25770041.0234375, Actor Loss: -505264.1826171875  
Episode 8709: Time: 0.6246623992919922, Total Reward: 379.6832310942219, Q Loss: 15240479.69140625, Actor Loss: -258515.23046875  
Episode 8710: Time: 0.11957573890686035, Total Reward: 62.65588061231231, Q Loss: 3145814.1953125, Actor Loss: -49418.0673828125  
Episode 8711: Time: 0.23860836029052734, Total Reward: 136.8141545072923, Q Loss: 6862261.0703125, Actor Loss: -105559.6455078125  
Episode 8712: Time: 0.13398456573486328, Total Reward: 72.23638226952976, Q Loss: 2845698.375, Actor Loss: -59198.02685546875  
Episode 8713: Time: 0.4620344638824463, Total Reward: 275.77688234307226, Q Loss: 11232821.1171875, Actor Loss: -192689.5703125  
Episode 8714: Time: 0.4921731948852539, Total Reward: 295.77483405888705, Q Loss: 12464236.0, Actor Loss: -205312.4169921875  
Episode 8715: Time: 0.4176914691925049, Total Reward: 249.0393329156303, Q Loss: 9708847.234375, Actor Loss: -179162.7255859375  
Episode 8716: Time: 0.6696109771728516, Total Reward: 405.6538519507124, Q Loss: 15407023.19921875, Actor Loss: -277693.26708984375  
Episode 8717: Time: 0.7447590827941895, Total Reward: 453.38330689647324, Q Loss: 19364700.0078125, Actor Loss: -311903.04345703125  
Episode 8718: Time: 0.7134842872619629, Total Reward: 435.1217778603955, Q Loss: 16213677.8984375, Actor Loss: -301257.65234375  
Episode 8719: Time: 0.14896941184997559, Total Reward: 81.73088172643642, Q Loss: 3654944.78125, Actor Loss: -61994.65673828125  
Episode 8720: Time: 0.5944983959197998, Total Reward: 358.7048414716748, Q Loss: 16823801.6328125, Actor Loss: -254109.6318359375  
Episode 8721: Time: 0.7728981971740723, Total Reward: 473.7852493908336, Q Loss: 19395257.4296875, Actor Loss: -328729.208984375  
Episode 8722: Time: 0.16411876678466797, Total Reward: 91.38300675613847, Q Loss: 4554283.515625, Actor Loss: -72633.41455078125  
Episode 8723: Time: 0.4615614414215088, Total Reward: 277.78339823859466, Q Loss: 12144070.59375, Actor Loss: -194021.44970703125  
Episode 8724: Time: 0.40187716484069824, Total Reward: 237.50015344663916, Q Loss: 9621330.9609375, Actor Loss: -168764.0556640625  
Episode 8725: Time: 0.5355162620544434, Total Reward: 322.5627258430065, Q Loss: 13008071.8125, Actor Loss: -225787.73779296875  
Episode 8726: Time: 0.44652843475341797, Total Reward: 268.2040129341, Q Loss: 10511703.9453125, Actor Loss: -185277.45947265625  
Episode 8727: Time: 0.6992781162261963, Total Reward: 426.6352486144325, Q Loss: 18107485.0703125, Actor Loss: -297335.37841796875  
Episode 8728: Time: 0.20867037773132324, Total Reward: 119.63843401512784, Q Loss: 4320859.6875, Actor Loss: -92135.08154296875  
Episode 8729: Time: 0.41623497009277344, Total Reward: 249.75041828004245, Q Loss: 11837110.828125, Actor Loss: -174519.923828125  
Episode 8730: Time: 0.5947110652923584, Total Reward: 361.3577405199427, Q Loss: 14684692.40625, Actor Loss: -250452.78564453125  
Episode 8731: Time: 0.7582390308380127, Total Reward: 463.57511432584505, Q Loss: 21012055.1171875, Actor Loss: -324825.626953125  
Episode 8732: Time: 0.38715696334838867, Total Reward: 227.44848275208125, Q Loss: 7679335.96875, Actor Loss: -165366.15087890625

Episode 8733: Time: 0.2087564468383789, Total Reward: 118.98856267165797, Q Loss: 3508795.9765625, Actor Loss: -84376.8564453125  
Episode 8734: Time: 0.22336363792419434, Total Reward: 127.97396090954554, Q Loss: 6959900.8203125, Actor Loss: -92316.1357421875  
Episode 8735: Time: 0.3723742961883545, Total Reward: 221.78287682895342, Q Loss: 10230646.2734375, Actor Loss: -153035.80224609375  
Episode 8736: Time: 0.2088325023651123, Total Reward: 118.50630836454005, Q Loss: 6215381.1484375, Actor Loss: -86072.6552734375  
Episode 8737: Time: 0.9210739135742188, Total Reward: 566.0904311777242, Q Loss: 24771315.1953125, Actor Loss: -388974.99365234375  
Episode 8738: Time: 0.4768974781036377, Total Reward: 286.6859791547811, Q Loss: 12114488.1484375, Actor Loss: -202457.6357421875  
Episode 8739: Time: 0.639319896697998, Total Reward: 388.2264283158074, Q Loss: 18449781.25, Actor Loss: -272716.43212890625  
Episode 8740: Time: 0.5205240249633789, Total Reward: 313.5325418533924, Q Loss: 14641300.7109375, Actor Loss: -218673.22119140625  
Episode 8741: Time: 0.28290748596191406, Total Reward: 166.1393831183295, Q Loss: 6056981.046875, Actor Loss: -123768.1162109375  
Episode 8742: Time: 0.282642126083374, Total Reward: 165.5712491799976, Q Loss: 6017069.5625, Actor Loss: -114816.06494140625  
Episode 8743: Time: 0.5062644481658936, Total Reward: 305.5725215597738, Q Loss: 10954820.9375, Actor Loss: -210666.37109375  
Episode 8744: Time: 0.6840126514434814, Total Reward: 417.67637560615896, Q Loss: 18190138.8828125, Actor Loss: -287072.8798828125  
Episode 8745: Time: 0.846992015838623, Total Reward: 519.6530746668152, Q Loss: 20194529.4921875, Actor Loss: -359001.97705078125  
Episode 8746: Time: 0.4763052463531494, Total Reward: 286.8802130527436, Q Loss: 12622633.859375, Actor Loss: -204998.6767578125  
Episode 8747: Time: 1.1448616981506348, Total Reward: 704.0643987325216, Q Loss: 26563041.046875, Actor Loss: -493960.34521484375  
Episode 8748: Time: 0.1788339614868164, Total Reward: 100.11192150571479, Q Loss: 5475465.015625, Actor Loss: -74701.65625  
Episode 8749: Time: 0.20911169052124023, Total Reward: 119.1707108961999, Q Loss: 5553867.34375, Actor Loss: -88647.5693359375  
Episode 8750: Time: 0.23868846893310547, Total Reward: 137.55476059175683, Q Loss: 6823805.96875, Actor Loss: -103923.04345703125  
Episode 8751: Time: 0.22353577613830566, Total Reward: 128.5088258478075, Q Loss: 4615326.375, Actor Loss: -94322.07275390625  
Episode 8752: Time: 0.5060365200042725, Total Reward: 304.8887491637535, Q Loss: 12384468.21875, Actor Loss: -215488.1220703125  
Episode 8753: Time: 0.6245079040527344, Total Reward: 379.0228052906729, Q Loss: 15753410.40625, Actor Loss: -263577.7138671875  
Episode 8754: Time: 0.5651736259460449, Total Reward: 340.8565460696421, Q Loss: 14857991.2265625, Actor Loss: -237874.33935546875  
Episode 8755: Time: 0.312638521194458, Total Reward: 184.801351504354, Q Loss: 9166449.890625, Actor Loss: -131954.02294921875  
Episode 8756: Time: 0.7726619243621826, Total Reward: 473.3661203952042, Q Loss: 20578985.515625, Actor Loss: -326989.96435546875  
Episode 8757: Time: 0.9812793731689453, Total Reward: 601.1836099473181, Q Loss: 22977575.8203125, Actor Loss: -413941.17236328125  
Episode 8758: Time: 0.46154022216796875, Total Reward: 275.4085337281225, Q Loss: 12085005.21875, Actor Loss: -197517.01220703125  
Episode 8759: Time: 1.440979242324829, Total Reward: 893.4166568460528, Q Loss: 37362574.16796875, Actor Loss: -617707.2436523438  
Episode 8760: Time: 0.3871347904205322, Total Reward: 230.24603274777823, Q Loss: 11802934.1796875, Actor Loss: -161493.33740234375

Episode 8761: Time: 0.610234260559082, Total Reward: 370.42612446883413, Q Loss: 18369071.3046875, Actor Loss: -259102.93017578125  
Episode 8762: Time: 0.35742998123168945, Total Reward: 211.09228702303545, Q Loss: 9871615.625, Actor Loss: -155809.7841796875  
Episode 8763: Time: 0.4314844608306885, Total Reward: 259.65035014750765, Q Loss: 9799622.40625, Actor Loss: -189061.4208984375  
Episode 8764: Time: 0.1790761947631836, Total Reward: 100.09834609034888, Q Loss: 3846218.5625, Actor Loss: -78863.08251953125  
Episode 8765: Time: 0.3726673126220703, Total Reward: 221.68665599801807, Q Loss: 7872896.8359375, Actor Loss: -160229.33740234375  
Episode 8766: Time: 0.2533071041107178, Total Reward: 146.80708505542552, Q Loss: 6055189.84375, Actor Loss: -108446.6083984375  
Episode 8767: Time: 0.6844205856323242, Total Reward: 417.77942941128765, Q Loss: 18543691.8125, Actor Loss: -292379.28369140625  
Episode 8768: Time: 0.5208697319030762, Total Reward: 313.68840242352604, Q Loss: 14724903.859375, Actor Loss: -216146.20166015625  
Episode 8769: Time: 0.22356891632080078, Total Reward: 127.77226620343451, Q Loss: 5188449.5546875, Actor Loss: -95933.89697265625  
Episode 8770: Time: 0.25331735610961914, Total Reward: 147.50031263443285, Q Loss: 6664540.1796875, Actor Loss: -107378.7392578125  
Episode 8771: Time: 0.34299755096435547, Total Reward: 202.06298150813726, Q Loss: 9762426.5859375, Actor Loss: -146389.650390625  
Episode 8772: Time: 0.41686153411865234, Total Reward: 248.57951115739993, Q Loss: 10845567.296875, Actor Loss: -176385.005859375  
Episode 8773: Time: 0.25357818603515625, Total Reward: 147.03724851556663, Q Loss: 8010320.734375, Actor Loss: -111387.09716796875  
Episode 8774: Time: 0.13434123992919922, Total Reward: 72.49899866926582, Q Loss: 2633633.3671875, Actor Loss: -56427.64501953125  
Episode 8775: Time: 0.2983589172363281, Total Reward: 173.39823657968947, Q Loss: 5979908.984375, Actor Loss: -129784.138671875  
Episode 8776: Time: 0.5803937911987305, Total Reward: 350.41424879869504, Q Loss: 15839476.625, Actor Loss: -246569.4658203125  
Episode 8777: Time: 0.19373178482055664, Total Reward: 110.08790317737086, Q Loss: 4744797.796875, Actor Loss: -85430.06591796875  
Episode 8778: Time: 0.28490543365478516, Total Reward: 164.45790844332245, Q Loss: 6353475.46875, Actor Loss: -122147.169921875  
Episode 8779: Time: 0.4182100296020508, Total Reward: 248.7892153228608, Q Loss: 12098336.7734375, Actor Loss: -177275.81787109375  
Episode 8780: Time: 0.20939946174621582, Total Reward: 118.98312547683435, Q Loss: 4726045.65625, Actor Loss: -86460.50732421875  
Episode 8781: Time: 0.40297865867614746, Total Reward: 239.25625841549157, Q Loss: 10374655.2890625, Actor Loss: -175080.48046875  
Episode 8782: Time: 0.28370022773742676, Total Reward: 165.952713250322, Q Loss: 7278401.109375, Actor Loss: -126154.9453125  
Episode 8783: Time: 0.22380828857421875, Total Reward: 128.81370335360765, Q Loss: 5862466.4140625, Actor Loss: -91613.3359375  
Episode 8784: Time: 0.22403860092163086, Total Reward: 128.58568838383192, Q Loss: 5692468.265625, Actor Loss: -97190.1220703125  
Episode 8785: Time: 1.2497589588165283, Total Reward: 770.1878630354913, Q Loss: 32759942.078125, Actor Loss: -528588.3125  
Episode 8786: Time: 0.7433218955993652, Total Reward: 454.9565659193816, Q Loss: 19658927.5625, Actor Loss: -316358.25732421875  
Episode 8787: Time: 0.2090158462524414, Total Reward: 118.75255499576487, Q Loss: 4831323.6328125, Actor Loss: -90371.4345703125  
Episode 8788: Time: 0.4320218563079834, Total Reward: 257.9587398698706, Q Loss: 10596849.515625, Actor Loss: -186299.28955078125

Episode 8789: Time: 0.13430070877075195, Total Reward: 73.03691452403638, Q Loss: 3812804.078125, Actor Loss: -57823.9560546875  
Episode 8790: Time: 0.579918384552002, Total Reward: 351.798238258721, Q Loss: 15804928.625, Actor Loss: -253505.9580078125  
Episode 8791: Time: 0.13422393798828125, Total Reward: 72.70766855723001, Q Loss: 2824637.671875, Actor Loss: -57593.05517578125  
Episode 8792: Time: 0.4906880855560303, Total Reward: 296.80479627613346, Q Loss: 11696975.7421875, Actor Loss: -212000.861328125  
Episode 8793: Time: 0.5795996189117432, Total Reward: 352.21734434836765, Q Loss: 14154139.8515625, Actor Loss: -249490.60498046875  
Episode 8794: Time: 0.5214176177978516, Total Reward: 313.5016002690045, Q Loss: 11857102.78125, Actor Loss: -223363.2236328125  
Episode 8795: Time: 0.19364380836486816, Total Reward: 109.37538839995509, Q Loss: 8071307.828125, Actor Loss: -82619.28857421875  
Episode 8796: Time: 0.17917823791503906, Total Reward: 100.54064948920558, Q Loss: 5265923.0625, Actor Loss: -76961.4111328125  
Episode 8797: Time: 0.728482723236084, Total Reward: 445.13360504926806, Q Loss: 17617563.3203125, Actor Loss: -314755.81494140625  
Episode 8798: Time: 0.6700923442840576, Total Reward: 407.69003226151165, Q Loss: 16989457.296875, Actor Loss: -293131.6298828125  
Episode 8799: Time: 0.38767361640930176, Total Reward: 230.78866576104556, Q Loss: 11734107.8359375, Actor Loss: -169368.41015625  
Validation Mean: 9352.164847971222, Validation Std: 0.5933030573378533  
saving model  
Episode 8800: Time: 0.8895249366760254, Total Reward: 519.2142305068015, Q Loss: 21446824.78125, Actor Loss: -364245.1826171875  
Episode 8801: Time: 0.3901698589324951, Total Reward: 229.70619822455865, Q Loss: 9994554.4609375, Actor Loss: -169268.640625  
Episode 8802: Time: 0.47736263275146484, Total Reward: 285.47916237430496, Q Loss: 12033821.9140625, Actor Loss: -208728.29931640625  
Episode 8803: Time: 0.5214130878448486, Total Reward: 313.8037158388048, Q Loss: 13982471.625, Actor Loss: -227718.16357421875  
Episode 8804: Time: 0.32777976989746094, Total Reward: 193.91088121301308, Q Loss: 8144907.0859375, Actor Loss: -141010.86279296875  
Episode 8805: Time: 0.5802850723266602, Total Reward: 351.87534978790796, Q Loss: 17632555.8515625, Actor Loss: -252056.8076171875  
Episode 8806: Time: 0.2533111572265625, Total Reward: 147.43363458008048, Q Loss: 5264784.546875, Actor Loss: -110658.080078125  
Episode 8807: Time: 0.16428089141845703, Total Reward: 91.16217792774492, Q Loss: 4593219.671875, Actor Loss: -69686.3193359375  
Episode 8808: Time: 0.15041279792785645, Total Reward: 80.86795241437012, Q Loss: 3480652.71875, Actor Loss: -63327.541015625  
Episode 8809: Time: 0.37322282791137695, Total Reward: 220.0844578436723, Q Loss: 8157315.90625, Actor Loss: -162180.90771484375  
Episode 8810: Time: 0.29872608184814453, Total Reward: 175.7734833925606, Q Loss: 6452998.734375, Actor Loss: -130586.87890625  
Episode 8811: Time: 0.8347997665405273, Total Reward: 507.22608540419986, Q Loss: 24316531.703125, Actor Loss: -363090.9208984375  
Episode 8812: Time: 0.6850879192352295, Total Reward: 417.51578633587735, Q Loss: 18672321.03125, Actor Loss: -298464.85009765625  
Episode 8813: Time: 0.342944860458374, Total Reward: 202.72985379027614, Q Loss: 10336872.625, Actor Loss: -143183.62353515625  
Episode 8814: Time: 0.49105405807495117, Total Reward: 295.75906605370807, Q Loss: 10803358.9765625, Actor Loss: -209896.41674804688  
Episode 8815: Time: 0.31305456161499023, Total Reward: 184.88853663301475, Q Loss: 7911042.359375, Actor Loss: -133865.76123046875

Episode 8816: Time: 0.4909372329711914, Total Reward: 295.2517981682884, Q Loss: 12263189.96875, Actor Loss: -213988.02490234375  
Episode 8817: Time: 0.35797595977783203, Total Reward: 212.1648607178127, Q Loss: 8625217.90625, Actor Loss: -153428.05126953125  
Episode 8818: Time: 0.16394257545471191, Total Reward: 90.48756767581588, Q Loss: 3916215.0859375, Actor Loss: -70079.40185546875  
Episode 8819: Time: 0.5515151023864746, Total Reward: 332.09692662455046, Q Loss: 15332398.0625, Actor Loss: -237097.9033203125  
Episode 8820: Time: 0.5216200351715088, Total Reward: 314.6395837845489, Q Loss: 16515830.984375, Actor Loss: -229248.1923828125  
Episode 8821: Time: 0.4173891544342041, Total Reward: 247.56221079331226, Q Loss: 11116405.03125, Actor Loss: -180839.18115234375  
Episode 8822: Time: 0.597130298614502, Total Reward: 357.4415684046464, Q Loss: 15991392.1328125, Actor Loss: -262839.25830078125  
Episode 8823: Time: 0.38791394233703613, Total Reward: 230.53316393176925, Q Loss: 10640227.921875, Actor Loss: -166404.55029296875  
Episode 8824: Time: 0.521425724029541, Total Reward: 314.59216280373505, Q Loss: 16956070.96875, Actor Loss: -225314.02294921875  
Episode 8825: Time: 0.35883522033691406, Total Reward: 210.29422296083015, Q Loss: 9949486.265625, Actor Loss: -155930.4501953125  
Episode 8826: Time: 0.08979225158691406, Total Reward: 44.615826958828904, Q Loss: 2792775.484375, Actor Loss: -37907.46826171875  
Episode 8827: Time: 0.8785183429718018, Total Reward: 537.6909756585163, Q Loss: 21582544.3046875, Actor Loss: -390547.9873046875  
Episode 8828: Time: 0.8032994270324707, Total Reward: 490.1197058144085, Q Loss: 18470229.3984375, Actor Loss: -344229.18994140625  
Episode 8829: Time: 0.22393345832824707, Total Reward: 128.11084486577846, Q Loss: 5698167.1875, Actor Loss: -97725.46923828125  
Episode 8830: Time: 0.13448715209960938, Total Reward: 72.16656745603815, Q Loss: 3663970.78125, Actor Loss: -57386.162109375  
Episode 8831: Time: 0.3573122024536133, Total Reward: 210.81403196700006, Q Loss: 6811329.484375, Actor Loss: -158973.76708984375  
Episode 8832: Time: 0.5068438053131104, Total Reward: 303.8077774538951, Q Loss: 11204121.5, Actor Loss: -225709.09033203125  
Episode 8833: Time: 0.685002326965332, Total Reward: 416.3352537029826, Q Loss: 18592295.0, Actor Loss: -295242.41552734375  
Episode 8834: Time: 0.3881411552429199, Total Reward: 230.84717673411595, Q Loss: 10533535.421875, Actor Loss: -170825.1337890625  
Episode 8835: Time: 0.17917299270629883, Total Reward: 100.38814255171302, Q Loss: 3643008.671875, Actor Loss: -80137.4951171875  
Episode 8836: Time: 0.35822582244873047, Total Reward: 211.56223649959895, Q Loss: 8629670.96875, Actor Loss: -158999.3623046875  
Episode 8837: Time: 0.10447049140930176, Total Reward: 53.7127452555402, Q Loss: 3120423.6875, Actor Loss: -44533.92236328125  
Episode 8838: Time: 0.520958423614502, Total Reward: 314.4649885256968, Q Loss: 14814352.53125, Actor Loss: -227073.103515625  
Episode 8839: Time: 0.40207862854003906, Total Reward: 238.4251174399216, Q Loss: 10550971.78125, Actor Loss: -179559.61962890625  
Episode 8840: Time: 0.4612386226654053, Total Reward: 277.8704967621309, Q Loss: 12325669.234375, Actor Loss: -202565.3525390625  
Episode 8841: Time: 0.31267786026000977, Total Reward: 184.5877744353283, Q Loss: 8345577.015625, Actor Loss: -136249.341796875  
Episode 8842: Time: 0.2083587646484375, Total Reward: 118.78900467134036, Q Loss: 6636174.109375, Actor Loss: -88932.6748046875  
Episode 8843: Time: 0.32846641540527344, Total Reward: 191.29273797446314, Q Loss: 8347961.3984375, Actor Loss: -144695.44677734375

Episode 8844: Time: 0.3282456398010254, Total Reward: 192.82270411130804, Q Loss: 7380871.90625, Actor Loss: -144530.52880859375  
Episode 8845: Time: 0.8630187511444092, Total Reward: 527.8228943287912, Q Loss: 25342867.359375, Actor Loss: -387012.568359375  
Episode 8846: Time: 0.3283040523529053, Total Reward: 193.20522872088418, Q Loss: 12155832.84375, Actor Loss: -141591.642578125  
Episode 8847: Time: 0.46085143089294434, Total Reward: 276.069932545132, Q Loss: 11033918.8359375, Actor Loss: -209041.9287109375  
Episode 8848: Time: 0.3283700942993164, Total Reward: 193.56158217501797, Q Loss: 10389466.796875, Actor Loss: -146733.02587890625  
Episode 8849: Time: 1.0102226734161377, Total Reward: 621.333644979101, Q Loss: 28874040.2265625, Actor Loss: -448836.2080078125  
Episode 8850: Time: 0.2830312252044678, Total Reward: 165.5818417253504, Q Loss: 6524952.25, Actor Loss: -125293.38232421875  
Episode 8851: Time: 0.17890071868896484, Total Reward: 100.22293344959832, Q Loss: 6203341.375, Actor Loss: -80450.947265625  
Episode 8852: Time: 0.28306055068969727, Total Reward: 165.59588001231813, Q Loss: 6996308.65625, Actor Loss: -121425.52685546875  
Episode 8853: Time: 0.25392603874206543, Total Reward: 146.9058144397802, Q Loss: 5494086.125, Actor Loss: -114918.90576171875  
Episode 8854: Time: 0.25345540046691895, Total Reward: 147.5553804106894, Q Loss: 6462081.8359375, Actor Loss: -117026.19677734375  
Episode 8855: Time: 0.2684159278869629, Total Reward: 154.88478707326652, Q Loss: 5971351.171875, Actor Loss: -116617.00146484375  
Episode 8856: Time: 0.7582828998565674, Total Reward: 463.8183873142907, Q Loss: 20825940.3046875, Actor Loss: -340788.44287109375  
Episode 8857: Time: 0.19364547729492188, Total Reward: 108.58282652637543, Q Loss: 5286848.234375, Actor Loss: -87202.79150390625  
Episode 8858: Time: 0.5952243804931641, Total Reward: 360.17445595861767, Q Loss: 18077764.1015625, Actor Loss: -264113.26904296875  
Episode 8859: Time: 0.8007628917694092, Total Reward: 491.17040188348193, Q Loss: 21685298.6171875, Actor Loss: -351190.25048828125  
Episode 8860: Time: 0.1338789463043213, Total Reward: 72.57001282467532, Q Loss: 2844461.890625, Actor Loss: -63285.87841796875  
Episode 8861: Time: 0.43062591552734375, Total Reward: 259.0505742195153, Q Loss: 9320075.125, Actor Loss: -188991.61474609375  
Episode 8862: Time: 0.5798532962799072, Total Reward: 350.3630183470322, Q Loss: 13757699.9140625, Actor Loss: -259925.751953125  
Episode 8863: Time: 0.5055510997772217, Total Reward: 304.6793581815251, Q Loss: 15709968.703125, Actor Loss: -225556.01806640625  
Episode 8864: Time: 0.727912187576294, Total Reward: 445.2176973110788, Q Loss: 17694874.21875, Actor Loss: -327394.85498046875  
Episode 8865: Time: 0.6091883182525635, Total Reward: 368.77061621426, Q Loss: 16564412.625, Actor Loss: -273781.7578125  
Episode 8866: Time: 0.3274650573730469, Total Reward: 192.8726197325408, Q Loss: 8157511.7109375, Actor Loss: -148031.61962890625  
Episode 8867: Time: 0.6832308769226074, Total Reward: 415.70638516967375, Q Loss: 15889588.1640625, Actor Loss: -307569.23681640625  
Episode 8868: Time: 0.3717179298400879, Total Reward: 220.55486608784483, Q Loss: 9524689.96875, Actor Loss: -162485.98486328125  
Episode 8869: Time: 0.5655076503753662, Total Reward: 342.5312142718629, Q Loss: 14272730.1875, Actor Loss: -253362.54345703125  
Episode 8870: Time: 0.5212650299072266, Total Reward: 313.9793440397122, Q Loss: 12904571.40625, Actor Loss: -235465.3466796875  
Episode 8871: Time: 0.4756753444671631, Total Reward: 286.90928849346625, Q Loss: 14391009.6953125, Actor Loss: -210558.94482421875



Episode 8872: Time: 0.35718846321105957, Total Reward: 211.83049066568358, Q Loss: 7930740.21875, Actor Loss: -158028.4521484375  
Episode 8873: Time: 0.3870689868927002, Total Reward: 230.9400329758389, Q Loss: 11409421.3984375, Actor Loss: -172109.673828125  
Episode 8874: Time: 0.8765828609466553, Total Reward: 538.2664798915102, Q Loss: 26117726.3125, Actor Loss: -396868.087890625  
Episode 8875: Time: 0.37156081199645996, Total Reward: 219.82254152132398, Q Loss: 10172096.2890625, Actor Loss: -169648.09814453125  
Episode 8876: Time: 0.4913358688354492, Total Reward: 295.59023539006824, Q Loss: 15065823.859375, Actor Loss: -221294.77685546875  
Episode 8877: Time: 0.44593000411987305, Total Reward: 264.91837151225326, Q Loss: 11510642.4375, Actor Loss: -197359.69482421875  
Episode 8878: Time: 0.610335111618042, Total Reward: 368.65597325934806, Q Loss: 13760106.7578125, Actor Loss: -275451.08642578125  
Episode 8879: Time: 1.482823371887207, Total Reward: 919.8137555801459, Q Loss: 39049607.546875, Actor Loss: -661046.0947265625  
Episode 8880: Time: 0.4465951919555664, Total Reward: 267.63486908201554, Q Loss: 13167068.09375, Actor Loss: -199233.72607421875  
Episode 8881: Time: 0.3716545104980469, Total Reward: 221.27902447950743, Q Loss: 12181934.28125, Actor Loss: -166766.6787109375  
Episode 8882: Time: 0.38678789138793945, Total Reward: 230.86603440724002, Q Loss: 10796822.8671875, Actor Loss: -174754.26513671875  
Episode 8883: Time: 0.6088430881500244, Total Reward: 369.2028936497754, Q Loss: 19243942.65625, Actor Loss: -275589.62841796875  
Episode 8884: Time: 0.757340669631958, Total Reward: 464.06064797305436, Q Loss: 21052117.4453125, Actor Loss: -338993.9130859375  
Episode 8885: Time: 1.1717212200164795, Total Reward: 724.4758910385431, Q Loss: 31800907.171875, Actor Loss: -515988.73046875  
Episode 8886: Time: 1.4523160457611084, Total Reward: 901.0500801057626, Q Loss: 43529672.9453125, Actor Loss: -657795.2319335938  
Episode 8887: Time: 0.5343642234802246, Total Reward: 324.6413988590255, Q Loss: 13710983.234375, Actor Loss: -240253.8271484375  
Episode 8888: Time: 0.5639126300811768, Total Reward: 343.0636695659041, Q Loss: 15406466.34375, Actor Loss: -260385.5703125  
Episode 8889: Time: 1.0668549537658691, Total Reward: 657.9979331527112, Q Loss: 30194873.7265625, Actor Loss: -476163.41064453125  
Episode 8890: Time: 0.14866232872009277, Total Reward: 82.17366842520009, Q Loss: 3740450.1953125, Actor Loss: -64951.93505859375  
Episode 8891: Time: 0.3271193504333496, Total Reward: 193.5606127184849, Q Loss: 9950933.734375, Actor Loss: -148101.2861328125  
Episode 8892: Time: 0.31305742263793945, Total Reward: 184.66328492142813, Q Loss: 8621418.921875, Actor Loss: -136336.1904296875  
Episode 8893: Time: 0.40159130096435547, Total Reward: 239.89510720191402, Q Loss: 11094832.671875, Actor Loss: -178920.48486328125  
Episode 8894: Time: 0.2829732894897461, Total Reward: 165.31443763834682, Q Loss: 6545276.3125, Actor Loss: -129422.615234375  
Episode 8895: Time: 0.5500342845916748, Total Reward: 333.8096435656832, Q Loss: 16849898.1015625, Actor Loss: -244698.75146484375  
Episode 8896: Time: 0.5645656585693359, Total Reward: 341.8753415061522, Q Loss: 16683036.0078125, Actor Loss: -259535.8828125  
Episode 8897: Time: 0.5495996475219727, Total Reward: 333.81159070624716, Q Loss: 15768724.0625, Actor Loss: -243815.23291015625  
Episode 8898: Time: 0.3564310073852539, Total Reward: 211.80359744559524, Q Loss: 9427061.0, Actor Loss: -162059.0068359375  
Episode 8899: Time: 0.35636115074157715, Total Reward: 212.67782304062075, Q Loss: 9868888.28125, Actor Loss: -161951.95947265625

Validation Mean: 9352.672399383267, Validation Std: 0.8884756114659635

saving model

Episode 8900: Time: 0.4478645324707031, Total Reward: 267.1837749987649, Q Loss: 13690501.2578125, Actor Loss: -204342.89404296875  
Episode 8901: Time: 0.5343492031097412, Total Reward: 324.2447315858738, Q Loss: 14743745.4296875, Actor Loss: -240239.9990234375  
Episode 8902: Time: 1.0383410453796387, Total Reward: 639.7408977228234, Q Loss: 32482835.1796875, Actor Loss: -476670.09716796875  
Episode 8903: Time: 0.4311976432800293, Total Reward: 257.7442884318353, Q Loss: 11748623.796875, Actor Loss: -195013.705078125  
Episode 8904: Time: 0.14865970611572266, Total Reward: 81.94181207833546, Q Loss: 5736961.09375, Actor Loss: -64485.34912109375  
Episode 8905: Time: 0.5649111270904541, Total Reward: 342.0161673448145, Q Loss: 17747123.4375, Actor Loss: -258810.45166015625  
Episode 8906: Time: 0.5931851863861084, Total Reward: 359.44810610890187, Q Loss: 17391521.296875, Actor Loss: -266943.40869140625  
Episode 8907: Time: 0.2827413082122803, Total Reward: 166.1014880889218, Q Loss: 7706644.71875, Actor Loss: -125292.681640625  
Episode 8908: Time: 0.6381978988647461, Total Reward: 388.1629912875792, Q Loss: 16976620.859375, Actor Loss: -288375.99365234375  
Episode 8909: Time: 0.771930456161499, Total Reward: 471.8234151543079, Q Loss: 23790675.109375, Actor Loss: -359348.99462890625  
Episode 8910: Time: 0.3722820281982422, Total Reward: 220.79282957323593, Q Loss: 12000146.125, Actor Loss: -168729.91259765625  
Episode 8911: Time: 0.5051479339599609, Total Reward: 305.3680556706738, Q Loss: 14008682.0, Actor Loss: -226615.619140625  
Episode 8912: Time: 0.7135069370269775, Total Reward: 434.65349959888647, Q Loss: 20915147.203125, Actor Loss: -328704.2138671875  
Episode 8913: Time: 0.22352814674377441, Total Reward: 128.88165491530734, Q Loss: 7012463.6015625, Actor Loss: -102638.546875  
Episode 8914: Time: 0.43091344833374023, Total Reward: 258.52365835857495, Q Loss: 12249437.78125, Actor Loss: -195685.69873046875  
Episode 8915: Time: 1.024214744567871, Total Reward: 631.6560065315771, Q Loss: 28000445.2265625, Actor Loss: -480325.30029296875  
Episode 8916: Time: 0.2530643939971924, Total Reward: 147.46808002282742, Q Loss: 5435939.109375, Actor Loss: -116021.3408203125  
Episode 8917: Time: 0.4609084129333496, Total Reward: 276.738842681182, Q Loss: 12945328.421875, Actor Loss: -204689.0576171875  
Episode 8918: Time: 0.4011037349700928, Total Reward: 236.58858115572286, Q Loss: 10929475.34375, Actor Loss: -184657.82177734375  
Episode 8919: Time: 0.26770567893981934, Total Reward: 155.89447270256707, Q Loss: 8011529.046875, Actor Loss: -122950.01953125  
Episode 8920: Time: 0.3568739891052246, Total Reward: 212.73680030996357, Q Loss: 10744835.9453125, Actor Loss: -160437.541015625  
Episode 8921: Time: 0.7431488037109375, Total Reward: 454.9570633282654, Q Loss: 23720383.953125, Actor Loss: -346743.12841796875  
Episode 8922: Time: 0.28241729736328125, Total Reward: 165.4531058041661, Q Loss: 8743173.84375, Actor Loss: -127454.77734375  
Episode 8923: Time: 0.8758068084716797, Total Reward: 536.5735048735635, Q Loss: 24510495.3125, Actor Loss: -394911.90283203125  
Episode 8924: Time: 0.19295358657836914, Total Reward: 109.76602060699999, Q Loss: 5233713.359375, Actor Loss: -89500.50390625  
Episode 8925: Time: 0.13404297828674316, Total Reward: 72.17124226421313, Q Loss: 6028088.53125, Actor Loss: -60865.908203125  
Episode 8926: Time: 0.4905421733856201, Total Reward: 291.9036323984162, Q Loss: 13814306.875, Actor Loss: -229577.2470703125

Episode 8927: Time: 0.6385166645050049, Total Reward: 389.2959336447569, Q Loss: 17684021.328125, Actor Loss: -295316.77685546875  
Episode 8928: Time: 0.5943427085876465, Total Reward: 361.12619534111326, Q Loss: 17020178.65625, Actor Loss: -273244.67919921875  
Episode 8929: Time: 0.20844721794128418, Total Reward: 119.42116695346762, Q Loss: 5733648.671875, Actor Loss: -98128.90185546875  
Episode 8930: Time: 1.082719326019287, Total Reward: 669.118998157091, Q Loss: 30444403.5390625, Actor Loss: -497110.5439453125  
Episode 8931: Time: 0.35726284980773926, Total Reward: 211.01065140219632, Q Loss: 9544491.0546875, Actor Loss: -165613.71826171875  
Episode 8932: Time: 0.5194170475006104, Total Reward: 315.3222187342066, Q Loss: 14067822.8828125, Actor Loss: -238969.533203125  
Episode 8933: Time: 0.4155590534210205, Total Reward: 249.12407776721116, Q Loss: 13958056.015625, Actor Loss: -194121.79296875  
Episode 8934: Time: 0.45975232124328613, Total Reward: 275.98652942182963, Q Loss: 13429261.90625, Actor Loss: -209718.85595703125  
Episode 8935: Time: 0.6236453056335449, Total Reward: 378.7436513245762, Q Loss: 16347782.40625, Actor Loss: -284439.447265625  
Episode 8936: Time: 0.134385347366333, Total Reward: 71.92619287891249, Q Loss: 3516127.421875, Actor Loss: -62077.033203125  
Episode 8937: Time: 0.2675168514251709, Total Reward: 155.6907557793329, Q Loss: 7574272.2265625, Actor Loss: -120826.7822265625  
Episode 8938: Time: 1.0818052291870117, Total Reward: 667.6504683475565, Q Loss: 30480126.0546875, Actor Loss: -501902.64794921875  
Episode 8939: Time: 0.2382216453552246, Total Reward: 137.77576495227171, Q Loss: 8891244.3125, Actor Loss: -108842.3486328125  
Episode 8940: Time: 0.9938557147979736, Total Reward: 610.4808694128432, Q Loss: 26508075.6328125, Actor Loss: -457408.5888671875  
Episode 8941: Time: 0.6533646583557129, Total Reward: 398.2628284379804, Q Loss: 19062673.1484375, Actor Loss: -308461.2333984375  
Episode 8942: Time: 0.3563344478607178, Total Reward: 210.88982369800016, Q Loss: 10177380.9921875, Actor Loss: -160571.67333984375  
Episode 8943: Time: 0.22350740432739258, Total Reward: 128.71044692353468, Q Loss: 7786795.640625, Actor Loss: -106295.6015625  
Episode 8944: Time: 0.35660362243652344, Total Reward: 210.17954643244943, Q Loss: 11949190.953125, Actor Loss: -172110.9521484375  
Episode 8945: Time: 0.19286537170410156, Total Reward: 109.66707273540531, Q Loss: 7802410.0625, Actor Loss: -89415.47900390625  
Episode 8946: Time: 0.43019723892211914, Total Reward: 256.2175415610352, Q Loss: 12891273.3125, Actor Loss: -198652.6103515625  
Episode 8947: Time: 0.16336798667907715, Total Reward: 90.54904834990086, Q Loss: 4831305.796875, Actor Loss: -73337.20751953125  
Episode 8948: Time: 0.3267648220062256, Total Reward: 192.35744851795587, Q Loss: 7952197.6171875, Actor Loss: -148595.384765625  
Episode 8949: Time: 0.23761582374572754, Total Reward: 138.44788520511094, Q Loss: 5959683.265625, Actor Loss: -107445.9091796875  
Episode 8950: Time: 0.8747434616088867, Total Reward: 538.2672002393653, Q Loss: 24492885.40625, Actor Loss: -399161.25146484375  
Episode 8951: Time: 0.29700255393981934, Total Reward: 173.7958655690743, Q Loss: 9356079.25, Actor Loss: -140962.1611328125  
Episode 8952: Time: 0.44527149200439453, Total Reward: 268.1654992656155, Q Loss: 13629182.7421875, Actor Loss: -207786.619140625  
Episode 8953: Time: 0.29849672317504883, Total Reward: 175.0981543988411, Q Loss: 9752234.0859375, Actor Loss: -133147.9443359375  
Episode 8954: Time: 0.536463737487793, Total Reward: 323.62411054658, Q Loss: 12969101.2890625, Actor Loss: -248771.5419921875

Episode 8955: Time: 0.5051925182342529, Total Reward: 304.3612781098024, Q Loss: 18485592.75, Actor Loss: -235341.95263671875  
Episode 8956: Time: 0.7123124599456787, Total Reward: 436.04734570810854, Q Loss: 17256812.15625, Actor Loss: -333812.9423828125  
Episode 8957: Time: 0.17843365669250488, Total Reward: 99.24034976038728, Q Loss: 5839944.984375, Actor Loss: -83223.72802734375  
Episode 8958: Time: 0.5046892166137695, Total Reward: 306.03038269883194, Q Loss: 14565903.0546875, Actor Loss: -231433.625  
Episode 8959: Time: 0.3709385395050049, Total Reward: 221.18028608230074, Q Loss: 11964227.109375, Actor Loss: -165924.19921875  
Episode 8960: Time: 1.0984113216400146, Total Reward: 677.870795446333, Q Loss: 31929857.421875, Actor Loss: -509902.01611328125  
Episode 8961: Time: 0.5336647033691406, Total Reward: 323.6223011340295, Q Loss: 14301169.296875, Actor Loss: -246538.92626953125  
Episode 8962: Time: 0.3417847156524658, Total Reward: 203.3698056467203, Q Loss: 8872768.109375, Actor Loss: -158069.07763671875  
Episode 8963: Time: 0.5190143585205078, Total Reward: 314.5454340562836, Q Loss: 13054568.84375, Actor Loss: -237012.15625  
Episode 8964: Time: 0.13381528854370117, Total Reward: 72.17980899185005, Q Loss: 3535384.4609375, Actor Loss: -62788.59716796875  
Episode 8965: Time: 0.23799538612365723, Total Reward: 137.40344076524903, Q Loss: 6501137.8984375, Actor Loss: -109474.8037109375  
Episode 8966: Time: 0.5777895450592041, Total Reward: 352.2307665134318, Q Loss: 14753800.328125, Actor Loss: -271670.20458984375  
Episode 8967: Time: 0.17842340469360352, Total Reward: 100.45600269666451, Q Loss: 5332473.171875, Actor Loss: -83247.78759765625  
Episode 8968: Time: 0.08968544006347656, Total Reward: 44.18536588245871, Q Loss: 2419071.8125, Actor Loss: -42897.4619140625  
Episode 8969: Time: 0.5335903167724609, Total Reward: 322.80784921525674, Q Loss: 14672857.359375, Actor Loss: -251998.380859375  
Episode 8970: Time: 0.4742429256439209, Total Reward: 287.2263967002671, Q Loss: 15150309.734375, Actor Loss: -218957.31298828125  
Episode 8971: Time: 0.607158899307251, Total Reward: 371.2565079499258, Q Loss: 19314893.953125, Actor Loss: -291995.728515625  
Episode 8972: Time: 0.4889092445373535, Total Reward: 294.04328732901416, Q Loss: 15836580.84375, Actor Loss: -231416.15625  
Episode 8973: Time: 0.6075859069824219, Total Reward: 370.8875115398526, Q Loss: 19758181.71875, Actor Loss: -290740.90576171875  
Episode 8974: Time: 0.4152262210845947, Total Reward: 249.26948259425578, Q Loss: 16243065.59375, Actor Loss: -194270.5517578125  
Episode 8975: Time: 0.8748140335083008, Total Reward: 538.1446784232331, Q Loss: 30887348.375, Actor Loss: -413081.69287109375  
Episode 8976: Time: 0.9939441680908203, Total Reward: 610.57831035622, Q Loss: 28047364.015625, Actor Loss: -471937.29833984375  
Episode 8977: Time: 0.5345113277435303, Total Reward: 323.7044398748093, Q Loss: 17923271.015625, Actor Loss: -249097.6376953125  
Episode 8978: Time: 0.37127685546875, Total Reward: 220.03451980045972, Q Loss: 11218741.6171875, Actor Loss: -174281.90380859375  
Episode 8979: Time: 0.14850902557373047, Total Reward: 82.19085030556076, Q Loss: 4729442.75, Actor Loss: -70287.146484375  
Episode 8980: Time: 0.6676647663116455, Total Reward: 407.90553556175377, Q Loss: 19339609.4375, Actor Loss: -317356.72900390625  
Episode 8981: Time: 0.8300108909606934, Total Reward: 505.28774508177304, Q Loss: 24900395.640625, Actor Loss: -387354.39697265625  
Episode 8982: Time: 0.28246402740478516, Total Reward: 165.48142910778338, Q Loss: 7539570.9375, Actor Loss: -128625.82373046875

Episode 8983: Time: 0.5203022956848145, Total Reward: 314.41737397000026, Q Loss: 16756114.234375, Actor Loss: -238477.69775390625  
Episode 8984: Time: 0.19342327117919922, Total Reward: 109.53134232967663, Q Loss: 4518579.765625, Actor Loss: -90877.41796875  
Episode 8985: Time: 0.25394272804260254, Total Reward: 147.39628224473006, Q Loss: 7547241.375, Actor Loss: -116774.55322265625  
Episode 8986: Time: 0.6244804859161377, Total Reward: 379.6076540488643, Q Loss: 16089586.984375, Actor Loss: -295749.0341796875  
Episode 8987: Time: 0.22345590591430664, Total Reward: 128.55845678413084, Q Loss: 6103594.65625, Actor Loss: -101990.25927734375  
Episode 8988: Time: 0.490694522857666, Total Reward: 295.740424052934, Q Loss: 10540954.28125, Actor Loss: -230588.56884765625  
Episode 8989: Time: 0.5504200458526611, Total Reward: 332.5311897927384, Q Loss: 15220129.46875, Actor Loss: -258224.93701171875  
Episode 8990: Time: 0.41635608673095703, Total Reward: 250.21651670972417, Q Loss: 12060411.8203125, Actor Loss: -185617.20556640625  
Episode 8991: Time: 0.17889976501464844, Total Reward: 100.94214836694758, Q Loss: 4247310.40625, Actor Loss: -84681.41748046875  
Episode 8992: Time: 0.1344597339630127, Total Reward: 72.53556352496406, Q Loss: 4228673.1953125, Actor Loss: -63977.0341796875  
Episode 8993: Time: 0.5943927764892578, Total Reward: 361.65834733730225, Q Loss: 17535172.15625, Actor Loss: -275847.1005859375  
Episode 8994: Time: 0.35703587532043457, Total Reward: 212.0484380733433, Q Loss: 14394954.796875, Actor Loss: -167658.228515625  
Episode 8995: Time: 0.14896440505981445, Total Reward: 81.83603094865362, Q Loss: 4414799.53125, Actor Loss: -74398.8125  
Episode 8996: Time: 0.4754931926727295, Total Reward: 285.50459913913835, Q Loss: 11107192.71875, Actor Loss: -225809.78857421875  
Episode 8997: Time: 0.5949304103851318, Total Reward: 359.2860816643063, Q Loss: 16721962.7734375, Actor Loss: -273947.298828125  
Episode 8998: Time: 0.29814600944519043, Total Reward: 174.5452252707874, Q Loss: 9543385.78125, Actor Loss: -140362.357421875  
Episode 8999: Time: 0.3126528263092041, Total Reward: 181.9934244139613, Q Loss: 9421817.96875, Actor Loss: -146045.419921875  
Validation Mean: 9351.259053752567, Validation Std: 0.9889429892080216  
saving model  
Episode 9000: Time: 0.4039621353149414, Total Reward: 238.40556682423696, Q Loss: 11527943.5390625, Actor Loss: -185969.498046875  
Episode 9001: Time: 0.28322529792785645, Total Reward: 164.8478074530486, Q Loss: 9378551.8828125, Actor Loss: -131384.5625  
Episode 9002: Time: 0.5362520217895508, Total Reward: 323.4958327905555, Q Loss: 16494576.375, Actor Loss: -255665.97216796875  
Episode 9003: Time: 0.5813567638397217, Total Reward: 351.3152185881395, Q Loss: 18414298.1171875, Actor Loss: -274464.70849609375  
Episode 9004: Time: 0.6546826362609863, Total Reward: 396.9272206588176, Q Loss: 22484182.125, Actor Loss: -307706.185546875  
Episode 9005: Time: 0.3282337188720703, Total Reward: 192.88921086977209, Q Loss: 10230771.875, Actor Loss: -154945.826171875  
Episode 9006: Time: 0.6099305152893066, Total Reward: 371.2487170592243, Q Loss: 18238830.1875, Actor Loss: -287855.86474609375  
Episode 9007: Time: 0.4018564224243164, Total Reward: 240.42034370001826, Q Loss: 13131415.578125, Actor Loss: -188513.55712890625  
Episode 9008: Time: 0.4465057849884033, Total Reward: 267.99844809532453, Q Loss: 14518542.0546875, Actor Loss: -208759.15087890625  
Episode 9009: Time: 0.19370341300964355, Total Reward: 109.82372687945806, Q Loss: 5733982.609375, Actor Loss: -89643.80712890625

Episode 9010: Time: 0.461810827255249, Total Reward: 273.91226384715657, Q Loss: 12954580.8515625, Actor Loss: -221379.87939453125  
Episode 9011: Time: 0.6694700717926025, Total Reward: 406.39294044093253, Q Loss: 24238341.71875, Actor Loss: -319042.0263671875  
Episode 9012: Time: 1.0858447551727295, Total Reward: 666.3046435811203, Q Loss: 35719839.7265625, Actor Loss: -508949.35009765625  
Episode 9013: Time: 0.3580131530761719, Total Reward: 212.090670009816, Q Loss: 12597941.875, Actor Loss: -167016.54541015625  
Episode 9014: Time: 0.4177730083465576, Total Reward: 247.75553327491997, Q Loss: 14045248.234375, Actor Loss: -193757.61376953125  
Episode 9015: Time: 0.3423459529876709, Total Reward: 203.25512778349358, Q Loss: 15154553.5, Actor Loss: -157805.501953125  
Episode 9016: Time: 0.5204777717590332, Total Reward: 315.0605316065797, Q Loss: 14987194.140625, Actor Loss: -253078.10791015625  
Episode 9017: Time: 0.34224605560302734, Total Reward: 202.43205225966182, Q Loss: 10542901.984375, Actor Loss: -159138.93798828125  
Episode 9018: Time: 0.35747504234313965, Total Reward: 212.0254300611002, Q Loss: 9767405.515625, Actor Loss: -172369.82177734375  
Episode 9019: Time: 0.4311704635620117, Total Reward: 258.9091865909154, Q Loss: 13816661.3203125, Actor Loss: -208488.3466796875  
Episode 9020: Time: 0.2380681037902832, Total Reward: 137.90270469309263, Q Loss: 5789678.3515625, Actor Loss: -112897.68994140625  
Episode 9021: Time: 0.6229674816131592, Total Reward: 380.30929098713455, Q Loss: 17910010.296875, Actor Loss: -295393.875  
Episode 9022: Time: 0.11905336380004883, Total Reward: 62.6212519226502, Q Loss: 3928957.28125, Actor Loss: -58652.7275390625  
Episode 9023: Time: 0.4309227466583252, Total Reward: 256.9375361686312, Q Loss: 13061001.875, Actor Loss: -208297.45166015625  
Episode 9024: Time: 1.1863443851470947, Total Reward: 733.935384355844, Q Loss: 35935392.890625, Actor Loss: -565538.0600585938  
Episode 9025: Time: 0.3128795623779297, Total Reward: 184.50434596669766, Q Loss: 10082803.421875, Actor Loss: -147638.2412109375  
Episode 9026: Time: 0.25316858291625977, Total Reward: 147.1648773910389, Q Loss: 9554437.6875, Actor Loss: -116620.271484375  
Episode 9027: Time: 0.4615626335144043, Total Reward: 277.2858965715484, Q Loss: 12688255.359375, Actor Loss: -218364.36328125  
Episode 9028: Time: 0.7738077640533447, Total Reward: 472.8798808418657, Q Loss: 21494733.4609375, Actor Loss: -361369.826171875  
Episode 9029: Time: 0.6832239627838135, Total Reward: 417.5991833086007, Q Loss: 20830320.5, Actor Loss: -324392.1669921875  
Episode 9030: Time: 0.6977777481079102, Total Reward: 426.3638701613842, Q Loss: 21409848.5859375, Actor Loss: -337607.06005859375  
Episode 9031: Time: 1.0530362129211426, Total Reward: 650.1603151862486, Q Loss: 29212454.515625, Actor Loss: -503940.89697265625  
Episode 9032: Time: 0.5045528411865234, Total Reward: 303.5910718467761, Q Loss: 12628447.015625, Actor Loss: -243701.947265625  
Episode 9033: Time: 0.2231311798095703, Total Reward: 128.64786383012526, Q Loss: 7468061.734375, Actor Loss: -107105.7353515625  
Episode 9034: Time: 0.40090227127075195, Total Reward: 239.5458576642769, Q Loss: 13276726.75, Actor Loss: -195337.3837890625  
Episode 9035: Time: 0.19316601753234863, Total Reward: 109.62219575048213, Q Loss: 7573515.4140625, Actor Loss: -95718.1083984375  
Episode 9036: Time: 0.4310476779937744, Total Reward: 258.28272331264316, Q Loss: 14793748.375, Actor Loss: -206675.07861328125  
Episode 9037: Time: 0.8015568256378174, Total Reward: 491.4865617042335, Q Loss: 24874969.765625, Actor Loss: -389814.53857421875

Episode 9038: Time: 0.28194665908813477, Total Reward: 165.96228001326352, Q Loss: 11227399.78125, Actor Loss: -140365.28564453125  
Episode 9039: Time: 0.41596508026123047, Total Reward: 248.6608682589928, Q Loss: 10611408.109375, Actor Loss: -204179.01806640625  
Episode 9040: Time: 0.34122157096862793, Total Reward: 202.67910757701262, Q Loss: 8594812.859375, Actor Loss: -163575.65380859375  
Episode 9041: Time: 0.2378218173980713, Total Reward: 138.46552339466365, Q Loss: 5292019.4375, Actor Loss: -114944.03955078125  
Episode 9042: Time: 0.6526610851287842, Total Reward: 398.18825891454173, Q Loss: 21328839.7734375, Actor Loss: -313035.244140625  
Episode 9043: Time: 1.352217197418213, Total Reward: 835.9264588950106, Q Loss: 43751954.90625, Actor Loss: -653231.3359375  
Episode 9044: Time: 0.41549086570739746, Total Reward: 248.61626940634048, Q Loss: 14084056.8046875, Actor Loss: -198939.87109375  
Episode 9045: Time: 0.22269868850708008, Total Reward: 128.8611192155066, Q Loss: 6985259.5625, Actor Loss: -103747.35595703125  
Episode 9046: Time: 0.4155550003051758, Total Reward: 249.70677058561975, Q Loss: 11007752.515625, Actor Loss: -203007.5439453125  
Episode 9047: Time: 0.6525633335113525, Total Reward: 395.4687168813559, Q Loss: 21745413.609375, Actor Loss: -309345.23876953125  
Episode 9048: Time: 0.23732542991638184, Total Reward: 137.817939834783, Q Loss: 6014821.578125, Actor Loss: -113644.96728515625  
Episode 9049: Time: 0.267179012298584, Total Reward: 156.33572569662215, Q Loss: 6967218.890625, Actor Loss: -128016.61865234375  
Episode 9050: Time: 0.6969029903411865, Total Reward: 426.49596370507277, Q Loss: 21765597.15625, Actor Loss: -337003.796875  
Episode 9051: Time: 0.43044018745422363, Total Reward: 258.3862037283491, Q Loss: 10760457.2421875, Actor Loss: -211957.17138671875  
Episode 9052: Time: 0.2230701446533203, Total Reward: 127.6523419776466, Q Loss: 6355718.609375, Actor Loss: -105736.22998046875  
Episode 9053: Time: 0.7566714286804199, Total Reward: 461.94179161233734, Q Loss: 26554878.421875, Actor Loss: -373224.86962890625  
Episode 9054: Time: 0.6085937023162842, Total Reward: 369.848592581198, Q Loss: 18521770.8203125, Actor Loss: -286277.470703125  
Episode 9055: Time: 0.3711404800415039, Total Reward: 221.77608011600893, Q Loss: 9471402.5703125, Actor Loss: -175181.06298828125  
Episode 9056: Time: 0.44534850120544434, Total Reward: 267.1392039036503, Q Loss: 12405216.1640625, Actor Loss: -217225.521484375  
Episode 9057: Time: 0.34110283851623535, Total Reward: 201.09593072281098, Q Loss: 9225007.2109375, Actor Loss: -166457.71142578125  
Episode 9058: Time: 0.1781749725341797, Total Reward: 100.02415405324733, Q Loss: 5586598.515625, Actor Loss: -82892.92138671875  
Episode 9059: Time: 0.1639115810394287, Total Reward: 90.9259569694171, Q Loss: 4822824.890625, Actor Loss: -82380.5166015625  
Episode 9060: Time: 0.38556504249572754, Total Reward: 228.74058088396643, Q Loss: 11358153.703125, Actor Loss: -185576.8408203125  
Episode 9061: Time: 0.9779415130615234, Total Reward: 602.0561965246934, Q Loss: 30246727.53125, Actor Loss: -473974.04443359375  
Episode 9062: Time: 0.5638670921325684, Total Reward: 341.21330417157753, Q Loss: 17132307.3515625, Actor Loss: -271880.67041015625  
Episode 9063: Time: 0.5189170837402344, Total Reward: 314.01156261052165, Q Loss: 19139286.421875, Actor Loss: -252555.20556640625  
Episode 9064: Time: 0.23788142204284668, Total Reward: 137.86243503118246, Q Loss: 6582300.140625, Actor Loss: -116563.68408203125  
Episode 9065: Time: 0.5481224060058594, Total Reward: 332.6367536047546, Q Loss: 19635985.1875, Actor Loss: -275083.67431640625

Episode 9066: Time: 0.3709092140197754, Total Reward: 220.54755452069318, Q Loss: 11250145.171875, Actor Loss: -180113.67431640625  
Episode 9067: Time: 0.28212451934814453, Total Reward: 165.3317306616847, Q Loss: 8020836.40625, Actor Loss: -136683.6904296875  
Episode 9068: Time: 0.5042729377746582, Total Reward: 306.4519540438982, Q Loss: 15988550.171875, Actor Loss: -241432.3388671875  
Episode 9069: Time: 0.5633745193481445, Total Reward: 343.2749386651876, Q Loss: 19632205.25, Actor Loss: -268471.8330078125  
Episode 9070: Time: 0.20833563804626465, Total Reward: 119.37561204658928, Q Loss: 6497769.9609375, Actor Loss: -97026.2529296875  
Episode 9071: Time: 0.4598844051361084, Total Reward: 277.37604185526897, Q Loss: 14092879.7109375, Actor Loss: -226106.6669921875  
Episode 9072: Time: 0.3712468147277832, Total Reward: 219.1110744473724, Q Loss: 12031296.40625, Actor Loss: -174129.75390625  
Episode 9073: Time: 0.22300219535827637, Total Reward: 128.86575835683502, Q Loss: 6104661.4375, Actor Loss: -107956.20947265625  
Episode 9074: Time: 1.2158160209655762, Total Reward: 751.3202473645932, Q Loss: 33749907.28125, Actor Loss: -583976.9135742188  
Episode 9075: Time: 0.2819082736968994, Total Reward: 166.20158872786257, Q Loss: 11753768.4375, Actor Loss: -137705.61572265625  
Episode 9076: Time: 0.3712155818939209, Total Reward: 220.16529967562968, Q Loss: 9191866.484375, Actor Loss: -182220.693359375  
Episode 9077: Time: 0.7119882106781006, Total Reward: 436.1756663980482, Q Loss: 18269950.578125, Actor Loss: -346198.34033203125  
Episode 9078: Time: 0.6373114585876465, Total Reward: 388.1548070459791, Q Loss: 17305214.6640625, Actor Loss: -310069.5302734375  
Episode 9079: Time: 0.14844417572021484, Total Reward: 81.52950524097457, Q Loss: 5711862.375, Actor Loss: -68931.5693359375  
Episode 9080: Time: 0.7422022819519043, Total Reward: 452.75388343353507, Q Loss: 22765015.6875, Actor Loss: -362224.87646484375  
Episode 9081: Time: 0.7264306545257568, Total Reward: 446.01245195763573, Q Loss: 26413766.671875, Actor Loss: -357881.53515625  
Episode 9082: Time: 0.19342398643493652, Total Reward: 110.28858438502749, Q Loss: 5766718.90625, Actor Loss: -93692.9482421875  
Episode 9083: Time: 0.4156651496887207, Total Reward: 249.54482772105573, Q Loss: 14126370.3515625, Actor Loss: -200776.4775390625  
Episode 9084: Time: 0.3565497398376465, Total Reward: 210.54963830782629, Q Loss: 12517523.875, Actor Loss: -174967.77587890625  
Episode 9085: Time: 0.7267444133758545, Total Reward: 441.6764558875651, Q Loss: 22863124.4375, Actor Loss: -358102.00146484375  
Episode 9086: Time: 0.2675778865814209, Total Reward: 156.03479738409305, Q Loss: 12085386.75, Actor Loss: -131263.70556640625  
Episode 9087: Time: 0.5944983959197998, Total Reward: 360.9938297171253, Q Loss: 17117226.84375, Actor Loss: -292469.34228515625  
Episode 9088: Time: 0.5642943382263184, Total Reward: 341.58781109418345, Q Loss: 20027616.9375, Actor Loss: -272206.21728515625  
Episode 9089: Time: 0.10427069664001465, Total Reward: 53.988743980367964, Q Loss: 4710413.09375, Actor Loss: -53373.72802734375  
Episode 9090: Time: 0.5061545372009277, Total Reward: 303.43093019298567, Q Loss: 14262358.7109375, Actor Loss: -246113.0361328125  
Episode 9091: Time: 0.23816823959350586, Total Reward: 137.02341987465937, Q Loss: 8007439.796875, Actor Loss: -118505.05419921875  
Episode 9092: Time: 1.484222650527954, Total Reward: 920.8092111498705, Q Loss: 43782948.3828125, Actor Loss: -732440.5126953125  
Episode 9093: Time: 0.14888906478881836, Total Reward: 81.26433716662322, Q Loss: 4605568.5, Actor Loss: -72329.1396484375



Episode 9094: Time: 0.5204310417175293, Total Reward: 314.3865932303406, Q Loss: 16991416.796875, Actor Loss: -251852.0341796875  
Episode 9095: Time: 0.6394445896148682, Total Reward: 390.0219045715033, Q Loss: 20590688.734375, Actor Loss: -313653.4951171875  
Episode 9096: Time: 0.297884464263916, Total Reward: 173.75628134554862, Q Loss: 10726105.8125, Actor Loss: -141385.68212890625  
Episode 9097: Time: 0.7276344299316406, Total Reward: 444.6214542548363, Q Loss: 22332361.28125, Actor Loss: -352145.1748046875  
Episode 9098: Time: 0.23789596557617188, Total Reward: 136.7295833957403, Q Loss: 7671644.1640625, Actor Loss: -114930.23291015625  
Episode 9099: Time: 0.5638659000396729, Total Reward: 342.7652062014202, Q Loss: 21198167.53125, Actor Loss: -278741.45556640625  
Validation Mean: 9351.459378553187, Validation Std: 0.18218989173804695  
saving model  
Episode 9100: Time: 0.8937866687774658, Total Reward: 544.4840346016732, Q Loss: 28157242.0078125, Actor Loss: -438453.48486328125  
Episode 9101: Time: 0.37326550483703613, Total Reward: 220.60850716307274, Q Loss: 11978862.421875, Actor Loss: -177445.2060546875  
Episode 9102: Time: 0.8006670475006104, Total Reward: 490.84319168329694, Q Loss: 25710771.1171875, Actor Loss: -392365.01318359375  
Episode 9103: Time: 0.7859852313995361, Total Reward: 482.7362987094182, Q Loss: 26442774.8671875, Actor Loss: -387369.580078125  
Episode 9104: Time: 0.6381967067718506, Total Reward: 388.1597549222841, Q Loss: 22987530.234375, Actor Loss: -311476.97998046875  
Episode 9105: Time: 0.20814275741577148, Total Reward: 118.76374247307469, Q Loss: 7247968.75, Actor Loss: -106047.1552734375  
Episode 9106: Time: 0.3418726921081543, Total Reward: 202.39864914760258, Q Loss: 12751593.1640625, Actor Loss: -172526.1025390625  
Episode 9107: Time: 0.2825765609741211, Total Reward: 165.89038906443128, Q Loss: 9990389.90625, Actor Loss: -136304.65283203125  
Episode 9108: Time: 0.3709995746612549, Total Reward: 219.59293235371135, Q Loss: 12610412.6640625, Actor Loss: -184312.0771484375  
Episode 9109: Time: 0.2384932041168213, Total Reward: 137.6798948765353, Q Loss: 10185997.96875, Actor Loss: -115888.19287109375  
Episode 9110: Time: 0.29767560958862305, Total Reward: 174.76267691813837, Q Loss: 7354950.609375, Actor Loss: -145847.119140625  
Episode 9111: Time: 0.34293603897094727, Total Reward: 202.04697060454671, Q Loss: 11506209.8515625, Actor Loss: -170545.634765625  
Episode 9112: Time: 0.20862221717834473, Total Reward: 119.47465228749714, Q Loss: 8495904.0, Actor Loss: -103166.54736328125  
Episode 9113: Time: 0.19331121444702148, Total Reward: 110.01982495104319, Q Loss: 6030472.796875, Actor Loss: -95805.8271484375  
Episode 9114: Time: 0.23837566375732422, Total Reward: 137.5234242992151, Q Loss: 6015535.921875, Actor Loss: -117009.22900390625  
Episode 9115: Time: 0.25304484367370605, Total Reward: 146.45521906559557, Q Loss: 8468924.390625, Actor Loss: -123737.92236328125  
Episode 9116: Time: 0.6537275314331055, Total Reward: 397.6077413046722, Q Loss: 25866637.296875, Actor Loss: -323524.2255859375  
Episode 9117: Time: 0.31264662742614746, Total Reward: 183.10741159009376, Q Loss: 8595221.875, Actor Loss: -156441.40185546875  
Episode 9118: Time: 0.31293678283691406, Total Reward: 183.40477179167985, Q Loss: 11378079.078125, Actor Loss: -156750.041015625  
Episode 9119: Time: 0.9951145648956299, Total Reward: 610.7720905085267, Q Loss: 35802552.0546875, Actor Loss: -493287.64208984375  
Episode 9120: Time: 0.40186262130737305, Total Reward: 239.43768963052105, Q Loss: 11290816.0703125, Actor Loss: -204683.37451171875

Episode 9121: Time: 0.4458317756652832, Total Reward: 265.90943688026994, Q Loss: 13644083.375, Actor Loss: -220209.583984375  
Episode 9122: Time: 0.34263062477111816, Total Reward: 202.09293218741314, Q Loss: 13136874.625, Actor Loss: -163600.51904296875  
Episode 9123: Time: 0.8607938289642334, Total Reward: 528.3089428746424, Q Loss: 31742945.9296875, Actor Loss: -422782.365234375  
Episode 9124: Time: 0.6238517761230469, Total Reward: 379.18299067365876, Q Loss: 18356349.5, Actor Loss: -308307.72998046875  
Episode 9125: Time: 0.19296836853027344, Total Reward: 109.16633214723721, Q Loss: 6723905.703125, Actor Loss: -98309.60693359375  
Episode 9126: Time: 0.16427898406982422, Total Reward: 91.04998298531319, Q Loss: 5110597.875, Actor Loss: -82041.39013671875  
Episode 9127: Time: 0.34116673469543457, Total Reward: 203.26654929518872, Q Loss: 11170187.625, Actor Loss: -174435.88330078125  
Episode 9128: Time: 0.6983182430267334, Total Reward: 426.40373571455007, Q Loss: 26522337.53125, Actor Loss: -349537.5478515625  
Episode 9129: Time: 0.17845726013183594, Total Reward: 99.76010585588124, Q Loss: 6356944.28125, Actor Loss: -87087.16748046875  
Episode 9130: Time: 0.3864767551422119, Total Reward: 231.18933432602705, Q Loss: 13052384.6640625, Actor Loss: -195301.828125  
Episode 9131: Time: 0.5791666507720947, Total Reward: 352.31902401209254, Q Loss: 21451243.703125, Actor Loss: -288077.11328125  
Episode 9132: Time: 0.8171107769012451, Total Reward: 499.43623172068675, Q Loss: 29523827.8515625, Actor Loss: -402699.76171875  
Episode 9133: Time: 0.20861506462097168, Total Reward: 119.1107531603877, Q Loss: 7918497.21875, Actor Loss: -98711.06884765625  
Episode 9134: Time: 0.6994309425354004, Total Reward: 426.88299658242664, Q Loss: 24032422.078125, Actor Loss: -350290.79052734375  
Episode 9135: Time: 0.35807347297668457, Total Reward: 212.76489340544043, Q Loss: 12280865.546875, Actor Loss: -171906.0458984375  
Episode 9136: Time: 0.2972888946533203, Total Reward: 173.55279069068087, Q Loss: 9032593.875, Actor Loss: -144339.60498046875  
Episode 9137: Time: 1.5276379585266113, Total Reward: 948.0203948101085, Q Loss: 53286664.046875, Actor Loss: -766023.9970703125  
Episode 9138: Time: 0.7281227111816406, Total Reward: 442.3538753260965, Q Loss: 25225761.4453125, Actor Loss: -367099.24755859375  
Episode 9139: Time: 0.5350887775421143, Total Reward: 322.6990547361226, Q Loss: 16126360.015625, Actor Loss: -263819.35205078125  
Episode 9140: Time: 0.11914515495300293, Total Reward: 63.118977218398534, Q Loss: 3824283.53125, Actor Loss: -60530.3525390625  
Episode 9141: Time: 0.3417541980743408, Total Reward: 203.80094021536465, Q Loss: 10772070.78125, Actor Loss: -173874.81103515625  
Episode 9142: Time: 0.4162557125091553, Total Reward: 248.54452425221848, Q Loss: 12855552.4296875, Actor Loss: -216754.28173828125  
Episode 9143: Time: 0.3120613098144531, Total Reward: 184.1196340940271, Q Loss: 10479834.03125, Actor Loss: -151904.7119140625  
Episode 9144: Time: 0.5489790439605713, Total Reward: 333.5419478818564, Q Loss: 16776611.203125, Actor Loss: -279052.0625  
Episode 9145: Time: 0.25271105766296387, Total Reward: 146.6677839648496, Q Loss: 9817638.390625, Actor Loss: -127146.80859375  
Episode 9146: Time: 0.5202412605285645, Total Reward: 314.02966919884483, Q Loss: 18092184.953125, Actor Loss: -261349.318359375  
Episode 9147: Time: 0.6392216682434082, Total Reward: 389.32005391518027, Q Loss: 24942632.28125, Actor Loss: -318625.61279296875  
Episode 9148: Time: 0.37181687355041504, Total Reward: 221.45689803357152, Q Loss: 12495050.0625, Actor Loss: -190437.59619140625

Episode 9149: Time: 0.5049819946289062, Total Reward: 305.26960400201375, Q Loss: 16643563.359375, Actor Loss: -246298.40673828125  
Episode 9150: Time: 0.3567023277282715, Total Reward: 211.34862499056914, Q Loss: 14832819.953125, Actor Loss: -178712.91455078125  
Episode 9151: Time: 0.20871925354003906, Total Reward: 118.8659165611877, Q Loss: 6274837.90625, Actor Loss: -107611.8720703125  
Episode 9152: Time: 0.41654372215270996, Total Reward: 248.13054015549014, Q Loss: 11703454.765625, Actor Loss: -207912.38623046875  
Episode 9153: Time: 0.4905364513397217, Total Reward: 296.5107603745767, Q Loss: 20208233.25, Actor Loss: -245847.3076171875  
Episode 9154: Time: 0.3127143383026123, Total Reward: 184.46493161300035, Q Loss: 12189115.515625, Actor Loss: -158158.25634765625  
Episode 9155: Time: 0.3873915672302246, Total Reward: 230.6280376660492, Q Loss: 13086224.0625, Actor Loss: -186165.76123046875  
Episode 9156: Time: 0.20883917808532715, Total Reward: 118.49336804629257, Q Loss: 6839399.5625, Actor Loss: -102892.7119140625  
Episode 9157: Time: 0.3571932315826416, Total Reward: 212.82019847956778, Q Loss: 11827764.171875, Actor Loss: -174065.681640625  
Episode 9158: Time: 0.25315189361572266, Total Reward: 147.28558164419192, Q Loss: 7369833.90625, Actor Loss: -129769.15869140625  
Episode 9159: Time: 0.9650077819824219, Total Reward: 590.9235034268446, Q Loss: 33776166.53125, Actor Loss: -487886.42578125  
Episode 9160: Time: 0.19342494010925293, Total Reward: 109.52962721506348, Q Loss: 6373397.015625, Actor Loss: -96790.64697265625  
Episode 9161: Time: 0.4163789749145508, Total Reward: 248.5538825730285, Q Loss: 13268821.1953125, Actor Loss: -216999.9130859375  
Episode 9162: Time: 0.2381138801574707, Total Reward: 137.9129005292958, Q Loss: 7588647.546875, Actor Loss: -119802.72509765625  
Episode 9163: Time: 0.2973296642303467, Total Reward: 173.35757450351684, Q Loss: 9261882.84375, Actor Loss: -153277.19091796875  
Episode 9164: Time: 0.4014091491699219, Total Reward: 240.3086708023641, Q Loss: 12480827.2265625, Actor Loss: -200013.88720703125  
Episode 9165: Time: 0.19367527961730957, Total Reward: 109.50283217558598, Q Loss: 7406412.390625, Actor Loss: -100676.748046875  
Episode 9166: Time: 0.34218907356262207, Total Reward: 203.11327554135786, Q Loss: 10361944.31640625, Actor Loss: -171965.22412109375  
Episode 9167: Time: 0.32749080657958984, Total Reward: 193.93904773273908, Q Loss: 12901527.0, Actor Loss: -162690.6630859375  
Episode 9168: Time: 0.3122272491455078, Total Reward: 184.74610259698179, Q Loss: 11246718.90625, Actor Loss: -163602.50390625  
Episode 9169: Time: 0.10447883605957031, Total Reward: 53.48459322250112, Q Loss: 3295979.46875, Actor Loss: -50097.5390625  
Episode 9170: Time: 0.4612762928009033, Total Reward: 275.81064451785664, Q Loss: 15704598.875, Actor Loss: -222543.13623046875  
Episode 9171: Time: 0.1936321258544922, Total Reward: 110.50728061776815, Q Loss: 4622374.0, Actor Loss: -101048.31005859375  
Episode 9172: Time: 0.5345687866210938, Total Reward: 323.07775647400314, Q Loss: 19433304.1875, Actor Loss: -270912.5888671875  
Episode 9173: Time: 0.550105094909668, Total Reward: 332.25926341232116, Q Loss: 18115377.75, Actor Loss: -281681.6357421875  
Episode 9174: Time: 0.8018004894256592, Total Reward: 489.0081135309466, Q Loss: 26234079.8828125, Actor Loss: -409018.18701171875  
Episode 9175: Time: 0.7565634250640869, Total Reward: 463.6948984547406, Q Loss: 25604071.328125, Actor Loss: -379869.20361328125  
Episode 9176: Time: 0.638542890548706, Total Reward: 388.4272254761131, Q Loss: 20172110.3203125, Actor Loss: -325243.9443359375

Episode 9177: Time: 0.2975883483886719, Total Reward: 174.9493833056874, Q Loss: 11005747.515625, Actor Loss: -154527.68408203125  
Episode 9178: Time: 0.17848682403564453, Total Reward: 100.57355228307993, Q Loss: 6898121.421875, Actor Loss: -90112.74560546875  
Episode 9179: Time: 1.7211058139801025, Total Reward: 1066.9233675102437, Q Loss: 56699736.28125, Actor Loss: -871914.2524414062  
Episode 9180: Time: 0.3567342758178711, Total Reward: 210.0029356818988, Q Loss: 13031716.8203125, Actor Loss: -183089.77685546875  
Episode 9181: Time: 0.3117074966430664, Total Reward: 183.295562740978, Q Loss: 9446848.078125, Actor Loss: -158153.3017578125  
Episode 9182: Time: 0.48953700065612793, Total Reward: 295.8952238828937, Q Loss: 15563885.84375, Actor Loss: -250511.0546875  
Episode 9183: Time: 0.17814898490905762, Total Reward: 100.17759637860917, Q Loss: 6270421.421875, Actor Loss: -88609.87841796875  
Episode 9184: Time: 0.17865824699401855, Total Reward: 100.76052320446858, Q Loss: 7462114.5625, Actor Loss: -90370.18212890625  
Episode 9185: Time: 0.16385412216186523, Total Reward: 91.68825913732893, Q Loss: 5094774.421875, Actor Loss: -86196.19921875  
Episode 9186: Time: 0.37232112884521484, Total Reward: 220.8084931506891, Q Loss: 12912209.5, Actor Loss: -187432.4169921875  
Episode 9187: Time: 1.2464993000030518, Total Reward: 770.5738913304953, Q Loss: 41950404.0, Actor Loss: -647517.8056640625  
Episode 9188: Time: 0.16400909423828125, Total Reward: 91.19610555040383, Q Loss: 5411915.34375, Actor Loss: -80458.05859375  
Episode 9189: Time: 0.35706448554992676, Total Reward: 211.4645394695712, Q Loss: 9917196.3671875, Actor Loss: -179481.44287109375  
Episode 9190: Time: 0.11914658546447754, Total Reward: 62.988822153891036, Q Loss: 3176353.890625, Actor Loss: -59831.3759765625  
Episode 9191: Time: 0.2088322639465332, Total Reward: 118.97040777743096, Q Loss: 7292463.15625, Actor Loss: -100763.15771484375  
Episode 9192: Time: 0.4466121196746826, Total Reward: 267.02459587986647, Q Loss: 14206370.546875, Actor Loss: -223579.62890625  
Episode 9193: Time: 0.2684624195098877, Total Reward: 156.82718614731334, Q Loss: 7202850.1015625, Actor Loss: -137299.8203125  
Episode 9194: Time: 0.41679954528808594, Total Reward: 248.53415203054314, Q Loss: 14772235.0, Actor Loss: -208540.22900390625  
Episode 9195: Time: 0.550506591796875, Total Reward: 331.872983585229, Q Loss: 21814977.921875, Actor Loss: -284952.9423828125  
Episode 9196: Time: 0.20844388008117676, Total Reward: 118.45592178903313, Q Loss: 7680925.078125, Actor Loss: -105222.046875  
Episode 9197: Time: 0.29770326614379883, Total Reward: 173.49054365639606, Q Loss: 12364690.28125, Actor Loss: -147713.29296875  
Episode 9198: Time: 0.5500643253326416, Total Reward: 331.0267394284666, Q Loss: 22423562.0703125, Actor Loss: -286236.85009765625  
Episode 9199: Time: 0.14886093139648438, Total Reward: 81.67179834938136, Q Loss: 4200843.859375, Actor Loss: -74456.14111328125  
Validation Mean: 9352.155123323713, Validation Std: 0.21368588932161506  
saving model  
Episode 9200: Time: 0.24017834663391113, Total Reward: 137.87532800323794, Q Loss: 7292851.125, Actor Loss: -116977.09765625  
Episode 9201: Time: 0.16377687454223633, Total Reward: 91.02104383405864, Q Loss: 7224124.265625, Actor Loss: -79414.82373046875  
Episode 9202: Time: 0.23833250999450684, Total Reward: 137.83626572046407, Q Loss: 9317030.71875, Actor Loss: -121523.17236328125  
Episode 9203: Time: 0.416126012802124, Total Reward: 249.48867193488047, Q Loss: 14116041.609375, Actor Loss: -214020.82763671875

Episode 9204: Time: 0.28279900550842285, Total Reward: 165.66576122366104, Q Loss: 11950343.8828125, Actor Loss: -147960.73876953125  
Episode 9205: Time: 0.3867781162261963, Total Reward: 229.52927615153493, Q Loss: 12629158.5546875, Actor Loss: -196671.4033203125  
Episode 9206: Time: 0.13419699668884277, Total Reward: 72.64169515942017, Q Loss: 6017480.40625, Actor Loss: -67887.77099609375  
Episode 9207: Time: 0.5056979656219482, Total Reward: 304.69147547282523, Q Loss: 15473815.09375, Actor Loss: -265265.34326171875  
Episode 9208: Time: 0.7419619560241699, Total Reward: 452.51185439440496, Q Loss: 30724279.890625, Actor Loss: -377525.8193359375  
Episode 9209: Time: 0.40178513526916504, Total Reward: 238.0859714668043, Q Loss: 14863699.75, Actor Loss: -204950.419921875  
Episode 9210: Time: 0.23812460899353027, Total Reward: 137.65535197129063, Q Loss: 8726012.09375, Actor Loss: -122262.546875  
Episode 9211: Time: 0.8916263580322266, Total Reward: 546.9870056670952, Q Loss: 30901011.5234375, Actor Loss: -450920.73291015625  
Episode 9212: Time: 0.49082517623901367, Total Reward: 296.45480344802775, Q Loss: 17357027.9375, Actor Loss: -250975.22412109375  
Episode 9213: Time: 0.623685359954834, Total Reward: 380.4966499239974, Q Loss: 21914611.625, Actor Loss: -319841.84130859375  
Episode 9214: Time: 1.2918193340301514, Total Reward: 797.7609246011181, Q Loss: 47988703.828125, Actor Loss: -653229.4184570312  
Episode 9215: Time: 0.5205633640289307, Total Reward: 314.53240632247514, Q Loss: 16871674.8125, Actor Loss: -264389.33837890625  
Episode 9216: Time: 0.8180720806121826, Total Reward: 500.33785262552306, Q Loss: 23478242.484375, Actor Loss: -420790.96630859375  
Episode 9217: Time: 0.2974364757537842, Total Reward: 175.24340342903062, Q Loss: 8793839.03125, Actor Loss: -148665.97607421875  
Episode 9218: Time: 0.40233850479125977, Total Reward: 239.316014382732, Q Loss: 12495486.5, Actor Loss: -202657.5224609375  
Episode 9219: Time: 0.3273015022277832, Total Reward: 193.36098168166973, Q Loss: 11253575.203125, Actor Loss: -165577.8974609375  
Episode 9220: Time: 0.5805127620697021, Total Reward: 351.68327738279953, Q Loss: 20067842.828125, Actor Loss: -298127.04833984375  
Episode 9221: Time: 0.815575122833252, Total Reward: 500.34634768431374, Q Loss: 26226962.390625, Actor Loss: -414141.20947265625  
Episode 9222: Time: 0.5492820739746094, Total Reward: 333.32934431639836, Q Loss: 20368637.609375, Actor Loss: -281556.9150390625  
Episode 9223: Time: 0.8307998180389404, Total Reward: 509.73700920896925, Q Loss: 31362534.8359375, Actor Loss: -431452.4560546875  
Episode 9224: Time: 0.40164852142333984, Total Reward: 239.70550321268018, Q Loss: 14371836.453125, Actor Loss: -204212.61962890625  
Episode 9225: Time: 0.7576792240142822, Total Reward: 463.55868974191026, Q Loss: 26311087.9375, Actor Loss: -383090.7802734375  
Episode 9226: Time: 0.8173742294311523, Total Reward: 500.27635800783753, Q Loss: 29626992.046875, Actor Loss: -416625.5087890625  
Episode 9227: Time: 0.43126988410949707, Total Reward: 256.7457296257057, Q Loss: 13597075.65625, Actor Loss: -222921.47021484375  
Episode 9228: Time: 0.19339537620544434, Total Reward: 109.77393690080258, Q Loss: 5296660.7265625, Actor Loss: -99259.248046875  
Episode 9229: Time: 0.47695469856262207, Total Reward: 285.9872377584925, Q Loss: 17715771.5546875, Actor Loss: -240364.63134765625  
Episode 9230: Time: 0.49155306816101074, Total Reward: 295.192004022982, Q Loss: 14780471.65625, Actor Loss: -249818.36328125  
Episode 9231: Time: 0.16467499732971191, Total Reward: 91.02177099517449, Q Loss: 9247941.34375, Actor Loss: -84367.15087890625

Episode 9232: Time: 0.17960715293884277, Total Reward: 101.28300283493117, Q Loss: 6164189.28125, Actor Loss: -95535.5625  
Episode 9233: Time: 0.17880868911743164, Total Reward: 99.06207439633543, Q Loss: 5370726.265625, Actor Loss: -88836.791015625  
Episode 9234: Time: 0.3574213981628418, Total Reward: 210.47999955026017, Q Loss: 11876039.8203125, Actor Loss: -181738.32080078125  
Episode 9235: Time: 0.3865523338317871, Total Reward: 230.08934005370398, Q Loss: 12326992.859375, Actor Loss: -202322.81640625  
Episode 9236: Time: 0.6399340629577637, Total Reward: 388.283191375555, Q Loss: 21526782.3984375, Actor Loss: -330327.21044921875  
Episode 9237: Time: 0.6394734382629395, Total Reward: 389.77457174882943, Q Loss: 24424357.46875, Actor Loss: -336845.6572265625  
Episode 9238: Time: 0.5796611309051514, Total Reward: 351.6149888494353, Q Loss: 22917369.0078125, Actor Loss: -299182.86572265625  
Episode 9239: Time: 0.6676840782165527, Total Reward: 407.56849710803937, Q Loss: 21242229.90625, Actor Loss: -345021.7607421875  
Episode 9240: Time: 0.11901235580444336, Total Reward: 63.031807156868474, Q Loss: 3465938.84375, Actor Loss: -58775.47216796875  
Episode 9241: Time: 0.14927101135253906, Total Reward: 81.92644372756385, Q Loss: 5353013.046875, Actor Loss: -76180.15478515625  
Episode 9242: Time: 0.6827154159545898, Total Reward: 416.4909682422095, Q Loss: 18339967.140625, Actor Loss: -358772.88671875  
Episode 9243: Time: 0.2674105167388916, Total Reward: 157.00074136239098, Q Loss: 9960894.375, Actor Loss: -145341.38330078125  
Episode 9244: Time: 0.37163519859313965, Total Reward: 220.25955049996796, Q Loss: 9505553.90625, Actor Loss: -189144.0283203125  
Episode 9245: Time: 0.7867884635925293, Total Reward: 482.7558335801156, Q Loss: 28099210.6875, Actor Loss: -415315.5751953125  
Episode 9246: Time: 0.6242327690124512, Total Reward: 379.2884672144581, Q Loss: 18642170.25, Actor Loss: -326753.1845703125  
Episode 9247: Time: 0.40081143379211426, Total Reward: 238.79499086097067, Q Loss: 13611903.078125, Actor Loss: -210799.306640625  
Episode 9248: Time: 0.7422723770141602, Total Reward: 452.148707868303, Q Loss: 25990919.453125, Actor Loss: -379414.58251953125  
Episode 9249: Time: 0.7274203300476074, Total Reward: 443.88605654115406, Q Loss: 24026116.75, Actor Loss: -378024.50634765625  
Episode 9250: Time: 0.13379549980163574, Total Reward: 72.41278356894608, Q Loss: 4914037.8125, Actor Loss: -68848.4248046875  
Episode 9251: Time: 0.6982297897338867, Total Reward: 426.98814741940026, Q Loss: 20153454.4375, Actor Loss: -358276.1005859375  
Episode 9252: Time: 0.8304939270019531, Total Reward: 508.23791380321774, Q Loss: 25737603.265625, Actor Loss: -429250.3994140625  
Episode 9253: Time: 0.29742956161499023, Total Reward: 174.48138591418862, Q Loss: 10438135.328125, Actor Loss: -154348.11181640625  
Episode 9254: Time: 0.10428190231323242, Total Reward: 54.26044454683131, Q Loss: 2506693.203125, Actor Loss: -52906.99951171875  
Episode 9255: Time: 0.35619449615478516, Total Reward: 210.42694176455302, Q Loss: 19084827.625, Actor Loss: -185635.72900390625  
Episode 9256: Time: 0.7703492641448975, Total Reward: 472.71091893045667, Q Loss: 25810277.5078125, Actor Loss: -403222.77197265625  
Episode 9257: Time: 0.4742391109466553, Total Reward: 286.4703713744412, Q Loss: 14473962.40625, Actor Loss: -254777.98193359375  
Episode 9258: Time: 0.7413053512573242, Total Reward: 451.5783371715832, Q Loss: 26247239.2109375, Actor Loss: -383948.2734375  
Episode 9259: Time: 0.6238017082214355, Total Reward: 379.7913086767378, Q Loss: 22515147.8125, Actor Loss: -321735.80224609375

Episode 9260: Time: 1.5579180717468262, Total Reward: 966.2410877333328, Q Loss: 53380812.171875, Actor Loss: -808491.6479492188  
Episode 9261: Time: 0.5202946662902832, Total Reward: 313.45323413005144, Q Loss: 21258071.171875, Actor Loss: -272616.25  
Episode 9262: Time: 0.34201860427856445, Total Reward: 203.28595601045436, Q Loss: 11493269.71875, Actor Loss: -184244.23291015625  
Episode 9263: Time: 0.5051047801971436, Total Reward: 305.68491305529767, Q Loss: 16699596.9296875, Actor Loss: -266122.87841796875  
Episode 9264: Time: 0.20787739753723145, Total Reward: 118.892921219528, Q Loss: 7871736.546875, Actor Loss: -109875.8994140625  
Episode 9265: Time: 0.14870786666870117, Total Reward: 81.80426365663168, Q Loss: 3628079.59375, Actor Loss: -78335.04052734375  
Episode 9266: Time: 0.6832809448242188, Total Reward: 416.96433320232313, Q Loss: 23251962.2578125, Actor Loss: -353827.86865234375  
Episode 9267: Time: 0.5194427967071533, Total Reward: 313.00117776269315, Q Loss: 21610012.3359375, Actor Loss: -271482.294921875  
Episode 9268: Time: 0.37228989601135254, Total Reward: 219.36951175398784, Q Loss: 12326076.5, Actor Loss: -191497.310546875  
Episode 9269: Time: 0.8611676692962646, Total Reward: 528.4650481895023, Q Loss: 34134478.25, Actor Loss: -450142.01611328125  
Episode 9270: Time: 0.5789957046508789, Total Reward: 352.0702959009806, Q Loss: 23530541.859375, Actor Loss: -304041.5478515625  
Episode 9271: Time: 0.8620879650115967, Total Reward: 527.3035814603483, Q Loss: 32463264.9375, Actor Loss: -453449.4853515625  
Episode 9272: Time: 0.3272233009338379, Total Reward: 193.13111510735916, Q Loss: 14004355.546875, Actor Loss: -171514.90869140625  
Episode 9273: Time: 0.6538069248199463, Total Reward: 397.73909763134964, Q Loss: 25266125.6796875, Actor Loss: -342913.830078125  
Episode 9274: Time: 0.16415643692016602, Total Reward: 91.29078727491198, Q Loss: 6794888.96875, Actor Loss: -85464.37548828125  
Episode 9275: Time: 0.386822236633301, Total Reward: 230.53210245405137, Q Loss: 13388592.4375, Actor Loss: -205564.5185546875  
Episode 9276: Time: 1.9107332229614258, Total Reward: 1190.8459367319886, Q Loss: 65854097.421875, Actor Loss: -1003761.3920898438  
Episode 9277: Time: 0.7125482559204102, Total Reward: 433.0907238136788, Q Loss: 33273507.296875, Actor Loss: -381183.61328125  
Episode 9278: Time: 0.5049066543579102, Total Reward: 305.0337483707192, Q Loss: 17892777.359375, Actor Loss: -262649.86279296875  
Episode 9279: Time: 0.2227013111114502, Total Reward: 128.37576420419427, Q Loss: 5603208.265625, Actor Loss: -117153.263671875  
Episode 9280: Time: 0.638092041015625, Total Reward: 389.8011485505247, Q Loss: 22874921.1875, Actor Loss: -335281.90283203125  
Episode 9281: Time: 0.14857792854309082, Total Reward: 82.36699021021394, Q Loss: 5860178.375, Actor Loss: -78796.755859375  
Episode 9282: Time: 0.17866134643554688, Total Reward: 99.9578547410172, Q Loss: 4204526.078125, Actor Loss: -93990.55615234375  
Episode 9283: Time: 0.5338699817657471, Total Reward: 323.93367005149895, Q Loss: 17307429.6875, Actor Loss: -280066.5908203125  
Episode 9284: Time: 0.5196218490600586, Total Reward: 314.1720741886776, Q Loss: 19925726.3828125, Actor Loss: -277812.32861328125  
Episode 9285: Time: 0.34250545501708984, Total Reward: 201.95666284813015, Q Loss: 10919135.0, Actor Loss: -177463.67822265625  
Episode 9286: Time: 0.22339510917663574, Total Reward: 128.28570357897846, Q Loss: 5573240.90625, Actor Loss: -120143.3095703125  
Episode 9287: Time: 0.326932430267334, Total Reward: 193.5021730355015, Q Loss: 10043056.0390625, Actor Loss: -178928.31689453125

Episode 9288: Time: 0.35640549659729004, Total Reward: 211.28841765835284, Q Loss: 10474719.1875, Actor Loss: -187903.015625  
Episode 9289: Time: 0.4613325595855713, Total Reward: 275.59900724132615, Q Loss: 15156233.8515625, Actor Loss: -240822.26123046875  
Episode 9290: Time: 0.5043356418609619, Total Reward: 303.6447111600691, Q Loss: 13793588.09375, Actor Loss: -264106.57373046875  
Episode 9291: Time: 0.6837725639343262, Total Reward: 416.7222685851564, Q Loss: 28144948.65625, Actor Loss: -368208.939453125  
Episode 9292: Time: 0.6678211688995361, Total Reward: 406.84126208259096, Q Loss: 25143364.4375, Actor Loss: -357771.671875  
Episode 9293: Time: 0.26720666885375977, Total Reward: 156.57205096339266, Q Loss: 9331001.796875, Actor Loss: -144532.9287109375  
Episode 9294: Time: 0.20845413208007812, Total Reward: 119.30794008876359, Q Loss: 9603073.8125, Actor Loss: -105319.943359375  
Episode 9295: Time: 0.19327640533447266, Total Reward: 109.83573460236536, Q Loss: 8519539.21875, Actor Loss: -102089.10595703125  
Episode 9296: Time: 0.6244707107543945, Total Reward: 380.2345319981333, Q Loss: 21502298.4296875, Actor Loss: -330585.7333984375  
Episode 9297: Time: 0.3270576000213623, Total Reward: 193.44014070345523, Q Loss: 14591483.1875, Actor Loss: -169910.06689453125  
Episode 9298: Time: 0.8014638423919678, Total Reward: 488.86733127611996, Q Loss: 29036628.1640625, Actor Loss: -421655.0107421875  
Episode 9299: Time: 0.3420891761779785, Total Reward: 202.3517347110104, Q Loss: 9897148.671875, Actor Loss: -177389.42822265625  
Validation Mean: 9349.489868185681, Validation Std: 0.1957184412071203  
saving model  
Episode 9300: Time: 0.12339925765991211, Total Reward: 53.5990030591814, Q Loss: 4223636.640625, Actor Loss: -54593.02392578125  
Episode 9301: Time: 0.32374119758605957, Total Reward: 175.27050568071644, Q Loss: 11788375.34375, Actor Loss: -154752.3466796875  
Episode 9302: Time: 0.6738643646240234, Total Reward: 397.56728723233397, Q Loss: 24553290.65625, Actor Loss: -349319.78759765625  
Episode 9303: Time: 0.720827579498291, Total Reward: 435.5821106891307, Q Loss: 23924299.5625, Actor Loss: -373378.37060546875  
Episode 9304: Time: 0.7167978286743164, Total Reward: 433.3573440623369, Q Loss: 26344020.109375, Actor Loss: -380733.220703125  
Episode 9305: Time: 0.4330861568450928, Total Reward: 258.3973917651743, Q Loss: 14700593.21875, Actor Loss: -231462.4541015625  
Episode 9306: Time: 0.5817456245422363, Total Reward: 352.4644603332286, Q Loss: 24544042.03125, Actor Loss: -303618.46435546875  
Episode 9307: Time: 0.9403676986694336, Total Reward: 573.1827743484861, Q Loss: 29677815.3984375, Actor Loss: -494078.4775390625  
Episode 9308: Time: 0.25394701957702637, Total Reward: 146.57469898657925, Q Loss: 9954654.1875, Actor Loss: -136204.6064453125  
Episode 9309: Time: 0.5369551181793213, Total Reward: 321.55407268704846, Q Loss: 20462884.328125, Actor Loss: -281823.056640625  
Episode 9310: Time: 0.9820771217346191, Total Reward: 603.9897114789636, Q Loss: 37701958.984375, Actor Loss: -522875.72119140625  
Episode 9311: Time: 0.4170827865600586, Total Reward: 248.03331782162135, Q Loss: 16452192.953125, Actor Loss: -221711.62890625  
Episode 9312: Time: 0.2832159996032715, Total Reward: 166.0334073209397, Q Loss: 8123523.890625, Actor Loss: -145826.662109375  
Episode 9313: Time: 0.386974573135376, Total Reward: 228.4496543873302, Q Loss: 11665868.578125, Actor Loss: -203251.3515625  
Episode 9314: Time: 0.2092134952545166, Total Reward: 119.17030769742811, Q Loss: 6304388.859375, Actor Loss: -110837.47900390625



Episode 9315: Time: 0.44611525535583496, Total Reward: 268.0109675270794, Q Loss: 16803158.78125, Actor Loss: -239236.56591796875  
Episode 9316: Time: 0.5799500942230225, Total Reward: 352.06093597777584, Q Loss: 20911804.1875, Actor Loss: -309859.08935546875  
Episode 9317: Time: 0.8915150165557861, Total Reward: 547.6868521867502, Q Loss: 38636451.1328125, Actor Loss: -481795.375  
Episode 9318: Time: 0.6385862827301025, Total Reward: 388.9362029862571, Q Loss: 24481197.5625, Actor Loss: -343564.3525390625  
Episode 9319: Time: 0.29778409004211426, Total Reward: 175.20355647648617, Q Loss: 9913726.859375, Actor Loss: -162269.93896484375  
Episode 9320: Time: 0.5798599720001221, Total Reward: 352.23357409541404, Q Loss: 25094637.921875, Actor Loss: -317132.68310546875  
Episode 9321: Time: 0.26776671409606934, Total Reward: 155.96497490355492, Q Loss: 11227129.25, Actor Loss: -143208.94970703125  
Episode 9322: Time: 0.6834356784820557, Total Reward: 417.9284849099649, Q Loss: 24051586.4921875, Actor Loss: -359508.97998046875  
Episode 9323: Time: 0.32718920707702637, Total Reward: 193.51915392910618, Q Loss: 13684842.359375, Actor Loss: -170406.89111328125  
Episode 9324: Time: 0.5199575424194336, Total Reward: 314.2584984394183, Q Loss: 18403150.4296875, Actor Loss: -276130.7724609375  
Episode 9325: Time: 0.6537506580352783, Total Reward: 395.8516778573681, Q Loss: 25270168.2421875, Actor Loss: -342243.92724609375  
Episode 9326: Time: 0.5352156162261963, Total Reward: 324.19607587114467, Q Loss: 18862490.25, Actor Loss: -285747.10791015625  
Episode 9327: Time: 0.5055694580078125, Total Reward: 301.6900931926694, Q Loss: 21019194.53125, Actor Loss: -267708.64990234375  
Episode 9328: Time: 0.5639631748199463, Total Reward: 341.568411216768, Q Loss: 23623214.296875, Actor Loss: -295371.0625  
Episode 9329: Time: 0.9641029834747314, Total Reward: 591.5745058750623, Q Loss: 34617891.5, Actor Loss: -519908.11865234375  
Episode 9330: Time: 0.7718009948730469, Total Reward: 472.833944323, Q Loss: 24705774.609375, Actor Loss: -411643.4951171875  
Episode 9331: Time: 0.5948150157928467, Total Reward: 360.72482246031956, Q Loss: 24766064.9375, Actor Loss: -327274.9072265625  
Episode 9332: Time: 0.6236364841461182, Total Reward: 379.82961490635756, Q Loss: 21452626.8203125, Actor Loss: -328660.77392578125  
Episode 9333: Time: 0.342301607131958, Total Reward: 203.1390032441142, Q Loss: 12611859.96875, Actor Loss: -187706.390625  
Episode 9334: Time: 0.5191893577575684, Total Reward: 314.91822450885394, Q Loss: 21234736.78125, Actor Loss: -278616.1591796875  
Episode 9335: Time: 0.2826576232910156, Total Reward: 164.37132621678586, Q Loss: 8531488.71875, Actor Loss: -150845.10888671875  
Episode 9336: Time: 0.6233847141265869, Total Reward: 380.05729205985017, Q Loss: 27104502.171875, Actor Loss: -342191.009765625  
Episode 9337: Time: 1.0233745574951172, Total Reward: 630.6581055594055, Q Loss: 42820974.34375, Actor Loss: -546723.3803710938  
Episode 9338: Time: 0.3278965950012207, Total Reward: 193.12877564590616, Q Loss: 15954905.2890625, Actor Loss: -174299.29296875  
Episode 9339: Time: 0.653980016708374, Total Reward: 398.2158773781077, Q Loss: 22441871.46875, Actor Loss: -355542.935546875  
Episode 9340: Time: 0.3716411590576172, Total Reward: 221.07125423038897, Q Loss: 14839965.546875, Actor Loss: -203308.29248046875  
Episode 9341: Time: 0.5498611927032471, Total Reward: 332.8226112981903, Q Loss: 20897107.4375, Actor Loss: -290032.49609375  
Episode 9342: Time: 0.4463174343109131, Total Reward: 268.57529856733237, Q Loss: 16383403.640625, Actor Loss: -238092.15478515625

Episode 9343: Time: 0.49159669876098633, Total Reward: 295.58828670208516, Q Loss: 21432549.234375, Actor Loss: -263162.7373046875  
Episode 9344: Time: 0.1341080665588379, Total Reward: 72.34219448216501, Q Loss: 6669914.640625, Actor Loss: -72952.619140625  
Episode 9345: Time: 0.23905706405639648, Total Reward: 137.01206119276335, Q Loss: 9483049.8125, Actor Loss: -127706.06103515625  
Episode 9346: Time: 0.2681882381439209, Total Reward: 155.580241983967, Q Loss: 11095211.421875, Actor Loss: -146763.826171875  
Episode 9347: Time: 0.1338965892791748, Total Reward: 72.19133288098317, Q Loss: 5830474.453125, Actor Loss: -73885.63818359375  
Episode 9348: Time: 0.41672539710998535, Total Reward: 250.0156466776134, Q Loss: 14646994.953125, Actor Loss: -221914.728515625  
Episode 9349: Time: 0.4462575912475586, Total Reward: 268.7185443875296, Q Loss: 14966034.390625, Actor Loss: -238897.97802734375  
Episode 9350: Time: 0.25362539291381836, Total Reward: 147.1681821268708, Q Loss: 11731283.96875, Actor Loss: -132420.4091796875  
Episode 9351: Time: 0.35758447647094727, Total Reward: 211.57454615971378, Q Loss: 12974259.9609375, Actor Loss: -197043.6533203125  
Episode 9352: Time: 0.1640012264251709, Total Reward: 91.15526939678874, Q Loss: 6365249.40625, Actor Loss: -85897.74951171875  
Episode 9353: Time: 0.1492149829864502, Total Reward: 80.7348135457686, Q Loss: 6788687.03125, Actor Loss: -78281.64111328125  
Episode 9354: Time: 0.38658881187438965, Total Reward: 230.642611209093, Q Loss: 14866967.6875, Actor Loss: -210235.5908203125  
Episode 9355: Time: 1.025299310684204, Total Reward: 630.0998755294518, Q Loss: 35623714.15625, Actor Loss: -560340.177734375  
Episode 9356: Time: 0.5793728828430176, Total Reward: 351.56695404958015, Q Loss: 20724829.5078125, Actor Loss: -311698.9775390625  
Episode 9357: Time: 0.23851919174194336, Total Reward: 136.81809591143443, Q Loss: 7810735.1171875, Actor Loss: -128189.81005859375  
Episode 9358: Time: 0.32702064514160156, Total Reward: 193.9771921952486, Q Loss: 10016871.984375, Actor Loss: -173824.64892578125  
Episode 9359: Time: 0.40212488174438477, Total Reward: 239.9344298840037, Q Loss: 15174190.234375, Actor Loss: -217650.69091796875  
Episode 9360: Time: 0.4314141273498535, Total Reward: 258.6069302229751, Q Loss: 16722539.515625, Actor Loss: -227175.47607421875  
Episode 9361: Time: 0.4462466239929199, Total Reward: 267.84219957509396, Q Loss: 15145320.53125, Actor Loss: -240350.0029296875  
Episode 9362: Time: 0.3865668773651123, Total Reward: 230.49087044654453, Q Loss: 13270534.3203125, Actor Loss: -209960.828125  
Episode 9363: Time: 0.6828162670135498, Total Reward: 415.1227782281789, Q Loss: 28473572.5, Actor Loss: -371441.01123046875  
Episode 9364: Time: 0.5348978042602539, Total Reward: 323.85099518357623, Q Loss: 20924577.359375, Actor Loss: -293269.68310546875  
Episode 9365: Time: 0.5206103324890137, Total Reward: 315.2703359991955, Q Loss: 17830564.90625, Actor Loss: -288280.7763671875  
Episode 9366: Time: 0.7876842021942139, Total Reward: 479.50409179568715, Q Loss: 27685080.859375, Actor Loss: -430958.6826171875  
Episode 9367: Time: 0.8167614936828613, Total Reward: 501.27094541633426, Q Loss: 29517802.9296875, Actor Loss: -437152.79052734375  
Episode 9368: Time: 0.2686152458190918, Total Reward: 156.30014279799997, Q Loss: 11063665.890625, Actor Loss: -146725.0751953125  
Episode 9369: Time: 0.4013681411743164, Total Reward: 239.2828069187913, Q Loss: 16908287.171875, Actor Loss: -221640.74560546875  
Episode 9370: Time: 0.32712340354919434, Total Reward: 193.96969066638357, Q Loss: 13440918.859375, Actor Loss: -184154.35107421875

Episode 9371: Time: 2.835911750793457, Total Reward: 1765.6334896167182, Q Loss: 114189256.5625, Actor Loss: -1570165.1342773438  
Episode 9372: Time: 0.9647610187530518, Total Reward: 592.7795707320766, Q Loss: 41839751.8359375, Actor Loss: -532741.8291015625  
Episode 9373: Time: 0.4456136226654053, Total Reward: 268.54191926772813, Q Loss: 16252961.890625, Actor Loss: -245129.64453125  
Episode 9374: Time: 0.238145112991333, Total Reward: 137.67707319707998, Q Loss: 10854123.8125, Actor Loss: -126032.11279296875  
Episode 9375: Time: 0.22335577011108398, Total Reward: 128.56010592761032, Q Loss: 7997728.9375, Actor Loss: -122257.93017578125  
Episode 9376: Time: 0.35655999183654785, Total Reward: 212.57665160561697, Q Loss: 15896237.359375, Actor Loss: -197099.919921875  
Episode 9377: Time: 0.5937812328338623, Total Reward: 360.8810976250406, Q Loss: 24786203.890625, Actor Loss: -320746.84130859375  
Episode 9378: Time: 0.311781644821167, Total Reward: 184.20785196317203, Q Loss: 13979601.375, Actor Loss: -166088.8466796875  
Episode 9379: Time: 0.37165379524230957, Total Reward: 221.31796689361204, Q Loss: 13438791.34375, Actor Loss: -206972.255859375  
Episode 9380: Time: 0.889937162399292, Total Reward: 547.9733864627101, Q Loss: 33121495.25, Actor Loss: -481663.57080078125  
Episode 9381: Time: 0.16369915008544922, Total Reward: 91.1705038425178, Q Loss: 8074020.0625, Actor Loss: -92070.78369140625  
Episode 9382: Time: 0.22324061393737793, Total Reward: 128.64097983410036, Q Loss: 5898860.3984375, Actor Loss: -123471.8720703125  
Episode 9383: Time: 0.1340775489807129, Total Reward: 72.18790131675718, Q Loss: 5590484.375, Actor Loss: -76623.8447265625  
Episode 9384: Time: 0.4603433609008789, Total Reward: 277.6692527997737, Q Loss: 19711727.859375, Actor Loss: -254208.36962890625  
Episode 9385: Time: 1.0686616897583008, Total Reward: 660.2158757281771, Q Loss: 38996421.78125, Actor Loss: -579070.09375  
Episode 9386: Time: 0.40166497230529785, Total Reward: 237.581896098945, Q Loss: 14174992.2734375, Actor Loss: -210517.2666015625  
Episode 9387: Time: 0.2977261543273926, Total Reward: 175.23574070356773, Q Loss: 10850953.8984375, Actor Loss: -165300.29931640625  
Episode 9388: Time: 0.5647590160369873, Total Reward: 341.0807867155824, Q Loss: 19005676.46875, Actor Loss: -315664.634765625  
Episode 9389: Time: 0.08953404426574707, Total Reward: 44.63194856564036, Q Loss: 3596912.03125, Actor Loss: -48690.703125  
Episode 9390: Time: 0.9493618011474609, Total Reward: 583.9387826848708, Q Loss: 37574988.3046875, Actor Loss: -522779.8837890625  
Episode 9391: Time: 0.3869645595550537, Total Reward: 230.21862673912625, Q Loss: 14432579.515625, Actor Loss: -221068.283203125  
Episode 9392: Time: 0.28249692916870117, Total Reward: 165.6258138004758, Q Loss: 9475191.3125, Actor Loss: -156363.65185546875  
Episode 9393: Time: 0.8315973281860352, Total Reward: 510.22332145670117, Q Loss: 31683739.328125, Actor Loss: -473994.8720703125  
Episode 9394: Time: 0.46067023277282715, Total Reward: 276.33359936152505, Q Loss: 15554421.71875, Actor Loss: -253766.01171875  
Episode 9395: Time: 0.3274986743927002, Total Reward: 193.12852750537272, Q Loss: 15589038.75, Actor Loss: -179856.3447265625  
Episode 9396: Time: 0.446397066116333, Total Reward: 268.15946420463945, Q Loss: 19226302.171875, Actor Loss: -244431.3896484375  
Episode 9397: Time: 0.47487306594848633, Total Reward: 285.7226972751613, Q Loss: 13548053.1875, Actor Loss: -256889.6181640625  
Episode 9398: Time: 0.5493571758270264, Total Reward: 331.9191198195907, Q Loss: 21859701.96875, Actor Loss: -295300.60791015625

Episode 9399: Time: 1.0098555088043213, Total Reward: 619.5886785344984, Q Loss: 39067377.984375, Actor Loss: -565414.9853515625  
Validation Mean: 9350.728932025133, Validation Std: 0.2087219201876628  
saving model  
Episode 9400: Time: 0.35921621322631836, Total Reward: 211.39556570230747, Q Loss: 13077204.6640625, Actor Loss: -200578.00146484375  
Episode 9401: Time: 0.4760715961456299, Total Reward: 284.767834545765, Q Loss: 19586576.359375, Actor Loss: -258843.39892578125  
Episode 9402: Time: 0.17863678932189941, Total Reward: 99.77932955844015, Q Loss: 8394786.9375, Actor Loss: -99647.693359375  
Episode 9403: Time: 0.4312887191772461, Total Reward: 257.2882827222553, Q Loss: 20752832.453125, Actor Loss: -236737.1015625  
Episode 9404: Time: 0.3866915702819824, Total Reward: 230.6240968908711, Q Loss: 16116121.671875, Actor Loss: -212468.87646484375  
Episode 9405: Time: 0.9339003562927246, Total Reward: 574.225853448766, Q Loss: 40952443.296875, Actor Loss: -515308.0048828125  
Episode 9406: Time: 1.0391664505004883, Total Reward: 640.1443211385736, Q Loss: 44326539.828125, Actor Loss: -582416.7543945312  
Episode 9407: Time: 0.357074499130249, Total Reward: 212.5417774026463, Q Loss: 14736885.34375, Actor Loss: -198596.1123046875  
Episode 9408: Time: 0.2086470127105713, Total Reward: 117.93881929502805, Q Loss: 9040680.28125, Actor Loss: -119101.55419921875  
Episode 9409: Time: 0.2825632095336914, Total Reward: 166.02628011985357, Q Loss: 11498928.515625, Actor Loss: -158896.21875  
Episode 9410: Time: 0.16338491439819336, Total Reward: 90.88620234009908, Q Loss: 5417427.28125, Actor Loss: -90282.95263671875  
Episode 9411: Time: 0.23810052871704102, Total Reward: 137.62794741199622, Q Loss: 8153926.875, Actor Loss: -131913.830078125  
Episode 9412: Time: 1.2621119022369385, Total Reward: 779.6544264280324, Q Loss: 53080792.765625, Actor Loss: -703128.6293945312  
Episode 9413: Time: 0.7436394691467285, Total Reward: 454.47538060067575, Q Loss: 29640325.46875, Actor Loss: -414906.59521484375  
Episode 9414: Time: 0.28350043296813965, Total Reward: 165.50836497844986, Q Loss: 13894541.296875, Actor Loss: -159173.3857421875  
Episode 9415: Time: 0.49047398567199707, Total Reward: 295.18609975051123, Q Loss: 18775014.7265625, Actor Loss: -269856.1474609375  
Episode 9416: Time: 0.1788027286529541, Total Reward: 100.13509666840197, Q Loss: 6048051.90625, Actor Loss: -98506.7001953125  
Episode 9417: Time: 1.6032092571258545, Total Reward: 994.8135261211042, Q Loss: 62934214.40625, Actor Loss: -898594.0278320312  
Episode 9418: Time: 0.1637725830078125, Total Reward: 90.20221298819759, Q Loss: 6333629.1875, Actor Loss: -91374.37353515625  
Episode 9419: Time: 0.4903585910797119, Total Reward: 296.93473029716057, Q Loss: 16204027.484375, Actor Loss: -275204.70263671875  
Episode 9420: Time: 0.6094391345977783, Total Reward: 369.52080427285466, Q Loss: 24082361.8125, Actor Loss: -335299.59765625  
Episode 9421: Time: 0.31366825103759766, Total Reward: 184.0434606415359, Q Loss: 8936698.078125, Actor Loss: -173794.68212890625  
Episode 9422: Time: 0.31249284744262695, Total Reward: 183.4512777446577, Q Loss: 13956208.21875, Actor Loss: -175015.759765625  
Episode 9423: Time: 0.5197715759277344, Total Reward: 313.5647808388815, Q Loss: 20590079.046875, Actor Loss: -287587.529296875  
Episode 9424: Time: 0.5196728706359863, Total Reward: 313.92325885854115, Q Loss: 23103951.09375, Actor Loss: -284684.861328125  
Episode 9425: Time: 0.44503092765808105, Total Reward: 267.39567211399697, Q Loss: 15280752.046875, Actor Loss: -245772.23974609375

Episode 9426: Time: 0.4753715991973877, Total Reward: 286.70387256983133, Q Loss: 21459258.796875, Actor Loss: -269581.9501953125  
Episode 9427: Time: 0.3572235107421875, Total Reward: 212.4688150489183, Q Loss: 12434140.421875, Actor Loss: -201895.20361328125  
Episode 9428: Time: 0.40143299102783203, Total Reward: 238.94409123865768, Q Loss: 16420301.421875, Actor Loss: -223471.77734375  
Episode 9429: Time: 0.6398873329162598, Total Reward: 387.5023710301655, Q Loss: 26265234.828125, Actor Loss: -355731.71142578125  
Episode 9430: Time: 0.9066808223724365, Total Reward: 557.133149368105, Q Loss: 40149010.578125, Actor Loss: -513476.96337890625  
Episode 9431: Time: 0.25458431243896484, Total Reward: 146.08406183667853, Q Loss: 11298956.265625, Actor Loss: -141410.63134765625  
Episode 9432: Time: 0.6100287437438965, Total Reward: 370.1585761365085, Q Loss: 30155844.953125, Actor Loss: -347449.130859375  
Episode 9433: Time: 0.3129994869232178, Total Reward: 183.54539901317054, Q Loss: 15631832.875, Actor Loss: -173112.5087890625  
Episode 9434: Time: 0.4311645030975342, Total Reward: 258.7170139078534, Q Loss: 19406408.546875, Actor Loss: -243269.2060546875  
Episode 9435: Time: 0.29764437675476074, Total Reward: 173.16624984473478, Q Loss: 14897880.890625, Actor Loss: -162068.38916015625  
Episode 9436: Time: 2.094238758087158, Total Reward: 1302.2509680583703, Q Loss: 82761101.46875, Actor Loss: -1184394.77734375  
Episode 9437: Time: 0.3870885372161865, Total Reward: 230.55071219423567, Q Loss: 14044215.3125, Actor Loss: -221260.18603515625  
Episode 9438: Time: 0.4471099376678467, Total Reward: 266.7236353249377, Q Loss: 20273691.734375, Actor Loss: -247544.09765625  
Episode 9439: Time: 0.3421168327331543, Total Reward: 202.68002130232725, Q Loss: 13847441.296875, Actor Loss: -189111.62060546875  
Episode 9440: Time: 0.19366717338562012, Total Reward: 109.72456770406373, Q Loss: 11538968.78125, Actor Loss: -109236.080078125  
Episode 9441: Time: 0.11959505081176758, Total Reward: 62.844512514781265, Q Loss: 3978301.40625, Actor Loss: -64481.42236328125  
Episode 9442: Time: 0.34219980239868164, Total Reward: 203.16945681587768, Q Loss: 14127131.25, Actor Loss: -191287.14306640625  
Episode 9443: Time: 0.7581093311309814, Total Reward: 460.63980380972623, Q Loss: 29990126.7265625, Actor Loss: -421128.4921875  
Episode 9444: Time: 0.3574228286743164, Total Reward: 211.28911655797012, Q Loss: 15154178.75, Actor Loss: -201423.51513671875  
Episode 9445: Time: 0.7572622299194336, Total Reward: 461.5251057288125, Q Loss: 30992739.28125, Actor Loss: -430097.611328125  
Episode 9446: Time: 0.6085045337677002, Total Reward: 369.198286384269, Q Loss: 23033557.828125, Actor Loss: -344637.55224609375  
Episode 9447: Time: 0.6822206974029541, Total Reward: 417.137482927166, Q Loss: 32292482.234375, Actor Loss: -390657.09521484375  
Episode 9448: Time: 0.43109846115112305, Total Reward: 258.8333545237362, Q Loss: 16673253.0, Actor Loss: -247348.3310546875  
Episode 9449: Time: 0.5214521884918213, Total Reward: 312.9134709642131, Q Loss: 26944499.078125, Actor Loss: -287601.90966796875  
Episode 9450: Time: 0.7421560287475586, Total Reward: 454.1899591797247, Q Loss: 27094550.5, Actor Loss: -423921.51708984375  
Episode 9451: Time: 0.2677114009857178, Total Reward: 156.78656621786342, Q Loss: 10905235.15625, Actor Loss: -149236.1875  
Episode 9452: Time: 0.17868494987487793, Total Reward: 100.40529571586733, Q Loss: 10184203.9375, Actor Loss: -99825.22265625  
Episode 9453: Time: 0.7290403842926025, Total Reward: 444.5207945142358, Q Loss: 36743934.6875, Actor Loss: -415823.177734375

Episode 9454: Time: 0.9502532482147217, Total Reward: 584.6920604357177, Q Loss: 32603751.453125, Actor Loss: -534607.1567382812  
Episode 9455: Time: 0.29769134521484375, Total Reward: 173.7739426066521, Q Loss: 11014314.8046875, Actor Loss: -170902.5634765625  
Episode 9456: Time: 0.23834681510925293, Total Reward: 138.24472805991272, Q Loss: 10662353.0, Actor Loss: -134285.13134765625  
Episode 9457: Time: 0.40204477310180664, Total Reward: 237.05076225017456, Q Loss: 18214230.796875, Actor Loss: -231981.984375  
Episode 9458: Time: 0.43151378631591797, Total Reward: 259.32820025593963, Q Loss: 18273036.71875, Actor Loss: -241333.7021484375  
Episode 9459: Time: 0.4315218925476074, Total Reward: 258.9646011272439, Q Loss: 17603710.3125, Actor Loss: -241880.88916015625  
Episode 9460: Time: 0.13421177864074707, Total Reward: 72.95949867487857, Q Loss: 4195476.484375, Actor Loss: -75751.5234375  
Episode 9461: Time: 0.357327938079834, Total Reward: 211.30719815827112, Q Loss: 13343893.859375, Actor Loss: -201686.3671875  
Episode 9462: Time: 0.32726192474365234, Total Reward: 192.95390632936932, Q Loss: 15911596.09375, Actor Loss: -186233.22314453125  
Episode 9463: Time: 0.49020886421203613, Total Reward: 295.1618048415177, Q Loss: 19455312.46875, Actor Loss: -274787.32568359375  
Episode 9464: Time: 0.3274054527282715, Total Reward: 192.84997642048046, Q Loss: 16012974.265625, Actor Loss: -186421.8994140625  
Episode 9465: Time: 0.6239931583404541, Total Reward: 379.19118763911416, Q Loss: 27553918.203125, Actor Loss: -356552.6064453125  
Episode 9466: Time: 0.59415602684021, Total Reward: 358.8429571464018, Q Loss: 22836492.5, Actor Loss: -339274.70947265625  
Episode 9467: Time: 0.44608545303344727, Total Reward: 267.9888516173926, Q Loss: 17801354.328125, Actor Loss: -254232.38232421875  
Episode 9468: Time: 0.47624945640563965, Total Reward: 285.38979265032884, Q Loss: 20177167.203125, Actor Loss: -270494.97509765625  
Episode 9469: Time: 0.550649881362915, Total Reward: 333.13487996824267, Q Loss: 21863179.90625, Actor Loss: -311226.203125  
Episode 9470: Time: 1.0252580642700195, Total Reward: 629.8585195281156, Q Loss: 38919918.2421875, Actor Loss: -574626.6572265625  
Episode 9471: Time: 0.3721039295196533, Total Reward: 221.6255270005045, Q Loss: 18146963.5625, Actor Loss: -211152.43212890625  
Episode 9472: Time: 0.6543674468994141, Total Reward: 399.09801380185337, Q Loss: 24572597.3125, Actor Loss: -366895.6923828125  
Episode 9473: Time: 0.476146936416626, Total Reward: 285.01754506640214, Q Loss: 19388702.359375, Actor Loss: -272142.6689453125  
Episode 9474: Time: 0.29755449295043945, Total Reward: 174.54565661261714, Q Loss: 14816860.828125, Actor Loss: -170164.88671875  
Episode 9475: Time: 1.172825813293457, Total Reward: 723.8450206725291, Q Loss: 48111576.78125, Actor Loss: -667116.4169921875  
Episode 9476: Time: 0.8909575939178467, Total Reward: 545.0254861404301, Q Loss: 37231304.1328125, Actor Loss: -494290.13916015625  
Episode 9477: Time: 0.2828679084777832, Total Reward: 165.01141603499286, Q Loss: 12648543.609375, Actor Loss: -158626.1728515625  
Episode 9478: Time: 0.19328689575195312, Total Reward: 109.93785344525921, Q Loss: 8075760.59375, Actor Loss: -108982.8203125  
Episode 9479: Time: 0.17947769165039062, Total Reward: 100.27261675607535, Q Loss: 7563274.453125, Actor Loss: -101463.123046875  
Episode 9480: Time: 1.6340584754943848, Total Reward: 1011.3357315238178, Q Loss: 66702867.84375, Actor Loss: -939750.453125  
Episode 9481: Time: 0.14898133277893066, Total Reward: 81.59289401130515, Q Loss: 6823345.734375, Actor Loss: -84673.22412109375

Episode 9482: Time: 0.3129429817199707, Total Reward: 184.36797950861848, Q Loss: 12353282.296875, Actor Loss: -185705.10791015625  
Episode 9483: Time: 0.17882633209228516, Total Reward: 100.26020685597359, Q Loss: 10112583.890625, Actor Loss: -100751.650390625  
Episode 9484: Time: 0.5209777355194092, Total Reward: 314.60072582644943, Q Loss: 20252026.0625, Actor Loss: -302588.02294921875  
Episode 9485: Time: 0.5346989631652832, Total Reward: 322.56498962867727, Q Loss: 22136402.484375, Actor Loss: -311492.72119140625  
Episode 9486: Time: 0.3270442485809326, Total Reward: 193.6268069109194, Q Loss: 11997281.765625, Actor Loss: -186042.98486328125  
Episode 9487: Time: 0.4902048110961914, Total Reward: 295.33668709872916, Q Loss: 21513020.703125, Actor Loss: -281141.73974609375  
Episode 9488: Time: 0.2679882049560547, Total Reward: 155.5118005476168, Q Loss: 11261152.3125, Actor Loss: -151853.2109375  
Episode 9489: Time: 0.7137818336486816, Total Reward: 435.596535091719, Q Loss: 28360116.046875, Actor Loss: -408329.16748046875  
Episode 9490: Time: 1.558455228805542, Total Reward: 968.1869263346256, Q Loss: 58089588.625, Actor Loss: -896490.2705078125  
Episode 9491: Time: 0.7575931549072266, Total Reward: 463.3904079624561, Q Loss: 30086685.453125, Actor Loss: -436848.22216796875  
Episode 9492: Time: 0.47539663314819336, Total Reward: 285.8148781944771, Q Loss: 19438453.75, Actor Loss: -271543.03759765625  
Episode 9493: Time: 0.34261393547058105, Total Reward: 202.66022161544475, Q Loss: 14254208.71875, Actor Loss: -193297.51123046875  
Episode 9494: Time: 0.19360947608947754, Total Reward: 109.85276999790159, Q Loss: 6716051.375, Actor Loss: -115974.865234375  
Episode 9495: Time: 0.23798155784606934, Total Reward: 138.1332226617704, Q Loss: 7096448.78125, Actor Loss: -131662.462890625  
Episode 9496: Time: 0.16341352462768555, Total Reward: 91.0747398381655, Q Loss: 5936128.59375, Actor Loss: -98535.5009765625  
Episode 9497: Time: 0.14932489395141602, Total Reward: 81.82238709142611, Q Loss: 5137544.59375, Actor Loss: -85756.30810546875  
Episode 9498: Time: 0.13383793830871582, Total Reward: 72.88030921440594, Q Loss: 4168080.296875, Actor Loss: -74181.83251953125  
Episode 9499: Time: 0.6677296161651611, Total Reward: 407.5487160897595, Q Loss: 27468088.453125, Actor Loss: -390291.46533203125  
Validation Mean: 9350.114686755254, Validation Std: 0.2678101041030884  
saving model  
Episode 9500: Time: 0.40328049659729004, Total Reward: 240.0462985439462, Q Loss: 16042872.0, Actor Loss: -229968.28271484375  
Episode 9501: Time: 0.4174010753631592, Total Reward: 248.16312613261306, Q Loss: 16906246.03125, Actor Loss: -237958.2265625  
Episode 9502: Time: 0.34259462356567383, Total Reward: 202.8741023348353, Q Loss: 12450561.59375, Actor Loss: -196240.8623046875  
Episode 9503: Time: 0.3876817226409912, Total Reward: 231.17951524539032, Q Loss: 14702294.625, Actor Loss: -218840.49365234375  
Episode 9504: Time: 0.17875075340270996, Total Reward: 100.62028106898484, Q Loss: 8156786.515625, Actor Loss: -102309.20947265625  
Episode 9505: Time: 0.5352544784545898, Total Reward: 323.0384394008547, Q Loss: 24492864.015625, Actor Loss: -311800.64404296875  
Episode 9506: Time: 0.6401901245117188, Total Reward: 389.08107366202364, Q Loss: 26465645.5, Actor Loss: -372956.3046875  
Episode 9507: Time: 0.4912095069885254, Total Reward: 296.6156672395603, Q Loss: 20678617.265625, Actor Loss: -290141.181640625  
Episode 9508: Time: 0.5805079936981201, Total Reward: 350.1786654198344, Q Loss: 26423925.671875, Actor Loss: -332785.27392578125

Episode 9509: Time: 0.43221211433410645, Total Reward: 258.449182042613, Q Loss: 18625854.5859375, Actor Loss: -249479.615234375  
Episode 9510: Time: 0.14916229248046875, Total Reward: 81.74600375622695, Q Loss: 6705723.7109375, Actor Loss: -81715.1513671875  
Episode 9511: Time: 0.9945077896118164, Total Reward: 611.833630850601, Q Loss: 44325293.859375, Actor Loss: -582641.3198242188  
Episode 9512: Time: 0.5796592235565186, Total Reward: 351.7038495318435, Q Loss: 20005818.609375, Actor Loss: -345833.11572265625  
Episode 9513: Time: 0.13405299186706543, Total Reward: 72.94575344080185, Q Loss: 4250867.4921875, Actor Loss: -74275.4853515625  
Episode 9514: Time: 0.6391124725341797, Total Reward: 388.9230431542876, Q Loss: 24308172.2109375, Actor Loss: -368556.375  
Episode 9515: Time: 0.3121669292449951, Total Reward: 184.31029267777598, Q Loss: 16008382.515625, Actor Loss: -179591.15625  
Episode 9516: Time: 0.5500564575195312, Total Reward: 332.8958893133582, Q Loss: 26365695.90625, Actor Loss: -316638.80224609375  
Episode 9517: Time: 0.2982780933380127, Total Reward: 174.85423330354186, Q Loss: 9198533.890625, Actor Loss: -170183.95654296875  
Episode 9518: Time: 0.2235562801361084, Total Reward: 128.68107313731667, Q Loss: 7032972.03125, Actor Loss: -130879.4091796875  
Episode 9519: Time: 0.6997096538543701, Total Reward: 424.05080469157303, Q Loss: 28485728.03125, Actor Loss: -421232.64990234375  
Episode 9520: Time: 0.7879741191864014, Total Reward: 481.98769659584417, Q Loss: 37240044.921875, Actor Loss: -465515.380859375  
Episode 9521: Time: 0.10445451736450195, Total Reward: 53.728349812060095, Q Loss: 3616844.453125, Actor Loss: -60719.33935546875  
Episode 9522: Time: 0.37209486961364746, Total Reward: 221.87758224192078, Q Loss: 15847419.6171875, Actor Loss: -213331.00439453125  
Episode 9523: Time: 0.8921592235565186, Total Reward: 545.150551146923, Q Loss: 39684529.515625, Actor Loss: -518292.783203125  
Episode 9524: Time: 1.1610009670257568, Total Reward: 714.7163913026726, Q Loss: 40091044.4375, Actor Loss: -670466.6547851562  
Episode 9525: Time: 0.5810184478759766, Total Reward: 352.36770970476834, Q Loss: 22117054.21875, Actor Loss: -336985.03857421875  
Episode 9526: Time: 1.3384010791778564, Total Reward: 826.6870837848192, Q Loss: 63604747.796875, Actor Loss: -769908.349609375  
Episode 9527: Time: 0.7734320163726807, Total Reward: 473.67878802245014, Q Loss: 27851398.8125, Actor Loss: -452149.14990234375  
Episode 9528: Time: 0.2975740432739258, Total Reward: 175.08071660621283, Q Loss: 12823661.984375, Actor Loss: -169866.244140625  
Episode 9529: Time: 0.6249403953552246, Total Reward: 379.6560515169753, Q Loss: 25688676.453125, Actor Loss: -365791.38623046875  
Episode 9530: Time: 0.13416266441345215, Total Reward: 72.14273492194569, Q Loss: 4449197.5, Actor Loss: -76065.26611328125  
Episode 9531: Time: 0.5954747200012207, Total Reward: 361.36583082913296, Q Loss: 21623774.1484375, Actor Loss: -348738.55322265625  
Episode 9532: Time: 0.17887330055236816, Total Reward: 100.66919078210962, Q Loss: 11490957.6875, Actor Loss: -104987.755859375  
Episode 9533: Time: 0.8773479461669922, Total Reward: 538.1764065039924, Q Loss: 39810228.203125, Actor Loss: -516197.8994140625  
Episode 9534: Time: 0.8486859798431396, Total Reward: 518.8345162958167, Q Loss: 41406598.828125, Actor Loss: -498912.3642578125  
Episode 9535: Time: 0.1489267349243164, Total Reward: 81.71630631950092, Q Loss: 7214576.03125, Actor Loss: -88994.1806640625  
Episode 9536: Time: 0.3726341724395752, Total Reward: 219.99358274045272, Q Loss: 20330083.625, Actor Loss: -215308.55029296875



Episode 9537: Time: 0.4168875217437744, Total Reward: 248.17498220748993, Q Loss: 20778634.859375, Actor Loss: -243725.14111328125  
Episode 9538: Time: 0.38705015182495117, Total Reward: 231.30681803612063, Q Loss: 17464474.859375, Actor Loss: -228831.00146484375  
Episode 9539: Time: 0.25447964668273926, Total Reward: 147.3173231410605, Q Loss: 11062192.390625, Actor Loss: -146398.08935546875  
Episode 9540: Time: 0.6695446968078613, Total Reward: 406.3062287032684, Q Loss: 28149895.640625, Actor Loss: -387176.50537109375  
Episode 9541: Time: 1.1591644287109375, Total Reward: 715.6025802488929, Q Loss: 52073792.5625, Actor Loss: -694394.09375  
Episode 9542: Time: 0.5200963020324707, Total Reward: 314.58697311305167, Q Loss: 24383146.0, Actor Loss: -304195.185546875  
Episode 9543: Time: 0.3428528308868408, Total Reward: 202.49774776501465, Q Loss: 18570853.59375, Actor Loss: -202464.1083984375  
Episode 9544: Time: 0.282987117767334, Total Reward: 165.12260869415465, Q Loss: 11336936.78125, Actor Loss: -161268.26953125  
Episode 9545: Time: 0.47577357292175293, Total Reward: 285.51764539697797, Q Loss: 19865905.125, Actor Loss: -278417.0654296875  
Episode 9546: Time: 0.2383115291595459, Total Reward: 137.87361911992969, Q Loss: 11249146.40625, Actor Loss: -141889.40283203125  
Episode 9547: Time: 1.277238368988037, Total Reward: 788.4902263066061, Q Loss: 54291772.78125, Actor Loss: -755669.0795898438  
Episode 9548: Time: 0.4459853172302246, Total Reward: 266.7589827073286, Q Loss: 17689445.640625, Actor Loss: -268717.31884765625  
Episode 9549: Time: 0.1934354305267334, Total Reward: 109.39617189395948, Q Loss: 8036038.46875, Actor Loss: -114085.708984375  
Episode 9550: Time: 0.23859858512878418, Total Reward: 137.85381661975288, Q Loss: 11720490.1875, Actor Loss: -141421.84375  
Episode 9551: Time: 0.5942220687866211, Total Reward: 360.1476358739375, Q Loss: 28792533.1875, Actor Loss: -335817.4990234375  
Episode 9552: Time: 0.5349256992340088, Total Reward: 323.89074304382734, Q Loss: 30087589.15625, Actor Loss: -314636.70458984375  
Episode 9553: Time: 0.4168410301208496, Total Reward: 248.18896876640048, Q Loss: 18206829.90625, Actor Loss: -245462.08349609375  
Episode 9554: Time: 0.3426687717437744, Total Reward: 202.8681372722041, Q Loss: 10824396.03125, Actor Loss: -202742.69921875  
Episode 9555: Time: 0.43111324310302734, Total Reward: 258.964829490133, Q Loss: 17485274.4140625, Actor Loss: -254431.20654296875  
Episode 9556: Time: 0.16367220878601074, Total Reward: 90.67142541557033, Q Loss: 8680814.90625, Actor Loss: -97096.689453125  
Episode 9557: Time: 0.876359224319458, Total Reward: 537.9706605874898, Q Loss: 43134148.5625, Actor Loss: -514822.89306640625  
Episode 9558: Time: 0.3122999668121338, Total Reward: 183.83874557782937, Q Loss: 15093951.578125, Actor Loss: -187577.908203125  
Episode 9559: Time: 0.2093064785003662, Total Reward: 118.89696077958834, Q Loss: 11269849.28125, Actor Loss: -118837.767578125  
Episode 9560: Time: 0.9641070365905762, Total Reward: 592.3097525673563, Q Loss: 43846343.25, Actor Loss: -559054.326171875  
Episode 9561: Time: 0.28235554695129395, Total Reward: 165.43231703378535, Q Loss: 15176089.53125, Actor Loss: -171897.71728515625  
Episode 9562: Time: 0.17851662635803223, Total Reward: 101.0005449610816, Q Loss: 6536317.3125, Actor Loss: -106790.326171875  
Episode 9563: Time: 0.5647573471069336, Total Reward: 340.07346878822693, Q Loss: 30100676.203125, Actor Loss: -331671.82666015625  
Episode 9564: Time: 0.4755442142486572, Total Reward: 284.60453951213265, Q Loss: 20988224.109375, Actor Loss: -281198.896484375

Episode 9565: Time: 0.2680642604827881, Total Reward: 154.35949063564686, Q Loss: 14416907.84375, Actor Loss: -158299.52392578125  
Episode 9566: Time: 0.22311878204345703, Total Reward: 128.8023978210805, Q Loss: 10611632.6875, Actor Loss: -134478.5791015625  
Episode 9567: Time: 0.26802802085876465, Total Reward: 155.91864129187616, Q Loss: 9595476.796875, Actor Loss: -157814.43017578125  
Episode 9568: Time: 0.40171241760253906, Total Reward: 241.05098142957902, Q Loss: 16186799.921875, Actor Loss: -240365.98193359375  
Episode 9569: Time: 0.6549723148345947, Total Reward: 397.81736677845373, Q Loss: 28467198.328125, Actor Loss: -388284.54052734375  
Episode 9570: Time: 0.3872683048248291, Total Reward: 231.3556262197683, Q Loss: 16699276.84375, Actor Loss: -223948.798828125  
Episode 9571: Time: 0.23897099494934082, Total Reward: 136.55043188068683, Q Loss: 7797358.90625, Actor Loss: -142425.365234375  
Episode 9572: Time: 0.26810693740844727, Total Reward: 155.50570082069748, Q Loss: 13677200.328125, Actor Loss: -155477.982421875  
Episode 9573: Time: 0.2232201099395752, Total Reward: 128.50582024912458, Q Loss: 10500790.0625, Actor Loss: -135428.53369140625  
Episode 9574: Time: 0.505542516708374, Total Reward: 305.21334983343775, Q Loss: 19597770.90625, Actor Loss: -299244.2685546875  
Episode 9575: Time: 0.4307737350463867, Total Reward: 258.6995861091687, Q Loss: 17586924.71875, Actor Loss: -255657.783203125  
Episode 9576: Time: 0.22359132766723633, Total Reward: 127.87535519268106, Q Loss: 11529910.0625, Actor Loss: -130292.26025390625  
Episode 9577: Time: 0.6240711212158203, Total Reward: 377.3259427508016, Q Loss: 29755660.703125, Actor Loss: -365263.90185546875  
Episode 9578: Time: 0.6834266185760498, Total Reward: 416.2992502120608, Q Loss: 35724960.890625, Actor Loss: -413753.84423828125  
Episode 9579: Time: 0.46099352836608887, Total Reward: 276.8364832413137, Q Loss: 20158579.390625, Actor Loss: -280594.22314453125  
Episode 9580: Time: 1.2464885711669922, Total Reward: 771.6073207981436, Q Loss: 58406558.890625, Actor Loss: -745200.2797851562  
Episode 9581: Time: 0.13407373428344727, Total Reward: 72.27901832087588, Q Loss: 6609742.625, Actor Loss: -80203.57861328125  
Episode 9582: Time: 0.3719785213470459, Total Reward: 221.89864283284373, Q Loss: 14779876.390625, Actor Loss: -223055.85888671875  
Episode 9583: Time: 0.5796170234680176, Total Reward: 349.73010891731485, Q Loss: 31143621.0, Actor Loss: -345086.86865234375  
Episode 9584: Time: 0.8770608901977539, Total Reward: 537.9511149339513, Q Loss: 37574305.140625, Actor Loss: -523904.70751953125  
Episode 9585: Time: 0.38736820220947266, Total Reward: 230.71146181683767, Q Loss: 21206734.3125, Actor Loss: -231699.09814453125  
Episode 9586: Time: 0.32803916931152344, Total Reward: 192.99333669117192, Q Loss: 12530279.453125, Actor Loss: -197173.9130859375  
Episode 9587: Time: 0.11930155754089355, Total Reward: 63.112589267170314, Q Loss: 5393098.78125, Actor Loss: -69949.49755859375  
Episode 9588: Time: 0.2830944061279297, Total Reward: 165.24566118411272, Q Loss: 13548955.53125, Actor Loss: -164671.36865234375  
Episode 9589: Time: 0.13431715965270996, Total Reward: 72.93474645774299, Q Loss: 5653710.953125, Actor Loss: -76152.74853515625  
Episode 9590: Time: 0.16437625885009766, Total Reward: 90.68129091670761, Q Loss: 6431180.8125, Actor Loss: -100326.25390625  
Episode 9591: Time: 0.7294549942016602, Total Reward: 445.25170465855405, Q Loss: 34300411.328125, Actor Loss: -432682.921875  
Episode 9592: Time: 0.2981836795806885, Total Reward: 175.5831110019619, Q Loss: 15216049.03125, Actor Loss: -184928.84619140625

Episode 9593: Time: 0.8493514060974121, Total Reward: 517.6199410000902, Q Loss: 43832461.09375, Actor Loss: -515366.298828125  
Episode 9594: Time: 0.40117478370666504, Total Reward: 240.44027796348607, Q Loss: 17749637.78125, Actor Loss: -242829.4462890625  
Episode 9595: Time: 0.2677891254425049, Total Reward: 156.50313153408428, Q Loss: 11035229.296875, Actor Loss: -153193.78857421875  
Episode 9596: Time: 1.0532212257385254, Total Reward: 650.4197571047108, Q Loss: 51245518.984375, Actor Loss: -637314.5439453125  
Episode 9597: Time: 0.26786088943481445, Total Reward: 156.72122691615502, Q Loss: 13417627.5, Actor Loss: -167511.30859375  
Episode 9598: Time: 0.7136275768280029, Total Reward: 435.8250828535111, Q Loss: 38802671.546875, Actor Loss: -425673.14599609375  
Episode 9599: Time: 0.2985405921936035, Total Reward: 174.218352384118, Q Loss: 13030718.453125, Actor Loss: -179444.55712890625  
Validation Mean: 9348.76755774455, Validation Std: 0.2530014446265912  
saving model  
Episode 9600: Time: 0.26938438415527344, Total Reward: 156.31347065928247, Q Loss: 17084207.15625, Actor Loss: -166367.154296875  
Episode 9601: Time: 0.40176916122436523, Total Reward: 237.83290788313016, Q Loss: 17006854.4375, Actor Loss: -233169.46142578125  
Episode 9602: Time: 0.14914274215698242, Total Reward: 81.4182673943356, Q Loss: 6275230.640625, Actor Loss: -89448.8388671875  
Episode 9603: Time: 0.20873236656188965, Total Reward: 119.41694600777727, Q Loss: 7355233.46875, Actor Loss: -125296.7177734375  
Episode 9604: Time: 0.31243228912353516, Total Reward: 184.79778702474212, Q Loss: 10717500.71875, Actor Loss: -186562.5390625  
Episode 9605: Time: 0.0894474983215332, Total Reward: 44.70348560045761, Q Loss: 7392886.75, Actor Loss: -57923.271484375  
Episode 9606: Time: 0.35683369636535645, Total Reward: 212.08220500967298, Q Loss: 12965276.09375, Actor Loss: -211465.779296875  
Episode 9607: Time: 0.34210753440856934, Total Reward: 201.6421735650147, Q Loss: 17699415.125, Actor Loss: -203937.91259765625  
Episode 9608: Time: 0.5047085285186768, Total Reward: 305.35310449569306, Q Loss: 23453754.875, Actor Loss: -307575.9619140625  
Episode 9609: Time: 0.26837587356567383, Total Reward: 156.80545607874978, Q Loss: 12532459.75, Actor Loss: -156638.9228515625  
Episode 9610: Time: 0.624030590057373, Total Reward: 378.52723746604886, Q Loss: 26254352.3125, Actor Loss: -375221.3466796875  
Episode 9611: Time: 0.1638939380645752, Total Reward: 91.14303220734129, Q Loss: 7159983.78125, Actor Loss: -101423.69921875  
Episode 9612: Time: 0.19371700286865234, Total Reward: 109.84250612583254, Q Loss: 8607914.5078125, Actor Loss: -118144.5615234375  
Episode 9613: Time: 0.5198476314544678, Total Reward: 315.36832332371273, Q Loss: 26448453.15625, Actor Loss: -313478.611328125  
Episode 9614: Time: 0.3283250331878662, Total Reward: 193.2167207320965, Q Loss: 20723984.65625, Actor Loss: -196399.68896484375  
Episode 9615: Time: 0.19328641891479492, Total Reward: 110.11702306170704, Q Loss: 8940529.5, Actor Loss: -119862.3095703125  
Episode 9616: Time: 0.5938911437988281, Total Reward: 359.74048856167644, Q Loss: 28884699.25, Actor Loss: -355303.30126953125  
Episode 9617: Time: 0.6088058948516846, Total Reward: 369.5587925230336, Q Loss: 31907225.03125, Actor Loss: -362717.9111328125  
Episode 9618: Time: 0.550898551940918, Total Reward: 331.0508549422853, Q Loss: 23732835.78125, Actor Loss: -328926.8095703125  
Episode 9619: Time: 0.7577803134918213, Total Reward: 464.2513974775471, Q Loss: 38623268.015625, Actor Loss: -452985.20654296875

Episode 9620: Time: 0.14911961555480957, Total Reward: 81.97420807459117, Q Loss: 6150765.828125, Actor Loss: -92828.0029296875  
Episode 9621: Time: 0.34239768981933594, Total Reward: 202.88163107453838, Q Loss: 15389890.15625, Actor Loss: -210709.69873046875  
Episode 9622: Time: 0.40149521827697754, Total Reward: 238.00490063720483, Q Loss: 21172741.8125, Actor Loss: -235304.81884765625  
Episode 9623: Time: 0.7425260543823242, Total Reward: 453.37354264825854, Q Loss: 37007211.0, Actor Loss: -444461.81201171875  
Episode 9624: Time: 0.8023285865783691, Total Reward: 489.2528438785625, Q Loss: 38926766.234375, Actor Loss: -480408.0986328125  
Episode 9625: Time: 0.4465312957763672, Total Reward: 268.39351606208504, Q Loss: 15499778.3125, Actor Loss: -259844.16796875  
Episode 9626: Time: 0.2834506034851074, Total Reward: 166.10513911788092, Q Loss: 9414027.1875, Actor Loss: -171658.9169921875  
Episode 9627: Time: 0.9651708602905273, Total Reward: 593.5022429273445, Q Loss: 44232193.953125, Actor Loss: -585389.2690429688  
Episode 9628: Time: 0.6538465023040771, Total Reward: 398.106140494692, Q Loss: 31383026.125, Actor Loss: -391446.61474609375  
Episode 9629: Time: 0.28296637535095215, Total Reward: 165.84753898885268, Q Loss: 13829532.859375, Actor Loss: -165248.08544921875  
Episode 9630: Time: 0.3133506774902344, Total Reward: 183.62905052722695, Q Loss: 15928507.71875, Actor Loss: -192600.498046875  
Episode 9631: Time: 0.10468912124633789, Total Reward: 53.77821350310825, Q Loss: 4141743.171875, Actor Loss: -62576.06103515625  
Episode 9632: Time: 0.6684479713439941, Total Reward: 406.2022121479427, Q Loss: 32436950.2109375, Actor Loss: -404259.03515625  
Episode 9633: Time: 0.7434148788452148, Total Reward: 449.4465419876192, Q Loss: 30121639.84375, Actor Loss: -460523.01953125  
Episode 9634: Time: 0.5052809715270996, Total Reward: 304.9301104076654, Q Loss: 26755681.09375, Actor Loss: -304736.0751953125  
Episode 9635: Time: 0.44759082794189453, Total Reward: 267.86019362957927, Q Loss: 21982131.8125, Actor Loss: -268238.646484375  
Episode 9636: Time: 0.41687536239624023, Total Reward: 249.37999818004445, Q Loss: 19057861.0625, Actor Loss: -247781.130859375  
Episode 9637: Time: 0.5056407451629639, Total Reward: 305.0677817528701, Q Loss: 23014674.078125, Actor Loss: -304049.1123046875  
Episode 9638: Time: 0.44637084007263184, Total Reward: 267.3461542049661, Q Loss: 21606166.734375, Actor Loss: -271303.47900390625  
Episode 9639: Time: 0.34216809272766113, Total Reward: 202.45138552090367, Q Loss: 15757430.859375, Actor Loss: -208340.47900390625  
Episode 9640: Time: 0.8033101558685303, Total Reward: 489.9861331761219, Q Loss: 34004973.203125, Actor Loss: -484492.8193359375  
Episode 9641: Time: 0.9062821865081787, Total Reward: 555.3759493430313, Q Loss: 48476572.296875, Actor Loss: -549222.3500976562  
Episode 9642: Time: 0.20869874954223633, Total Reward: 118.84345469589486, Q Loss: 9792030.84375, Actor Loss: -124132.47705078125  
Episode 9643: Time: 0.6388909816741943, Total Reward: 390.33851643168657, Q Loss: 26604258.859375, Actor Loss: -380724.25  
Episode 9644: Time: 0.49069952964782715, Total Reward: 295.14542401813935, Q Loss: 26539494.203125, Actor Loss: -304041.42138671875  
Episode 9645: Time: 0.13425993919372559, Total Reward: 72.87703496428736, Q Loss: 3949042.671875, Actor Loss: -80901.6923828125  
Episode 9646: Time: 0.32732558250427246, Total Reward: 193.08063960601208, Q Loss: 15492726.78125, Actor Loss: -204980.10546875  
Episode 9647: Time: 0.5498270988464355, Total Reward: 333.58206183978643, Q Loss: 29200887.15625, Actor Loss: -335724.69287109375

Episode 9648: Time: 0.1935567855834961, Total Reward: 110.13819921989428, Q Loss: 8862511.8125, Actor Loss: -113899.763671875  
Episode 9649: Time: 0.23845815658569336, Total Reward: 137.6347906380683, Q Loss: 11946174.625, Actor Loss: -143688.47509765625  
Episode 9650: Time: 0.2232365608215332, Total Reward: 128.66642566152788, Q Loss: 8638489.5625, Actor Loss: -139659.2392578125  
Episode 9651: Time: 0.9064702987670898, Total Reward: 553.2474034266461, Q Loss: 41178330.078125, Actor Loss: -545462.4809570312  
Episode 9652: Time: 0.17886066436767578, Total Reward: 100.35945433090373, Q Loss: 9288433.96875, Actor Loss: -107884.49365234375  
Episode 9653: Time: 0.5793194770812988, Total Reward: 350.2985780825669, Q Loss: 26981334.65625, Actor Loss: -353611.46875  
Episode 9654: Time: 0.7132058143615723, Total Reward: 434.64069516661874, Q Loss: 37134203.671875, Actor Loss: -433181.9912109375  
Episode 9655: Time: 0.5802052021026611, Total Reward: 351.3379850363621, Q Loss: 30054175.125, Actor Loss: -353967.77587890625  
Episode 9656: Time: 0.6087524890899658, Total Reward: 369.9802773366302, Q Loss: 28460861.609375, Actor Loss: -374392.484375  
Episode 9657: Time: 0.23843789100646973, Total Reward: 137.85175688199556, Q Loss: 12807345.0, Actor Loss: -147560.79296875  
Episode 9658: Time: 0.4013233184814453, Total Reward: 240.83286543567343, Q Loss: 22401253.828125, Actor Loss: -250683.7783203125  
Episode 9659: Time: 0.5797209739685059, Total Reward: 350.9219862295609, Q Loss: 26222738.234375, Actor Loss: -349168.60986328125  
Episode 9660: Time: 0.19344615936279297, Total Reward: 109.6811943077018, Q Loss: 8702381.34375, Actor Loss: -117099.173828125  
Episode 9661: Time: 0.5798108577728271, Total Reward: 352.352642469281, Q Loss: 27517061.4375, Actor Loss: -359397.568359375  
Episode 9662: Time: 0.07482457160949707, Total Reward: 35.468104942633936, Q Loss: 4101120.59375, Actor Loss: -43881.4033203125  
Episode 9663: Time: 0.4916989803314209, Total Reward: 294.90977164160154, Q Loss: 21364071.1015625, Actor Loss: -301773.763671875  
Episode 9664: Time: 0.683509111404419, Total Reward: 417.0158034155964, Q Loss: 31997776.8125, Actor Loss: -417886.2802734375  
Episode 9665: Time: 0.23851704597473145, Total Reward: 138.0168784242453, Q Loss: 12479897.328125, Actor Loss: -143126.27978515625  
Episode 9666: Time: 0.6389894485473633, Total Reward: 388.796452505023, Q Loss: 27959701.8125, Actor Loss: -376947.10107421875  
Episode 9667: Time: 0.9948456287384033, Total Reward: 611.9982217778869, Q Loss: 51372156.703125, Actor Loss: -611545.0415039062  
Episode 9668: Time: 0.3868420124053955, Total Reward: 230.61657303826476, Q Loss: 18186319.5, Actor Loss: -236050.37109375  
Episode 9669: Time: 0.23817658424377441, Total Reward: 137.4371232431832, Q Loss: 13564883.15625, Actor Loss: -147255.517578125  
Episode 9670: Time: 0.6980376243591309, Total Reward: 426.62535150091384, Q Loss: 35595341.59375, Actor Loss: -428347.662109375  
Episode 9671: Time: 0.5354814529418945, Total Reward: 321.5243489901406, Q Loss: 31815626.71875, Actor Loss: -330237.0595703125  
Episode 9672: Time: 0.3275761604309082, Total Reward: 191.83814022250368, Q Loss: 15246073.15625, Actor Loss: -198234.06591796875  
Episode 9673: Time: 0.8766264915466309, Total Reward: 538.4735157930229, Q Loss: 40888781.640625, Actor Loss: -532878.3413085938  
Episode 9674: Time: 0.8457422256469727, Total Reward: 518.3469158275101, Q Loss: 42218774.0, Actor Loss: -513994.89013671875  
Episode 9675: Time: 0.34206724166870117, Total Reward: 202.82691528652288, Q Loss: 18463436.90625, Actor Loss: -211371.76318359375

Episode 9676: Time: 0.19345664978027344, Total Reward: 109.80826528505023, Q Loss: 11912980.671875, Actor Loss: -116126.70654296875  
Episode 9677: Time: 0.3569924831390381, Total Reward: 212.58695448199262, Q Loss: 20962229.890625, Actor Loss: -217484.408203125  
Episode 9678: Time: 0.7277729511260986, Total Reward: 445.7119574495573, Q Loss: 35541931.6484375, Actor Loss: -449829.78369140625  
Episode 9679: Time: 0.28302550315856934, Total Reward: 165.7233436680357, Q Loss: 10729750.734375, Actor Loss: -169066.6376953125  
Episode 9680: Time: 1.3506944179534912, Total Reward: 835.4614319396924, Q Loss: 59133750.28125, Actor Loss: -817609.8466796875  
Episode 9681: Time: 0.13413310050964355, Total Reward: 72.90466471860483, Q Loss: 7901707.5625, Actor Loss: -81548.4033203125  
Episode 9682: Time: 0.594630241394043, Total Reward: 359.74292943749913, Q Loss: 30807521.90625, Actor Loss: -361765.49658203125  
Episode 9683: Time: 0.1487419605255127, Total Reward: 81.99796763976188, Q Loss: 6974011.359375, Actor Loss: -92829.3115234375  
Episode 9684: Time: 0.44592785835266113, Total Reward: 268.0318653040634, Q Loss: 20279254.09375, Actor Loss: -277484.46728515625  
Episode 9685: Time: 0.5342423915863037, Total Reward: 324.97877020968815, Q Loss: 28384354.171875, Actor Loss: -327063.76806640625  
Episode 9686: Time: 0.47594761848449707, Total Reward: 287.2250644575222, Q Loss: 25112033.765625, Actor Loss: -301974.84423828125  
Episode 9687: Time: 0.430478572845459, Total Reward: 256.0700710208484, Q Loss: 17785577.9375, Actor Loss: -262728.37841796875  
Episode 9688: Time: 0.5497472286224365, Total Reward: 334.6636751174045, Q Loss: 26187982.125, Actor Loss: -342736.81884765625  
Episode 9689: Time: 0.6241888999938965, Total Reward: 380.7661385175884, Q Loss: 32486845.78125, Actor Loss: -386034.9345703125  
Episode 9690: Time: 0.4751918315887451, Total Reward: 286.54065864120247, Q Loss: 22220335.78125, Actor Loss: -285861.72119140625  
Episode 9691: Time: 0.4754304885864258, Total Reward: 287.14836126670156, Q Loss: 21842970.765625, Actor Loss: -295797.3134765625  
Episode 9692: Time: 0.19428539276123047, Total Reward: 109.6846917688421, Q Loss: 9024374.203125, Actor Loss: -119526.2548828125  
Episode 9693: Time: 0.743751049041748, Total Reward: 454.72399866311207, Q Loss: 31981431.6875, Actor Loss: -460917.46435546875  
Episode 9694: Time: 0.5061426162719727, Total Reward: 305.26703064478346, Q Loss: 21693426.359375, Actor Loss: -303368.90380859375  
Episode 9695: Time: 0.7579660415649414, Total Reward: 462.90983304547206, Q Loss: 41300823.140625, Actor Loss: -469138.8359375  
Episode 9696: Time: 0.37256693840026855, Total Reward: 220.31491526459806, Q Loss: 21029213.9375, Actor Loss: -233728.26953125  
Episode 9697: Time: 0.8182191848754883, Total Reward: 501.23458044863133, Q Loss: 45532289.9296875, Actor Loss: -514111.73681640625  
Episode 9698: Time: 0.4461393356323242, Total Reward: 268.24145842817296, Q Loss: 20615566.375, Actor Loss: -276837.830078125  
Episode 9699: Time: 0.2531914710998535, Total Reward: 146.30098488354088, Q Loss: 11669103.8671875, Actor Loss: -157496.6455078125  
Validation Mean: 9349.398176098326, Validation Std: 0.3121482491842685  
saving model  
Episode 9700: Time: 0.21010708808898926, Total Reward: 119.80891457940889, Q Loss: 7576613.375, Actor Loss: -129452.1220703125  
Episode 9701: Time: 0.4468247890472412, Total Reward: 269.10943113291813, Q Loss: 23115098.765625, Actor Loss: -267380.7939453125  
Episode 9702: Time: 0.3731536865234375, Total Reward: 219.8953945778851, Q Loss: 21117721.578125, Actor Loss: -237965.0751953125

Episode 9703: Time: 0.35742855072021484, Total Reward: 212.66362473343756, Q Loss: 18643258.359375, Actor Loss: -220279.35986328125  
Episode 9704: Time: 0.4162771701812744, Total Reward: 249.33364806324016, Q Loss: 22240911.15625, Actor Loss: -255594.666015625  
Episode 9705: Time: 0.7430047988891602, Total Reward: 453.8609028195738, Q Loss: 38762109.90625, Actor Loss: -460761.80126953125  
Episode 9706: Time: 0.23812031745910645, Total Reward: 137.56463171645814, Q Loss: 17914747.53125, Actor Loss: -147375.54052734375  
Episode 9707: Time: 0.20827484130859375, Total Reward: 118.86052767494887, Q Loss: 9010343.34375, Actor Loss: -127211.8388671875  
Episode 9708: Time: 0.5046284198760986, Total Reward: 304.6726893813637, Q Loss: 27593939.28125, Actor Loss: -317160.859375  
Episode 9709: Time: 0.40151095390319824, Total Reward: 238.87449386060788, Q Loss: 18099753.546875, Actor Loss: -251238.3603515625  
Episode 9710: Time: 0.223524808883667, Total Reward: 128.54848877885823, Q Loss: 8399140.75, Actor Loss: -133097.77294921875  
Episode 9711: Time: 0.14876890182495117, Total Reward: 81.34992436283126, Q Loss: 7793272.171875, Actor Loss: -91239.908203125  
Episode 9712: Time: 0.43059659004211426, Total Reward: 258.6024836600195, Q Loss: 20945675.21875, Actor Loss: -265555.58251953125  
Episode 9713: Time: 0.6829962730407715, Total Reward: 416.66444659125096, Q Loss: 35106936.46875, Actor Loss: -420381.33251953125  
Episode 9714: Time: 0.6244196891784668, Total Reward: 380.8025166705253, Q Loss: 28624645.78125, Actor Loss: -393496.2978515625  
Episode 9715: Time: 0.5493271350860596, Total Reward: 330.23840239192066, Q Loss: 24990532.109375, Actor Loss: -341478.9619140625  
Episode 9716: Time: 0.17880606651306152, Total Reward: 100.65277962015834, Q Loss: 11163919.90625, Actor Loss: -111201.20751953125  
Episode 9717: Time: 1.8260722160339355, Total Reward: 1131.7526103516664, Q Loss: 94336546.109375, Actor Loss: -1140001.8374023438  
Episode 9718: Time: 0.5197229385375977, Total Reward: 312.5458969571113, Q Loss: 23589527.5, Actor Loss: -323002.86669921875  
Episode 9719: Time: 0.08949732780456543, Total Reward: 44.701512428156654, Q Loss: 2386678.453125, Actor Loss: -53678.24072265625  
Episode 9720: Time: 0.3416903018951416, Total Reward: 203.07307758865005, Q Loss: 21868614.34375, Actor Loss: -213782.9423828125  
Episode 9721: Time: 0.11903762817382812, Total Reward: 63.02249977533918, Q Loss: 4834126.28125, Actor Loss: -72335.61474609375  
Episode 9722: Time: 0.5363531112670898, Total Reward: 323.7227582610911, Q Loss: 27021373.265625, Actor Loss: -328163.1748046875  
Episode 9723: Time: 0.5350956916809082, Total Reward: 323.6348641650609, Q Loss: 29975521.015625, Actor Loss: -335345.66552734375  
Episode 9724: Time: 0.5048933029174805, Total Reward: 305.72114473399205, Q Loss: 22881651.515625, Actor Loss: -323215.0927734375  
Episode 9725: Time: 0.4309680461883545, Total Reward: 258.2790071276199, Q Loss: 22652624.40625, Actor Loss: -270519.1474609375  
Episode 9726: Time: 0.31208181381225586, Total Reward: 183.84096317473697, Q Loss: 12721994.515625, Actor Loss: -199047.791015625  
Episode 9727: Time: 0.14897394180297852, Total Reward: 82.41527300404569, Q Loss: 9221314.53125, Actor Loss: -91036.66162109375  
Episode 9728: Time: 0.3124518394470215, Total Reward: 184.7115509323525, Q Loss: 15083128.25, Actor Loss: -202212.9833984375  
Episode 9729: Time: 0.9947636127471924, Total Reward: 612.0785288511329, Q Loss: 52568082.21875, Actor Loss: -618591.7563476562  
Episode 9730: Time: 0.2231121063232422, Total Reward: 128.15184617489774, Q Loss: 10267435.71875, Actor Loss: -140848.4951171875

Episode 9731: Time: 0.28209805488586426, Total Reward: 165.58682200703063, Q Loss: 13913068.1171875, Actor Loss: -177143.900390625  
Episode 9732: Time: 0.9931714534759521, Total Reward: 609.740907589659, Q Loss: 52315358.21875, Actor Loss: -625401.44921875  
Episode 9733: Time: 0.4756326675415039, Total Reward: 285.26413301706134, Q Loss: 27408286.859375, Actor Loss: -300708.92529296875  
Episode 9734: Time: 0.17827844619750977, Total Reward: 99.56814820606294, Q Loss: 10280663.53125, Actor Loss: -104933.166015625  
Episode 9735: Time: 0.5196259021759033, Total Reward: 314.83026298052835, Q Loss: 24314293.1875, Actor Loss: -327561.52197265625  
Episode 9736: Time: 1.1117653846740723, Total Reward: 686.6438550300211, Q Loss: 55299855.5625, Actor Loss: -696111.4755859375  
Episode 9737: Time: 0.29740190505981445, Total Reward: 173.88758985563857, Q Loss: 15616869.9375, Actor Loss: -187075.392578125  
Episode 9738: Time: 0.3707692623138428, Total Reward: 221.92324621195573, Q Loss: 17118386.890625, Actor Loss: -234443.958984375  
Episode 9739: Time: 0.34184932708740234, Total Reward: 203.30055045890433, Q Loss: 15729156.953125, Actor Loss: -220444.61279296875  
Episode 9740: Time: 0.8301112651824951, Total Reward: 510.6472416279308, Q Loss: 43211355.46875, Actor Loss: -528957.9497070312  
Episode 9741: Time: 0.2973296642303467, Total Reward: 175.14138012349383, Q Loss: 14303569.84375, Actor Loss: -189520.55810546875  
Episode 9742: Time: 0.4747145175933838, Total Reward: 285.1569026661468, Q Loss: 27667079.171875, Actor Loss: -293678.26953125  
Episode 9743: Time: 0.3560361862182617, Total Reward: 211.40445866828773, Q Loss: 15526404.421875, Actor Loss: -224125.3525390625  
Episode 9744: Time: 0.34157609939575195, Total Reward: 203.57155175361854, Q Loss: 15706770.46875, Actor Loss: -211510.41943359375  
Episode 9745: Time: 0.4304506778717041, Total Reward: 258.50824412676667, Q Loss: 18203832.84375, Actor Loss: -269678.30224609375  
Episode 9746: Time: 0.23768377304077148, Total Reward: 137.1156084251327, Q Loss: 11267313.359375, Actor Loss: -152168.53759765625  
Episode 9747: Time: 0.10445761680603027, Total Reward: 54.049158059193395, Q Loss: 4865931.15625, Actor Loss: -68714.421875  
Episode 9748: Time: 0.23815035820007324, Total Reward: 136.63590291970573, Q Loss: 9488710.578125, Actor Loss: -149269.9814453125  
Episode 9749: Time: 0.41623401641845703, Total Reward: 249.12279453932246, Q Loss: 21597644.578125, Actor Loss: -258999.42529296875  
Episode 9750: Time: 0.40192556381225586, Total Reward: 240.41985085200332, Q Loss: 23561317.328125, Actor Loss: -247259.6162109375  
Episode 9751: Time: 0.43299365043640137, Total Reward: 258.6948843784743, Q Loss: 23495102.796875, Actor Loss: -272283.51953125  
Episode 9752: Time: 0.862445592880249, Total Reward: 527.7317602481726, Q Loss: 48897679.234375, Actor Loss: -555815.4038085938  
Episode 9753: Time: 1.1576013565063477, Total Reward: 715.829613834056, Q Loss: 64313497.84375, Actor Loss: -737651.3256835938  
Episode 9754: Time: 0.2975943088531494, Total Reward: 175.61212834509288, Q Loss: 16668456.140625, Actor Loss: -187535.294921875  
Episode 9755: Time: 0.69809889793396, Total Reward: 425.9834455282193, Q Loss: 32081609.140625, Actor Loss: -447125.9560546875  
Episode 9756: Time: 1.3194530010223389, Total Reward: 816.1980139570588, Q Loss: 72979807.59375, Actor Loss: -831832.1923828125  
Episode 9757: Time: 0.38727879524230957, Total Reward: 229.39467163061389, Q Loss: 18277460.3125, Actor Loss: -245563.2666015625  
Episode 9758: Time: 0.43111562728881836, Total Reward: 258.00418297110957, Q Loss: 19447137.078125, Actor Loss: -274846.8642578125



Episode 9759: Time: 0.4016072750091553, Total Reward: 239.3648112378615, Q Loss: 21583109.90625, Actor Loss: -253053.60888671875  
Episode 9760: Time: 1.1120493412017822, Total Reward: 687.0630407143148, Q Loss: 58358555.65625, Actor Loss: -718143.3725585938  
Episode 9761: Time: 0.35634946823120117, Total Reward: 211.80888001385264, Q Loss: 16906788.375, Actor Loss: -223729.310546875  
Episode 9762: Time: 1.0087168216705322, Total Reward: 623.1146249784624, Q Loss: 49570589.734375, Actor Loss: -658499.0444335938  
Episode 9763: Time: 0.13454747200012207, Total Reward: 71.94194848088975, Q Loss: 8555535.46875, Actor Loss: -83551.2392578125  
Episode 9764: Time: 0.46187615394592285, Total Reward: 278.07124455435434, Q Loss: 24683844.90625, Actor Loss: -298616.28125  
Episode 9765: Time: 1.0393147468566895, Total Reward: 639.9409801927679, Q Loss: 57716582.65625, Actor Loss: -663435.2939453125  
Episode 9766: Time: 0.3270833492279053, Total Reward: 192.4676983543644, Q Loss: 14932638.59375, Actor Loss: -201454.4248046875  
Episode 9767: Time: 0.4603142738342285, Total Reward: 277.01793835659083, Q Loss: 23908326.265625, Actor Loss: -295494.8564453125  
Episode 9768: Time: 0.6823337078094482, Total Reward: 416.455101318249, Q Loss: 34410673.375, Actor Loss: -429864.95361328125  
Episode 9769: Time: 1.423534631729126, Total Reward: 880.9179639437677, Q Loss: 84307992.734375, Actor Loss: -916902.4677734375  
Episode 9770: Time: 0.7114441394805908, Total Reward: 434.58307292880323, Q Loss: 39923685.65625, Actor Loss: -455127.6708984375  
Episode 9771: Time: 0.11901140213012695, Total Reward: 62.90268164751296, Q Loss: 5771063.0078125, Actor Loss: -76465.35302734375  
Episode 9772: Time: 1.0547058582305908, Total Reward: 648.897304418767, Q Loss: 56074870.40625, Actor Loss: -671686.2978515625  
Episode 9773: Time: 0.5497491359710693, Total Reward: 333.60546415131654, Q Loss: 27196064.6875, Actor Loss: -350382.2998046875  
Episode 9774: Time: 0.29746317863464355, Total Reward: 174.9899147006083, Q Loss: 19235444.4375, Actor Loss: -189467.50146484375  
Episode 9775: Time: 0.5788509845733643, Total Reward: 351.55169821513687, Q Loss: 27056895.171875, Actor Loss: -370414.87158203125  
Episode 9776: Time: 0.49072980880737305, Total Reward: 296.1766468935719, Q Loss: 21700749.890625, Actor Loss: -313185.8408203125  
Episode 9777: Time: 0.8762514591217041, Total Reward: 536.9502526660168, Q Loss: 56775990.328125, Actor Loss: -567211.732421875  
Episode 9778: Time: 1.0401201248168945, Total Reward: 639.959533853105, Q Loss: 59479842.703125, Actor Loss: -663948.021484375  
Episode 9779: Time: 0.4463167190551758, Total Reward: 268.61484390906736, Q Loss: 27765448.03125, Actor Loss: -289141.68310546875  
Episode 9780: Time: 0.11929702758789062, Total Reward: 63.12376205547711, Q Loss: 6710489.671875, Actor Loss: -78168.7509765625  
Episode 9781: Time: 0.1343984603881836, Total Reward: 72.49020861427228, Q Loss: 5838680.578125, Actor Loss: -82764.1748046875  
Episode 9782: Time: 0.5348320007324219, Total Reward: 324.53582164790396, Q Loss: 22810632.078125, Actor Loss: -346247.1201171875  
Episode 9783: Time: 0.5799233913421631, Total Reward: 350.8188579533613, Q Loss: 32035178.1875, Actor Loss: -375723.55859375  
Episode 9784: Time: 0.460648775100708, Total Reward: 278.09510749405655, Q Loss: 21942291.796875, Actor Loss: -299326.5029296875  
Episode 9785: Time: 0.31212449073791504, Total Reward: 183.82095348982043, Q Loss: 15232056.703125, Actor Loss: -200545.603515625  
Episode 9786: Time: 0.4900972843170166, Total Reward: 295.69438035134664, Q Loss: 20420533.171875, Actor Loss: -309882.6357421875

Episode 9787: Time: 0.20821785926818848, Total Reward: 119.38555228789421, Q Loss: 9448569.421875, Actor Loss: -129415.9814453125  
Episode 9788: Time: 0.2678062915802002, Total Reward: 156.5919739140518, Q Loss: 17925994.25, Actor Loss: -173208.3564453125  
Episode 9789: Time: 0.14870762825012207, Total Reward: 81.67344543061631, Q Loss: 10046824.65625, Actor Loss: -99482.0712890625  
Episode 9790: Time: 0.5938794612884521, Total Reward: 360.66623247379283, Q Loss: 32799544.921875, Actor Loss: -380990.95263671875  
Episode 9791: Time: 0.6089253425598145, Total Reward: 370.0839068144279, Q Loss: 31954984.28125, Actor Loss: -390484.4443359375  
Episode 9792: Time: 0.4907341003417969, Total Reward: 296.2554307722026, Q Loss: 26606561.109375, Actor Loss: -317405.18798828125  
Episode 9793: Time: 0.44610047340393066, Total Reward: 267.80835381721823, Q Loss: 21391727.203125, Actor Loss: -281006.8623046875  
Episode 9794: Time: 0.13472819328308105, Total Reward: 72.4077804705544, Q Loss: 6997597.375, Actor Loss: -86070.5361328125  
Episode 9795: Time: 0.34183454513549805, Total Reward: 203.1792392897267, Q Loss: 16296191.875, Actor Loss: -216727.1064453125  
Episode 9796: Time: 0.4459404945373535, Total Reward: 267.7943338474156, Q Loss: 15891445.203125, Actor Loss: -286287.4443359375  
Episode 9797: Time: 0.22350788116455078, Total Reward: 128.94904214689893, Q Loss: 11696915.125, Actor Loss: -138393.7744140625  
Episode 9798: Time: 0.757277250289917, Total Reward: 463.3898826221006, Q Loss: 40944128.640625, Actor Loss: -486280.50732421875  
Episode 9799: Time: 0.6239306926727295, Total Reward: 379.97517490328477, Q Loss: 32862539.46875, Actor Loss: -408902.09912109375  
Validation Mean: 9350.082995176792, Validation Std: 0.3220972574296706  
saving model  
Episode 9800: Time: 0.6123466491699219, Total Reward: 371.19686808189357, Q Loss: 36555509.859375, Actor Loss: -389149.5625  
Episode 9801: Time: 0.5657036304473877, Total Reward: 342.8846224686982, Q Loss: 29838060.484375, Actor Loss: -363531.12646484375  
Episode 9802: Time: 0.32802510261535645, Total Reward: 193.82671424509897, Q Loss: 16718624.953125, Actor Loss: -206195.90625  
Episode 9803: Time: 0.5948116779327393, Total Reward: 361.132316388634, Q Loss: 29746054.65625, Actor Loss: -388749.9287109375  
Episode 9804: Time: 0.28299880027770996, Total Reward: 165.53962981207283, Q Loss: 16806736.25, Actor Loss: -183103.6357421875  
Episode 9805: Time: 0.907318115234375, Total Reward: 557.3520039109342, Q Loss: 45527238.328125, Actor Loss: -585030.951171875  
Episode 9806: Time: 0.43198680877685547, Total Reward: 259.43464523996334, Q Loss: 23958862.40625, Actor Loss: -281310.20654296875  
Episode 9807: Time: 0.11927556991577148, Total Reward: 62.934317563847614, Q Loss: 5129900.90625, Actor Loss: -76966.0673828125  
Episode 9808: Time: 0.506166934967041, Total Reward: 305.75023133614974, Q Loss: 29156886.46875, Actor Loss: -320236.234375  
Episode 9809: Time: 0.17862439155578613, Total Reward: 100.94336115604129, Q Loss: 9677897.015625, Actor Loss: -114738.9453125  
Episode 9810: Time: 0.7732353210449219, Total Reward: 472.47015006941325, Q Loss: 36465137.46875, Actor Loss: -501019.99072265625  
Episode 9811: Time: 0.6541941165924072, Total Reward: 398.5593663566925, Q Loss: 30625505.71875, Actor Loss: -425054.72509765625  
Episode 9812: Time: 0.34203171730041504, Total Reward: 199.45003134326927, Q Loss: 17596546.15625, Actor Loss: -217921.14208984375  
Episode 9813: Time: 0.49094605445861816, Total Reward: 296.4061441596075, Q Loss: 25341286.796875, Actor Loss: -318860.830078125

Episode 9814: Time: 0.26839542388916016, Total Reward: 156.1817643083661, Q Loss: 14998090.484375, Actor Loss: -168485.7236328125  
Episode 9815: Time: 0.23871231079101562, Total Reward: 136.11016658218108, Q Loss: 16187076.5, Actor Loss: -153522.5439453125  
Episode 9816: Time: 0.4313476085662842, Total Reward: 259.6239365363313, Q Loss: 23798862.421875, Actor Loss: -279048.67626953125  
Episode 9817: Time: 0.3573148250579834, Total Reward: 212.48813221010911, Q Loss: 16483388.09375, Actor Loss: -232951.6396484375  
Episode 9818: Time: 0.4464244842529297, Total Reward: 268.49500721578636, Q Loss: 22100675.46875, Actor Loss: -292125.955078125  
Episode 9819: Time: 0.35694146156311035, Total Reward: 212.01495126912056, Q Loss: 15879515.875, Actor Loss: -231162.62353515625  
Episode 9820: Time: 0.25316810607910156, Total Reward: 146.76007029229606, Q Loss: 13794621.671875, Actor Loss: -167948.828125  
Episode 9821: Time: 1.128967046737671, Total Reward: 693.2546613903692, Q Loss: 52785114.25, Actor Loss: -730031.458984375  
Episode 9822: Time: 0.5054688453674316, Total Reward: 305.2547971230569, Q Loss: 27751733.96875, Actor Loss: -318362.529296875  
Episode 9823: Time: 0.7730209827423096, Total Reward: 472.8145543125992, Q Loss: 40817975.84375, Actor Loss: -500834.9931640625  
Episode 9824: Time: 0.17866039276123047, Total Reward: 100.41148512922088, Q Loss: 9724703.875, Actor Loss: -116227.7236328125  
Episode 9825: Time: 0.3576052188873291, Total Reward: 211.55238534855974, Q Loss: 17786685.90625, Actor Loss: -231377.49951171875  
Episode 9826: Time: 0.43137264251708984, Total Reward: 257.62235728108885, Q Loss: 22741181.375, Actor Loss: -282547.185546875  
Episode 9827: Time: 0.5941929817199707, Total Reward: 360.014151152338, Q Loss: 30455791.609375, Actor Loss: -389148.56396484375  
Episode 9828: Time: 0.3713996410369873, Total Reward: 221.03144378325996, Q Loss: 18965970.484375, Actor Loss: -235873.62158203125  
Episode 9829: Time: 0.14885735511779785, Total Reward: 81.59012206314739, Q Loss: 6441822.609375, Actor Loss: -95866.919921875  
Episode 9830: Time: 0.3867957592010498, Total Reward: 229.6896267279299, Q Loss: 20338305.375, Actor Loss: -256717.55419921875  
Episode 9831: Time: 0.19327497482299805, Total Reward: 109.8160955479683, Q Loss: 8762628.0546875, Actor Loss: -123031.2841796875  
Episode 9832: Time: 0.550161600112915, Total Reward: 332.06198800500147, Q Loss: 28348538.640625, Actor Loss: -358460.63525390625  
Episode 9833: Time: 0.37230372428894043, Total Reward: 221.5303116753222, Q Loss: 16109473.078125, Actor Loss: -234301.27734375  
Episode 9834: Time: 0.7876002788543701, Total Reward: 482.47138394458443, Q Loss: 41224500.546875, Actor Loss: -501494.14599609375  
Episode 9835: Time: 0.4904162883758545, Total Reward: 296.308722561263, Q Loss: 30711256.203125, Actor Loss: -316873.7939453125  
Episode 9836: Time: 0.41678524017333984, Total Reward: 250.43607648942358, Q Loss: 25150072.28125, Actor Loss: -273147.86669921875  
Episode 9837: Time: 0.31267690658569336, Total Reward: 183.93929233416839, Q Loss: 16131948.75, Actor Loss: -196409.2822265625  
Episode 9838: Time: 0.4911482334136963, Total Reward: 295.9199322966955, Q Loss: 21159448.65625, Actor Loss: -326439.03125  
Episode 9839: Time: 0.3127274513244629, Total Reward: 184.5990288579204, Q Loss: 13946002.234375, Actor Loss: -205023.06396484375  
Episode 9840: Time: 0.46109747886657715, Total Reward: 276.7501318513846, Q Loss: 27544457.421875, Actor Loss: -308361.81103515625  
Episode 9841: Time: 0.5804624557495117, Total Reward: 351.5714584575365, Q Loss: 38245958.96875, Actor Loss: -372654.25439453125

Episode 9842: Time: 0.4170374870300293, Total Reward: 247.70158787918896, Q Loss: 20849990.515625, Actor Loss: -271002.3525390625  
Episode 9843: Time: 0.4171438217163086, Total Reward: 249.59429184351978, Q Loss: 20029633.125, Actor Loss: -279131.53857421875  
Episode 9844: Time: 0.19354486465454102, Total Reward: 108.50821568463589, Q Loss: 6607442.453125, Actor Loss: -123412.80419921875  
Episode 9845: Time: 0.4917125701904297, Total Reward: 295.7782331509989, Q Loss: 25937105.875, Actor Loss: -316878.779296875  
Episode 9846: Time: 0.44606685638427734, Total Reward: 266.7628047930502, Q Loss: 23233666.421875, Actor Loss: -291445.55029296875  
Episode 9847: Time: 0.14881038665771484, Total Reward: 81.8188499534372, Q Loss: 8447607.59375, Actor Loss: -98351.97412109375  
Episode 9848: Time: 0.5948953628540039, Total Reward: 359.78431659557714, Q Loss: 30444731.9375, Actor Loss: -383771.03125  
Episode 9849: Time: 0.6377921104431152, Total Reward: 386.4034733968789, Q Loss: 25997389.90625, Actor Loss: -425844.37890625  
Episode 9850: Time: 0.40146756172180176, Total Reward: 240.17025663255848, Q Loss: 24941728.21875, Actor Loss: -263150.4443359375  
Episode 9851: Time: 0.23854732513427734, Total Reward: 137.57148534531564, Q Loss: 11592875.40625, Actor Loss: -152614.4990234375  
Episode 9852: Time: 0.20847821235656738, Total Reward: 119.43380191211264, Q Loss: 11667780.265625, Actor Loss: -131503.65283203125  
Episode 9853: Time: 0.14893841743469238, Total Reward: 81.39557298368676, Q Loss: 6432305.609375, Actor Loss: -97104.7626953125  
Episode 9854: Time: 0.3276529312133789, Total Reward: 193.15857851987477, Q Loss: 20603265.640625, Actor Loss: -217034.3779296875  
Episode 9855: Time: 0.22299695014953613, Total Reward: 127.69381410631557, Q Loss: 12886973.65625, Actor Loss: -148557.234375  
Episode 9856: Time: 0.4166078567504883, Total Reward: 249.34236720386684, Q Loss: 20745744.40625, Actor Loss: -272039.20458984375  
Episode 9857: Time: 0.5054163932800293, Total Reward: 305.4769429810498, Q Loss: 28438812.078125, Actor Loss: -335692.66015625  
Episode 9858: Time: 0.14911556243896484, Total Reward: 81.22801270204029, Q Loss: 7095499.625, Actor Loss: -97847.599609375  
Episode 9859: Time: 0.43134284019470215, Total Reward: 257.96729638144546, Q Loss: 24445991.359375, Actor Loss: -285480.0107421875  
Episode 9860: Time: 0.5052657127380371, Total Reward: 303.0530213474205, Q Loss: 28074757.515625, Actor Loss: -330230.8505859375  
Episode 9861: Time: 0.43143415451049805, Total Reward: 258.742970654182, Q Loss: 20138434.796875, Actor Loss: -283872.9482421875  
Episode 9862: Time: 0.41671299934387207, Total Reward: 249.14462207612937, Q Loss: 24902069.171875, Actor Loss: -276669.8486328125  
Episode 9863: Time: 0.8759262561798096, Total Reward: 538.2917619117496, Q Loss: 46788436.140625, Actor Loss: -579561.9672851562  
Episode 9864: Time: 0.2976810932159424, Total Reward: 174.90578065403037, Q Loss: 13895770.78125, Actor Loss: -196959.708984375  
Episode 9865: Time: 0.4756498336791992, Total Reward: 286.34163855564947, Q Loss: 30307236.75, Actor Loss: -318864.2578125  
Episode 9866: Time: 0.44570446014404297, Total Reward: 267.86617073494045, Q Loss: 19035157.90625, Actor Loss: -291274.720703125  
Episode 9867: Time: 0.32709455490112305, Total Reward: 194.13157164257743, Q Loss: 18909094.90625, Actor Loss: -213838.3837890625  
Episode 9868: Time: 0.22306299209594727, Total Reward: 129.1013952841906, Q Loss: 12630148.5625, Actor Loss: -145513.689453125  
Episode 9869: Time: 0.5058145523071289, Total Reward: 305.30164579672436, Q Loss: 26871737.171875, Actor Loss: -333442.7080078125

Episode 9870: Time: 0.31325507164001465, Total Reward: 183.6446316104873, Q Loss: 19075646.34375, Actor Loss: -202571.5703125  
Episode 9871: Time: 0.2826828956604004, Total Reward: 165.67150798620673, Q Loss: 20458770.171875, Actor Loss: -187059.65966796875  
Episode 9872: Time: 0.16392159461975098, Total Reward: 91.19315472510849, Q Loss: 9019747.71875, Actor Loss: -106964.7763671875  
Episode 9873: Time: 0.4162917137145996, Total Reward: 249.94321212470953, Q Loss: 19642487.4375, Actor Loss: -278429.564453125  
Episode 9874: Time: 0.4905400276184082, Total Reward: 296.3195825981505, Q Loss: 20341245.796875, Actor Loss: -319721.11767578125  
Episode 9875: Time: 0.7274866104125977, Total Reward: 445.4480253537573, Q Loss: 37685512.5625, Actor Loss: -473094.34375  
Episode 9876: Time: 0.11915135383605957, Total Reward: 62.9140954703785, Q Loss: 8470702.3125, Actor Loss: -78135.3251953125  
Episode 9877: Time: 0.40172600746154785, Total Reward: 239.53223756324974, Q Loss: 22050466.609375, Actor Loss: -261329.7861328125  
Episode 9878: Time: 0.5205581188201904, Total Reward: 314.6769468422397, Q Loss: 32514101.8125, Actor Loss: -344419.7470703125  
Episode 9879: Time: 0.3878617286682129, Total Reward: 230.28142802157095, Q Loss: 20435030.125, Actor Loss: -247375.13623046875  
Episode 9880: Time: 0.34223151206970215, Total Reward: 202.90903917650883, Q Loss: 21078792.984375, Actor Loss: -225893.4462890625  
Episode 9881: Time: 0.3273193836212158, Total Reward: 192.95316639711217, Q Loss: 20685112.15625, Actor Loss: -216470.798828125  
Episode 9882: Time: 0.14885377883911133, Total Reward: 81.93844723146702, Q Loss: 8279544.8125, Actor Loss: -101120.6005859375  
Episode 9883: Time: 1.4697954654693604, Total Reward: 908.314905229783, Q Loss: 73678409.328125, Actor Loss: -974482.8598632812  
Episode 9884: Time: 0.6984837055206299, Total Reward: 424.9839267516797, Q Loss: 36488835.9375, Actor Loss: -460703.4697265625  
Episode 9885: Time: 0.4610557556152344, Total Reward: 278.07564096216566, Q Loss: 29004980.71875, Actor Loss: -306143.7626953125  
Episode 9886: Time: 0.41612911224365234, Total Reward: 248.76822202917333, Q Loss: 26289031.5625, Actor Loss: -277743.5166015625  
Episode 9887: Time: 0.401108980178833, Total Reward: 239.23353210404906, Q Loss: 24060258.515625, Actor Loss: -265799.62255859375  
Episode 9888: Time: 0.41608333587646484, Total Reward: 248.26131226143767, Q Loss: 24334520.234375, Actor Loss: -277484.6015625  
Episode 9889: Time: 0.17859816551208496, Total Reward: 99.86738461223638, Q Loss: 8439183.9375, Actor Loss: -117920.23828125  
Episode 9890: Time: 0.25298523902893066, Total Reward: 147.05302716641697, Q Loss: 13843171.953125, Actor Loss: -171421.15625  
Episode 9891: Time: 0.3567807674407959, Total Reward: 212.71176314779265, Q Loss: 18392964.9140625, Actor Loss: -230569.63623046875  
Episode 9892: Time: 0.20844125747680664, Total Reward: 119.30957468856978, Q Loss: 10650405.03125, Actor Loss: -132670.3046875  
Episode 9893: Time: 0.37135934829711914, Total Reward: 221.19616642251174, Q Loss: 22088986.46875, Actor Loss: -241320.708984375  
Episode 9894: Time: 0.6091287136077881, Total Reward: 371.2723652591526, Q Loss: 35454203.03125, Actor Loss: -405678.771484375  
Episode 9895: Time: 0.1935734748840332, Total Reward: 109.7832106039868, Q Loss: 9284887.59375, Actor Loss: -128009.072265625  
Episode 9896: Time: 0.22301220893859863, Total Reward: 128.3794594864343, Q Loss: 10334033.921875, Actor Loss: -151276.201171875  
Episode 9897: Time: 0.2972133159637451, Total Reward: 173.74141793437045, Q Loss: 17103822.40625, Actor Loss: -198782.98046875

Episode 9898: Time: 0.26784801483154297, Total Reward: 155.93894427344273, Q Loss: 14879518.53125, Actor Loss: -178807.23046875  
Episode 9899: Time: 0.8016088008880615, Total Reward: 491.27442749573197, Q Loss: 42246649.34375, Actor Loss: -538360.7236328125  
Validation Mean: 9348.824550216876, Validation Std: 0.5817311830902007  
saving model  
Episode 9900: Time: 0.4779629707336426, Total Reward: 285.1885042652966, Q Loss: 22723698.03125, Actor Loss: -311146.14892578125  
Episode 9901: Time: 0.5504791736602783, Total Reward: 332.7848892888585, Q Loss: 31439897.5625, Actor Loss: -366468.92724609375  
Episode 9902: Time: 0.6102025508880615, Total Reward: 369.4905538780815, Q Loss: 38155869.40625, Actor Loss: -405403.9658203125  
Episode 9903: Time: 0.3415944576263428, Total Reward: 202.53518222030928, Q Loss: 19770205.71875, Actor Loss: -226256.7158203125  
Episode 9904: Time: 0.3566162586212158, Total Reward: 212.42582643254718, Q Loss: 18906096.71875, Actor Loss: -237130.970703125  
Episode 9905: Time: 0.6092190742492676, Total Reward: 370.4325783665966, Q Loss: 29550946.53125, Actor Loss: -398830.0322265625  
Episode 9906: Time: 0.4160499572753906, Total Reward: 248.9792800963953, Q Loss: 22320134.90625, Actor Loss: -274031.7451171875  
Episode 9907: Time: 0.9660460948944092, Total Reward: 593.9162116081702, Q Loss: 53199307.390625, Actor Loss: -649139.7392578125  
Episode 9908: Time: 0.7733128070831299, Total Reward: 473.5817631902411, Q Loss: 41832352.46875, Actor Loss: -511967.3525390625  
Episode 9909: Time: 0.3127403259277344, Total Reward: 183.69385669158885, Q Loss: 23003739.6875, Actor Loss: -202578.142578125  
Episode 9910: Time: 0.7588667869567871, Total Reward: 464.77868012278003, Q Loss: 40014006.3125, Actor Loss: -507705.6259765625  
Episode 9911: Time: 0.1637134552001953, Total Reward: 90.9909494026069, Q Loss: 10190183.46875, Actor Loss: -109659.9970703125  
Episode 9912: Time: 0.9953725337982178, Total Reward: 610.072740679325, Q Loss: 53223809.890625, Actor Loss: -643488.6943359375  
Episode 9913: Time: 0.31248044967651367, Total Reward: 183.6518907214139, Q Loss: 18643858.5, Actor Loss: -211539.0361328125  
Episode 9914: Time: 0.520503044128418, Total Reward: 314.86541660479656, Q Loss: 27680092.65625, Actor Loss: -354413.70263671875  
Episode 9915: Time: 0.2530372142791748, Total Reward: 146.58983745580377, Q Loss: 11587892.28125, Actor Loss: -172207.634765625  
Episode 9916: Time: 0.43130040168762207, Total Reward: 249.00360861608212, Q Loss: 22024550.09375, Actor Loss: -285034.5869140625  
Episode 9917: Time: 0.23226666450500488, Total Reward: 155.9747441782129, Q Loss: 15685242.0625, Actor Loss: -174944.91552734375  
Episode 9918: Time: 0.34992456436157227, Total Reward: 257.59381091110436, Q Loss: 23893361.28125, Actor Loss: -283002.2021484375  
Episode 9919: Time: 0.22777509689331055, Total Reward: 164.58901294153122, Q Loss: 19613281.09375, Actor Loss: -184973.50390625  
Episode 9920: Time: 0.1437082290649414, Total Reward: 99.84731350501863, Q Loss: 13679497.4375, Actor Loss: -120440.5146484375  
Episode 9921: Time: 0.25138354301452637, Total Reward: 182.49625547721212, Q Loss: 14316592.109375, Actor Loss: -211887.880859375  
Episode 9922: Time: 0.3222529888153076, Total Reward: 239.73661499292913, Q Loss: 23180395.625, Actor Loss: -270657.068359375  
Episode 9923: Time: 0.5849518775939941, Total Reward: 443.41963073907436, Q Loss: 37587675.328125, Actor Loss: -489050.4404296875  
Episode 9924: Time: 0.5245089530944824, Total Reward: 398.2322962211573, Q Loss: 31490437.125, Actor Loss: -432143.50341796875

Episode 9925: Time: 0.11938858032226562, Total Reward: 82.10474503156638, Q Loss: 8422343.09375, Actor Loss: -97896.9111328125  
Episode 9926: Time: 0.14362335205078125, Total Reward: 100.72855074535507, Q Loss: 14206576.546875, Actor Loss: -120039.7255859375  
Episode 9927: Time: 0.27466821670532227, Total Reward: 201.55949038650473, Q Loss: 18361900.078125, Actor Loss: -231220.9541015625  
Episode 9928: Time: 0.1906423568725586, Total Reward: 138.25142873536504, Q Loss: 11378132.203125, Actor Loss: -161103.578125  
Episode 9929: Time: 0.1194925308227539, Total Reward: 81.92693897324973, Q Loss: 9081359.6875, Actor Loss: -101081.11572265625  
Episode 9930: Time: 0.3220486640930176, Total Reward: 239.13210497874798, Q Loss: 17321973.609375, Actor Loss: -261612.85400390625  
Episode 9931: Time: 0.3766193389892578, Total Reward: 265.60470876111714, Q Loss: 23460293.1875, Actor Loss: -304661.58984375  
Episode 9932: Time: 0.2660694122314453, Total Reward: 194.05424859753876, Q Loss: 22649394.5, Actor Loss: -217989.2236328125  
Episode 9933: Time: 0.5501337051391602, Total Reward: 416.7977804108589, Q Loss: 43630567.0625, Actor Loss: -453716.9228515625  
Episode 9934: Time: 0.7150676250457764, Total Reward: 547.2580119000302, Q Loss: 48088275.140625, Actor Loss: -608612.759765625  
Episode 9935: Time: 0.3817167282104492, Total Reward: 287.3333597289968, Q Loss: 27546069.09375, Actor Loss: -317538.2158203125  
Episode 9936: Time: 0.19096040725708008, Total Reward: 137.93447618410983, Q Loss: 15619730.4375, Actor Loss: -162120.306640625  
Episode 9937: Time: 0.2977445125579834, Total Reward: 220.4432244809949, Q Loss: 19846561.734375, Actor Loss: -245390.1533203125  
Episode 9938: Time: 0.905663251876831, Total Reward: 696.736392754147, Q Loss: 55611876.015625, Actor Loss: -767346.482421875  
Episode 9939: Time: 0.47669529914855957, Total Reward: 361.8402387018329, Q Loss: 32458937.421875, Actor Loss: -400949.4384765625  
Episode 9940: Time: 0.10772585868835449, Total Reward: 72.51416810866175, Q Loss: 5603039.125, Actor Loss: -88524.38525390625  
Episode 9941: Time: 0.16708087921142578, Total Reward: 118.95790709648074, Q Loss: 8268818.59375, Actor Loss: -142994.509765625  
Episode 9942: Time: 0.15529704093933105, Total Reward: 109.76352911850144, Q Loss: 9456126.828125, Actor Loss: -131520.77734375  
Episode 9943: Time: 0.428663969039917, Total Reward: 322.9154899723534, Q Loss: 33841164.171875, Actor Loss: -364133.8974609375  
Episode 9944: Time: 0.15499138832092285, Total Reward: 110.11565776042765, Q Loss: 12636658.4375, Actor Loss: -127705.7236328125  
Episode 9945: Time: 0.13146018981933594, Total Reward: 90.77577470994777, Q Loss: 11522901.921875, Actor Loss: -108347.53125  
Episode 9946: Time: 0.5122509002685547, Total Reward: 388.75972211601015, Q Loss: 37117990.234375, Actor Loss: -429930.6923828125  
Episode 9947: Time: 0.3339855670928955, Total Reward: 249.6536033223419, Q Loss: 25902106.59375, Actor Loss: -283196.646484375  
Episode 9948: Time: 0.15498757362365723, Total Reward: 110.2544398803642, Q Loss: 15797514.046875, Actor Loss: -135851.1240234375  
Episode 9949: Time: 0.7256169319152832, Total Reward: 556.8676025991066, Q Loss: 47121482.25, Actor Loss: -608913.8662109375  
Episode 9950: Time: 0.11934161186218262, Total Reward: 81.78674562099175, Q Loss: 11032906.21875, Actor Loss: -100141.7470703125  
Episode 9951: Time: 0.452054500579834, Total Reward: 340.7067164881445, Q Loss: 37985380.515625, Actor Loss: -373662.0654296875  
Episode 9952: Time: 0.28653645515441895, Total Reward: 212.36924559298603, Q Loss: 21431472.65625, Actor Loss: -238604.13671875

Episode 9953: Time: 0.6072967052459717, Total Reward: 462.373714057009, Q Loss: 39644360.046875, Actor Loss: -508183.033203125  
Episode 9954: Time: 0.10734438896179199, Total Reward: 72.10524941030232, Q Loss: 8713619.875, Actor Loss: -98161.7236328125  
Episode 9955: Time: 0.25041937828063965, Total Reward: 184.1808621967524, Q Loss: 15899207.9375, Actor Loss: -207689.5478515625  
Episode 9956: Time: 0.21426653861999512, Total Reward: 155.73585937746736, Q Loss: 15758907.421875, Actor Loss: -185794.400390625  
Episode 9957: Time: 0.2462630271911621, Total Reward: 183.55769689282926, Q Loss: 21240031.28125, Actor Loss: -212621.0439453125  
Episode 9958: Time: 0.19535398483276367, Total Reward: 145.67528083757475, Q Loss: 11336471.4375, Actor Loss: -168072.0908203125  
Episode 9959: Time: 0.44043850898742676, Total Reward: 331.81695021916005, Q Loss: 38794625.0, Actor Loss: -375245.4404296875  
Episode 9960: Time: 0.1787703037261963, Total Reward: 128.29972946195042, Q Loss: 19293097.9375, Actor Loss: -146365.53466796875  
Episode 9961: Time: 0.857093095779419, Total Reward: 658.8977858470454, Q Loss: 62551215.515625, Actor Loss: -714607.1455078125  
Episode 9962: Time: 1.154188632965088, Total Reward: 891.3750855529466, Q Loss: 80443745.46875, Actor Loss: -962534.3227539062  
Episode 9963: Time: 0.251370906829834, Total Reward: 184.60410992628107, Q Loss: 18398331.96875, Actor Loss: -216930.630859375  
Episode 9964: Time: 0.19074583053588867, Total Reward: 137.8436421922352, Q Loss: 14232060.875, Actor Loss: -162531.5908203125  
Episode 9965: Time: 0.6071681976318359, Total Reward: 463.0444478602307, Q Loss: 49732674.09375, Actor Loss: -508843.1962890625  
Episode 9966: Time: 0.4171478748321533, Total Reward: 314.7036923752674, Q Loss: 29108117.984375, Actor Loss: -357745.5322265625  
Episode 9967: Time: 0.14321160316467285, Total Reward: 100.77378580535208, Q Loss: 12545181.265625, Actor Loss: -117576.2265625  
Episode 9968: Time: 0.19096589088439941, Total Reward: 138.2962407592459, Q Loss: 14037801.1875, Actor Loss: -163849.3408203125  
Episode 9969: Time: 0.23883318901062012, Total Reward: 171.89455335712123, Q Loss: 16157895.40625, Actor Loss: -202320.1787109375  
Episode 9970: Time: 0.2741866111755371, Total Reward: 202.43341077808236, Q Loss: 24722144.25, Actor Loss: -234065.24609375  
Episode 9971: Time: 0.7257099151611328, Total Reward: 554.5126343195639, Q Loss: 50440527.078125, Actor Loss: -630775.3095703125  
Episode 9972: Time: 0.1311817169189453, Total Reward: 91.27129564595369, Q Loss: 6758844.734375, Actor Loss: -112972.83056640625  
Episode 9973: Time: 0.1905062198638916, Total Reward: 138.0294992565525, Q Loss: 13285874.84375, Actor Loss: -157727.9755859375  
Episode 9974: Time: 0.2740776538848877, Total Reward: 203.0392853455016, Q Loss: 14747243.3125, Actor Loss: -232355.4736328125  
Episode 9975: Time: 0.26163744926452637, Total Reward: 190.87286834891924, Q Loss: 22502880.125, Actor Loss: -223153.6806640625  
Episode 9976: Time: 0.7961282730102539, Total Reward: 612.7414646748796, Q Loss: 58624398.6875, Actor Loss: -677117.04296875  
Episode 9977: Time: 0.6792006492614746, Total Reward: 518.6433487956562, Q Loss: 52598167.828125, Actor Loss: -569705.2529296875  
Episode 9978: Time: 0.2619044780731201, Total Reward: 193.97009096168213, Q Loss: 19296479.84375, Actor Loss: -220975.740234375  
Episode 9979: Time: 0.9649348258972168, Total Reward: 739.2673056592273, Q Loss: 71179201.9375, Actor Loss: -816451.6674804688  
Episode 9980: Time: 0.26191043853759766, Total Reward: 193.10528274678077, Q Loss: 20637312.1875, Actor Loss: -224918.060546875



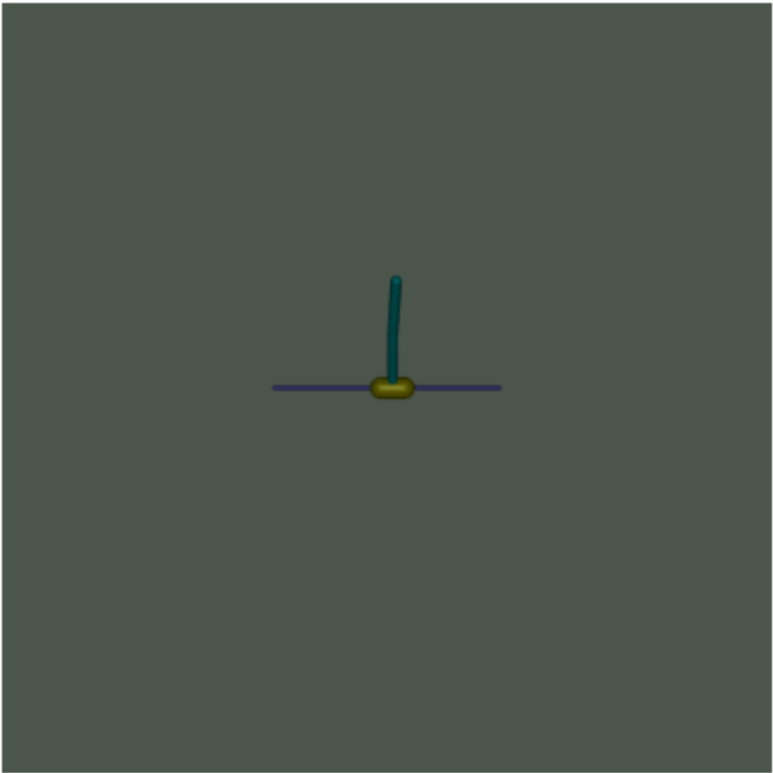
Episode 9981: Time: 0.25044751167297363, Total Reward: 184.14482353345153, Q Loss: 24449504.421875, Actor Loss: -212554.7451171875  
Episode 9982: Time: 0.30980753898620605, Total Reward: 231.24442872959085, Q Loss: 22459779.71875, Actor Loss: -261182.638671875  
Episode 9983: Time: 0.39306068420410156, Total Reward: 296.150475046328, Q Loss: 25920049.921875, Actor Loss: -337309.51171875  
Episode 9984: Time: 0.6071336269378662, Total Reward: 464.09500682111656, Q Loss: 50194611.75, Actor Loss: -513531.08447265625  
Episode 9985: Time: 0.4525876045227051, Total Reward: 342.0555709369179, Q Loss: 26687720.328125, Actor Loss: -392730.931640625  
Episode 9986: Time: 0.4997122287750244, Total Reward: 379.6020577319497, Q Loss: 43675402.1875, Actor Loss: -425193.4287109375  
Episode 9987: Time: 0.8825907707214355, Total Reward: 676.9777843258896, Q Loss: 65442148.40625, Actor Loss: -752112.3212890625  
Episode 9988: Time: 0.6669986248016357, Total Reward: 507.2945016394882, Q Loss: 56166277.703125, Actor Loss: -567600.47265625  
Episode 9989: Time: 0.6313974857330322, Total Reward: 481.80746934434205, Q Loss: 40522989.796875, Actor Loss: -540590.1328125  
Episode 9990: Time: 0.19102978706359863, Total Reward: 136.76000933862977, Q Loss: 13096095.625, Actor Loss: -168109.14453125  
Episode 9991: Time: 0.35730719566345215, Total Reward: 266.8145001516857, Q Loss: 30336182.265625, Actor Loss: -299334.626953125  
Episode 9992: Time: 0.5597991943359375, Total Reward: 426.0119570161595, Q Loss: 36836954.390625, Actor Loss: -476021.5810546875  
Episode 9993: Time: 0.6893272399902344, Total Reward: 528.847829151557, Q Loss: 47124069.34375, Actor Loss: -591789.8046875  
Episode 9994: Time: 0.0716848373413086, Total Reward: 44.632813355526174, Q Loss: 5670447.125, Actor Loss: -58737.32421875  
Episode 9995: Time: 0.17884373664855957, Total Reward: 128.91999482994999, Q Loss: 14700610.296875, Actor Loss: -149292.712890625  
Episode 9996: Time: 0.11930990219116211, Total Reward: 81.24875719977199, Q Loss: 9999745.0, Actor Loss: -105973.091796875  
Episode 9997: Time: 0.2742183208465576, Total Reward: 202.8199267148708, Q Loss: 18736727.03125, Actor Loss: -240548.2705078125  
Episode 9998: Time: 0.5001764297485352, Total Reward: 379.1117026439382, Q Loss: 33630803.234375, Actor Loss: -420759.3505859375  
Episode 9999: Time: 0.19087886810302734, Total Reward: 137.66608523251926, Q Loss: 16745258.0625, Actor Loss: -159332.42578125  
Validation Mean: 9350.058095775108, Validation Std: 0.3687733185108295  
saving model  
Test Mean: 9356.465307822016, Test Std: 0.2116803937647784

Like what we did for the DQN, we can also animate one episode of the agent in the DoublePendulum environment.

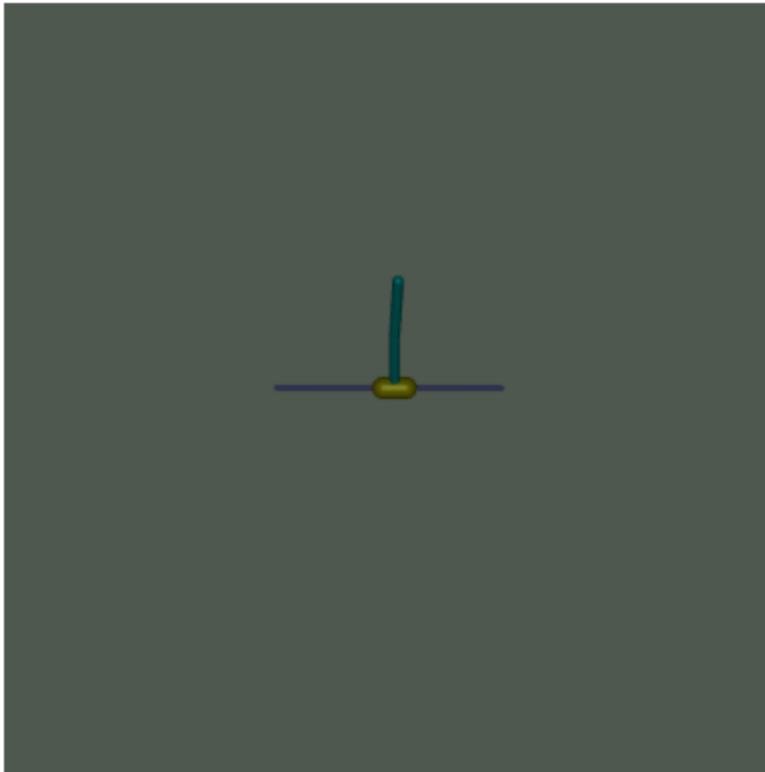
```
In [17]: total_rewards, frames = t.play_episode(0, True, 42, eval_env)
anim = animate(frames)
print(total_rewards)
HTML(anim.to_jshtml())
```

9356.728664643215

Out[17]:



☐ Once ☒ Loop ☐ Reflect



As we can see, the agent is able to balance the double pendulum and it eventually reaches the equilibrium. However this equilibrium is not a stable equilibrium, so let's see how this model performs with perturbations. To do this, we will perturb the model every 49 steps with a large input of  $\pm 0.75$  N to the cart. We will see how the model performs with this perturbation.

```
In [18]: import torch
frames = []
scores = 0
(s, _, done, ret = eval_env.reset(seed = 42
                                   ), False, 0

t.actor.eval()
S = []
outputs = []
# s, r, terminated, truncated, info = eval_env.step(3)
i = 0
with torch.no_grad():
    while not done:
        # if random.random() < 0.1:
        #     action = random.randint(0,4)
        # else:
        frames.append(eval_env.render())
        output = t.actor(torch.tensor(s).unsqueeze(0).to("cpu").float())
        i+=1
        if i%50 == 49:
            output += 0.75*(np.sign(torch.randn_like(output)))
        s_prime, r, terminated, truncated, info = eval_env.step(output.cpu())
        s = s_prime
        ret += r
```

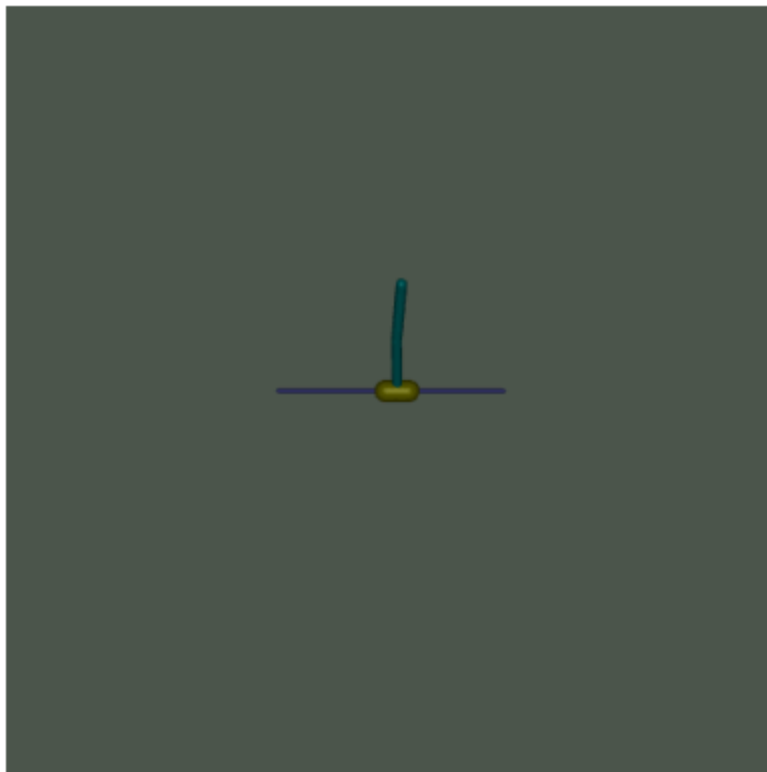
```
done = terminated or truncated
```

```
scores += ret
```

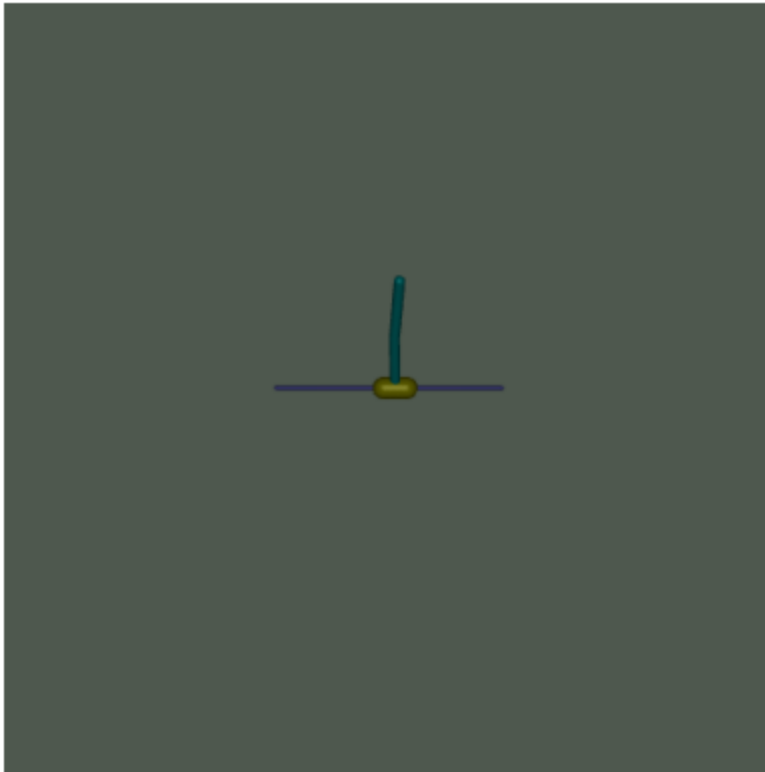
```
In [19]: anim = animate(frames)
print(total_rewards)
HTML(anim.to_jshtml())
```

9356.728664643215

Out[19]:



☐ Once ☒ Loop ☐ Reflect



You should see that the model is able to recover from the perturbation and is able to balance the double pendulum.

This notebook was converted with [convert.ploomber.io](https://convert.ploomber.io)

```

import torch as torch
import torch.nn as nn
import numpy as np
import torch.nn.functional as F

def fanin_init(size, fanin=None):
    '''a helper function to initialize the weights of the model'''
    fanin = fanin or size[0]
    v = 1. / np.sqrt(fanin)
    return torch.Tensor(size).uniform_(-v, v)

class Actor(nn.Module):
    """Actor model for the DDPG algorithm.

    Layer 1: 400 units, ReLU activation, Fan-in weight initialization, ie each weight is
    initialized with a uniform distribution in the range of -1/sqrt(fan_in) to 1/sqrt(fan_in)
    Layer 2: 300 units, ReLU activation, Fan-in weight initialization, ie each weight is
    initialized with a uniform distribution in the range of -1/sqrt(fan_in) to 1/sqrt(fan_in)
    Layer 3: 1 unit, tanh activation, intialized with uniform weights in the range of -0.003 to
    0.003

    """
    def __init__(self, input_size:tuple[int], action_size:int,CNN = None):
        """
        input: tuple[int]
            The input size, as a tuple of dimensions, for the DoubleInvertedPendulum
            environment, of shape (11,)
        action_size: int
            The number of actions
        """
        super(Actor, self).__init__()
        # ===== YOUR CODE HERE =====
        # TODO:
        # define the fully connected layers for the actor
        # =====
        self.CNN = CNN # Currently unused

        in_dim = input_size[0] # e.g., 11 for (11,)
        self.fc1 = nn.Linear(in_dim, 400)
        self.fc2 = nn.Linear(400, 300)
        self.fc3 = nn.Linear(300, action_size)

        self.init_weights() # Initialize all layers

        # ===== YOUR CODE ENDS =====

    def init_weights(self,init_w=3e-3):
        """
        Args:
            init_w (float, optional): the onesided range of the uniform distribution for the
            final layer. Defaults to 3e-3.
        """
        # ===== YOUR CODE HERE =====
        # TODO:
        # initialize the weights of the model
        # =====
        # Fan-in initialization for fc1
        fan_in1 = self.fc1.weight.data.size()[1] # input dim
        lim1 = 1. / np.sqrt(fan_in1)
        nn.init.uniform_(self.fc1.weight, -lim1, lim1)
        nn.init.uniform_(self.fc1.bias, -lim1, lim1)

        # Fan-in initialization for fc2
        fan_in2 = self.fc2.weight.data.size()[1]
        lim2 = 1. / np.sqrt(fan_in2)
        nn.init.uniform_(self.fc2.weight, -lim2, lim2)

```

```

nn.init.uniform_(self.fc2.bias, -lim2, lim2)

# Small uniform initialization for output layer
nn.init.uniform_(self.fc3.weight, -init_w, init_w)
nn.init.uniform_(self.fc3.bias, -init_w, init_w)

# ===== YOUR CODE ENDS =====

def forward(self, x:torch.Tensor)->torch.Tensor:
    # ===== YOUR CODE HERE =====
    x = F.relu(self.fc1(x))
    x = F.relu(self.fc2(x))
    x = torch.tanh(self.fc3(x)) # Ensures output in [-1, 1]
    return x

# ===== YOUR CODE ENDS =====

```

```

class Critic(nn.Module):
    """Critic model for the DDPG algorithm.
    Layer 1: 400 units, ReLU activation, Fan-in weight initialization, ie each weight is
    initialized with a uniform distribution in the range of  $-1/\sqrt{\text{fan\_in}}$  to  $1/\sqrt{\text{fan\_in}}$ 
    Layer 2: 300 units, ReLU activation, Fan-in weight initialization, ie each weight is
    initialized with a uniform distribution in the range of  $-1/\sqrt{\text{fan\_in}}$  to  $1/\sqrt{\text{fan\_in}}$ .
    Input is the concatenation of the 400 dimension embedding from the state, and the action taken.
    Layer 3: 1 unit, intialized with uniform weights in the range of -0.003 to 0.003
    """
    def __init__(self, input_size:tuple[int], action_size:int):
        """
        input: tuple[int]
            The input size, as a tuple of dimensions, for the DoubleInvertedPendulum
            environment, of shape (11,)
        action_size: int
            The number of actions
        """
        super(Critic, self).__init__()
        # ===== YOUR CODE HERE =====
        # TODO:
        # define the fully connected layers for the critic and initialize the weights
        # =====
        state_dim = input_size[0]

        self.fc1 = nn.Linear(state_dim, 400)
        self.fc2 = nn.Linear(400 + action_size, 300)
        self.fc3 = nn.Linear(300, 1)

        self.init_weights()

        # ===== YOUR CODE ENDS =====

    def init_weights(self, init_w=3e-3):
        # ===== YOUR CODE HERE =====
        # TODO:
        # initialize the weights of the model
        # =====
        fan_in1 = self.fc1.weight.data.size()[1]
        lim1 = 1. / np.sqrt(fan_in1)
        nn.init.uniform_(self.fc1.weight, -lim1, lim1)
        nn.init.uniform_(self.fc1.bias, -lim1, lim1)

        fan_in2 = self.fc2.weight.data.size()[1]
        lim2 = 1. / np.sqrt(fan_in2)
        nn.init.uniform_(self.fc2.weight, -lim2, lim2)
        nn.init.uniform_(self.fc2.bias, -lim2, lim2)

        nn.init.uniform_(self.fc3.weight, -init_w, init_w)

```

```
nn.init.uniform_(self.fc3.bias, -init_w, init_w)
```

```
# ===== YOUR CODE ENDS =====
```

```
def forward(self, x:torch.Tensor, a:torch.Tensor)->torch.Tensor:
```

```
# ===== YOUR CODE HERE =====
```

```
xs = F.relu(self.fc1(x)) # process state
```

```
xsa = torch.cat([xs, a], dim=1) # concatenate state embedding with action
```

```
x = F.relu(self.fc2(xsa))
```

```
q_value = self.fc3(x) # no activation here; scalar output
```

```
return q_value
```

```
# ===== YOUR CODE ENDS =====
```



```

import torch
import torch.optim as optim
import torch.nn.functional as F
import torch.nn
import gymnasium as gym
from replay_buffer import ReplayBufferDDPG
import wandb
import random
import numpy as np
import os
import time
import model
from utils import *
import tqdm

```

```

class OU_Noise:
    def __init__(self, action_space:int, action_range:list[np.ndarray[float]],
                 mu:float = 0.0, theta:float = 0.15, sigma:float = 0.2, seed:int = 42):
        """Initialize the OU noise

        Args:
            action_space (int): The size of the action space
            action_range (list[np.ndarray[float]]): The range of the action space, the first
                element is the lower bound and the second element is the upper bound
            mu (float, optional): average of the noise. Defaults to 0.0.
            theta (float, optional): the speed of mean reversion. Defaults to 0.15.
            sigma (float, optional): the volatility of the noise. Defaults to 0.2.
            seed (int, optional): the seed for the random number generator. Defaults to 42.
        """
        self.action_space = action_space
        self.mu = mu
        self.theta = theta
        self.sigma = sigma
        self.state = np.ones(self.action_space) * self.mu
        self.action_range = action_range
        self.seed = seed
        np.random.seed(self.seed)

    def reset(self, sigma:float = 0.2):
        """Reset the noise

        Args:
            sigma (float, optional): you can change the sigma of the noise. Defaults to 0.2.
        """
        # ===== YOUR CODE HERE =====
        # TODO:
        # hint look at line 36
        # =====
        self.sigma = sigma
        self.state = np.ones(self.action_space) * self.mu

        # ===== YOUR CODE ENDS =====

    def _sample(self):
        """sample the noise per the discretized Ornstein-Uhlenbeck process detailed in the
        notebook"""
        # ===== YOUR CODE HERE =====
        dx = self.theta*(self.mu - self.state) + self.sigma*np.random.randn(self.action_space)
        self.state = self.state + dx
        return self.state

        # ===== YOUR CODE ENDS =====

    def noise(self, action:np.ndarray[float]):
        """Add the noise to the action

```

```

Args:
    action (np.ndarray[float]): the action to add the noise to

Returns:
    noised_action (np.ndarray[float]): the noised action, clipped to the action range
"""
# ===== YOUR CODE HERE =====
# TODO:
# you can use the _sample method to get the noise
# =====
noised_action = action + self._sample()

clipped = np.clip(noised_action, self.action_range[0], self.action_range[1])
# clipped = np.min(np.max(noised_action, -1), 1)
# print(action, noised_action, clipped)
return clipped

# ===== YOUR CODE ENDS =====

```

class DDPG:

```

def __init__(self, env:gym.Env,
             actor_model:model.Actor,
             critic_model:model.Critic,
             actor_kwargs = {},
             critic_kwargs = {},
             actor_lr:float = 0.0001,
             critic_lr:float = 0.001,
             gamma:float = 0.99,
             tau:float = 0.001,
             buffer_size:int = 10**6,
             batch_size:int = 64,
             loss_fn:str = 'mse_loss',
             use_wandb:bool = False, device:str = 'cpu',
             seed:int = 42,
             save_path:str = None):
    """Initialize the DDPG agent

```

Args:

```

    env (_type_): The environment to train on
    actor_model (_type_): the class for the actor model
    critic_model (_type_): the class for the critic model
    actor_kwargs (dict, optional): Additional actor_kwargs . Defaults to {}.
    critic_kwargs (dict, optional): Additional critic_kwargs. Defaults to {}.
    actor_lr (float, optional): The learning rate for the optimizer. Defaults to
0.0001.
    critic_lr (float, optional): The learning rate for the critic optimizer. Defaults
to 0.001.
    gamma (float, optional): discount factor. Defaults to 0.99.
    tau (float, optional): soft update parameter for the target networks. Defaults to
0.001.
    buffer_size (int, optional): the size of the replay buffer. Defaults to 10^6
    batch_size (int, optional): the batch size for training. Defaults to 64.
    loss_fn (str, optional): name of the loss function to use. Defaults to 'mse_loss'.
    use_wandb (bool, optional): whether to use wandb. Defaults to False.
    device (str, optional): which device to use. Defaults to 'cpu'.
    seed (int, optional): seed for reproducibility. Defaults to 42.
    save_path (str, optional): path to save the model. Defaults to None.

```

```

"""
self.env = env
self._set_seed(seed)
self.observation_space = self.env.observation_space.shape
self.actor = actor_model(self.observation_space, self.env.action_space.shape[0]
, **actor_kwargs).to(device)

```

```

self.critic = critic_model(self.observation_space, self.env.action_space.shape[0]
                           , **critic_kwargs).to(device)

self.target_actor = actor_model(self.observation_space, self.env.action_space.shape[0]
                                , **actor_kwargs).to(device)
self.target_critic = critic_model(self.observation_space,
self.env.action_space.shape[0]
                                , **critic_kwargs).to(device)

self.OU_noise = OU_Noise(self.env.action_space.shape[0],
                          [self.env.action_space.low, self.env.action_space.high])

#sync the target networks with the main networks
self.target_actor.load_state_dict(self.actor.state_dict())
self.target_critic.load_state_dict(self.critic.state_dict())

self.actor_optimizer = optim.Adam(self.actor.parameters(), lr = actor_lr)
self.critic_optimizer = optim.Adam(self.critic.parameters(), lr = critic_lr)
self.gamma = gamma

self.replay_buffer = ReplayBufferDDPG(buffer_size)
self.batch_size = batch_size
self.tau = tau
self.device = device
self.save_path = save_path if save_path is not None else "."

#set the loss function
if loss_fn == 'smooth_l1_loss':
    self.loss_fn = F.smooth_l1_loss
elif loss_fn == 'mse_loss':
    self.loss_fn = F.mse_loss
else:
    raise ValueError('loss_fn must be either smooth_l1_loss or mse_loss')

self.wandb = use_wandb
if self.wandb:
    wandb.init(project = 'double_pendulum_ddpg')
    #log the hyperparameters
    wandb.config.update({
        'actor_lr': actor_lr,
        'critic_lr': critic_lr,
        'gamma': gamma,
        'buffer_size': buffer_size,
        'batch_size': batch_size,
        'loss_fn': loss_fn,
        'tau': tau,
        'device': device,
        'seed': seed,
        'save_path': save_path
    })

def _set_seed(self, seed:int):
    random.seed(seed)
    np.random.seed(seed)
    self.seed = seed
    torch.manual_seed(seed)
    torch.cuda.manual_seed(seed)
    torch.backends.cudnn.deterministic = True
    gym.utils.seeding.np_random(seed)

def play_episode(self, sigma:float = 0, return_frames:bool = False, seed:int = None, env =
None):
    """Play an episode of the environment

    Args:
        sigma (float, optional): the sigma for the OU noise. Defaults to 0.

```

*return\_frames (bool, optional): whether to return the frames. Defaults to False.*  
*seed (int, optional): the seed for the environment. Defaults to None.*

"""

```
if env is None:
    env = self.env
if seed is not None:
    state, _ = env.reset(seed = seed)
else:
    state, _ = env.reset()

if sigma>0:
    self.OU_noise.reset(sigma)
done = False
total_reward = 0
if return_frames:
    frames = []
with torch.no_grad():
    while not done:
        action =
self.actor(torch.tensor(state).float().to(self.device).unsqueeze(0)).cpu().numpy()[0]
        if sigma>0:
            action = self.OU_noise.noise(action)
        next_state, reward, terminated, truncated, _ = env.step(action)
        total_reward += reward
        done = terminated or truncated
        if return_frames:
            frames.append(env.render())
        state = next_state
if return_frames:
    return total_reward, frames
else:
    return total_reward
```

```
def _train_one_batch(self, batch_size):
```

*"""train the agent on a single batch"""*

*# ===== YOUR CODE HERE =====*

*# TODO:*

*# sample the batch*

*# compute the target Q value*

*# compute the current Q value*

*# compute the critic loss*

*# optimize the critic*

*# compute the actor loss*

*# optimize the actor*

*# update the model*

*# return the losses*

*# =====*

*# raise NotImplementedError*

*# sample the batch*

*# compute the target Q value*

*# compute the current Q value*

*# compute the critic loss*

*# optimize the critic*

*# compute the actor loss*

*# optimize the actor*

*# update the model*

*# return the losses*

```
if len(self.replay_buffer) < batch_size:
```

*return 0.0, 0.0 # skip training if not enough samples*

```

# Sample a batch
state_batch, action_batch, reward_batch, next_state_batch, done_batch =
self.replay_buffer.sample(batch_size)

state_batch = torch.FloatTensor(state_batch).to(self.device)
action_batch = torch.FloatTensor(action_batch).to(self.device)
reward_batch = torch.FloatTensor(reward_batch).unsqueeze(1).to(self.device)
next_state_batch = torch.FloatTensor(next_state_batch).to(self.device)
# done_batch = torch.FloatTensor(done_batch).unsqueeze(1).to(self.device)
# done_batch =
torch.FloatTensor(done_batch.astype(np.float32)).unsqueeze(1).to(self.device)
done_batch = done_batch.to(torch.float32).unsqueeze(1).to(self.device)

with torch.no_grad():
    next_actions = self.target_actor(next_state_batch)
    target_Q = self.target_critic(next_state_batch, next_actions)
    target_Q = reward_batch + self.gamma * target_Q * (1 - done_batch)

current_Q = self.critic(state_batch, action_batch)
critic_loss = self.loss_fn(current_Q, target_Q)

self.critic_optimizer.zero_grad()
critic_loss.backward()
self.critic_optimizer.step()

actor_loss = -self.critic(state_batch, self.actor(state_batch)).mean()

self.actor_optimizer.zero_grad()
actor_loss.backward()
self.actor_optimizer.step()

self._update_model()

return critic_loss.item(), actor_loss.item()

# ===== YOUR CODE ENDS =====

def _update_model(self):
    # ===== YOUR CODE HERE =====
    for target_param, param in zip(self.target_actor.parameters(),
self.actor.parameters()):
        target_param.data.copy_(self.tau * param.data + (1.0 - self.tau) *
target_param.data)

    for target_param, param in zip(self.target_critic.parameters(),
self.critic.parameters()):
        target_param.data.copy_(self.tau * param.data + (1.0 - self.tau) *
target_param.data)
    # ===== YOUR CODE ENDS =====

def train(self, episodes:int, val_freq:int, val_episodes:int, test_episodes:int,
save_every:int,
        train_every:int = 1):
    """Train the agent

    Args:
        episodes (int): the number of episodes to train for
        val_freq (int): the frequency of validation
        val_episodes (int): the number of episodes to validate for
        test_episodes (int): the number of episodes to test for
        save_every (int): the frequency of saving the model
        train_every (int, optional): the frequency of training per enviroment interaction.
Defaults to 1.
    """
    os.makedirs(self.save_path, exist_ok=True)

```

```

best_val_mean = -np.inf
for i in range(episodes):
    start_time = time.time()
    # print(sigma)
    state, _ = self.env.reset()
    self.OU_noise.reset()
    done = False
    total_reward = 0
    Q_loss_total = 0
    actor_loss_total = 0
    l = 0

    while not done:
        # ===== YOUR CODE HERE =====
        # TODO:
        # get the action
        # add the noise, hint you can do this by calling the noise method of the OU
noise

        # get the transition
        # store the transition
        # update the state
        # if the replay buffer is large enough, and it is time to train the model
        # and update the total Q and actor loss
        # =====
        state_tensor = torch.tensor(state, dtype=torch.float32,
device=self.device).unsqueeze(0)
        action = self.actor(state_tensor).detach().cpu().numpy()[0]
        action = self.OU_noise.noise(action)

        next_state, reward, terminated, truncated, _ = self.env.step(action)
        done = terminated or truncated

        self.replay_buffer.add(state, action, reward, next_state, done)
        state = next_state
        total_reward += reward

        if len(self.replay_buffer) >= self.batch_size and l % train_every == 0:
            Q_loss, actor_loss = self._train_one_batch(self.batch_size)
            Q_loss_total += Q_loss
            actor_loss_total += actor_loss

        l += 1

        # ===== YOUR CODE ENDS =====

    if self.wandb:
        wandb.log({
            'total_reward': total_reward,
            'Q_loss': Q_loss_total,
            'actor_loss': actor_loss_total
        })
        print(f"Episode {i}: Time: {time.time()-start_time}, Total Reward: {total_reward},
Q Loss: {Q_loss_total}, Actor Loss: {actor_loss_total}")

    if i % val_freq == val_freq-1:
        val_mean, val_std = self.validate(val_episodes)

        if self.wandb:
            wandb.log({
                'val_mean': val_mean,
                'val_std': val_std
            })
        print(f"Validation Mean: {val_mean}, Validation Std: {val_std}")
        if val_mean > best_val_mean:
            best_val_mean = val_mean
            self.save_model('best')

```

```

        # print("save_every", save_every, i, save_every-1)
        if i % save_every == save_every-1:
            self.save_model(i)
            print("saving model")

self.save_model('final')
self.load_model('best')

test_mean, test_std = self.validate(test_episodes)
print(f"Test Mean: {test_mean}, Test Std: {test_std}")
if self.wandb:
    wandb.log({
        'test_mean': test_mean,
        'test_std': test_std
    })

def validate(self, episodes:int):
    rewards = []
    for _ in range(episodes):
        rewards.append(self.play_episode())
    mean_reward = np.mean(rewards)
    std_reward = np.std(rewards)
    return mean_reward, std_reward

def save_model(self, name:str):
    actor_path = os.path.join(self.save_path, f"actor_{name}.pt")
    actor_model_path = os.path.join(self.save_path, f"actor_target_{name}.pt")
    torch.save(self.actor.state_dict(), actor_path)
    torch.save(self.target_actor.state_dict(), actor_model_path)

    critic_path = os.path.join(self.save_path, f"critic_{name}.pt")
    critic_model_path = os.path.join(self.save_path, f"critic_target_{name}.pt")
    torch.save(self.critic.state_dict(), critic_path)
    torch.save(self.target_critic.state_dict(), critic_model_path)

def load_model(self, name:str):
    actor_path = os.path.join(self.save_path, f"actor_{name}.pt")
    actor_model_path = os.path.join(self.save_path, f"actor_target_{name}.pt")
    self.actor.load_state_dict(torch.load(actor_path))
    self.target_actor.load_state_dict(torch.load(actor_model_path))

    critic_path = os.path.join(self.save_path, f"critic_{name}.pt")
    critic_model_path = os.path.join(self.save_path, f"critic_target_{name}.pt")
    self.critic.load_state_dict(torch.load(critic_path))
    self.target_critic.load_state_dict(torch.load(critic_model_path))

```