

▾ Deep Q-Learning

Install dependencies for AI gym to run properly (shouldn't take more than a minute). If running on google cloud or running locally, only need to run once. Colab may require installing everytime the vm shuts down.

```
!pip3 install gym pyvirtualdisplay
!sudo apt-get install -y xvfb python-opengl ffmpeg
```

```
!pip3 install --upgrade setuptools --user
!pip3 install ez_setup
!pip3 install gym[atari]
!pip3 install gym[accept-rom-license]
```

For this assignment we will implement the Deep Q-Learning algorithm with Experience Replay as described in breakthrough paper "**Playing Atari with Deep Reinforcement Learning**". We will train an agent to play the famous game of **Breakout**.

```
from google.colab import drive
drive.mount("/content/gdrive",force_remount=True)

Mounted at /content/gdrive

import os
#os.chdir("/content/gdrive/MyDrive/CS444_Neha/assignment5_materials/")
os.chdir("/content/gdrive/MyDrive/UIUC/assignment5_materials/")

%matplotlib inline

import sys
import gym
import torch
import pylab
import random
import numpy as np
from collections import deque
from datetime import datetime
from copy import deepcopy
import torch.nn as nn
import torch.optim as optim
import torch.nn.functional as F
from torch.autograd import Variable
from utils import find_max_lives, check_live, get_frame, get_init_state
from model import DQN
from config import *

import matplotlib.pyplot as plt
%load_ext autoreload
%autoreload 2
```

▾ Understanding the environment

In the following cell, we initialize our game of **Breakout** and you can see how the environment looks like. For further documentation of the of the environment refer to <https://www.gymnasium.dev/environments/atari/breakout/>.

In breakout, we will use 3 actions "fire", "left", and "right". "fire" is only used to reset the game when a life is lost, "left" moves the agent left and "right" moves the agent right.

```
env = gym.make('BreakoutDeterministic-v4')
state = env.reset()

/usr/local/lib/python3.10/dist-packages/gym/core.py:317: DeprecationWarning: WARN: Initializing wrapper in old step API which
deprecation(
/usr/local/lib/python3.10/dist-packages/gym/wrappers/step_api_compatibility.py:39: DeprecationWarning: WARN: Initializing env
deprecation(
```

```
number_lives = find_max_lives(env)
state_size = env.observation_space.shape
action_size = 3 #fire, left, and right
```

```
/usr/local/lib/python3.10/dist-packages/gym/utils/passive_env_checker.py:227: DeprecationWarning: WARN: Core environment is v
  logger.deprecation(
```

▼ Creating a DQN Agent

Here we create a DQN Agent. This agent is defined in the **agent.py**. The corresponding neural network is defined in the **model.py**. Once you've created a working DQN agent, use the code in agent.py to create a double DQN agent in **agent_double.py**. Set the flag "double_dqn" to True to train the double DQN agent.

Evaluation Reward : The average reward received in the past 100 episodes/games.

Frame : Number of frames processed in total.

Memory Size : The current size of the replay memory.

```
double_dqn = False # set to True if using double DQN agent

if double_dqn:
    from agent_double import Agent
else:
    from agent import Agent

agent = Agent(action_size)
evaluation_reward = deque(maxlen=evaluation_reward_length)
frame = 0
memory_size = 0

%load_ext autoreload
%autoreload 2

The autoreload extension is already loaded. To reload it, use:
%reload_ext autoreload
```

▼ Main Training Loop for DQN

In this training loop, we do not render the screen because it slows down training significantly. To watch the agent play the game, run the code in next section "Visualize Agent Performance"

```
rewards, episodes = [], []
best_eval_reward = 0
for e in range(2500):
    done = False
    score = 0

    history = np.zeros([5, 84, 84], dtype=np.uint8)
    step = 0
    state = env.reset()
    next_state = state
    life = number_lives

    get_init_state(history, state, HISTORY_SIZE)

    while not done:
        step += 1
        frame += 1

        # Perform a fire action if ball is no longer on screen to continue onto next life
        if step > 1 and len(np.unique(next_state[:189] == state[:189])) < 2:
            action = 0
        else:
            action = agent.get_action(np.float32(history[:4, :, :]) / 255.)
        state = next_state
        next_state, reward, done, info = env.step(action + 1)

        frame_next_state = get_frame(next_state)
        history[4, :, :] = frame_next_state
        terminal_state = check_live(life, info['lives'])
```

```

life = info['lives']
r = reward

# Store the transition in memory
agent.memory.push(deepcopy(frame_next_state), action, r, terminal_state)
# Start training after random sample generation
if(frame >= train_frame):
    agent.train_policy_net(frame)
    # Update the target network only for Double DQN only
    if double_dqn and (frame % update_target_network_frequency)== 0:
        agent.update_target_net()
score += reward
history[:4, :, :] = history[1:, :, :]

if done:
    evaluation_reward.append(score)
    rewards.append(np.mean(evaluation_reward))
    episodes.append(e)
    pylab.plot(episodes, rewards, 'b')
    pylab.xlabel('Episodes')
    pylab.ylabel('Rewards')
    pylab.title('Episodes vs Reward')
    pylab.savefig("./save_graph/breakout_dqn_agent_v3.png") # save graph for training visualization

# every episode, plot the play time
print("episode:", e, " score:", score, " memory length:",
      len(agent.memory), " epsilon:", agent.epsilon, " steps:", step,
      " lr:", agent.optimizer.param_groups[0]['lr'], " evaluation reward:", np.mean(evaluation_reward))

# if the mean of scores of last 100 episode is bigger than 5 save model
### Change this save condition to whatever you prefer ###
if np.mean(evaluation_reward) > 5 and np.mean(evaluation_reward) > best_eval_reward:
    torch.save(agent.policy_net, "./save_model/breakout_dqn_agent.pth")
    best_eval_reward = np.mean(evaluation_reward)

```



episode: 0	score: 3.0	memory length: 228	epsilon: 1.0	steps: 228	lr: 0.0001	evaluation reward: 3.0
episode: 1	score: 0.0	memory length: 352	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.5
episode: 2	score: 4.0	memory length: 639	epsilon: 1.0	steps: 287	lr: 0.0001	evaluation reward: 2.3333333333333333
episode: 3	score: 1.0	memory length: 791	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 2.0
episode: 4	score: 2.0	memory length: 993	epsilon: 1.0	steps: 202	lr: 0.0001	evaluation reward: 2.0
episode: 5	score: 0.0	memory length: 1117	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.6666666666666667
episode: 6	score: 1.0	memory length: 1269	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.5714285714285714
episode: 7	score: 2.0	memory length: 1467	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.625
episode: 8	score: 2.0	memory length: 1686	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.6666666666666667
episode: 9	score: 2.0	memory length: 1884	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.7
episode: 10	score: 0.0	memory length: 2008	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.5454545454545454
episode: 11	score: 2.0	memory length: 2226	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.5833333333333333
episode: 12	score: 0.0	memory length: 2349	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.4615384615384615
episode: 13	score: 2.0	memory length: 2550	epsilon: 1.0	steps: 201	lr: 0.0001	evaluation reward: 1.5
episode: 14	score: 0.0	memory length: 2674	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.4
episode: 15	score: 2.0	memory length: 2893	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.4375
episode: 16	score: 2.0	memory length: 3111	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.4705882352941176
episode: 17	score: 3.0	memory length: 3358	epsilon: 1.0	steps: 247	lr: 0.0001	evaluation reward: 1.5555555555555555
episode: 18	score: 1.0	memory length: 3527	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.5263157894736842
episode: 19	score: 0.0	memory length: 3650	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.45
episode: 20	score: 2.0	memory length: 3868	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.4761904761904762
episode: 21	score: 1.0	memory length: 4041	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 1.4545454545454545
episode: 22	score: 1.0	memory length: 4214	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 1.4347826086956522
episode: 23	score: 1.0	memory length: 4366	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.4166666666666667
episode: 24	score: 0.0	memory length: 4489	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.36
episode: 25	score: 2.0	memory length: 4688	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.3846153846153846
episode: 26	score: 3.0	memory length: 4955	epsilon: 1.0	steps: 267	lr: 0.0001	evaluation reward: 1.4444444444444444
episode: 27	score: 2.0	memory length: 5154	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.4642857142857142
episode: 28	score: 1.0	memory length: 5324	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.4482758620689655
episode: 29	score: 0.0	memory length: 5448	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.4
episode: 30	score: 2.0	memory length: 5651	epsilon: 1.0	steps: 203	lr: 0.0001	evaluation reward: 1.4193548387096774
episode: 31	score: 2.0	memory length: 5869	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.4375
episode: 32	score: 0.0	memory length: 5992	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.3939393939393939
episode: 33	score: 3.0	memory length: 6257	epsilon: 1.0	steps: 265	lr: 0.0001	evaluation reward: 1.4411764705882353
episode: 34	score: 3.0	memory length: 6505	epsilon: 1.0	steps: 248	lr: 0.0001	evaluation reward: 1.4857142857142857
episode: 35	score: 2.0	memory length: 6687	epsilon: 1.0	steps: 182	lr: 0.0001	evaluation reward: 1.5
episode: 36	score: 0.0	memory length: 6811	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.4594594594594594
episode: 37	score: 4.0	memory length: 7087	epsilon: 1.0	steps: 276	lr: 0.0001	evaluation reward: 1.5263157894736842
episode: 38	score: 0.0	memory length: 7211	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.4871794871794871
episode: 39	score: 5.0	memory length: 7559	epsilon: 1.0	steps: 348	lr: 0.0001	evaluation reward: 1.575
episode: 40	score: 2.0	memory length: 7739	epsilon: 1.0	steps: 180	lr: 0.0001	evaluation reward: 1.5853658536585366
episode: 41	score: 1.0	memory length: 7909	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.5714285714285714
episode: 42	score: 1.0	memory length: 8079	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.5581395348837209
episode: 43	score: 1.0	memory length: 8251	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.5454545454545454
episode: 44	score: 1.0	memory length: 8404	epsilon: 1.0	steps: 153	lr: 0.0001	evaluation reward: 1.5333333333333333
episode: 45	score: 1.0	memory length: 8574	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.5217391304347826
episode: 46	score: 3.0	memory length: 8800	epsilon: 1.0	steps: 226	lr: 0.0001	evaluation reward: 1.5531914893617021
episode: 47	score: 0.0	memory length: 8924	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.5208333333333333
episode: 48	score: 5.0	memory length: 9252	epsilon: 1.0	steps: 328	lr: 0.0001	evaluation reward: 1.5918367346938775
episode: 49	score: 2.0	memory length: 9471	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.6
episode: 50	score: 1.0	memory length: 9641	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.5882352941176471
episode: 51	score: 1.0	memory length: 9793	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.5769230769230769
episode: 52	score: 1.0	memory length: 9963	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.5660377358490566
episode: 53	score: 0.0	memory length: 10087	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.537037037037037
episode: 54	score: 1.0	memory length: 10239	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.5272727272727272
episode: 55	score: 4.0	memory length: 10557	epsilon: 1.0	steps: 318	lr: 0.0001	evaluation reward: 1.5714285714285714
episode: 56	score: 2.0	memory length: 10756	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.5789473684210526
episode: 57	score: 0.0	memory length: 10879	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.5517241379310345
episode: 58	score: 1.0	memory length: 11048	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.5423728813559322
episode: 59	score: 0.0	memory length: 11172	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.5166666666666667
episode: 60	score: 2.0	memory length: 11392	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.5245901653439153
episode: 61	score: 0.0	memory length: 11516	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.5
episode: 62	score: 1.0	memory length: 11689	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 1.4920634920634921
episode: 63	score: 2.0	memory length: 11887	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.5
episode: 64	score: 0.0	memory length: 12011	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.4769230769230769
episode: 65	score: 2.0	memory length: 12211	epsilon: 1.0	steps: 200	lr: 0.0001	evaluation reward: 1.4848484848484848
episode: 66	score: 0.0	memory length: 12335	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.4626865671641791
episode: 67	score: 0.0	memory length: 12459	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.4411764705882353
episode: 68	score: 4.0	memory length: 12757	epsilon: 1.0	steps: 298	lr: 0.0001	evaluation reward: 1.4782608695652174
episode: 69	score: 2.0	memory length: 12977	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.4857142857142857
episode: 70	score: 1.0	memory length: 13147	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.4788732395833333
episode: 71	score: 2.0	memory length: 13346	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.4861111111111111
episode: 72	score: 2.0	memory length: 13545	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.4931506849315068
episode: 73	score: 2.0	memory length: 13744	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.5
episode: 74	score: 1.0	memory length: 13895	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.4933333333333333
episode: 75	score: 4.0	memory length: 14187	epsilon: 1.0	steps: 292	lr: 0.0001	evaluation reward: 1.5263157894736842
episode: 76	score: 2.0	memory length: 14405	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.5324675324675325
episode: 77	score: 5.0	memory length: 14731	epsilon: 1.0	steps: 326	lr: 0.0001	evaluation reward: 1.5769230769230769
episode: 78	score: 3.0	memory length: 14978	epsilon: 1.0	steps: 247	lr: 0.0001	evaluation reward: 1.5949367068965517
episode: 79	score: 2.0	memory length: 15177	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.6
episode: 80	score: 0.0	memory length: 15301	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.5802469135802469
episode: 81	score: 2.0	memory length: 15500	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.5853658536585366
episode: 82	score: 1.0	memory length: 15670	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.578313253013253
episode: 83	score: 4.0	memory length: 15969	epsilon: 1.0	steps: 299	lr: 0.0001	evaluation reward: 1.6071428571428571
episode: 84	score: 1.0	memory length: 16427	epsilon: 1.0	steps: 450	lr: 0.0001	evaluation reward: 1.3333333333333333

episode: 84	score: 11.0	memory length: 16424	epsilon: 1.0	steps: 458	lr: 0.0001	evaluation reward: 1.1/16400
episode: 85	score: 1.0	memory length: 16579	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.709302325
episode: 86	score: 2.0	memory length: 16778	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.712643678
episode: 87	score: 1.0	memory length: 16949	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.704545454
episode: 88	score: 5.0	memory length: 17294	epsilon: 1.0	steps: 345	lr: 0.0001	evaluation reward: 1.741573033
episode: 89	score: 1.0	memory length: 17446	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.733333333
episode: 90	score: 2.0	memory length: 17663	epsilon: 1.0	steps: 217	lr: 0.0001	evaluation reward: 1.732637368
episode: 91	score: 2.0	memory length: 17882	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.739130434
episode: 92	score: 0.0	memory length: 18005	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.720430107
episode: 93	score: 2.0	memory length: 18222	epsilon: 1.0	steps: 217	lr: 0.0001	evaluation reward: 1.723404259
episode: 94	score: 0.0	memory length: 18346	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.705263157
episode: 95	score: 0.0	memory length: 18470	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.6875
episode: 96	score: 1.0	memory length: 18639	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.680412371
episode: 97	score: 2.0	memory length: 18857	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.683673469
episode: 98	score: 1.0	memory length: 19009	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.676767676
episode: 99	score: 3.0	memory length: 19224	epsilon: 1.0	steps: 215	lr: 0.0001	evaluation reward: 1.69
episode: 100	score: 4.0	memory length: 19540	epsilon: 1.0	steps: 316	lr: 0.0001	evaluation reward: 1.7
episode: 101	score: 2.0	memory length: 19738	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.72
episode: 102	score: 5.0	memory length: 20074	epsilon: 1.0	steps: 336	lr: 0.0001	evaluation reward: 1.73
episode: 103	score: 2.0	memory length: 20255	epsilon: 1.0	steps: 181	lr: 0.0001	evaluation reward: 1.74
episode: 104	score: 2.0	memory length: 20454	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.74
episode: 105	score: 4.0	memory length: 20753	epsilon: 1.0	steps: 299	lr: 0.0001	evaluation reward: 1.78
episode: 106	score: 0.0	memory length: 20877	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.77
episode: 107	score: 1.0	memory length: 21028	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.76
episode: 108	score: 1.0	memory length: 21198	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.75
episode: 109	score: 1.0	memory length: 21370	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.74
episode: 110	score: 3.0	memory length: 21637	epsilon: 1.0	steps: 267	lr: 0.0001	evaluation reward: 1.77
episode: 111	score: 1.0	memory length: 21791	epsilon: 1.0	steps: 154	lr: 0.0001	evaluation reward: 1.76
episode: 112	score: 1.0	memory length: 21942	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.77
episode: 113	score: 2.0	memory length: 22161	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.77
episode: 114	score: 0.0	memory length: 22285	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.77
episode: 115	score: 4.0	memory length: 22579	epsilon: 1.0	steps: 294	lr: 0.0001	evaluation reward: 1.79
episode: 116	score: 2.0	memory length: 22780	epsilon: 1.0	steps: 201	lr: 0.0001	evaluation reward: 1.79
episode: 117	score: 0.0	memory length: 22903	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.76
episode: 118	score: 1.0	memory length: 23055	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.76
episode: 119	score: 1.0	memory length: 23207	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.77
episode: 120	score: 1.0	memory length: 23361	epsilon: 1.0	steps: 154	lr: 0.0001	evaluation reward: 1.76
episode: 121	score: 0.0	memory length: 23485	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.75
episode: 122	score: 2.0	memory length: 23684	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.76
episode: 123	score: 0.0	memory length: 23808	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.75
episode: 124	score: 0.0	memory length: 23931	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.75
episode: 125	score: 0.0	memory length: 24054	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.73
episode: 126	score: 1.0	memory length: 24205	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.71
episode: 127	score: 1.0	memory length: 24357	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.7
episode: 128	score: 0.0	memory length: 24481	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.69
episode: 129	score: 3.0	memory length: 24752	epsilon: 1.0	steps: 271	lr: 0.0001	evaluation reward: 1.72
episode: 130	score: 1.0	memory length: 24904	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.71
episode: 131	score: 0.0	memory length: 25028	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.69
episode: 132	score: 1.0	memory length: 25198	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.7
episode: 133	score: 2.0	memory length: 25397	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.69
episode: 134	score: 1.0	memory length: 25567	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.67
episode: 135	score: 0.0	memory length: 25691	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.65
episode: 136	score: 1.0	memory length: 25843	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.66
episode: 137	score: 1.0	memory length: 26013	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.63
episode: 138	score: 0.0	memory length: 26137	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.63
episode: 139	score: 2.0	memory length: 26356	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.6
episode: 140	score: 0.0	memory length: 26480	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.58
episode: 141	score: 2.0	memory length: 26697	epsilon: 1.0	steps: 217	lr: 0.0001	evaluation reward: 1.59
episode: 142	score: 1.0	memory length: 26849	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.59
episode: 143	score: 1.0	memory length: 27019	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.59
episode: 144	score: 2.0	memory length: 27236	epsilon: 1.0	steps: 217	lr: 0.0001	evaluation reward: 1.6
episode: 145	score: 3.0	memory length: 27464	epsilon: 1.0	steps: 228	lr: 0.0001	evaluation reward: 1.62
episode: 146	score: 0.0	memory length: 27588	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.59
episode: 147	score: 0.0	memory length: 27712	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.59
episode: 148	score: 0.0	memory length: 27836	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.54
episode: 149	score: 2.0	memory length: 28053	epsilon: 1.0	steps: 217	lr: 0.0001	evaluation reward: 1.54
episode: 150	score: 2.0	memory length: 28234	epsilon: 1.0	steps: 181	lr: 0.0001	evaluation reward: 1.55
episode: 151	score: 3.0	memory length: 28500	epsilon: 1.0	steps: 266	lr: 0.0001	evaluation reward: 1.57
episode: 152	score: 2.0	memory length: 28723	epsilon: 1.0	steps: 223	lr: 0.0001	evaluation reward: 1.58
episode: 153	score: 0.0	memory length: 28847	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.58
episode: 154	score: 0.0	memory length: 28971	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.57
episode: 155	score: 0.0	memory length: 29094	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.53
episode: 156	score: 0.0	memory length: 29218	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.51
episode: 157	score: 3.0	memory length: 29463	epsilon: 1.0	steps: 245	lr: 0.0001	evaluation reward: 1.54
episode: 158	score: 2.0	memory length: 29682	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.55
episode: 159	score: 1.0	memory length: 29834	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.56
episode: 160	score: 0.0	memory length: 29958	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.54
episode: 161	score: 2.0	memory length: 30177	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.56
episode: 162	score: 0.0	memory length: 30300	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.55
episode: 163	score: 3.0	memory length: 30528	epsilon: 1.0	steps: 228	lr: 0.0001	evaluation reward: 1.56
episode: 164	score: 3.0	memory length: 30758	epsilon: 1.0	steps: 230	lr: 0.0001	evaluation reward: 1.59
episode: 165	score: 0.0	memory length: 30881	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.57
episode: 166	score: 2.0	memory length: 31101	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.59
episode: 167	score: 1.0	memory length: 31253	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.6
episode: 168	score: 1.0	memory length: 31405	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.57

episode: 169	score: 2.0	memory length: 31608	epsilon: 1.0	steps: 203	lr: 0.0001	evaluation reward: 1.57
episode: 170	score: 2.0	memory length: 31824	epsilon: 1.0	steps: 216	lr: 0.0001	evaluation reward: 1.58
episode: 171	score: 2.0	memory length: 32023	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.58
episode: 172	score: 1.0	memory length: 32192	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.57
episode: 173	score: 1.0	memory length: 32363	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.56
episode: 174	score: 5.0	memory length: 32671	epsilon: 1.0	steps: 308	lr: 0.0001	evaluation reward: 1.6
episode: 175	score: 1.0	memory length: 32842	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.57
episode: 176	score: 3.0	memory length: 33090	epsilon: 1.0	steps: 248	lr: 0.0001	evaluation reward: 1.58
episode: 177	score: 1.0	memory length: 33242	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.54
episode: 178	score: 0.0	memory length: 33366	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.51
episode: 179	score: 0.0	memory length: 33489	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.49
episode: 180	score: 2.0	memory length: 33688	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.51
episode: 181	score: 0.0	memory length: 33812	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.49
episode: 182	score: 2.0	memory length: 34032	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.5
episode: 183	score: 2.0	memory length: 34230	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.48
episode: 184	score: 0.0	memory length: 34354	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.37
episode: 185	score: 3.0	memory length: 34582	epsilon: 1.0	steps: 228	lr: 0.0001	evaluation reward: 1.39
episode: 186	score: 0.0	memory length: 34706	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.37
episode: 187	score: 0.0	memory length: 34829	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.36
episode: 188	score: 2.0	memory length: 35048	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.33
episode: 189	score: 2.0	memory length: 35249	epsilon: 1.0	steps: 201	lr: 0.0001	evaluation reward: 1.34
episode: 190	score: 4.0	memory length: 35562	epsilon: 1.0	steps: 313	lr: 0.0001	evaluation reward: 1.36
episode: 191	score: 0.0	memory length: 35686	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.34
episode: 192	score: 2.0	memory length: 35904	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.36
episode: 193	score: 2.0	memory length: 36102	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.36
episode: 194	score: 3.0	memory length: 36347	epsilon: 1.0	steps: 245	lr: 0.0001	evaluation reward: 1.39
episode: 195	score: 3.0	memory length: 36593	epsilon: 1.0	steps: 246	lr: 0.0001	evaluation reward: 1.42
episode: 196	score: 3.0	memory length: 36820	epsilon: 1.0	steps: 227	lr: 0.0001	evaluation reward: 1.44
episode: 197	score: 1.0	memory length: 36991	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.43
episode: 198	score: 1.0	memory length: 37161	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.43
episode: 199	score: 0.0	memory length: 37285	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.4
episode: 200	score: 1.0	memory length: 37457	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.37
episode: 201	score: 0.0	memory length: 37581	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.35
episode: 202	score: 6.0	memory length: 37963	epsilon: 1.0	steps: 382	lr: 0.0001	evaluation reward: 1.36
episode: 203	score: 3.0	memory length: 38208	epsilon: 1.0	steps: 245	lr: 0.0001	evaluation reward: 1.37
episode: 204	score: 0.0	memory length: 38332	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.35
episode: 205	score: 1.0	memory length: 38502	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.32
episode: 206	score: 0.0	memory length: 38625	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.32
episode: 207	score: 2.0	memory length: 38844	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.33
episode: 208	score: 1.0	memory length: 39017	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 1.33
episode: 209	score: 2.0	memory length: 39218	epsilon: 1.0	steps: 201	lr: 0.0001	evaluation reward: 1.34
episode: 210	score: 1.0	memory length: 39370	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.32
episode: 211	score: 4.0	memory length: 39658	epsilon: 1.0	steps: 288	lr: 0.0001	evaluation reward: 1.35
episode: 212	score: 0.0	memory length: 39782	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.34
episode: 213	score: 1.0	memory length: 39953	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.33
episode: 214	score: 3.0	memory length: 40200	epsilon: 1.0	steps: 247	lr: 0.0001	evaluation reward: 1.36
episode: 215	score: 2.0	memory length: 40417	epsilon: 1.0	steps: 217	lr: 0.0001	evaluation reward: 1.34
episode: 216	score: 1.0	memory length: 40587	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.33
episode: 217	score: 3.0	memory length: 40836	epsilon: 1.0	steps: 249	lr: 0.0001	evaluation reward: 1.36
episode: 218	score: 0.0	memory length: 40960	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.35
episode: 219	score: 3.0	memory length: 41210	epsilon: 1.0	steps: 250	lr: 0.0001	evaluation reward: 1.37
episode: 220	score: 3.0	memory length: 41458	epsilon: 1.0	steps: 248	lr: 0.0001	evaluation reward: 1.39
episode: 221	score: 0.0	memory length: 41582	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.39
episode: 222	score: 0.0	memory length: 41705	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.37
episode: 223	score: 2.0	memory length: 41924	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.39
episode: 224	score: 0.0	memory length: 42047	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.39
episode: 225	score: 0.0	memory length: 42171	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.39
episode: 226	score: 2.0	memory length: 42369	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.4
episode: 227	score: 0.0	memory length: 42493	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.39
episode: 228	score: 7.0	memory length: 42794	epsilon: 1.0	steps: 301	lr: 0.0001	evaluation reward: 1.46
episode: 229	score: 3.0	memory length: 43038	epsilon: 1.0	steps: 244	lr: 0.0001	evaluation reward: 1.46
episode: 230	score: 1.0	memory length: 43211	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 1.46
episode: 231	score: 2.0	memory length: 43391	epsilon: 1.0	steps: 180	lr: 0.0001	evaluation reward: 1.48
episode: 232	score: 1.0	memory length: 43562	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.48
episode: 233	score: 3.0	memory length: 43807	epsilon: 1.0	steps: 245	lr: 0.0001	evaluation reward: 1.49
episode: 234	score: 1.0	memory length: 43978	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.49
episode: 235	score: 0.0	memory length: 44101	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.49
episode: 236	score: 3.0	memory length: 44367	epsilon: 1.0	steps: 266	lr: 0.0001	evaluation reward: 1.51
episode: 237	score: 6.0	memory length: 44742	epsilon: 1.0	steps: 375	lr: 0.0001	evaluation reward: 1.56
episode: 238	score: 3.0	memory length: 44990	epsilon: 1.0	steps: 248	lr: 0.0001	evaluation reward: 1.59
episode: 239	score: 1.0	memory length: 45162	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.58
episode: 240	score: 1.0	memory length: 45333	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.59
episode: 241	score: 3.0	memory length: 45559	epsilon: 1.0	steps: 226	lr: 0.0001	evaluation reward: 1.6
episode: 242	score: 1.0	memory length: 45729	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.6
episode: 243	score: 1.0	memory length: 45899	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.6
episode: 244	score: 0.0	memory length: 46022	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.58
episode: 245	score: 2.0	memory length: 46223	epsilon: 1.0	steps: 201	lr: 0.0001	evaluation reward: 1.57
episode: 246	score: 2.0	memory length: 46444	epsilon: 1.0	steps: 221	lr: 0.0001	evaluation reward: 1.59
episode: 247	score: 0.0	memory length: 46568	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.59
episode: 248	score: 0.0	memory length: 46692	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.59
episode: 249	score: 0.0	memory length: 46816	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.57
episode: 250	score: 4.0	memory length: 47075	epsilon: 1.0	steps: 259	lr: 0.0001	evaluation reward: 1.59
episode: 251	score: 2.0	memory length: 47274	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.58
episode: 252	score: 0.0	memory length: 47398	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.56
episode: 253	score: 2.0	memory length: 47620	epsilon: 1.0	steps: 222	lr: 0.0001	evaluation reward: 1.58

episode: 254	score: 0.0	memory length: 47744	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.58
episode: 255	score: 2.0	memory length: 47942	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.6
episode: 256	score: 1.0	memory length: 48111	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.61
episode: 257	score: 4.0	memory length: 48408	epsilon: 1.0	steps: 297	lr: 0.0001	evaluation reward: 1.62
episode: 258	score: 5.0	memory length: 48715	epsilon: 1.0	steps: 307	lr: 0.0001	evaluation reward: 1.65
episode: 259	score: 3.0	memory length: 48943	epsilon: 1.0	steps: 228	lr: 0.0001	evaluation reward: 1.67
episode: 260	score: 0.0	memory length: 49067	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.67
episode: 261	score: 0.0	memory length: 49191	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.65
episode: 262	score: 2.0	memory length: 49390	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.67
episode: 263	score: 2.0	memory length: 49610	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.66
episode: 264	score: 1.0	memory length: 49781	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.64
episode: 265	score: 4.0	memory length: 50080	epsilon: 1.0	steps: 299	lr: 0.0001	evaluation reward: 1.68
episode: 266	score: 3.0	memory length: 50346	epsilon: 1.0	steps: 266	lr: 0.0001	evaluation reward: 1.69
episode: 267	score: 2.0	memory length: 50549	epsilon: 1.0	steps: 203	lr: 0.0001	evaluation reward: 1.7
episode: 268	score: 0.0	memory length: 50673	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.69
episode: 269	score: 2.0	memory length: 50889	epsilon: 1.0	steps: 216	lr: 0.0001	evaluation reward: 1.69
episode: 270	score: 3.0	memory length: 51118	epsilon: 1.0	steps: 229	lr: 0.0001	evaluation reward: 1.7
episode: 271	score: 2.0	memory length: 51318	epsilon: 1.0	steps: 200	lr: 0.0001	evaluation reward: 1.7
episode: 272	score: 3.0	memory length: 51583	epsilon: 1.0	steps: 265	lr: 0.0001	evaluation reward: 1.72
episode: 273	score: 0.0	memory length: 51707	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.71
episode: 274	score: 0.0	memory length: 51831	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.66
episode: 275	score: 1.0	memory length: 52000	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.66
episode: 276	score: 0.0	memory length: 52123	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.63
episode: 277	score: 2.0	memory length: 52322	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.64
episode: 278	score: 1.0	memory length: 52492	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.65
episode: 279	score: 0.0	memory length: 52616	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.65
episode: 280	score: 0.0	memory length: 52740	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.63
episode: 281	score: 2.0	memory length: 52958	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.65
episode: 282	score: 2.0	memory length: 53175	epsilon: 1.0	steps: 217	lr: 0.0001	evaluation reward: 1.65
episode: 283	score: 1.0	memory length: 53347	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.64
episode: 284	score: 2.0	memory length: 53547	epsilon: 1.0	steps: 200	lr: 0.0001	evaluation reward: 1.66
episode: 285	score: 0.0	memory length: 53670	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.63
episode: 286	score: 0.0	memory length: 53794	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.63
episode: 287	score: 0.0	memory length: 53918	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.63
episode: 288	score: 2.0	memory length: 54120	epsilon: 1.0	steps: 202	lr: 0.0001	evaluation reward: 1.63
episode: 289	score: 4.0	memory length: 54413	epsilon: 1.0	steps: 293	lr: 0.0001	evaluation reward: 1.65
episode: 290	score: 2.0	memory length: 54633	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.63
episode: 291	score: 0.0	memory length: 54756	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.63
episode: 292	score: 1.0	memory length: 54908	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.62
episode: 293	score: 1.0	memory length: 55081	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 1.61
episode: 294	score: 5.0	memory length: 55410	epsilon: 1.0	steps: 329	lr: 0.0001	evaluation reward: 1.63
episode: 295	score: 1.0	memory length: 55579	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.61
episode: 296	score: 0.0	memory length: 55702	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.58
episode: 297	score: 2.0	memory length: 55902	epsilon: 1.0	steps: 200	lr: 0.0001	evaluation reward: 1.59
episode: 298	score: 2.0	memory length: 56102	epsilon: 1.0	steps: 200	lr: 0.0001	evaluation reward: 1.6
episode: 299	score: 1.0	memory length: 56275	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 1.61
episode: 300	score: 1.0	memory length: 56444	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.61
episode: 301	score: 2.0	memory length: 56643	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.63
episode: 302	score: 0.0	memory length: 56766	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.57
episode: 303	score: 1.0	memory length: 56938	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.55
episode: 304	score: 2.0	memory length: 57138	epsilon: 1.0	steps: 200	lr: 0.0001	evaluation reward: 1.57
episode: 305	score: 2.0	memory length: 57337	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.58
episode: 306	score: 2.0	memory length: 57535	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.6
episode: 307	score: 1.0	memory length: 57705	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.59
episode: 308	score: 0.0	memory length: 57828	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.58
episode: 309	score: 0.0	memory length: 57952	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.56
episode: 310	score: 2.0	memory length: 58152	epsilon: 1.0	steps: 200	lr: 0.0001	evaluation reward: 1.57
episode: 311	score: 0.0	memory length: 58276	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.53
episode: 312	score: 2.0	memory length: 58477	epsilon: 1.0	steps: 201	lr: 0.0001	evaluation reward: 1.55
episode: 313	score: 2.0	memory length: 58676	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.56
episode: 314	score: 3.0	memory length: 58906	epsilon: 1.0	steps: 230	lr: 0.0001	evaluation reward: 1.56
episode: 315	score: 2.0	memory length: 59106	epsilon: 1.0	steps: 200	lr: 0.0001	evaluation reward: 1.56
episode: 316	score: 5.0	memory length: 59405	epsilon: 1.0	steps: 299	lr: 0.0001	evaluation reward: 1.6
episode: 317	score: 2.0	memory length: 59604	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.59
episode: 318	score: 2.0	memory length: 59802	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.61
episode: 319	score: 0.0	memory length: 59926	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.58
episode: 320	score: 1.0	memory length: 60096	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.56
episode: 321	score: 3.0	memory length: 60363	epsilon: 1.0	steps: 267	lr: 0.0001	evaluation reward: 1.59
episode: 322	score: 3.0	memory length: 60592	epsilon: 1.0	steps: 229	lr: 0.0001	evaluation reward: 1.62
episode: 323	score: 5.0	memory length: 60919	epsilon: 1.0	steps: 327	lr: 0.0001	evaluation reward: 1.65
episode: 324	score: 4.0	memory length: 61195	epsilon: 1.0	steps: 276	lr: 0.0001	evaluation reward: 1.69
episode: 325	score: 2.0	memory length: 61414	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.71
episode: 326	score: 0.0	memory length: 61537	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.69
episode: 327	score: 0.0	memory length: 61661	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.69
episode: 328	score: 1.0	memory length: 61831	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.63
episode: 329	score: 1.0	memory length: 61982	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.61
episode: 330	score: 0.0	memory length: 62106	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.6
episode: 331	score: 0.0	memory length: 62230	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.58
episode: 332	score: 1.0	memory length: 62400	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.58
episode: 333	score: 2.0	memory length: 62600	epsilon: 1.0	steps: 200	lr: 0.0001	evaluation reward: 1.57
episode: 334	score: 0.0	memory length: 62724	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.56
episode: 335	score: 0.0	memory length: 62847	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.56
episode: 336	score: 0.0	memory length: 62970	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.53
episode: 337	score: 0.0	memory length: 63094	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.47
episode: 338	score: 3.0	memory length: 63339	epsilon: 1.0	steps: 245	lr: 0.0001	evaluation reward: 1.47

episode: 339	score: 2.0	memory length: 63541	epsilon: 1.0	steps: 202	lr: 0.0001	evaluation reward: 1.48
episode: 340	score: 1.0	memory length: 63711	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.48
episode: 341	score: 0.0	memory length: 63835	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.45
episode: 342	score: 1.0	memory length: 64004	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.45
episode: 343	score: 0.0	memory length: 64128	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.44
episode: 344	score: 0.0	memory length: 64252	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.44
episode: 345	score: 1.0	memory length: 64404	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.43
episode: 346	score: 2.0	memory length: 64603	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.43
episode: 347	score: 2.0	memory length: 64823	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.45
episode: 348	score: 1.0	memory length: 64993	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.46
episode: 349	score: 4.0	memory length: 65290	epsilon: 1.0	steps: 297	lr: 0.0001	evaluation reward: 1.5
episode: 350	score: 0.0	memory length: 65414	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.46
episode: 351	score: 1.0	memory length: 65566	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.45
episode: 352	score: 2.0	memory length: 65783	epsilon: 1.0	steps: 217	lr: 0.0001	evaluation reward: 1.47
episode: 353	score: 0.0	memory length: 65907	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.45
episode: 354	score: 2.0	memory length: 66123	epsilon: 1.0	steps: 216	lr: 0.0001	evaluation reward: 1.47
episode: 355	score: 0.0	memory length: 66247	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.45
episode: 356	score: 0.0	memory length: 66371	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.44
episode: 357	score: 1.0	memory length: 66543	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.41
episode: 358	score: 2.0	memory length: 66742	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.38
episode: 359	score: 2.0	memory length: 66940	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.37
episode: 360	score: 2.0	memory length: 67160	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.39
episode: 361	score: 0.0	memory length: 67284	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.39
episode: 362	score: 1.0	memory length: 67454	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.38
episode: 363	score: 3.0	memory length: 67686	epsilon: 1.0	steps: 232	lr: 0.0001	evaluation reward: 1.39
episode: 364	score: 3.0	memory length: 67933	epsilon: 1.0	steps: 247	lr: 0.0001	evaluation reward: 1.41
episode: 365	score: 0.0	memory length: 68057	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.37
episode: 366	score: 4.0	memory length: 68352	epsilon: 1.0	steps: 295	lr: 0.0001	evaluation reward: 1.38
episode: 367	score: 1.0	memory length: 68504	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.37
episode: 368	score: 2.0	memory length: 68721	epsilon: 1.0	steps: 217	lr: 0.0001	evaluation reward: 1.39
episode: 369	score: 2.0	memory length: 68938	epsilon: 1.0	steps: 217	lr: 0.0001	evaluation reward: 1.39
episode: 370	score: 2.0	memory length: 69156	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.38
episode: 371	score: 4.0	memory length: 69452	epsilon: 1.0	steps: 296	lr: 0.0001	evaluation reward: 1.4
episode: 372	score: 0.0	memory length: 69575	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.37
episode: 373	score: 0.0	memory length: 69699	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.37
episode: 374	score: 2.0	memory length: 69898	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.39
episode: 375	score: 3.0	memory length: 70152	epsilon: 1.0	steps: 254	lr: 0.0001	evaluation reward: 1.41
episode: 376	score: 0.0	memory length: 70276	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.41
episode: 377	score: 5.0	memory length: 70624	epsilon: 1.0	steps: 348	lr: 0.0001	evaluation reward: 1.44
episode: 378	score: 1.0	memory length: 70796	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.44
episode: 379	score: 5.0	memory length: 71104	epsilon: 1.0	steps: 308	lr: 0.0001	evaluation reward: 1.49
episode: 380	score: 2.0	memory length: 71322	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.51
episode: 381	score: 0.0	memory length: 71445	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.49
episode: 382	score: 1.0	memory length: 71597	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.48
episode: 383	score: 0.0	memory length: 71720	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.47
episode: 384	score: 2.0	memory length: 71919	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.47
episode: 385	score: 3.0	memory length: 72167	epsilon: 1.0	steps: 248	lr: 0.0001	evaluation reward: 1.5
episode: 386	score: 2.0	memory length: 72366	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.52
episode: 387	score: 1.0	memory length: 72517	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.53
episode: 388	score: 2.0	memory length: 72735	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.53
episode: 389	score: 0.0	memory length: 72859	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.49
episode: 390	score: 0.0	memory length: 72982	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.47
episode: 391	score: 2.0	memory length: 73183	epsilon: 1.0	steps: 201	lr: 0.0001	evaluation reward: 1.49
episode: 392	score: 7.0	memory length: 73570	epsilon: 1.0	steps: 387	lr: 0.0001	evaluation reward: 1.55
episode: 393	score: 0.0	memory length: 73693	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.54
episode: 394	score: 5.0	memory length: 74004	epsilon: 1.0	steps: 311	lr: 0.0001	evaluation reward: 1.54
episode: 395	score: 0.0	memory length: 74127	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.53
episode: 396	score: 0.0	memory length: 74251	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.53
episode: 397	score: 0.0	memory length: 74375	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.51
episode: 398	score: 2.0	memory length: 74595	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.51
episode: 399	score: 1.0	memory length: 74746	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.51
episode: 400	score: 2.0	memory length: 74969	epsilon: 1.0	steps: 223	lr: 0.0001	evaluation reward: 1.52
episode: 401	score: 1.0	memory length: 75140	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.51
episode: 402	score: 3.0	memory length: 75349	epsilon: 1.0	steps: 209	lr: 0.0001	evaluation reward: 1.54
episode: 403	score: 2.0	memory length: 75547	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.55
episode: 404	score: 1.0	memory length: 75719	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.54
episode: 405	score: 2.0	memory length: 75938	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.54
episode: 406	score: 1.0	memory length: 76090	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.53
episode: 407	score: 1.0	memory length: 76243	epsilon: 1.0	steps: 153	lr: 0.0001	evaluation reward: 1.53
episode: 408	score: 2.0	memory length: 76441	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.55
episode: 409	score: 3.0	memory length: 76670	epsilon: 1.0	steps: 229	lr: 0.0001	evaluation reward: 1.58
episode: 410	score: 3.0	memory length: 76900	epsilon: 1.0	steps: 230	lr: 0.0001	evaluation reward: 1.59
episode: 411	score: 1.0	memory length: 77070	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.6
episode: 412	score: 0.0	memory length: 77193	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.58
episode: 413	score: 4.0	memory length: 77470	epsilon: 1.0	steps: 277	lr: 0.0001	evaluation reward: 1.6
episode: 414	score: 1.0	memory length: 77623	epsilon: 1.0	steps: 153	lr: 0.0001	evaluation reward: 1.58
episode: 415	score: 1.0	memory length: 77775	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.57
episode: 416	score: 3.0	memory length: 78046	epsilon: 1.0	steps: 271	lr: 0.0001	evaluation reward: 1.55
episode: 417	score: 0.0	memory length: 78169	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.53
episode: 418	score: 0.0	memory length: 78293	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.51
episode: 419	score: 3.0	memory length: 78559	epsilon: 1.0	steps: 266	lr: 0.0001	evaluation reward: 1.54
episode: 420	score: 4.0	memory length: 78835	epsilon: 1.0	steps: 276	lr: 0.0001	evaluation reward: 1.57
episode: 421	score: 1.0	memory length: 78987	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.55
episode: 422	score: 3.0	memory length: 79200	epsilon: 1.0	steps: 213	lr: 0.0001	evaluation reward: 1.55
episode: 423	score: 3.0	memory length: 79447	epsilon: 1.0	steps: 247	lr: 0.0001	evaluation reward: 1.53

episode: 423	score: 3.0	memory length: 7777	epsilon: 1.0	steps: 47	lr: 0.0001	evaluation reward: 1.55
episode: 424	score: 1.0	memory length: 79620	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 1.5
episode: 425	score: 3.0	memory length: 79847	epsilon: 1.0	steps: 227	lr: 0.0001	evaluation reward: 1.51
episode: 426	score: 0.0	memory length: 79971	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.51
episode: 427	score: 1.0	memory length: 80123	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.52
episode: 428	score: 0.0	memory length: 80246	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.51
episode: 429	score: 0.0	memory length: 80369	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.5
episode: 430	score: 4.0	memory length: 80662	epsilon: 1.0	steps: 293	lr: 0.0001	evaluation reward: 1.54
episode: 431	score: 0.0	memory length: 80786	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.54
episode: 432	score: 1.0	memory length: 80937	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.54
episode: 433	score: 3.0	memory length: 81182	epsilon: 1.0	steps: 245	lr: 0.0001	evaluation reward: 1.55
episode: 434	score: 3.0	memory length: 81434	epsilon: 1.0	steps: 252	lr: 0.0001	evaluation reward: 1.58
episode: 435	score: 2.0	memory length: 81617	epsilon: 1.0	steps: 183	lr: 0.0001	evaluation reward: 1.6
episode: 436	score: 0.0	memory length: 81740	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.6
episode: 437	score: 1.0	memory length: 81911	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.61
episode: 438	score: 4.0	memory length: 82192	epsilon: 1.0	steps: 281	lr: 0.0001	evaluation reward: 1.62
episode: 439	score: 2.0	memory length: 82409	epsilon: 1.0	steps: 217	lr: 0.0001	evaluation reward: 1.62
episode: 440	score: 2.0	memory length: 82628	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.63
episode: 441	score: 1.0	memory length: 82797	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.64
episode: 442	score: 0.0	memory length: 82921	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.63
episode: 443	score: 1.0	memory length: 83091	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.64
episode: 444	score: 2.0	memory length: 83272	epsilon: 1.0	steps: 181	lr: 0.0001	evaluation reward: 1.66
episode: 445	score: 3.0	memory length: 83519	epsilon: 1.0	steps: 247	lr: 0.0001	evaluation reward: 1.68
episode: 446	score: 1.0	memory length: 83670	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.67
episode: 447	score: 1.0	memory length: 83843	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 1.66
episode: 448	score: 0.0	memory length: 83967	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.65
episode: 449	score: 1.0	memory length: 84119	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.62
episode: 450	score: 1.0	memory length: 84289	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.63
episode: 451	score: 2.0	memory length: 84488	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.64
episode: 452	score: 2.0	memory length: 84708	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.64
episode: 453	score: 3.0	memory length: 84974	epsilon: 1.0	steps: 266	lr: 0.0001	evaluation reward: 1.67
episode: 454	score: 2.0	memory length: 85173	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.67
episode: 455	score: 1.0	memory length: 85343	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.68
episode: 456	score: 1.0	memory length: 85514	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.69
episode: 457	score: 0.0	memory length: 85637	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.68
episode: 458	score: 3.0	memory length: 85863	epsilon: 1.0	steps: 226	lr: 0.0001	evaluation reward: 1.69
episode: 459	score: 0.0	memory length: 85987	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.67
episode: 460	score: 1.0	memory length: 86157	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.66
episode: 461	score: 1.0	memory length: 86328	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.67
episode: 462	score: 0.0	memory length: 86451	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.66
episode: 463	score: 0.0	memory length: 86575	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.63
episode: 464	score: 2.0	memory length: 86774	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.62
episode: 465	score: 1.0	memory length: 86926	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.63
episode: 466	score: 1.0	memory length: 87078	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.6
episode: 467	score: 1.0	memory length: 87251	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 1.6
episode: 468	score: 2.0	memory length: 87455	epsilon: 1.0	steps: 204	lr: 0.0001	evaluation reward: 1.6
episode: 469	score: 3.0	memory length: 87724	epsilon: 1.0	steps: 269	lr: 0.0001	evaluation reward: 1.61
episode: 470	score: 1.0	memory length: 87875	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.6
episode: 471	score: 0.0	memory length: 87999	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.56
episode: 472	score: 1.0	memory length: 88151	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.57
episode: 473	score: 3.0	memory length: 88399	epsilon: 1.0	steps: 248	lr: 0.0001	evaluation reward: 1.6
episode: 474	score: 3.0	memory length: 88666	epsilon: 1.0	steps: 267	lr: 0.0001	evaluation reward: 1.61
episode: 475	score: 1.0	memory length: 88836	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.59
episode: 476	score: 0.0	memory length: 88959	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.59
episode: 477	score: 0.0	memory length: 89083	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.54
episode: 478	score: 2.0	memory length: 89282	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.55
episode: 479	score: 0.0	memory length: 89405	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.5
episode: 480	score: 0.0	memory length: 89529	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.48
episode: 481	score: 2.0	memory length: 89733	epsilon: 1.0	steps: 204	lr: 0.0001	evaluation reward: 1.5
episode: 482	score: 5.0	memory length: 90061	epsilon: 1.0	steps: 328	lr: 0.0001	evaluation reward: 1.54
episode: 483	score: 0.0	memory length: 90185	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.54
episode: 484	score: 0.0	memory length: 90309	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.52
episode: 485	score: 4.0	memory length: 90606	epsilon: 1.0	steps: 297	lr: 0.0001	evaluation reward: 1.53
episode: 486	score: 2.0	memory length: 90807	epsilon: 1.0	steps: 201	lr: 0.0001	evaluation reward: 1.53
episode: 487	score: 1.0	memory length: 90978	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.53
episode: 488	score: 3.0	memory length: 91210	epsilon: 1.0	steps: 232	lr: 0.0001	evaluation reward: 1.54
episode: 489	score: 1.0	memory length: 91361	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.55
episode: 490	score: 2.0	memory length: 91561	epsilon: 1.0	steps: 200	lr: 0.0001	evaluation reward: 1.57
episode: 491	score: 2.0	memory length: 91762	epsilon: 1.0	steps: 201	lr: 0.0001	evaluation reward: 1.57
episode: 492	score: 0.0	memory length: 91885	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.5
episode: 493	score: 1.0	memory length: 92057	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.51
episode: 494	score: 2.0	memory length: 92256	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.48
episode: 495	score: 4.0	memory length: 92551	epsilon: 1.0	steps: 295	lr: 0.0001	evaluation reward: 1.52
episode: 496	score: 0.0	memory length: 92675	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.52
episode: 497	score: 1.0	memory length: 92847	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.53
episode: 498	score: 0.0	memory length: 92970	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.51
episode: 499	score: 2.0	memory length: 93190	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.52
episode: 500	score: 0.0	memory length: 93313	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.5
episode: 501	score: 1.0	memory length: 93465	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.5
episode: 502	score: 1.0	memory length: 93617	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.48
episode: 503	score: 1.0	memory length: 93788	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.47
episode: 504	score: 3.0	memory length: 94032	epsilon: 1.0	steps: 244	lr: 0.0001	evaluation reward: 1.49
episode: 505	score: 2.0	memory length: 94213	epsilon: 1.0	steps: 181	lr: 0.0001	evaluation reward: 1.49
episode: 506	score: 1.0	memory length: 94383	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.49
episode: 507	score: 1.0	memory length: 94535	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.49

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episode: 508 score: 3.0 memory length: 94762 epsilon: 1.0 steps: 227 lr: 0.0001 evaluation reward: 1.5
episode: 509 score: 5.0 memory length: 95107 epsilon: 1.0 steps: 345 lr: 0.0001 evaluation reward: 1.52
episode: 510 score: 1.0 memory length: 95259 epsilon: 1.0 steps: 152 lr: 0.0001 evaluation reward: 1.5
episode: 511 score: 0.0 memory length: 95383 epsilon: 1.0 steps: 124 lr: 0.0001 evaluation reward: 1.49
episode: 512 score: 0.0 memory length: 95507 epsilon: 1.0 steps: 124 lr: 0.0001 evaluation reward: 1.49
episode: 513 score: 3.0 memory length: 95734 epsilon: 1.0 steps: 227 lr: 0.0001 evaluation reward: 1.48
episode: 514 score: 0.0 memory length: 95858 epsilon: 1.0 steps: 124 lr: 0.0001 evaluation reward: 1.47
episode: 515 score: 1.0 memory length: 96028 epsilon: 1.0 steps: 170 lr: 0.0001 evaluation reward: 1.47
episode: 516 score: 2.0 memory length: 96247 epsilon: 1.0 steps: 219 lr: 0.0001 evaluation reward: 1.46
episode: 517 score: 3.0 memory length: 96495 epsilon: 1.0 steps: 248 lr: 0.0001 evaluation reward: 1.49
episode: 518 score: 3.0 memory length: 96745 epsilon: 1.0 steps: 250 lr: 0.0001 evaluation reward: 1.52
episode: 519 score: 1.0 memory length: 96915 epsilon: 1.0 steps: 170 lr: 0.0001 evaluation reward: 1.5
episode: 520 score: 1.0 memory length: 97067 epsilon: 1.0 steps: 152 lr: 0.0001 evaluation reward: 1.47
episode: 521 score: 0.0 memory length: 97191 epsilon: 1.0 steps: 124 lr: 0.0001 evaluation reward: 1.46
episode: 522 score: 1.0 memory length: 97361 epsilon: 1.0 steps: 170 lr: 0.0001 evaluation reward: 1.44
episode: 523 score: 4.0 memory length: 97637 epsilon: 1.0 steps: 276 lr: 0.0001 evaluation reward: 1.45
episode: 524 score: 0.0 memory length: 97761 epsilon: 1.0 steps: 124 lr: 0.0001 evaluation reward: 1.44
episode: 525 score: 3.0 memory length: 97988 epsilon: 1.0 steps: 227 lr: 0.0001 evaluation reward: 1.44
episode: 526 score: 2.0 memory length: 98206 epsilon: 1.0 steps: 218 lr: 0.0001 evaluation reward: 1.46
episode: 527 score: 2.0 memory length: 98424 epsilon: 1.0 steps: 218 lr: 0.0001 evaluation reward: 1.47
episode: 528 score: 3.0 memory length: 98656 epsilon: 1.0 steps: 232 lr: 0.0001 evaluation reward: 1.5
episode: 529 score: 0.0 memory length: 98780 epsilon: 1.0 steps: 124 lr: 0.0001 evaluation reward: 1.5
episode: 530 score: 0.0 memory length: 98903 epsilon: 1.0 steps: 123 lr: 0.0001 evaluation reward: 1.46
episode: 531 score: 1.0 memory length: 99073 epsilon: 1.0 steps: 170 lr: 0.0001 evaluation reward: 1.47
episode: 532 score: 3.0 memory length: 99341 epsilon: 1.0 steps: 268 lr: 0.0001 evaluation reward: 1.49
episode: 533 score: 2.0 memory length: 99560 epsilon: 1.0 steps: 219 lr: 0.0001 evaluation reward: 1.48
episode: 534 score: 1.0 memory length: 99711 epsilon: 1.0 steps: 151 lr: 0.0001 evaluation reward: 1.46
episode: 535 score: 2.0 memory length: 99891 epsilon: 1.0 steps: 180 lr: 0.0001 evaluation reward: 1.46
/content/gdrive/.shortcut-targets-by-id/1CyodJ2SP_pATjHElVctJ3S5_2D-1_IHK/assignment5_materials/agent.py:61: VisibleDeprecat
mini_batch = np.array(mini_batch).transpose()
/content/gdrive/.shortcut-targets-by-id/1CyodJ2SP_pATjHElVctJ3S5_2D-1_IHK/assignment5_materials/agent.py:102: UserWarning: ir
next_states_value[mask] = self.policy_net(next_states[mask]).max(1)[0].detach()
/content/gdrive/.shortcut-targets-by-id/1CyodJ2SP_pATjHElVctJ3S5_2D-1_IHK/assignment5_materials/agent.py:61: FutureWarning: 
mini_batch = np.array(mini_batch).transpose()
episode: 536 score: 5.0 memory length: 100221 epsilon: 0.9995604400000095 steps: 330 lr: 0.0001 evaluation re
episode: 537 score: 1.0 memory length: 100392 epsilon: 0.9992218600000169 steps: 171 lr: 0.0001 evaluation re
episode: 538 score: 0.0 memory length: 100515 epsilon: 0.9989783200000222 steps: 123 lr: 0.0001 evaluation re
episode: 539 score: 3.0 memory length: 100760 epsilon: 0.9984932200000327 steps: 245 lr: 0.0001 evaluation re
episode: 540 score: 2.0 memory length: 100941 epsilon: 0.99813484000000405 steps: 181 lr: 0.0001 evaluation re
episode: 541 score: 1.0 memory length: 101110 epsilon: 0.9978002200000478 steps: 169 lr: 0.0001 evaluation re
episode: 542 score: 3.0 memory length: 101357 epsilon: 0.9973111600000584 steps: 247 lr: 0.0001 evaluation re
episode: 543 score: 2.0 memory length: 101555 epsilon: 0.9969191200000669 steps: 198 lr: 0.0001 evaluation re
episode: 544 score: 3.0 memory length: 101784 epsilon: 0.9964657000000767 steps: 229 lr: 0.0001 evaluation re
episode: 545 score: 0.0 memory length: 101907 epsilon: 0.996222160000082 steps: 123 lr: 0.0001 evaluation rev
episode: 546 score: 1.0 memory length: 102058 epsilon: 0.9959231800000885 steps: 151 lr: 0.0001 evaluation re
episode: 547 score: 4.0 memory length: 102338 epsilon: 0.9953687800001005 steps: 280 lr: 0.0001 evaluation re
episode: 548 score: 1.0 memory length: 102489 epsilon: 0.995069800000107 steps: 151 lr: 0.0001 evaluation rev
episode: 549 score: 2.0 memory length: 102708 epsilon: 0.9946361800001164 steps: 219 lr: 0.0001 evaluation re
episode: 550 score: 2.0 memory length: 102890 epsilon: 0.9942758200001243 steps: 182 lr: 0.0001 evaluation re
episode: 551 score: 0.0 memory length: 103014 epsilon: 0.9940303000001296 steps: 124 lr: 0.0001 evaluation re
episode: 552 score: 2.0 memory length: 103213 epsilon: 0.9936362800001382 steps: 199 lr: 0.0001 evaluation re
episode: 553 score: 2.0 memory length: 103433 epsilon: 0.9932006800001476 steps: 220 lr: 0.0001 evaluation re
episode: 554 score: 0.0 memory length: 103557 epsilon: 0.9929551600001529 steps: 124 lr: 0.0001 evaluation re
episode: 555 score: 1.0 memory length: 103728 epsilon: 0.9926165800001603 steps: 171 lr: 0.0001 evaluation re
episode: 556 score: 2.0 memory length: 103945 epsilon: 0.9921869200001696 steps: 217 lr: 0.0001 evaluation re
episode: 557 score: 3.0 memory length: 104191 epsilon: 0.9916998400001802 steps: 246 lr: 0.0001 evaluation re
episode: 558 score: 1.0 memory length: 104360 epsilon: 0.9913652200001875 steps: 169 lr: 0.0001 evaluation re
episode: 559 score: 0.0 memory length: 104483 epsilon: 0.9911216800001927 steps: 123 lr: 0.0001 evaluation re
episode: 560 score: 5.0 memory length: 104813 epsilon: 0.9904682800002069 steps: 330 lr: 0.0001 evaluation re
episode: 561 score: 3.0 memory length: 105062 epsilon: 0.9899752600002176 steps: 249 lr: 0.0001 evaluation re
episode: 562 score: 3.0 memory length: 105289 epsilon: 0.9895258000002274 steps: 227 lr: 0.0001 evaluation re
episode: 563 score: 2.0 memory length: 105490 epsilon: 0.989127820000236 steps: 201 lr: 0.0001 evaluation rev
episode: 564 score: 0.0 memory length: 105614 epsilon: 0.9888823000002414 steps: 124 lr: 0.0001 evaluation re
episode: 565 score: 2.0 memory length: 105832 epsilon: 0.9884506600002507 steps: 218 lr: 0.0001 evaluation re
episode: 566 score: 1.0 memory length: 106002 epsilon: 0.988114060000258 steps: 170 lr: 0.0001 evaluation rev
episode: 567 score: 2.0 memory length: 106201 epsilon: 0.9877200400002666 steps: 199 lr: 0.0001 evaluation re
episode: 568 score: 0.0 memory length: 106324 epsilon: 0.9874765000002719 steps: 123 lr: 0.0001 evaluation re
episode: 569 score: 1.0 memory length: 106495 epsilon: 0.9871379200002792 steps: 171 lr: 0.0001 evaluation re
episode: 570 score: 2.0 memory length: 106694 epsilon: 0.9867439000002878 steps: 199 lr: 0.0001 evaluation re
episode: 571 score: 4.0 memory length: 106991 epsilon: 0.9861558400003005 steps: 297 lr: 0.0001 evaluation re
episode: 572 score: 3.0 memory length: 107239 epsilon: 0.9856648000003112 steps: 248 lr: 0.0001 evaluation re
episode: 573 score: 0.0 memory length: 107363 epsilon: 0.9854192800003165 steps: 124 lr: 0.0001 evaluation re
episode: 574 score: 3.0 memory length: 107611 epsilon: 0.9849282400003272 steps: 248 lr: 0.0001 evaluation re
episode: 575 score: 3.0 memory length: 107860 epsilon: 0.9844352200003379 steps: 249 lr: 0.0001 evaluation re
episode: 576 score: 1.0 memory length: 108012 epsilon: 0.9841342600003444 steps: 152 lr: 0.0001 evaluation re
episode: 577 score: 2.0 memory length: 108211 epsilon: 0.983740240000353 steps: 199 lr: 0.0001 evaluation rev
episode: 578 score: 2.0 memory length: 108429 epsilon: 0.9833086000003624 steps: 218 lr: 0.0001 evaluation re
episode: 579 score: 1.0 memory length: 108580 epsilon: 0.9830096200003688 steps: 151 lr: 0.0001 evaluation re
episode: 580 score: 2.0 memory length: 108800 epsilon: 0.9825740200003783 steps: 220 lr: 0.0001 evaluation re
episode: 581 score: 2.0 memory length: 109020 epsilon: 0.9821384200003878 steps: 220 lr: 0.0001 evaluation re
episode: 582 score: 1.0 memory length: 109189 epsilon: 0.981803800000395 steps: 169 lr: 0.0001 evaluation rev
episode: 583 score: 1.0 memory length: 109360 epsilon: 0.9814652200004024 steps: 171 lr: 0.0001 evaluation re
episode: 584 score: 3.0 memory length: 109632 epsilon: 0.9809266600004141 steps: 272 lr: 0.0001 evaluation re
episode: 585 score: 0.0 memory length: 109756 epsilon: 0.9806811400004194 steps: 124 lr: 0.0001 evaluation re
episode: 586 score: 0.0 memory length: 109880 epsilon: 0.9804356200004247 steps: 124 lr: 0.0001 evaluation re

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episode: 587	score: 1.0	memory length: 110050	epsilon: 0.980099020000432	steps: 170	lr: 0.0001	evaluation rev
episode: 588	score: 0.0	memory length: 110174	epsilon: 0.9798535000004374	steps: 124	lr: 0.0001	evaluation re
episode: 589	score: 3.0	memory length: 110383	epsilon: 0.9794396800004463	steps: 209	lr: 0.0001	evaluation re
episode: 590	score: 2.0	memory length: 110582	epsilon: 0.9790456600004549	steps: 199	lr: 0.0001	evaluation re
episode: 591	score: 1.0	memory length: 110733	epsilon: 0.9787466800004614	steps: 151	lr: 0.0001	evaluation re
episode: 592	score: 2.0	memory length: 110931	epsilon: 0.9783546400004699	steps: 198	lr: 0.0001	evaluation re
episode: 593	score: 0.0	memory length: 111055	epsilon: 0.9781091200004752	steps: 124	lr: 0.0001	evaluation re
episode: 594	score: 3.0	memory length: 111321	epsilon: 0.9775824400004867	steps: 266	lr: 0.0001	evaluation re
episode: 595	score: 0.0	memory length: 111445	epsilon: 0.977336920000492	steps: 124	lr: 0.0001	evaluation rev
episode: 596	score: 0.0	memory length: 111568	epsilon: 0.9770933800004973	steps: 123	lr: 0.0001	evaluation re
episode: 597	score: 0.0	memory length: 111692	epsilon: 0.9768478600005026	steps: 124	lr: 0.0001	evaluation re
episode: 598	score: 0.0	memory length: 111815	epsilon: 0.9766043200005079	steps: 123	lr: 0.0001	evaluation re
episode: 599	score: 3.0	memory length: 112062	epsilon: 0.9761152600005185	steps: 247	lr: 0.0001	evaluation re
episode: 600	score: 1.0	memory length: 112231	epsilon: 0.9757806400005258	steps: 169	lr: 0.0001	evaluation re
episode: 601	score: 4.0	memory length: 112529	epsilon: 0.9751906000005386	steps: 298	lr: 0.0001	evaluation re
episode: 602	score: 1.0	memory length: 112680	epsilon: 0.9748916200005451	steps: 151	lr: 0.0001	evaluation re
episode: 603	score: 2.0	memory length: 112880	epsilon: 0.9744956200005537	steps: 200	lr: 0.0001	evaluation re
episode: 604	score: 1.0	memory length: 113050	epsilon: 0.974159020000561	steps: 170	lr: 0.0001	evaluation rev
episode: 605	score: 2.0	memory length: 113249	epsilon: 0.9737650000005695	steps: 199	lr: 0.0001	evaluation re
episode: 606	score: 1.0	memory length: 113419	epsilon: 0.9734284000005768	steps: 170	lr: 0.0001	evaluation re
episode: 607	score: 3.0	memory length: 113687	epsilon: 0.9728977600005884	steps: 268	lr: 0.0001	evaluation re
episode: 608	score: 1.0	memory length: 113839	epsilon: 0.9725968000005949	steps: 152	lr: 0.0001	evaluation re
episode: 609	score: 1.0	memory length: 114009	epsilon: 0.9722602000006022	steps: 170	lr: 0.0001	evaluation re
episode: 610	score: 1.0	memory length: 114179	epsilon: 0.9719236000006095	steps: 170	lr: 0.0001	evaluation re
episode: 611	score: 3.0	memory length: 114413	epsilon: 0.9714602800006196	steps: 234	lr: 0.0001	evaluation re
episode: 612	score: 0.0	memory length: 114537	epsilon: 0.9712147600006249	steps: 124	lr: 0.0001	evaluation re
episode: 613	score: 0.0	memory length: 114660	epsilon: 0.9709712200006302	steps: 123	lr: 0.0001	evaluation re
episode: 614	score: 2.0	memory length: 114859	epsilon: 0.9705772000006387	steps: 199	lr: 0.0001	evaluation re
episode: 615	score: 0.0	memory length: 114982	epsilon: 0.970333660000644	steps: 123	lr: 0.0001	evaluation rev
episode: 616	score: 1.0	memory length: 115151	epsilon: 0.9699990400006513	steps: 169	lr: 0.0001	evaluation re
episode: 617	score: 0.0	memory length: 115275	epsilon: 0.9697535200006566	steps: 124	lr: 0.0001	evaluation re
episode: 618	score: 2.0	memory length: 115492	epsilon: 0.969323860000666	steps: 217	lr: 0.0001	evaluation rev
episode: 619	score: 1.0	memory length: 115644	epsilon: 0.9690229000006725	steps: 152	lr: 0.0001	evaluation re
episode: 620	score: 0.0	memory length: 115768	epsilon: 0.9687773800006778	steps: 124	lr: 0.0001	evaluation re
episode: 621	score: 2.0	memory length: 115967	epsilon: 0.9683833600006864	steps: 199	lr: 0.0001	evaluation re
episode: 622	score: 0.0	memory length: 116091	epsilon: 0.9681378400006917	steps: 124	lr: 0.0001	evaluation re
episode: 623	score: 1.0	memory length: 116243	epsilon: 0.9678368800006982	steps: 152	lr: 0.0001	evaluation re
episode: 624	score: 1.0	memory length: 116394	epsilon: 0.9675379000007047	steps: 151	lr: 0.0001	evaluation re
episode: 625	score: 0.0	memory length: 116518	epsilon: 0.96729238000071	steps: 124	lr: 0.0001	evaluation rew
episode: 626	score: 0.0	memory length: 116642	epsilon: 0.9670468600007154	steps: 124	lr: 0.0001	evaluation re
episode: 627	score: 0.0	memory length: 116765	epsilon: 0.9668033200007207	steps: 123	lr: 0.0001	evaluation re
episode: 628	score: 1.0	memory length: 116934	epsilon: 0.9664687000007279	steps: 169	lr: 0.0001	evaluation re
episode: 629	score: 2.0	memory length: 117153	epsilon: 0.9660350800007373	steps: 219	lr: 0.0001	evaluation re
episode: 630	score: 2.0	memory length: 117352	epsilon: 0.9656410600007459	steps: 199	lr: 0.0001	evaluation re
episode: 631	score: 0.0	memory length: 117476	epsilon: 0.9653955400007512	steps: 124	lr: 0.0001	evaluation re
episode: 632	score: 2.0	memory length: 117674	epsilon: 0.9650035000007597	steps: 198	lr: 0.0001	evaluation re
episode: 633	score: 0.0	memory length: 117797	epsilon: 0.964759960000765	steps: 123	lr: 0.0001	evaluation rev
episode: 634	score: 3.0	memory length: 118066	epsilon: 0.9642273400007766	steps: 269	lr: 0.0001	evaluation re
episode: 635	score: 1.0	memory length: 118237	epsilon: 0.9638887600007839	steps: 171	lr: 0.0001	evaluation re
episode: 636	score: 2.0	memory length: 118436	epsilon: 0.9634947400007925	steps: 199	lr: 0.0001	evaluation re
episode: 637	score: 3.0	memory length: 118684	epsilon: 0.9630037000008032	steps: 248	lr: 0.0001	evaluation re
episode: 638	score: 2.0	memory length: 118902	epsilon: 0.9625720600008125	steps: 218	lr: 0.0001	evaluation re
episode: 639	score: 3.0	memory length: 119130	epsilon: 0.9621206200008223	steps: 228	lr: 0.0001	evaluation re
episode: 640	score: 4.0	memory length: 119444	epsilon: 0.9614989000008358	steps: 314	lr: 0.0001	evaluation re
episode: 641	score: 0.0	memory length: 119568	epsilon: 0.9612533800008412	steps: 124	lr: 0.0001	evaluation re
episode: 642	score: 1.0	memory length: 119737	epsilon: 0.9609187600008484	steps: 169	lr: 0.0001	evaluation re
episode: 643	score: 2.0	memory length: 119955	epsilon: 0.9604871200008578	steps: 218	lr: 0.0001	evaluation re
episode: 644	score: 3.0	memory length: 120221	epsilon: 0.9599604400008692	steps: 266	lr: 0.0001	evaluation re
episode: 645	score: 0.0	memory length: 120345	epsilon: 0.9597149200008745	steps: 124	lr: 0.0001	evaluation re
episode: 646	score: 1.0	memory length: 120516	epsilon: 0.9593763400008819	steps: 171	lr: 0.0001	evaluation re
episode: 647	score: 1.0	memory length: 120668	epsilon: 0.9590753800008884	steps: 152	lr: 0.0001	evaluation re
episode: 648	score: 0.0	memory length: 120791	epsilon: 0.9588318400008937	steps: 123	lr: 0.0001	evaluation re
episode: 649	score: 0.0	memory length: 120914	epsilon: 0.958588300000899	steps: 123	lr: 0.0001	evaluation rev
episode: 650	score: 0.0	memory length: 121037	epsilon: 0.9583447600009043	steps: 123	lr: 0.0001	evaluation re
episode: 651	score: 0.0	memory length: 121161	epsilon: 0.9580992400009096	steps: 124	lr: 0.0001	evaluation re
episode: 652	score: 1.0	memory length: 121334	epsilon: 0.9577567000009171	steps: 173	lr: 0.0001	evaluation re
episode: 653	score: 2.0	memory length: 121533	epsilon: 0.9573626800009256	steps: 199	lr: 0.0001	evaluation re
episode: 654	score: 1.0	memory length: 121705	epsilon: 0.957022120000933	steps: 172	lr: 0.0001	evaluation rev
episode: 655	score: 1.0	memory length: 121858	epsilon: 0.9567191800009396	steps: 153	lr: 0.0001	evaluation re
episode: 656	score: 2.0	memory length: 122078	epsilon: 0.956283580000949	steps: 220	lr: 0.0001	evaluation rev
episode: 657	score: 0.0	memory length: 122202	epsilon: 0.9560380600009544	steps: 124	lr: 0.0001	evaluation re
episode: 658	score: 1.0	memory length: 122375	epsilon: 0.9556955200009618	steps: 173	lr: 0.0001	evaluation re
episode: 659	score: 0.0	memory length: 122499	epsilon: 0.9554500000009671	steps: 124	lr: 0.0001	evaluation re
episode: 660	score: 2.0	memory length: 122719	epsilon: 0.9550144000009766	steps: 220	lr: 0.0001	evaluation re
episode: 661	score: 0.0	memory length: 122842	epsilon: 0.9547708600009819	steps: 123	lr: 0.0001	evaluation re
episode: 662	score: 2.0	memory length: 123061	epsilon: 0.9543372400009913	steps: 219	lr: 0.0001	evaluation re
episode: 663	score: 1.0	memory length: 123232	epsilon: 0.9539986600009986	steps: 171	lr: 0.0001	evaluation re
episode: 664	score: 2.0	memory length: 123431	epsilon: 0.9536046400010072	steps: 199	lr: 0.0001	evaluation re
episode: 665	score: 0.0	memory length: 123555	epsilon: 0.9533591200010125	steps: 124	lr: 0.0001	evaluation re
episode: 666	score: 1.0	memory length: 123707	epsilon: 0.9530581600010191	steps: 152	lr: 0.0001	evaluation re
episode: 667	score: 4.0	memory length: 124004	epsilon: 0.9524701000010318	steps: 297	lr: 0.0001	evaluation re
episode: 668	score: 2.0	memory length: 124203	epsilon: 0.9520760800010404	steps: 199	lr: 0.0001	evaluation re
episode: 669	score: 5.0	memory length: 124547	epsilon: 0.9513949600010552	steps: 344	lr: 0.0001	evaluation re
episode: 670	score: 0.0	memory length: 124670	epsilon: 0.9511514200010605	steps: 123	lr: 0.0001	evaluation re
episode: 671	score: 3.0	memory length: 124918	epsilon: 0.9506603800010711	steps: 248	lr: 0.0001	evaluation re

episode: 672	score: 3.0	memory length: 125166	epsilon: 0.9501693400010818	steps: 248	lr: 0.0001	evaluation re
episode: 673	score: 0.0	memory length: 125289	epsilon: 0.9499258000010871	steps: 123	lr: 0.0001	evaluation re
episode: 674	score: 2.0	memory length: 125489	epsilon: 0.9495298000010957	steps: 200	lr: 0.0001	evaluation re
episode: 675	score: 0.0	memory length: 125613	epsilon: 0.949284280001101	steps: 124	lr: 0.0001	evaluation re
episode: 676	score: 1.0	memory length: 125764	epsilon: 0.9489853000011075	steps: 151	lr: 0.0001	evaluation re
episode: 677	score: 2.0	memory length: 125965	epsilon: 0.9485873200011161	steps: 201	lr: 0.0001	evaluation re
episode: 678	score: 1.0	memory length: 126117	epsilon: 0.9482863600011227	steps: 152	lr: 0.0001	evaluation re
episode: 679	score: 2.0	memory length: 126315	epsilon: 0.9478943200011312	steps: 198	lr: 0.0001	evaluation re
episode: 680	score: 4.0	memory length: 126613	epsilon: 0.947304280001144	steps: 298	lr: 0.0001	evaluation rev
episode: 681	score: 2.0	memory length: 126812	epsilon: 0.9469102600011525	steps: 199	lr: 0.0001	evaluation re
episode: 682	score: 1.0	memory length: 126964	epsilon: 0.9466093000011591	steps: 152	lr: 0.0001	evaluation re
episode: 683	score: 2.0	memory length: 127163	epsilon: 0.9462152800011676	steps: 199	lr: 0.0001	evaluation re
episode: 684	score: 3.0	memory length: 127410	epsilon: 0.9457262200011782	steps: 247	lr: 0.0001	evaluation re
episode: 685	score: 5.0	memory length: 127709	epsilon: 0.9451342000011911	steps: 299	lr: 0.0001	evaluation re
episode: 686	score: 0.0	memory length: 127833	epsilon: 0.9448886800011964	steps: 124	lr: 0.0001	evaluation re
episode: 687	score: 0.0	memory length: 127956	epsilon: 0.9446451400012017	steps: 123	lr: 0.0001	evaluation re
episode: 688	score: 5.0	memory length: 128284	epsilon: 0.9439957000012158	steps: 328	lr: 0.0001	evaluation re
episode: 689	score: 1.0	memory length: 128454	epsilon: 0.9436591000012231	steps: 170	lr: 0.0001	evaluation re
episode: 690	score: 2.0	memory length: 128676	epsilon: 0.9432195400012326	steps: 222	lr: 0.0001	evaluation re
episode: 691	score: 1.0	memory length: 128847	epsilon: 0.94288096000124	steps: 171	lr: 0.0001	evaluation rew
episode: 692	score: 1.0	memory length: 129017	epsilon: 0.9425443600012473	steps: 170	lr: 0.0001	evaluation re
episode: 693	score: 1.0	memory length: 129187	epsilon: 0.9422077600012546	steps: 170	lr: 0.0001	evaluation re
episode: 694	score: 2.0	memory length: 129386	epsilon: 0.9418137400012632	steps: 199	lr: 0.0001	evaluation re
episode: 695	score: 2.0	memory length: 129584	epsilon: 0.9414217000012717	steps: 198	lr: 0.0001	evaluation re
episode: 696	score: 0.0	memory length: 129708	epsilon: 0.941176180001277	steps: 124	lr: 0.0001	evaluation rev
episode: 697	score: 1.0	memory length: 129860	epsilon: 0.9408752200012835	steps: 152	lr: 0.0001	evaluation re
episode: 698	score: 0.0	memory length: 129984	epsilon: 0.9406297000012889	steps: 124	lr: 0.0001	evaluation re
episode: 699	score: 2.0	memory length: 130170	epsilon: 0.9402614200012969	steps: 186	lr: 0.0001	evaluation re
episode: 700	score: 3.0	memory length: 130436	epsilon: 0.9397347400013083	steps: 266	lr: 0.0001	evaluation re
episode: 701	score: 0.0	memory length: 130560	epsilon: 0.9394892200013136	steps: 124	lr: 0.0001	evaluation re
episode: 702	score: 2.0	memory length: 130758	epsilon: 0.9390971800013221	steps: 198	lr: 0.0001	evaluation re
episode: 703	score: 2.0	memory length: 130958	epsilon: 0.9387011800013307	steps: 200	lr: 0.0001	evaluation re
episode: 704	score: 1.0	memory length: 131109	epsilon: 0.9384022000013372	steps: 151	lr: 0.0001	evaluation re
episode: 705	score: 1.0	memory length: 131261	epsilon: 0.9381012400013438	steps: 152	lr: 0.0001	evaluation re
episode: 706	score: 1.0	memory length: 131433	epsilon: 0.9377606800013512	steps: 172	lr: 0.0001	evaluation re
episode: 707	score: 0.0	memory length: 131557	epsilon: 0.9375151600013565	steps: 124	lr: 0.0001	evaluation re
episode: 708	score: 2.0	memory length: 131740	epsilon: 0.9371528200013644	steps: 183	lr: 0.0001	evaluation re
episode: 709	score: 3.0	memory length: 131985	epsilon: 0.9366677200013749	steps: 245	lr: 0.0001	evaluation re
episode: 710	score: 2.0	memory length: 132204	epsilon: 0.9362341000013843	steps: 219	lr: 0.0001	evaluation re
episode: 711	score: 1.0	memory length: 132374	epsilon: 0.9358975000013916	steps: 170	lr: 0.0001	evaluation re
episode: 712	score: 0.0	memory length: 132498	epsilon: 0.9356519800013969	steps: 124	lr: 0.0001	evaluation re
episode: 713	score: 1.0	memory length: 132667	epsilon: 0.9353173600014042	steps: 169	lr: 0.0001	evaluation re
episode: 714	score: 2.0	memory length: 132888	epsilon: 0.9348797800014137	steps: 221	lr: 0.0001	evaluation re
episode: 715	score: 0.0	memory length: 133012	epsilon: 0.934634260001419	steps: 124	lr: 0.0001	evaluation rev
episode: 716	score: 3.0	memory length: 133259	epsilon: 0.9341452000014296	steps: 247	lr: 0.0001	evaluation re
episode: 717	score: 0.0	memory length: 133382	epsilon: 0.9339016600014349	steps: 123	lr: 0.0001	evaluation re
episode: 718	score: 0.0	memory length: 133506	epsilon: 0.9336561400014403	steps: 124	lr: 0.0001	evaluation re
episode: 719	score: 0.0	memory length: 133629	epsilon: 0.9334126000014455	steps: 123	lr: 0.0001	evaluation re
episode: 720	score: 0.0	memory length: 133753	epsilon: 0.9331670800014509	steps: 124	lr: 0.0001	evaluation re
episode: 721	score: 0.0	memory length: 133877	epsilon: 0.9329215600014562	steps: 124	lr: 0.0001	evaluation re
episode: 722	score: 2.0	memory length: 134097	epsilon: 0.9324859600014657	steps: 220	lr: 0.0001	evaluation re
episode: 723	score: 2.0	memory length: 134316	epsilon: 0.9320532400014751	steps: 219	lr: 0.0001	evaluation re
episode: 724	score: 1.0	memory length: 134486	epsilon: 0.9317157400014824	steps: 170	lr: 0.0001	evaluation re
episode: 725	score: 1.0	memory length: 134638	epsilon: 0.9314147800014889	steps: 152	lr: 0.0001	evaluation re
episode: 726	score: 0.0	memory length: 134762	epsilon: 0.9311692600014942	steps: 124	lr: 0.0001	evaluation re
episode: 727	score: 2.0	memory length: 134960	epsilon: 0.9307772200015028	steps: 198	lr: 0.0001	evaluation re
episode: 728	score: 1.0	memory length: 135130	epsilon: 0.9304406200015101	steps: 170	lr: 0.0001	evaluation re
episode: 729	score: 3.0	memory length: 135378	epsilon: 0.9299495800015207	steps: 248	lr: 0.0001	evaluation re
episode: 730	score: 0.0	memory length: 135502	epsilon: 0.9297040600015261	steps: 124	lr: 0.0001	evaluation re
episode: 731	score: 0.0	memory length: 135625	epsilon: 0.9294605200015313	steps: 123	lr: 0.0001	evaluation re
episode: 732	score: 1.0	memory length: 135795	epsilon: 0.9291239200015387	steps: 170	lr: 0.0001	evaluation re
episode: 733	score: 1.0	memory length: 135967	epsilon: 0.928783360001546	steps: 172	lr: 0.0001	evaluation rev
episode: 734	score: 1.0	memory length: 136137	epsilon: 0.9284467600015534	steps: 170	lr: 0.0001	evaluation re
episode: 735	score: 2.0	memory length: 136336	epsilon: 0.9280527400015619	steps: 199	lr: 0.0001	evaluation re
episode: 736	score: 0.0	memory length: 136459	epsilon: 0.9278092000015672	steps: 123	lr: 0.0001	evaluation re
episode: 737	score: 3.0	memory length: 136706	epsilon: 0.9273201400015778	steps: 247	lr: 0.0001	evaluation re
episode: 738	score: 2.0	memory length: 136887	epsilon: 0.9269617600015856	steps: 181	lr: 0.0001	evaluation re
episode: 739	score: 1.0	memory length: 137057	epsilon: 0.9266251600015929	steps: 170	lr: 0.0001	evaluation re
episode: 740	score: 0.0	memory length: 137181	epsilon: 0.9263796400015982	steps: 124	lr: 0.0001	evaluation re
episode: 741	score: 4.0	memory length: 137476	epsilon: 0.9257955400016109	steps: 295	lr: 0.0001	evaluation re
episode: 742	score: 0.0	memory length: 137600	epsilon: 0.9255500200016162	steps: 124	lr: 0.0001	evaluation re
episode: 743	score: 1.0	memory length: 137769	epsilon: 0.9252154000016235	steps: 169	lr: 0.0001	evaluation re
episode: 744	score: 2.0	memory length: 137967	epsilon: 0.924823360001632	steps: 198	lr: 0.0001	evaluation rev
episode: 745	score: 4.0	memory length: 138244	epsilon: 0.9242749000016439	steps: 277	lr: 0.0001	evaluation re
episode: 746	score: 1.0	memory length: 138414	epsilon: 0.9239383000016512	steps: 170	lr: 0.0001	evaluation re
episode: 747	score: 2.0	memory length: 138631	epsilon: 0.9235086400016606	steps: 217	lr: 0.0001	evaluation re
episode: 748	score: 2.0	memory length: 138850	epsilon: 0.92307502000167	steps: 219	lr: 0.0001	evaluation rew
episode: 749	score: 3.0	memory length: 139077	epsilon: 0.9226255600016797	steps: 227	lr: 0.0001	evaluation re
episode: 750	score: 2.0	memory length: 139296	epsilon: 0.9221919400016891	steps: 219	lr: 0.0001	evaluation re
episode: 751	score: 1.0	memory length: 139466	epsilon: 0.9218553400016964	steps: 170	lr: 0.0001	evaluation re
episode: 752	score: 0.0	memory length: 139590	epsilon: 0.9216098200017018	steps: 124	lr: 0.0001	evaluation re
episode: 753	score: 2.0	memory length: 139812	epsilon: 0.9211702600017113	steps: 222	lr: 0.0001	evaluation re
episode: 754	score: 2.0	memory length: 140011	epsilon: 0.9207762400017199	steps: 199	lr: 0.0001	evaluation re
episode: 755	score: 1.0	memory length: 140164	epsilon: 0.9204733000017264	steps: 153	lr: 0.0001	evaluation re
episode: 756	score: 2.0	memory length: 140383	epsilon: 0.9200396800017359	steps: 219	lr: 0.0001	evaluation re

episode: 757	score: 0.0	memory length: 140507	epsilon: 0.9197941600017412	steps: 124	lr: 0.0001	evaluation re
episode: 758	score: 1.0	memory length: 140658	epsilon: 0.9194951800017477	steps: 151	lr: 0.0001	evaluation re
episode: 759	score: 0.0	memory length: 140782	epsilon: 0.919249660001753	steps: 124	lr: 0.0001	evaluation rev
episode: 760	score: 0.0	memory length: 140906	epsilon: 0.9190041400017583	steps: 124	lr: 0.0001	evaluation re
episode: 761	score: 0.0	memory length: 141030	epsilon: 0.9187586200017637	steps: 124	lr: 0.0001	evaluation re
episode: 762	score: 2.0	memory length: 141249	epsilon: 0.9183250000017731	steps: 219	lr: 0.0001	evaluation re
episode: 763	score: 2.0	memory length: 141448	epsilon: 0.9179309800017816	steps: 199	lr: 0.0001	evaluation re
episode: 764	score: 1.0	memory length: 141600	epsilon: 0.9176300200017882	steps: 152	lr: 0.0001	evaluation re
episode: 765	score: 0.0	memory length: 141724	epsilon: 0.9173845000017935	steps: 124	lr: 0.0001	evaluation re
episode: 766	score: 3.0	memory length: 141971	epsilon: 0.9168954400018041	steps: 247	lr: 0.0001	evaluation re
episode: 767	score: 0.0	memory length: 142095	epsilon: 0.9166499200018094	steps: 124	lr: 0.0001	evaluation re
episode: 768	score: 3.0	memory length: 142322	epsilon: 0.9162004600018192	steps: 227	lr: 0.0001	evaluation re
episode: 769	score: 2.0	memory length: 142541	epsilon: 0.9157668400018286	steps: 219	lr: 0.0001	evaluation re
episode: 770	score: 1.0	memory length: 142710	epsilon: 0.9154322200018359	steps: 169	lr: 0.0001	evaluation re
episode: 771	score: 2.0	memory length: 142909	epsilon: 0.9150382000018444	steps: 199	lr: 0.0001	evaluation re
episode: 772	score: 1.0	memory length: 143079	epsilon: 0.9147016000018517	steps: 170	lr: 0.0001	evaluation re
episode: 773	score: 2.0	memory length: 143278	epsilon: 0.9143075800018603	steps: 199	lr: 0.0001	evaluation re
episode: 774	score: 1.0	memory length: 143448	epsilon: 0.9139709800018676	steps: 170	lr: 0.0001	evaluation re
episode: 775	score: 2.0	memory length: 143668	epsilon: 0.9135353800018771	steps: 220	lr: 0.0001	evaluation re
episode: 776	score: 0.0	memory length: 143792	epsilon: 0.9132898600018824	steps: 124	lr: 0.0001	evaluation re
episode: 777	score: 3.0	memory length: 144041	epsilon: 0.9127968400018931	steps: 249	lr: 0.0001	evaluation re
episode: 778	score: 3.0	memory length: 144286	epsilon: 0.9123117400019036	steps: 245	lr: 0.0001	evaluation re
episode: 779	score: 1.0	memory length: 144459	epsilon: 0.9119692000019111	steps: 173	lr: 0.0001	evaluation re
episode: 780	score: 2.0	memory length: 144658	epsilon: 0.9115751800019196	steps: 199	lr: 0.0001	evaluation re
episode: 781	score: 2.0	memory length: 144877	epsilon: 0.911141560001929	steps: 219	lr: 0.0001	evaluation rev
episode: 782	score: 1.0	memory length: 145047	epsilon: 0.9108049600019363	steps: 170	lr: 0.0001	evaluation re
episode: 783	score: 2.0	memory length: 145264	epsilon: 0.9103753000019457	steps: 217	lr: 0.0001	evaluation re
episode: 784	score: 1.0	memory length: 145435	epsilon: 0.910036720001953	steps: 171	lr: 0.0001	evaluation rev
episode: 785	score: 2.0	memory length: 145635	epsilon: 0.9096407200019616	steps: 200	lr: 0.0001	evaluation re
episode: 786	score: 0.0	memory length: 145758	epsilon: 0.9093971800019669	steps: 123	lr: 0.0001	evaluation re
episode: 787	score: 1.0	memory length: 145930	epsilon: 0.9090566200019743	steps: 172	lr: 0.0001	evaluation re
episode: 788	score: 3.0	memory length: 146157	epsilon: 0.908607160001984	steps: 227	lr: 0.0001	evaluation rev
episode: 789	score: 1.0	memory length: 146309	epsilon: 0.9083062000019906	steps: 152	lr: 0.0001	evaluation re
episode: 790	score: 2.0	memory length: 146508	epsilon: 0.9079121800019991	steps: 199	lr: 0.0001	evaluation re
episode: 791	score: 2.0	memory length: 146707	epsilon: 0.9075181600020077	steps: 199	lr: 0.0001	evaluation re
episode: 792	score: 2.0	memory length: 146926	epsilon: 0.9070845400020171	steps: 219	lr: 0.0001	evaluation re
episode: 793	score: 3.0	memory length: 147190	epsilon: 0.9065618200020285	steps: 264	lr: 0.0001	evaluation re
episode: 794	score: 0.0	memory length: 147314	epsilon: 0.9063163000020338	steps: 124	lr: 0.0001	evaluation re
episode: 795	score: 3.0	memory length: 147561	epsilon: 0.9058272400020444	steps: 247	lr: 0.0001	evaluation re
episode: 796	score: 3.0	memory length: 147808	epsilon: 0.905338180002055	steps: 247	lr: 0.0001	evaluation rev
episode: 797	score: 0.0	memory length: 147932	epsilon: 0.9050926600020603	steps: 124	lr: 0.0001	evaluation re
episode: 798	score: 0.0	memory length: 148055	epsilon: 0.9048491200020656	steps: 123	lr: 0.0001	evaluation re
episode: 799	score: 3.0	memory length: 148302	epsilon: 0.9043600600020762	steps: 247	lr: 0.0001	evaluation re
episode: 800	score: 3.0	memory length: 148538	epsilon: 0.9038927800020864	steps: 236	lr: 0.0001	evaluation re
episode: 801	score: 1.0	memory length: 148690	epsilon: 0.9035918200020929	steps: 152	lr: 0.0001	evaluation re
episode: 802	score: 0.0	memory length: 148814	epsilon: 0.9033463000020983	steps: 124	lr: 0.0001	evaluation re
episode: 803	score: 2.0	memory length: 149013	epsilon: 0.9029522800021068	steps: 199	lr: 0.0001	evaluation re
episode: 804	score: 1.0	memory length: 149165	epsilon: 0.9026513200021133	steps: 152	lr: 0.0001	evaluation re
episode: 805	score: 0.0	memory length: 149289	epsilon: 0.9024058000021187	steps: 124	lr: 0.0001	evaluation re
episode: 806	score: 0.0	memory length: 149413	epsilon: 0.902160280002124	steps: 124	lr: 0.0001	evaluation rev
episode: 807	score: 3.0	memory length: 149643	epsilon: 0.9017048800021339	steps: 230	lr: 0.0001	evaluation re
episode: 808	score: 2.0	memory length: 149866	epsilon: 0.9012633400021435	steps: 223	lr: 0.0001	evaluation re
episode: 809	score: 1.0	memory length: 150018	epsilon: 0.90096238000215	steps: 152	lr: 0.0001	evaluation rew
episode: 810	score: 1.0	memory length: 150189	epsilon: 0.9006238000021574	steps: 171	lr: 0.0001	evaluation re
episode: 811	score: 2.0	memory length: 150388	epsilon: 0.9002297800021659	steps: 199	lr: 0.0001	evaluation re
episode: 812	score: 3.0	memory length: 150616	epsilon: 0.8997783400021757	steps: 228	lr: 0.0001	evaluation re
episode: 813	score: 1.0	memory length: 150786	epsilon: 0.899441740002183	steps: 170	lr: 0.0001	evaluation rev
episode: 814	score: 5.0	memory length: 151095	epsilon: 0.8988299200021963	steps: 309	lr: 0.0001	evaluation re
episode: 815	score: 0.0	memory length: 151219	epsilon: 0.8985844000022016	steps: 124	lr: 0.0001	evaluation re
episode: 816	score: 3.0	memory length: 151466	epsilon: 0.8980953400022123	steps: 247	lr: 0.0001	evaluation re
episode: 817	score: 0.0	memory length: 151590	epsilon: 0.8978498200022176	steps: 124	lr: 0.0001	evaluation re
episode: 818	score: 2.0	memory length: 151789	epsilon: 0.8974558000022261	steps: 199	lr: 0.0001	evaluation re
episode: 819	score: 1.0	memory length: 151961	epsilon: 0.8971152400022335	steps: 172	lr: 0.0001	evaluation re
episode: 820	score: 2.0	memory length: 152177	epsilon: 0.8966875600022428	steps: 216	lr: 0.0001	evaluation re
episode: 821	score: 1.0	memory length: 152347	epsilon: 0.8963509600022501	steps: 170	lr: 0.0001	evaluation re
episode: 822	score: 3.0	memory length: 152595	epsilon: 0.8958599200022608	steps: 248	lr: 0.0001	evaluation re
episode: 823	score: 0.0	memory length: 152718	epsilon: 0.8956163800022661	steps: 123	lr: 0.0001	evaluation re
episode: 824	score: 2.0	memory length: 152937	epsilon: 0.8951827600022755	steps: 219	lr: 0.0001	evaluation re
episode: 825	score: 0.0	memory length: 153061	epsilon: 0.8949372400022808	steps: 124	lr: 0.0001	evaluation re
episode: 826	score: 0.0	memory length: 153185	epsilon: 0.8946917200022861	steps: 124	lr: 0.0001	evaluation re
episode: 827	score: 2.0	memory length: 153402	epsilon: 0.8942620600022955	steps: 217	lr: 0.0001	evaluation re
episode: 828	score: 1.0	memory length: 153554	epsilon: 0.893961100002302	steps: 152	lr: 0.0001	evaluation rev
episode: 829	score: 0.0	memory length: 153678	epsilon: 0.8937155800023073	steps: 124	lr: 0.0001	evaluation re
episode: 830	score: 0.0	memory length: 153802	epsilon: 0.8934700600023127	steps: 124	lr: 0.0001	evaluation re
episode: 831	score: 0.0	memory length: 153926	epsilon: 0.893224540002318	steps: 124	lr: 0.0001	evaluation rev
episode: 832	score: 3.0	memory length: 154175	epsilon: 0.8927315200023287	steps: 249	lr: 0.0001	evaluation re
episode: 833	score: 0.0	memory length: 154298	epsilon: 0.892487980002334	steps: 123	lr: 0.0001	evaluation rev
episode: 834	score: 2.0	memory length: 154497	epsilon: 0.8920939600023425	steps: 199	lr: 0.0001	evaluation re
episode: 835	score: 0.0	memory length: 154621	epsilon: 0.8918484400023479	steps: 124	lr: 0.0001	evaluation re
episode: 836	score: 1.0	memory length: 154791	epsilon: 0.8915118400023552	steps: 170	lr: 0.0001	evaluation re
episode: 837	score: 3.0	memory length: 155038	epsilon: 0.8910227800023658	steps: 247	lr: 0.0001	evaluation re
episode: 838	score: 0.0	memory length: 155162	epsilon: 0.8907772600023711	steps: 124	lr: 0.0001	evaluation re
episode: 839	score: 0.0	memory length: 155286	epsilon: 0.8905317400023764	steps: 124	lr: 0.0001	evaluation re
episode: 840	score: 1.0	memory length: 155457	epsilon: 0.8901931600023838	steps: 171	lr: 0.0001	evaluation re
episode: 841	score: 3.0	memory length: 155703	epsilon: 0.8897060800023944	steps: 246	lr: 0.0001	evaluation re

episode: 841	score: 3.0	memory length: 155703	epsilon: 0.8897000000000000	steps: 270	lr: 0.0001	evaluation re
episode: 842	score: 0.0	memory length: 155827	epsilon: 0.88946056000023997	steps: 124	lr: 0.0001	evaluation re
episode: 843	score: 2.0	memory length: 156046	epsilon: 0.88902694000024091	steps: 219	lr: 0.0001	evaluation re
episode: 844	score: 1.0	memory length: 156197	epsilon: 0.88872796000024156	steps: 151	lr: 0.0001	evaluation re
episode: 845	score: 2.0	memory length: 156396	epsilon: 0.88833394000024242	steps: 199	lr: 0.0001	evaluation re
episode: 846	score: 3.0	memory length: 156641	epsilon: 0.88784884000024347	steps: 245	lr: 0.0001	evaluation re
episode: 847	score: 4.0	memory length: 156937	epsilon: 0.88726276000024474	steps: 296	lr: 0.0001	evaluation re
episode: 848	score: 3.0	memory length: 157170	epsilon: 0.88680142000024574	steps: 233	lr: 0.0001	evaluation re
episode: 849	score: 2.0	memory length: 157372	epsilon: 0.88640146000024661	steps: 202	lr: 0.0001	evaluation re
episode: 850	score: 1.0	memory length: 157542	epsilon: 0.88606486000024734	steps: 170	lr: 0.0001	evaluation re
episode: 851	score: 0.0	memory length: 157666	epsilon: 0.88581934000024788	steps: 124	lr: 0.0001	evaluation re
episode: 852	score: 1.0	memory length: 157838	epsilon: 0.88547878000024861	steps: 172	lr: 0.0001	evaluation re
episode: 853	score: 0.0	memory length: 157962	epsilon: 0.88523326000024915	steps: 124	lr: 0.0001	evaluation re
episode: 854	score: 1.0	memory length: 158114	epsilon: 0.8849323000002498	steps: 152	lr: 0.0001	evaluation rev
episode: 855	score: 1.0	memory length: 158285	epsilon: 0.88459372000025054	steps: 171	lr: 0.0001	evaluation re
episode: 856	score: 4.0	memory length: 158582	epsilon: 0.88400566000025181	steps: 297	lr: 0.0001	evaluation re
episode: 857	score: 4.0	memory length: 158878	epsilon: 0.88341958000025308	steps: 296	lr: 0.0001	evaluation re
episode: 858	score: 2.0	memory length: 159061	epsilon: 0.88305724000025387	steps: 183	lr: 0.0001	evaluation re
episode: 859	score: 1.0	memory length: 159232	epsilon: 0.88271866000025461	steps: 171	lr: 0.0001	evaluation re
episode: 860	score: 2.0	memory length: 159450	epsilon: 0.88228702000025554	steps: 218	lr: 0.0001	evaluation re
episode: 861	score: 2.0	memory length: 159670	epsilon: 0.88185142000025649	steps: 220	lr: 0.0001	evaluation re
episode: 862	score: 0.0	memory length: 159794	epsilon: 0.88160590000025702	steps: 124	lr: 0.0001	evaluation re
episode: 863	score: 0.0	memory length: 159918	epsilon: 0.88136038000025755	steps: 124	lr: 0.0001	evaluation re
episode: 864	score: 0.0	memory length: 160042	epsilon: 0.88111486000025809	steps: 124	lr: 0.0001	evaluation re
episode: 865	score: 0.0	memory length: 160165	epsilon: 0.88087132000025862	steps: 123	lr: 0.0001	evaluation re
episode: 866	score: 0.0	memory length: 160288	epsilon: 0.88062778000025915	steps: 123	lr: 0.0001	evaluation re
episode: 867	score: 1.0	memory length: 160458	epsilon: 0.88029118000025988	steps: 170	lr: 0.0001	evaluation re
episode: 868	score: 1.0	memory length: 160628	epsilon: 0.87995458000026061	steps: 170	lr: 0.0001	evaluation re
episode: 869	score: 0.0	memory length: 160752	epsilon: 0.87970906000026114	steps: 124	lr: 0.0001	evaluation re
episode: 870	score: 3.0	memory length: 160981	epsilon: 0.87925564000026212	steps: 229	lr: 0.0001	evaluation re
episode: 871	score: 1.0	memory length: 161151	epsilon: 0.87891904000026285	steps: 170	lr: 0.0001	evaluation re
episode: 872	score: 3.0	memory length: 161378	epsilon: 0.87846958000026383	steps: 227	lr: 0.0001	evaluation re
episode: 873	score: 2.0	memory length: 161578	epsilon: 0.87807358000026469	steps: 200	lr: 0.0001	evaluation re
episode: 874	score: 2.0	memory length: 161776	epsilon: 0.87768154000026554	steps: 198	lr: 0.0001	evaluation re
episode: 875	score: 0.0	memory length: 161900	epsilon: 0.87743602000026607	steps: 124	lr: 0.0001	evaluation re
episode: 876	score: 0.0	memory length: 162024	epsilon: 0.87719050000026661	steps: 124	lr: 0.0001	evaluation re
episode: 877	score: 1.0	memory length: 162197	epsilon: 0.87684796000026735	steps: 173	lr: 0.0001	evaluation re
episode: 878	score: 2.0	memory length: 162396	epsilon: 0.87645394000026821	steps: 199	lr: 0.0001	evaluation re
episode: 879	score: 3.0	memory length: 162641	epsilon: 0.87596884000026926	steps: 245	lr: 0.0001	evaluation re
episode: 880	score: 0.0	memory length: 162764	epsilon: 0.87572530000026979	steps: 123	lr: 0.0001	evaluation re
episode: 881	score: 1.0	memory length: 162933	epsilon: 0.87539068000027051	steps: 169	lr: 0.0001	evaluation re
episode: 882	score: 0.0	memory length: 163057	epsilon: 0.87514516000027105	steps: 124	lr: 0.0001	evaluation re
episode: 883	score: 3.0	memory length: 163301	epsilon: 0.8746620400002721	steps: 244	lr: 0.0001	evaluation rev
episode: 884	score: 2.0	memory length: 163505	epsilon: 0.87425812000027297	steps: 204	lr: 0.0001	evaluation re
episode: 885	score: 3.0	memory length: 163772	epsilon: 0.87372946000027412	steps: 267	lr: 0.0001	evaluation re
episode: 886	score: 0.0	memory length: 163896	epsilon: 0.87348394000027465	steps: 124	lr: 0.0001	evaluation re
episode: 887	score: 2.0	memory length: 164116	epsilon: 0.8730483400002756	steps: 220	lr: 0.0001	evaluation rev
episode: 888	score: 3.0	memory length: 164382	epsilon: 0.87252166000027674	steps: 266	lr: 0.0001	evaluation re
episode: 889	score: 0.0	memory length: 164505	epsilon: 0.87227812000027727	steps: 123	lr: 0.0001	evaluation re
episode: 890	score: 0.0	memory length: 164628	epsilon: 0.8720345800002778	steps: 123	lr: 0.0001	evaluation rev
episode: 891	score: 2.0	memory length: 164847	epsilon: 0.87160096000027874	steps: 219	lr: 0.0001	evaluation re
episode: 892	score: 2.0	memory length: 165046	epsilon: 0.8712069400002796	steps: 199	lr: 0.0001	evaluation rev
episode: 893	score: 4.0	memory length: 165322	epsilon: 0.87066046000028078	steps: 276	lr: 0.0001	evaluation re
episode: 894	score: 4.0	memory length: 165599	epsilon: 0.87011200000028197	steps: 277	lr: 0.0001	evaluation re
episode: 895	score: 0.0	memory length: 165722	epsilon: 0.8698684600002825	steps: 123	lr: 0.0001	evaluation rev
episode: 896	score: 0.0	memory length: 165846	epsilon: 0.86962294000028304	steps: 124	lr: 0.0001	evaluation re
episode: 897	score: 3.0	memory length: 166097	epsilon: 0.86912596000028411	steps: 251	lr: 0.0001	evaluation re
episode: 898	score: 2.0	memory length: 166298	epsilon: 0.86872798000028498	steps: 201	lr: 0.0001	evaluation re
episode: 899	score: 0.0	memory length: 166422	epsilon: 0.86848246000028551	steps: 124	lr: 0.0001	evaluation re
episode: 900	score: 2.0	memory length: 166621	epsilon: 0.86808844000028637	steps: 199	lr: 0.0001	evaluation re
episode: 901	score: 0.0	memory length: 166744	epsilon: 0.8678449000002869	steps: 123	lr: 0.0001	evaluation rev
episode: 902	score: 5.0	memory length: 167067	epsilon: 0.86720536000028828	steps: 323	lr: 0.0001	evaluation re
episode: 903	score: 2.0	memory length: 167266	epsilon: 0.86681134000028914	steps: 199	lr: 0.0001	evaluation re
episode: 904	score: 3.0	memory length: 167515	epsilon: 0.86631832000029021	steps: 249	lr: 0.0001	evaluation re
episode: 905	score: 3.0	memory length: 167741	epsilon: 0.86587084000029118	steps: 226	lr: 0.0001	evaluation re
episode: 906	score: 1.0	memory length: 167910	epsilon: 0.86553622000029191	steps: 169	lr: 0.0001	evaluation re
episode: 907	score: 2.0	memory length: 168109	epsilon: 0.86514220000029276	steps: 199	lr: 0.0001	evaluation re
episode: 908	score: 0.0	memory length: 168233	epsilon: 0.8648966800002933	steps: 124	lr: 0.0001	evaluation rev
episode: 909	score: 1.0	memory length: 168385	epsilon: 0.86459572000029395	steps: 152	lr: 0.0001	evaluation re
episode: 910	score: 0.0	memory length: 168509	epsilon: 0.86435020000029448	steps: 124	lr: 0.0001	evaluation re
episode: 911	score: 1.0	memory length: 168681	epsilon: 0.86400964000029522	steps: 172	lr: 0.0001	evaluation re
episode: 912	score: 1.0	memory length: 168851	epsilon: 0.86367304000029595	steps: 170	lr: 0.0001	evaluation re
episode: 913	score: 2.0	memory length: 169053	epsilon: 0.86327308000029682	steps: 202	lr: 0.0001	evaluation re
episode: 914	score: 4.0	memory length: 169370	epsilon: 0.86264542000029818	steps: 317	lr: 0.0001	evaluation re
episode: 915	score: 0.0	memory length: 169494	epsilon: 0.86239990000029872	steps: 124	lr: 0.0001	evaluation re
episode: 916	score: 1.0	memory length: 169667	epsilon: 0.86205736000029946	steps: 173	lr: 0.0001	evaluation re
episode: 917	score: 3.0	memory length: 169917	epsilon: 0.86156236000030053	steps: 250	lr: 0.0001	evaluation re
episode: 918	score: 1.0	memory length: 170087	epsilon: 0.86122576000030127	steps: 170	lr: 0.0001	evaluation re
episode: 919	score: 0.0	memory length: 170210	epsilon: 0.86098222000030179	steps: 123	lr: 0.0001	evaluation re
episode: 920	score: 2.0	memory length: 170431	epsilon: 0.86054464000030274	steps: 221	lr: 0.0001	evaluation re
episode: 921	score: 0.0	memory length: 170554	epsilon: 0.86030110000030327	steps: 123	lr: 0.0001	evaluation re
episode: 922	score: 4.0	memory length: 170872	epsilon: 0.85967146000030464	steps: 318	lr: 0.0001	evaluation re
episode: 923	score: 4.0	memory length: 171147	epsilon: 0.85912696000030582	steps: 275	lr: 0.0001	evaluation re
episode: 924	score: 1.0	memory length: 171318	epsilon: 0.85878838000030656	steps: 171	lr: 0.0001	evaluation re
episode: 925	score: 0.0	memory length: 171442	epsilon: 0.85854286000030709	steps: 124	lr: 0.0001	evaluation re

episode: 926	score: 1.0	memory length: 171593	epsilon: 0.85824388000030774	steps: 151	lr: 0.0001	evaluation re
episode: 927	score: 3.0	memory length: 171838	epsilon: 0.85775878000030879	steps: 245	lr: 0.0001	evaluation re
episode: 928	score: 0.0	memory length: 171962	epsilon: 0.85751326000030932	steps: 124	lr: 0.0001	evaluation re
episode: 929	score: 0.0	memory length: 172086	epsilon: 0.85726774000030986	steps: 124	lr: 0.0001	evaluation re
episode: 930	score: 2.0	memory length: 172304	epsilon: 0.8568361000003108	steps: 218	lr: 0.0001	evaluation rev
episode: 931	score: 1.0	memory length: 172457	epsilon: 0.85653316000031145	steps: 153	lr: 0.0001	evaluation re
episode: 932	score: 2.0	memory length: 172655	epsilon: 0.8561411200003123	steps: 198	lr: 0.0001	evaluation rev
episode: 933	score: 0.0	memory length: 172779	epsilon: 0.85589560000031284	steps: 124	lr: 0.0001	evaluation re
episode: 934	score: 2.0	memory length: 172998	epsilon: 0.85546198000031378	steps: 219	lr: 0.0001	evaluation re
episode: 935	score: 2.0	memory length: 173217	epsilon: 0.85502836000031472	steps: 219	lr: 0.0001	evaluation re
episode: 936	score: 0.0	memory length: 173341	epsilon: 0.85478284000031525	steps: 124	lr: 0.0001	evaluation re
episode: 937	score: 2.0	memory length: 173563	epsilon: 0.85434328000031621	steps: 222	lr: 0.0001	evaluation re
episode: 938	score: 0.0	memory length: 173687	epsilon: 0.85409776000031674	steps: 124	lr: 0.0001	evaluation re
episode: 939	score: 1.0	memory length: 173859	epsilon: 0.85375720000031748	steps: 172	lr: 0.0001	evaluation re
episode: 940	score: 0.0	memory length: 173983	epsilon: 0.85351168000031801	steps: 124	lr: 0.0001	evaluation re
episode: 941	score: 2.0	memory length: 174182	epsilon: 0.85311766000031887	steps: 199	lr: 0.0001	evaluation re
episode: 942	score: 2.0	memory length: 174401	epsilon: 0.85268404000031981	steps: 219	lr: 0.0001	evaluation re
episode: 943	score: 2.0	memory length: 174601	epsilon: 0.85228804000032067	steps: 200	lr: 0.0001	evaluation re
episode: 944	score: 0.0	memory length: 174725	epsilon: 0.8520425200003212	steps: 124	lr: 0.0001	evaluation rev
episode: 945	score: 0.0	memory length: 174849	epsilon: 0.85179700000032173	steps: 124	lr: 0.0001	evaluation re
episode: 946	score: 2.0	memory length: 175048	epsilon: 0.85140298000032259	steps: 199	lr: 0.0001	evaluation re
episode: 947	score: 3.0	memory length: 175299	epsilon: 0.85090600000032367	steps: 251	lr: 0.0001	evaluation re
episode: 948	score: 1.0	memory length: 175471	epsilon: 0.85056544000032441	steps: 172	lr: 0.0001	evaluation re
episode: 949	score: 0.0	memory length: 175594	epsilon: 0.85032190000032494	steps: 123	lr: 0.0001	evaluation re
episode: 950	score: 2.0	memory length: 175812	epsilon: 0.84989026000032587	steps: 218	lr: 0.0001	evaluation re
episode: 951	score: 3.0	memory length: 176062	epsilon: 0.84939526000032695	steps: 250	lr: 0.0001	evaluation re
episode: 952	score: 3.0	memory length: 176292	epsilon: 0.84893986000032794	steps: 230	lr: 0.0001	evaluation re
episode: 953	score: 0.0	memory length: 176416	epsilon: 0.84869434000032847	steps: 124	lr: 0.0001	evaluation re
episode: 954	score: 1.0	memory length: 176587	epsilon: 0.8483557600003292	steps: 171	lr: 0.0001	evaluation rev
episode: 955	score: 1.0	memory length: 176739	epsilon: 0.84805480000032986	steps: 152	lr: 0.0001	evaluation re
episode: 956	score: 2.0	memory length: 176956	epsilon: 0.84762514000033079	steps: 217	lr: 0.0001	evaluation re
episode: 957	score: 1.0	memory length: 177108	epsilon: 0.84732418000033144	steps: 152	lr: 0.0001	evaluation re
episode: 958	score: 2.0	memory length: 177307	epsilon: 0.8469301600003323	steps: 199	lr: 0.0001	evaluation rev
episode: 959	score: 3.0	memory length: 177552	epsilon: 0.84644506000033335	steps: 245	lr: 0.0001	evaluation re
episode: 960	score: 3.0	memory length: 177818	epsilon: 0.8459183800003345	steps: 266	lr: 0.0001	evaluation rev
episode: 961	score: 0.0	memory length: 177942	epsilon: 0.84567286000033503	steps: 124	lr: 0.0001	evaluation re
episode: 962	score: 0.0	memory length: 178066	epsilon: 0.84542734000033556	steps: 124	lr: 0.0001	evaluation re
episode: 963	score: 5.0	memory length: 178392	epsilon: 0.84478186000033696	steps: 326	lr: 0.0001	evaluation re
episode: 964	score: 2.0	memory length: 178573	epsilon: 0.84442348000033774	steps: 181	lr: 0.0001	evaluation re
episode: 965	score: 0.0	memory length: 178696	epsilon: 0.84417994000033827	steps: 123	lr: 0.0001	evaluation re
episode: 966	score: 1.0	memory length: 178847	epsilon: 0.84388096000033892	steps: 151	lr: 0.0001	evaluation re
episode: 967	score: 2.0	memory length: 179046	epsilon: 0.84348694000033977	steps: 199	lr: 0.0001	evaluation re
episode: 968	score: 0.0	memory length: 179169	epsilon: 0.8432434000003403	steps: 123	lr: 0.0001	evaluation rev
episode: 969	score: 1.0	memory length: 179321	epsilon: 0.84294244000034096	steps: 152	lr: 0.0001	evaluation re
episode: 970	score: 2.0	memory length: 179543	epsilon: 0.84250288000034191	steps: 222	lr: 0.0001	evaluation re
episode: 971	score: 0.0	memory length: 179667	epsilon: 0.84225736000034244	steps: 124	lr: 0.0001	evaluation re
episode: 972	score: 2.0	memory length: 179886	epsilon: 0.84182374000034339	steps: 219	lr: 0.0001	evaluation re
episode: 973	score: 0.0	memory length: 180010	epsilon: 0.84157822000034392	steps: 124	lr: 0.0001	evaluation re
episode: 974	score: 3.0	memory length: 180257	epsilon: 0.84108916000034498	steps: 247	lr: 0.0001	evaluation re
episode: 975	score: 2.0	memory length: 180456	epsilon: 0.84069514000034584	steps: 199	lr: 0.0001	evaluation re
episode: 976	score: 1.0	memory length: 180627	epsilon: 0.84035656000034657	steps: 171	lr: 0.0001	evaluation re
episode: 977	score: 0.0	memory length: 180750	epsilon: 0.8401130200003471	steps: 123	lr: 0.0001	evaluation rev
episode: 978	score: 2.0	memory length: 180951	epsilon: 0.83971504000034796	steps: 201	lr: 0.0001	evaluation re
episode: 979	score: 1.0	memory length: 181121	epsilon: 0.83937844000034869	steps: 170	lr: 0.0001	evaluation re
episode: 980	score: 0.0	memory length: 181245	epsilon: 0.83913292000034923	steps: 124	lr: 0.0001	evaluation re
episode: 981	score: 4.0	memory length: 181559	epsilon: 0.83851120000035058	steps: 314	lr: 0.0001	evaluation re
episode: 982	score: 1.0	memory length: 181730	epsilon: 0.83817262000035131	steps: 171	lr: 0.0001	evaluation re
episode: 983	score: 0.0	memory length: 181854	epsilon: 0.83792710000035184	steps: 124	lr: 0.0001	evaluation re
episode: 984	score: 2.0	memory length: 182054	epsilon: 0.8375311000003527	steps: 200	lr: 0.0001	evaluation rev
episode: 985	score: 2.0	memory length: 182273	epsilon: 0.83709748000035365	steps: 219	lr: 0.0001	evaluation re
episode: 986	score: 0.0	memory length: 182396	epsilon: 0.83685394000035417	steps: 123	lr: 0.0001	evaluation re
episode: 987	score: 0.0	memory length: 182520	epsilon: 0.83660842000035471	steps: 124	lr: 0.0001	evaluation re
episode: 988	score: 0.0	memory length: 182644	epsilon: 0.83636290000035524	steps: 124	lr: 0.0001	evaluation re
episode: 989	score: 1.0	memory length: 182814	epsilon: 0.83602630000035597	steps: 170	lr: 0.0001	evaluation re
episode: 990	score: 0.0	memory length: 182937	epsilon: 0.8357827600003565	steps: 123	lr: 0.0001	evaluation rev
episode: 991	score: 1.0	memory length: 183109	epsilon: 0.83544220000035724	steps: 172	lr: 0.0001	evaluation re
episode: 992	score: 0.0	memory length: 183233	epsilon: 0.83519668000035777	steps: 124	lr: 0.0001	evaluation re
episode: 993	score: 1.0	memory length: 183404	epsilon: 0.83485810000035851	steps: 171	lr: 0.0001	evaluation re
episode: 994	score: 2.0	memory length: 183603	epsilon: 0.83446408000035936	steps: 199	lr: 0.0001	evaluation re
episode: 995	score: 2.0	memory length: 183822	epsilon: 0.8340304600003603	steps: 219	lr: 0.0001	evaluation rev
episode: 996	score: 0.0	memory length: 183946	epsilon: 0.83378494000036084	steps: 124	lr: 0.0001	evaluation re
episode: 997	score: 2.0	memory length: 184167	epsilon: 0.83334736000036179	steps: 221	lr: 0.0001	evaluation re
episode: 998	score: 1.0	memory length: 184337	epsilon: 0.83301076000036252	steps: 170	lr: 0.0001	evaluation re
episode: 999	score: 0.0	memory length: 184460	epsilon: 0.83276722000036305	steps: 123	lr: 0.0001	evaluation re
episode: 1000	score: 2.0	memory length: 184661	epsilon: 0.83236924000036391	steps: 201	lr: 0.0001	evaluation 1
episode: 1001	score: 0.0	memory length: 184785	epsilon: 0.83212372000036444	steps: 124	lr: 0.0001	evaluation 1
episode: 1002	score: 2.0	memory length: 185005	epsilon: 0.83168812000036539	steps: 220	lr: 0.0001	evaluation 1
episode: 1003	score: 1.0	memory length: 185176	epsilon: 0.83134954000036612	steps: 171	lr: 0.0001	evaluation 1
episode: 1004	score: 2.0	memory length: 185376	epsilon: 0.83095354000036698	steps: 200	lr: 0.0001	evaluation 1
episode: 1005	score: 1.0	memory length: 185527	epsilon: 0.83065456000036763	steps: 151	lr: 0.0001	evaluation 1
episode: 1006	score: 0.0	memory length: 185651	epsilon: 0.83040904000036817	steps: 124	lr: 0.0001	evaluation 1
episode: 1007	score: 0.0	memory length: 185775	epsilon: 0.8301635200003687	steps: 124	lr: 0.0001	evaluation 1
episode: 1008	score: 0.0	memory length: 185898	epsilon: 0.82991998000036923	steps: 123	lr: 0.0001	evaluation 1
episode: 1009	score: 0.0	memory length: 186021	epsilon: 0.82967644000036976	steps: 123	lr: 0.0001	evaluation 1
episode: 1010	score: 1.0	memory length: 186190	epsilon: 0.82934182000037048	steps: 169	lr: 0.0001	evaluation 1

episode: 1011	score: 2.0	memory length: 186371	epsilon: 0.8289834400037126	steps: 181	lr: 0.0001	evaluation 1
episode: 1012	score: 1.0	memory length: 186541	epsilon: 0.8286468400037199	steps: 170	lr: 0.0001	evaluation 1
episode: 1013	score: 2.0	memory length: 186761	epsilon: 0.8282112400037294	steps: 220	lr: 0.0001	evaluation 1
episode: 1014	score: 2.0	memory length: 186959	epsilon: 0.8278192000037379	steps: 198	lr: 0.0001	evaluation 1
episode: 1015	score: 4.0	memory length: 187256	epsilon: 0.8272311400037506	steps: 297	lr: 0.0001	evaluation 1
episode: 1016	score: 3.0	memory length: 187505	epsilon: 0.8267381200037613	steps: 249	lr: 0.0001	evaluation 1
episode: 1017	score: 1.0	memory length: 187658	epsilon: 0.8264351800037679	steps: 153	lr: 0.0001	evaluation 1
episode: 1018	score: 1.0	memory length: 187810	epsilon: 0.8261342200037745	steps: 152	lr: 0.0001	evaluation 1
episode: 1019	score: 2.0	memory length: 188009	epsilon: 0.825740200003783	steps: 199	lr: 0.0001	evaluation re
episode: 1020	score: 0.0	memory length: 188132	epsilon: 0.8254966600037883	steps: 123	lr: 0.0001	evaluation 1
episode: 1021	score: 1.0	memory length: 188283	epsilon: 0.8251976800037948	steps: 151	lr: 0.0001	evaluation 1
episode: 1022	score: 1.0	memory length: 188456	epsilon: 0.8248551400038022	steps: 173	lr: 0.0001	evaluation 1
episode: 1023	score: 2.0	memory length: 188678	epsilon: 0.8244155800038118	steps: 222	lr: 0.0001	evaluation 1
episode: 1024	score: 0.0	memory length: 188802	epsilon: 0.8241700600038171	steps: 124	lr: 0.0001	evaluation 1
episode: 1025	score: 2.0	memory length: 189001	epsilon: 0.8237760400038256	steps: 199	lr: 0.0001	evaluation 1
episode: 1026	score: 1.0	memory length: 189153	epsilon: 0.8234750800038322	steps: 152	lr: 0.0001	evaluation 1
episode: 1027	score: 3.0	memory length: 189399	epsilon: 0.8229880000038428	steps: 246	lr: 0.0001	evaluation 1
episode: 1028	score: 3.0	memory length: 189648	epsilon: 0.8224949800038535	steps: 249	lr: 0.0001	evaluation 1
episode: 1029	score: 1.0	memory length: 189818	epsilon: 0.8221583800038608	steps: 170	lr: 0.0001	evaluation 1
episode: 1030	score: 3.0	memory length: 190050	epsilon: 0.8216990200038707	steps: 232	lr: 0.0001	evaluation 1
episode: 1031	score: 1.0	memory length: 190222	epsilon: 0.8213584600038781	steps: 172	lr: 0.0001	evaluation 1
episode: 1032	score: 3.0	memory length: 190451	epsilon: 0.820905040003888	steps: 229	lr: 0.0001	evaluation re
episode: 1033	score: 0.0	memory length: 190575	epsilon: 0.8206595200038933	steps: 124	lr: 0.0001	evaluation 1
episode: 1034	score: 2.0	memory length: 190793	epsilon: 0.8202278800039027	steps: 218	lr: 0.0001	evaluation 1
episode: 1035	score: 1.0	memory length: 190944	epsilon: 0.8199289000039092	steps: 151	lr: 0.0001	evaluation 1
episode: 1036	score: 1.0	memory length: 191115	epsilon: 0.8195903200039165	steps: 171	lr: 0.0001	evaluation 1
episode: 1037	score: 0.0	memory length: 191239	epsilon: 0.8193448000039218	steps: 124	lr: 0.0001	evaluation 1
episode: 1038	score: 3.0	memory length: 191468	epsilon: 0.8188913800039317	steps: 229	lr: 0.0001	evaluation 1
episode: 1039	score: 6.0	memory length: 191834	epsilon: 0.8181667000039474	steps: 366	lr: 0.0001	evaluation 1
episode: 1040	score: 3.0	memory length: 192085	epsilon: 0.8176697200039582	steps: 251	lr: 0.0001	evaluation 1
episode: 1041	score: 0.0	memory length: 192209	epsilon: 0.8174242000039635	steps: 124	lr: 0.0001	evaluation 1
episode: 1042	score: 2.0	memory length: 192408	epsilon: 0.8170301800039721	steps: 199	lr: 0.0001	evaluation 1
episode: 1043	score: 0.0	memory length: 192531	epsilon: 0.8167866400039774	steps: 123	lr: 0.0001	evaluation 1
episode: 1044	score: 0.0	memory length: 192655	epsilon: 0.8165411200039827	steps: 124	lr: 0.0001	evaluation 1
episode: 1045	score: 0.0	memory length: 192778	epsilon: 0.816297580003988	steps: 123	lr: 0.0001	evaluation re
episode: 1046	score: 0.0	memory length: 192901	epsilon: 0.8160540400039933	steps: 123	lr: 0.0001	evaluation 1
episode: 1047	score: 2.0	memory length: 193102	epsilon: 0.8156560600040019	steps: 201	lr: 0.0001	evaluation 1
episode: 1048	score: 1.0	memory length: 193271	epsilon: 0.8153214400040092	steps: 169	lr: 0.0001	evaluation 1
episode: 1049	score: 0.0	memory length: 193395	epsilon: 0.8150759200040145	steps: 124	lr: 0.0001	evaluation 1
episode: 1050	score: 2.0	memory length: 193615	epsilon: 0.814640320004024	steps: 220	lr: 0.0001	evaluation re
episode: 1051	score: 0.0	memory length: 193739	epsilon: 0.8143948000040293	steps: 124	lr: 0.0001	evaluation 1
episode: 1052	score: 1.0	memory length: 193891	epsilon: 0.8140938400040358	steps: 152	lr: 0.0001	evaluation 1
episode: 1053	score: 5.0	memory length: 194257	epsilon: 0.8133691600040516	steps: 366	lr: 0.0001	evaluation 1
episode: 1054	score: 1.0	memory length: 194409	epsilon: 0.8130682000040581	steps: 152	lr: 0.0001	evaluation 1
episode: 1055	score: 1.0	memory length: 194579	epsilon: 0.8127316000040654	steps: 170	lr: 0.0001	evaluation 1
episode: 1056	score: 2.0	memory length: 194780	epsilon: 0.812333620004074	steps: 201	lr: 0.0001	evaluation re
episode: 1057	score: 2.0	memory length: 194979	epsilon: 0.8119396000040826	steps: 199	lr: 0.0001	evaluation 1
episode: 1058	score: 3.0	memory length: 195205	epsilon: 0.8114921200040923	steps: 226	lr: 0.0001	evaluation 1
episode: 1059	score: 1.0	memory length: 195357	epsilon: 0.8111911600040989	steps: 152	lr: 0.0001	evaluation 1
episode: 1060	score: 2.0	memory length: 195556	epsilon: 0.8107971400041074	steps: 199	lr: 0.0001	evaluation 1
episode: 1061	score: 0.0	memory length: 195680	epsilon: 0.8105516200041127	steps: 124	lr: 0.0001	evaluation 1
episode: 1062	score: 0.0	memory length: 195804	epsilon: 0.8103061000041181	steps: 124	lr: 0.0001	evaluation 1
episode: 1063	score: 1.0	memory length: 195975	epsilon: 0.8099675200041254	steps: 171	lr: 0.0001	evaluation 1
episode: 1064	score: 1.0	memory length: 196145	epsilon: 0.8096309200041327	steps: 170	lr: 0.0001	evaluation 1
episode: 1065	score: 4.0	memory length: 196445	epsilon: 0.8090369200041456	steps: 300	lr: 0.0001	evaluation 1
episode: 1066	score: 1.0	memory length: 196615	epsilon: 0.8087003200041529	steps: 170	lr: 0.0001	evaluation 1
episode: 1067	score: 0.0	memory length: 196739	epsilon: 0.8084548000041583	steps: 124	lr: 0.0001	evaluation 1
episode: 1068	score: 1.0	memory length: 196892	epsilon: 0.8081518600041648	steps: 153	lr: 0.0001	evaluation 1
episode: 1069	score: 0.0	memory length: 197016	epsilon: 0.8079063400041702	steps: 124	lr: 0.0001	evaluation 1
episode: 1070	score: 1.0	memory length: 197169	epsilon: 0.8076034000041767	steps: 153	lr: 0.0001	evaluation 1
episode: 1071	score: 1.0	memory length: 197341	epsilon: 0.8072628400041841	steps: 172	lr: 0.0001	evaluation 1
episode: 1072	score: 1.0	memory length: 197494	epsilon: 0.8069599000041907	steps: 153	lr: 0.0001	evaluation 1
episode: 1073	score: 2.0	memory length: 197694	epsilon: 0.8065639000041993	steps: 200	lr: 0.0001	evaluation 1
episode: 1074	score: 1.0	memory length: 197864	epsilon: 0.8062273000042066	steps: 170	lr: 0.0001	evaluation 1
episode: 1075	score: 0.0	memory length: 197988	epsilon: 0.805981780004212	steps: 124	lr: 0.0001	evaluation re
episode: 1076	score: 0.0	memory length: 198112	epsilon: 0.8057362600042173	steps: 124	lr: 0.0001	evaluation 1
episode: 1077	score: 0.0	memory length: 198236	epsilon: 0.8054907400042226	steps: 124	lr: 0.0001	evaluation 1
episode: 1078	score: 2.0	memory length: 198455	epsilon: 0.805057120004232	steps: 219	lr: 0.0001	evaluation re
episode: 1079	score: 0.0	memory length: 198579	epsilon: 0.8048116000042373	steps: 124	lr: 0.0001	evaluation 1
episode: 1080	score: 0.0	memory length: 198703	epsilon: 0.8045660800042427	steps: 124	lr: 0.0001	evaluation 1
episode: 1081	score: 2.0	memory length: 198902	epsilon: 0.8041720600042512	steps: 199	lr: 0.0001	evaluation 1
episode: 1082	score: 1.0	memory length: 199073	epsilon: 0.8038334800042586	steps: 171	lr: 0.0001	evaluation 1
episode: 1083	score: 7.0	memory length: 199478	epsilon: 0.803031580004276	steps: 405	lr: 0.0001	evaluation re
episode: 1084	score: 2.0	memory length: 199678	epsilon: 0.8026355800042846	steps: 200	lr: 0.0001	evaluation 1
episode: 1085	score: 3.0	memory length: 199907	epsilon: 0.8021821600042944	steps: 229	lr: 0.0001	evaluation 1
episode: 1086	score: 2.0	memory length: 200128	epsilon: 0.8017445800043039	steps: 221	lr: 4e-05	evaluation re
episode: 1087	score: 0.0	memory length: 200252	epsilon: 0.8014990600043093	steps: 124	lr: 4e-05	evaluation re
episode: 1088	score: 1.0	memory length: 200424	epsilon: 0.8011585000043167	steps: 172	lr: 4e-05	evaluation re
episode: 1089	score: 1.0	memory length: 200595	epsilon: 0.800819920004324	steps: 171	lr: 4e-05	evaluation rev
episode: 1090	score: 3.0	memory length: 200825	epsilon: 0.8003645200043339	steps: 230	lr: 4e-05	evaluation re
episode: 1091	score: 0.0	memory length: 200948	epsilon: 0.8001209800043392	steps: 123	lr: 4e-05	evaluation re
episode: 1092	score: 3.0	memory length: 201175	epsilon: 0.7996715200043489	steps: 227	lr: 4e-05	evaluation re
episode: 1093	score: 3.0	memory length: 201421	epsilon: 0.7991844400043595	steps: 246	lr: 4e-05	evaluation re
episode: 1094	score: 1.0	memory length: 201593	epsilon: 0.7988438800043669	steps: 172	lr: 4e-05	evaluation re
episode: 1095	score: 3.0	memory length: 201821	epsilon: 0.7983924400043767	steps: 228	lr: 4e-05	evaluation re

episode: 1096	score: 0.0	memory length: 201945	epsilon: 0.798146920004382	steps: 124	lr: 4e-05	evaluation rev
episode: 1097	score: 0.0	memory length: 202069	epsilon: 0.7979014000043874	steps: 124	lr: 4e-05	evaluation re
episode: 1098	score: 0.0	memory length: 202192	epsilon: 0.7976578600043926	steps: 123	lr: 4e-05	evaluation re
episode: 1099	score: 1.0	memory length: 202362	epsilon: 0.7973212600044	steps: 170	lr: 4e-05	evaluation rewai
episode: 1100	score: 5.0	memory length: 202651	epsilon: 0.7967490400044124	steps: 289	lr: 4e-05	evaluation re
episode: 1101	score: 2.0	memory length: 202850	epsilon: 0.7963550200044209	steps: 199	lr: 4e-05	evaluation re
episode: 1102	score: 0.0	memory length: 202974	epsilon: 0.7961095000044263	steps: 124	lr: 4e-05	evaluation re
episode: 1103	score: 2.0	memory length: 203173	epsilon: 0.7957154800044348	steps: 199	lr: 4e-05	evaluation re
episode: 1104	score: 4.0	memory length: 203470	epsilon: 0.7951274200044476	steps: 297	lr: 4e-05	evaluation re
episode: 1105	score: 2.0	memory length: 203651	epsilon: 0.7947690400044554	steps: 181	lr: 4e-05	evaluation re
episode: 1106	score: 0.0	memory length: 203774	epsilon: 0.7945255000044606	steps: 123	lr: 4e-05	evaluation re
episode: 1107	score: 2.0	memory length: 203973	epsilon: 0.7941314800044692	steps: 199	lr: 4e-05	evaluation re
episode: 1108	score: 3.0	memory length: 204202	epsilon: 0.793678060004479	steps: 229	lr: 4e-05	evaluation rev
episode: 1109	score: 2.0	memory length: 204401	epsilon: 0.7932840400044876	steps: 199	lr: 4e-05	evaluation re
episode: 1110	score: 3.0	memory length: 204627	epsilon: 0.7928365600044973	steps: 226	lr: 4e-05	evaluation re
episode: 1111	score: 0.0	memory length: 204750	epsilon: 0.7925930200045026	steps: 123	lr: 4e-05	evaluation re
episode: 1112	score: 2.0	memory length: 204968	epsilon: 0.792161380004512	steps: 218	lr: 4e-05	evaluation rev
episode: 1113	score: 6.0	memory length: 205339	epsilon: 0.7914268000045279	steps: 371	lr: 4e-05	evaluation re
episode: 1114	score: 1.0	memory length: 205490	epsilon: 0.7911278200045344	steps: 151	lr: 4e-05	evaluation re
episode: 1115	score: 1.0	memory length: 205660	epsilon: 0.7907912200045417	steps: 170	lr: 4e-05	evaluation re
episode: 1116	score: 7.0	memory length: 206048	epsilon: 0.7900229800045584	steps: 388	lr: 4e-05	evaluation re
episode: 1117	score: 1.0	memory length: 206199	epsilon: 0.7897240000045649	steps: 151	lr: 4e-05	evaluation re
episode: 1118	score: 0.0	memory length: 206323	epsilon: 0.7894784800045702	steps: 124	lr: 4e-05	evaluation re
episode: 1119	score: 0.0	memory length: 206447	epsilon: 0.7892329600045755	steps: 124	lr: 4e-05	evaluation re
episode: 1120	score: 4.0	memory length: 206724	epsilon: 0.7886845000045875	steps: 277	lr: 4e-05	evaluation re
episode: 1121	score: 1.0	memory length: 206894	epsilon: 0.7883479000045948	steps: 170	lr: 4e-05	evaluation re
episode: 1122	score: 2.0	memory length: 207092	epsilon: 0.7879558600046033	steps: 198	lr: 4e-05	evaluation re
episode: 1123	score: 1.0	memory length: 207265	epsilon: 0.7876133200046107	steps: 173	lr: 4e-05	evaluation re
episode: 1124	score: 1.0	memory length: 207435	epsilon: 0.787276720004618	steps: 170	lr: 4e-05	evaluation rev
episode: 1125	score: 2.0	memory length: 207634	epsilon: 0.7868827000046266	steps: 199	lr: 4e-05	evaluation re
episode: 1126	score: 1.0	memory length: 207804	epsilon: 0.7865461000046339	steps: 170	lr: 4e-05	evaluation re
episode: 1127	score: 2.0	memory length: 208003	epsilon: 0.7861520800046424	steps: 199	lr: 4e-05	evaluation re
episode: 1128	score: 2.0	memory length: 208222	epsilon: 0.7857184600046518	steps: 219	lr: 4e-05	evaluation re
episode: 1129	score: 0.0	memory length: 208346	epsilon: 0.7854729400046572	steps: 124	lr: 4e-05	evaluation re
episode: 1130	score: 0.0	memory length: 208469	epsilon: 0.7852294000046625	steps: 123	lr: 4e-05	evaluation re
episode: 1131	score: 2.0	memory length: 208689	epsilon: 0.7847938000046719	steps: 220	lr: 4e-05	evaluation re
episode: 1132	score: 4.0	memory length: 208988	epsilon: 0.7842017800046848	steps: 299	lr: 4e-05	evaluation re
episode: 1133	score: 0.0	memory length: 209112	epsilon: 0.7839562600046901	steps: 124	lr: 4e-05	evaluation re
episode: 1134	score: 0.0	memory length: 209236	epsilon: 0.7837107400046954	steps: 124	lr: 4e-05	evaluation re
episode: 1135	score: 2.0	memory length: 209434	epsilon: 0.7833187000047039	steps: 198	lr: 4e-05	evaluation re
episode: 1136	score: 1.0	memory length: 209604	epsilon: 0.7829821000047112	steps: 170	lr: 4e-05	evaluation re
episode: 1137	score: 2.0	memory length: 209823	epsilon: 0.7825484800047207	steps: 219	lr: 4e-05	evaluation re
episode: 1138	score: 4.0	memory length: 210099	epsilon: 0.7820020000047325	steps: 276	lr: 4e-05	evaluation re
episode: 1139	score: 3.0	memory length: 210344	epsilon: 0.781516900004743	steps: 245	lr: 4e-05	evaluation rev
episode: 1140	score: 0.0	memory length: 210468	epsilon: 0.7812713800047484	steps: 124	lr: 4e-05	evaluation re
episode: 1141	score: 2.0	memory length: 210668	epsilon: 0.780875380004757	steps: 200	lr: 4e-05	evaluation rev
episode: 1142	score: 0.0	memory length: 210792	epsilon: 0.7806298600047623	steps: 124	lr: 4e-05	evaluation re
episode: 1143	score: 0.0	memory length: 210916	epsilon: 0.7803843400047676	steps: 124	lr: 4e-05	evaluation re
episode: 1144	score: 0.0	memory length: 211040	epsilon: 0.780138820004773	steps: 124	lr: 4e-05	evaluation rev
episode: 1145	score: 0.0	memory length: 211163	epsilon: 0.7798952800047783	steps: 123	lr: 4e-05	evaluation re
episode: 1146	score: 1.0	memory length: 211334	epsilon: 0.7795567000047856	steps: 171	lr: 4e-05	evaluation re
episode: 1147	score: 0.0	memory length: 211457	epsilon: 0.7793131600047909	steps: 123	lr: 4e-05	evaluation re
episode: 1148	score: 2.0	memory length: 211656	epsilon: 0.7789191400047994	steps: 199	lr: 4e-05	evaluation re
episode: 1149	score: 1.0	memory length: 211827	epsilon: 0.7785805600048068	steps: 171	lr: 4e-05	evaluation re
episode: 1150	score: 2.0	memory length: 212025	epsilon: 0.7781885200048153	steps: 198	lr: 4e-05	evaluation re
episode: 1151	score: 3.0	memory length: 212274	epsilon: 0.777695500004826	steps: 249	lr: 4e-05	evaluation rev
episode: 1152	score: 2.0	memory length: 212473	epsilon: 0.7773014800048346	steps: 199	lr: 4e-05	evaluation re
episode: 1153	score: 4.0	memory length: 212762	epsilon: 0.776729260004847	steps: 289	lr: 4e-05	evaluation rev
episode: 1154	score: 2.0	memory length: 212960	epsilon: 0.7763372200048555	steps: 198	lr: 4e-05	evaluation re
episode: 1155	score: 2.0	memory length: 213182	epsilon: 0.775897660004865	steps: 222	lr: 4e-05	evaluation rev
episode: 1156	score: 3.0	memory length: 213447	epsilon: 0.7753729600048764	steps: 265	lr: 4e-05	evaluation re
episode: 1157	score: 1.0	memory length: 213598	epsilon: 0.7750739800048829	steps: 151	lr: 4e-05	evaluation re
episode: 1158	score: 0.0	memory length: 213721	epsilon: 0.7748304400048882	steps: 123	lr: 4e-05	evaluation re
episode: 1159	score: 2.0	memory length: 213940	epsilon: 0.7743968200048976	steps: 219	lr: 4e-05	evaluation re
episode: 1160	score: 2.0	memory length: 214139	epsilon: 0.7740028000049062	steps: 199	lr: 4e-05	evaluation re
episode: 1161	score: 0.0	memory length: 214263	epsilon: 0.7737572800049115	steps: 124	lr: 4e-05	evaluation re
episode: 1162	score: 2.0	memory length: 214462	epsilon: 0.7733632600049201	steps: 199	lr: 4e-05	evaluation re
episode: 1163	score: 1.0	memory length: 214614	epsilon: 0.7730623000049266	steps: 152	lr: 4e-05	evaluation re
episode: 1164	score: 0.0	memory length: 214737	epsilon: 0.7728187600049319	steps: 123	lr: 4e-05	evaluation re
episode: 1165	score: 2.0	memory length: 214956	epsilon: 0.7723851400049413	steps: 219	lr: 4e-05	evaluation re
episode: 1166	score: 4.0	memory length: 215254	epsilon: 0.7717951000049541	steps: 298	lr: 4e-05	evaluation re
episode: 1167	score: 4.0	memory length: 215530	epsilon: 0.771248620004966	steps: 276	lr: 4e-05	evaluation rev
episode: 1168	score: 3.0	memory length: 215778	epsilon: 0.7707575800049766	steps: 248	lr: 4e-05	evaluation re
episode: 1169	score: 1.0	memory length: 215948	epsilon: 0.7704209800049839	steps: 170	lr: 4e-05	evaluation re
episode: 1170	score: 2.0	memory length: 216147	epsilon: 0.7700269600049925	steps: 199	lr: 4e-05	evaluation re
episode: 1171	score: 4.0	memory length: 216421	epsilon: 0.7694844400050043	steps: 274	lr: 4e-05	evaluation re
episode: 1172	score: 0.0	memory length: 216545	epsilon: 0.7692389200050096	steps: 124	lr: 4e-05	evaluation re
episode: 1173	score: 2.0	memory length: 216764	epsilon: 0.768805300005019	steps: 219	lr: 4e-05	evaluation rev
episode: 1174	score: 2.0	memory length: 216983	epsilon: 0.7683716800050284	steps: 219	lr: 4e-05	evaluation re
episode: 1175	score: 3.0	memory length: 217210	epsilon: 0.7679222200050382	steps: 227	lr: 4e-05	evaluation re
episode: 1176	score: 2.0	memory length: 217408	epsilon: 0.7675301800050467	steps: 198	lr: 4e-05	evaluation re
episode: 1177	score: 0.0	memory length: 217532	epsilon: 0.767284660005052	steps: 124	lr: 4e-05	evaluation rev
episode: 1178	score: 3.0	memory length: 217800	epsilon: 0.7667540200050635	steps: 268	lr: 4e-05	evaluation re
episode: 1179	score: 1.0	memory length: 217970	epsilon: 0.7664174200050708	steps: 170	lr: 4e-05	evaluation re
episode: 1180	score: 0.0	memory length: 218094	epsilon: 0.7661719000050762	steps: 124	lr: 4e-05	evaluation re

episode: 1181	score: 4.0	memory length: 218372	epsilon: 0.7656214600050881	steps: 278	lr: 4e-05	evaluation re
episode: 1182	score: 0.0	memory length: 218495	epsilon: 0.7653779200050934	steps: 123	lr: 4e-05	evaluation re
episode: 1183	score: 0.0	memory length: 218619	epsilon: 0.7651324000050987	steps: 124	lr: 4e-05	evaluation re
episode: 1184	score: 1.0	memory length: 218770	epsilon: 0.7648334200051052	steps: 151	lr: 4e-05	evaluation re
episode: 1185	score: 3.0	memory length: 219002	epsilon: 0.7643740600051152	steps: 232	lr: 4e-05	evaluation re
episode: 1186	score: 4.0	memory length: 219319	epsilon: 0.7637464000051288	steps: 317	lr: 4e-05	evaluation re
episode: 1187	score: 2.0	memory length: 219518	epsilon: 0.7633523800051374	steps: 199	lr: 4e-05	evaluation re
episode: 1188	score: 1.0	memory length: 219670	epsilon: 0.7630514200051439	steps: 152	lr: 4e-05	evaluation re
episode: 1189	score: 0.0	memory length: 219794	epsilon: 0.7628059000051493	steps: 124	lr: 4e-05	evaluation re
episode: 1190	score: 1.0	memory length: 219946	epsilon: 0.7625049400051558	steps: 152	lr: 4e-05	evaluation re
episode: 1191	score: 1.0	memory length: 220116	epsilon: 0.7621683400051631	steps: 170	lr: 4e-05	evaluation re
episode: 1192	score: 0.0	memory length: 220239	epsilon: 0.7619248000051684	steps: 123	lr: 4e-05	evaluation re
episode: 1193	score: 1.0	memory length: 220412	epsilon: 0.7615822600051758	steps: 173	lr: 4e-05	evaluation re
episode: 1194	score: 0.0	memory length: 220536	epsilon: 0.7613367400051811	steps: 124	lr: 4e-05	evaluation re
episode: 1195	score: 1.0	memory length: 220706	epsilon: 0.7610001400051885	steps: 170	lr: 4e-05	evaluation re
episode: 1196	score: 1.0	memory length: 220876	epsilon: 0.7606635400051958	steps: 170	lr: 4e-05	evaluation re
episode: 1197	score: 0.0	memory length: 221000	epsilon: 0.7604180200052011	steps: 124	lr: 4e-05	evaluation re
episode: 1198	score: 4.0	memory length: 221278	epsilon: 0.759867580005213	steps: 278	lr: 4e-05	evaluation rev
episode: 1199	score: 0.0	memory length: 221402	epsilon: 0.7596220600052184	steps: 124	lr: 4e-05	evaluation re
episode: 1200	score: 0.0	memory length: 221526	epsilon: 0.7593765400052237	steps: 124	lr: 4e-05	evaluation re
episode: 1201	score: 1.0	memory length: 221678	epsilon: 0.7590755800052302	steps: 152	lr: 4e-05	evaluation re
episode: 1202	score: 0.0	memory length: 221801	epsilon: 0.7588320400052355	steps: 123	lr: 4e-05	evaluation re
episode: 1203	score: 2.0	memory length: 222000	epsilon: 0.7584380200052441	steps: 199	lr: 4e-05	evaluation re
episode: 1204	score: 2.0	memory length: 222200	epsilon: 0.7580420200052527	steps: 200	lr: 4e-05	evaluation re
episode: 1205	score: 0.0	memory length: 222324	epsilon: 0.757796500005258	steps: 124	lr: 4e-05	evaluation rev
episode: 1206	score: 2.0	memory length: 222543	epsilon: 0.7573628800052674	steps: 219	lr: 4e-05	evaluation re
episode: 1207	score: 2.0	memory length: 222741	epsilon: 0.7569708400052759	steps: 198	lr: 4e-05	evaluation re
episode: 1208	score: 0.0	memory length: 222865	epsilon: 0.7567253200052813	steps: 124	lr: 4e-05	evaluation re
episode: 1209	score: 2.0	memory length: 223064	epsilon: 0.7563313000052898	steps: 199	lr: 4e-05	evaluation re
episode: 1210	score: 3.0	memory length: 223291	epsilon: 0.7558818400052996	steps: 227	lr: 4e-05	evaluation re
episode: 1211	score: 0.0	memory length: 223415	epsilon: 0.7556363200053049	steps: 124	lr: 4e-05	evaluation re
episode: 1212	score: 0.0	memory length: 223539	epsilon: 0.7553908000053102	steps: 124	lr: 4e-05	evaluation re
episode: 1213	score: 3.0	memory length: 223811	epsilon: 0.7548522400053219	steps: 272	lr: 4e-05	evaluation re
episode: 1214	score: 1.0	memory length: 223981	epsilon: 0.7545156400053292	steps: 170	lr: 4e-05	evaluation re
episode: 1215	score: 0.0	memory length: 224104	epsilon: 0.7542721000053345	steps: 123	lr: 4e-05	evaluation re
episode: 1216	score: 0.0	memory length: 224228	epsilon: 0.7540265800053398	steps: 124	lr: 4e-05	evaluation re
episode: 1217	score: 2.0	memory length: 224427	epsilon: 0.7536325600053484	steps: 199	lr: 4e-05	evaluation re
episode: 1218	score: 2.0	memory length: 224626	epsilon: 0.753238540005357	steps: 199	lr: 4e-05	evaluation rev
episode: 1219	score: 3.0	memory length: 224893	epsilon: 0.7527098800053684	steps: 267	lr: 4e-05	evaluation re
episode: 1220	score: 0.0	memory length: 225017	epsilon: 0.7524643600053738	steps: 124	lr: 4e-05	evaluation re
episode: 1221	score: 2.0	memory length: 225238	epsilon: 0.75202467800053833	steps: 221	lr: 4e-05	evaluation re
episode: 1222	score: 1.0	memory length: 225389	epsilon: 0.7517278000053897	steps: 151	lr: 4e-05	evaluation re
episode: 1223	score: 2.0	memory length: 225588	epsilon: 0.7513337800053983	steps: 199	lr: 4e-05	evaluation re
episode: 1224	score: 0.0	memory length: 225712	epsilon: 0.7510882600054036	steps: 124	lr: 4e-05	evaluation re
episode: 1225	score: 0.0	memory length: 225836	epsilon: 0.750842740005409	steps: 124	lr: 4e-05	evaluation rev
episode: 1226	score: 0.0	memory length: 225960	epsilon: 0.7505972200054143	steps: 124	lr: 4e-05	evaluation re
episode: 1227	score: 0.0	memory length: 226084	epsilon: 0.7503517000054196	steps: 124	lr: 4e-05	evaluation re
episode: 1228	score: 4.0	memory length: 226378	epsilon: 0.7497695800054323	steps: 294	lr: 4e-05	evaluation re
episode: 1229	score: 2.0	memory length: 226576	epsilon: 0.7493775400054408	steps: 198	lr: 4e-05	evaluation re
episode: 1230	score: 0.0	memory length: 226699	epsilon: 0.749134000005446	steps: 123	lr: 4e-05	evaluation rev
episode: 1231	score: 2.0	memory length: 226900	epsilon: 0.7487360200054547	steps: 201	lr: 4e-05	evaluation re
episode: 1232	score: 2.0	memory length: 227099	epsilon: 0.7483420000054632	steps: 199	lr: 4e-05	evaluation re
episode: 1233	score: 1.0	memory length: 227251	epsilon: 0.7480410400054698	steps: 152	lr: 4e-05	evaluation re
episode: 1234	score: 1.0	memory length: 227421	epsilon: 0.7477044400054771	steps: 170	lr: 4e-05	evaluation re
episode: 1235	score: 4.0	memory length: 227681	epsilon: 0.7471896400054883	steps: 260	lr: 4e-05	evaluation re
episode: 1236	score: 3.0	memory length: 227908	epsilon: 0.746740180005498	steps: 227	lr: 4e-05	evaluation rev
episode: 1237	score: 1.0	memory length: 228079	epsilon: 0.7464016000055054	steps: 171	lr: 4e-05	evaluation re
episode: 1238	score: 2.0	memory length: 228295	epsilon: 0.7459739200055147	steps: 216	lr: 4e-05	evaluation re
episode: 1239	score: 3.0	memory length: 228524	epsilon: 0.7455205000055245	steps: 229	lr: 4e-05	evaluation re
episode: 1240	score: 3.0	memory length: 228773	epsilon: 0.7450274800055352	steps: 249	lr: 4e-05	evaluation re
episode: 1241	score: 0.0	memory length: 228897	epsilon: 0.7447819600055405	steps: 124	lr: 4e-05	evaluation re
episode: 1242	score: 3.0	memory length: 229145	epsilon: 0.7442909200055512	steps: 248	lr: 4e-05	evaluation re
episode: 1243	score: 0.0	memory length: 229269	epsilon: 0.7440454000055565	steps: 124	lr: 4e-05	evaluation re
episode: 1244	score: 1.0	memory length: 229439	epsilon: 0.7437088000055638	steps: 170	lr: 4e-05	evaluation re
episode: 1245	score: 2.0	memory length: 229661	epsilon: 0.7432692400055734	steps: 222	lr: 4e-05	evaluation re
episode: 1246	score: 4.0	memory length: 229957	epsilon: 0.7426831600055861	steps: 296	lr: 4e-05	evaluation re
episode: 1247	score: 2.0	memory length: 230156	epsilon: 0.7422891400055946	steps: 199	lr: 4e-05	evaluation re
episode: 1248	score: 3.0	memory length: 230403	epsilon: 0.7418000800056053	steps: 247	lr: 4e-05	evaluation re
episode: 1249	score: 3.0	memory length: 230629	epsilon: 0.741352600005615	steps: 226	lr: 4e-05	evaluation rev
episode: 1250	score: 1.0	memory length: 230781	epsilon: 0.7410516400056215	steps: 152	lr: 4e-05	evaluation re
episode: 1251	score: 0.0	memory length: 230905	epsilon: 0.7408061200056268	steps: 124	lr: 4e-05	evaluation re
episode: 1252	score: 0.0	memory length: 231029	epsilon: 0.7405606000056322	steps: 124	lr: 4e-05	evaluation re
episode: 1253	score: 3.0	memory length: 231276	epsilon: 0.7400715400056428	steps: 247	lr: 4e-05	evaluation re
episode: 1254	score: 3.0	memory length: 231524	epsilon: 0.7395805000056535	steps: 248	lr: 4e-05	evaluation re
episode: 1255	score: 0.0	memory length: 231648	epsilon: 0.7393349800056588	steps: 124	lr: 4e-05	evaluation re
episode: 1256	score: 2.0	memory length: 231847	epsilon: 0.7389409600056673	steps: 199	lr: 4e-05	evaluation re
episode: 1257	score: 2.0	memory length: 232045	epsilon: 0.7385489200056758	steps: 198	lr: 4e-05	evaluation re
episode: 1258	score: 4.0	memory length: 232360	epsilon: 0.7379252200056894	steps: 315	lr: 4e-05	evaluation re
episode: 1259	score: 2.0	memory length: 232578	epsilon: 0.7374935800056988	steps: 218	lr: 4e-05	evaluation re
episode: 1260	score: 0.0	memory length: 232701	epsilon: 0.737250040005704	steps: 123	lr: 4e-05	evaluation rev
episode: 1261	score: 2.0	memory length: 232900	epsilon: 0.7368560200057126	steps: 199	lr: 4e-05	evaluation re
episode: 1262	score: 1.0	memory length: 233070	epsilon: 0.7365194200057199	steps: 170	lr: 4e-05	evaluation re
episode: 1263	score: 1.0	memory length: 233241	epsilon: 0.7361808400057273	steps: 171	lr: 4e-05	evaluation re
episode: 1264	score: 2.0	memory length: 233440	epsilon: 0.7357868200057358	steps: 199	lr: 4e-05	evaluation re
episode: 1265	score: 4.0	memory length: 233718	epsilon: 0.7352363800057478	steps: 278	lr: 4e-05	evaluation re

episode:	score:	memory	length:	epsilon:	steps:	lr:	evaluation
episode: 1265	score: 4.0	memory	length: 233710	epsilon: 0.7332030000057470	steps: 270	lr: 4e-05	evaluation re
episode: 1266	score: 2.0	memory	length: 233937	epsilon: 0.7348027600057572	steps: 219	lr: 4e-05	evaluation re
episode: 1267	score: 4.0	memory	length: 234258	epsilon: 0.734167180005771	steps: 321	lr: 4e-05	evaluation rev
episode: 1268	score: 0.0	memory	length: 234382	epsilon: 0.7339216600057763	steps: 124	lr: 4e-05	evaluation re
episode: 1269	score: 2.0	memory	length: 234601	epsilon: 0.7334880400057857	steps: 219	lr: 4e-05	evaluation re
episode: 1270	score: 2.0	memory	length: 234800	epsilon: 0.7330940200057943	steps: 199	lr: 4e-05	evaluation re
episode: 1271	score: 2.0	memory	length: 234999	epsilon: 0.7327000000058028	steps: 199	lr: 4e-05	evaluation re
episode: 1272	score: 1.0	memory	length: 235151	epsilon: 0.7323990400058094	steps: 152	lr: 4e-05	evaluation re
episode: 1273	score: 0.0	memory	length: 235275	epsilon: 0.7321535200058147	steps: 124	lr: 4e-05	evaluation re
episode: 1274	score: 3.0	memory	length: 235521	epsilon: 0.7316664400058253	steps: 246	lr: 4e-05	evaluation re
episode: 1275	score: 3.0	memory	length: 235767	epsilon: 0.7311793600058358	steps: 246	lr: 4e-05	evaluation re
episode: 1276	score: 1.0	memory	length: 235940	epsilon: 0.7308368200058433	steps: 173	lr: 4e-05	evaluation re
episode: 1277	score: 0.0	memory	length: 236063	epsilon: 0.7305932800058486	steps: 123	lr: 4e-05	evaluation re
episode: 1278	score: 2.0	memory	length: 236261	epsilon: 0.7302012400058571	steps: 198	lr: 4e-05	evaluation re
episode: 1279	score: 4.0	memory	length: 236553	epsilon: 0.7296230800058696	steps: 292	lr: 4e-05	evaluation re
episode: 1280	score: 3.0	memory	length: 236819	epsilon: 0.729096400005881	steps: 266	lr: 4e-05	evaluation rev
episode: 1281	score: 1.0	memory	length: 236971	epsilon: 0.7287954400058876	steps: 152	lr: 4e-05	evaluation re
episode: 1282	score: 2.0	memory	length: 237169	epsilon: 0.7284034000058961	steps: 198	lr: 4e-05	evaluation re
episode: 1283	score: 3.0	memory	length: 237437	epsilon: 0.7278727600059076	steps: 268	lr: 4e-05	evaluation re
episode: 1284	score: 4.0	memory	length: 237735	epsilon: 0.7272827200059204	steps: 298	lr: 4e-05	evaluation re
episode: 1285	score: 2.0	memory	length: 237934	epsilon: 0.726888700005929	steps: 199	lr: 4e-05	evaluation rev
episode: 1286	score: 0.0	memory	length: 238058	epsilon: 0.7266431800059343	steps: 124	lr: 4e-05	evaluation re
episode: 1287	score: 2.0	memory	length: 238277	epsilon: 0.7262095600059437	steps: 219	lr: 4e-05	evaluation re
episode: 1288	score: 2.0	memory	length: 238496	epsilon: 0.7257759400059531	steps: 219	lr: 4e-05	evaluation re
episode: 1289	score: 4.0	memory	length: 238772	epsilon: 0.72522960005965	steps: 276	lr: 4e-05	evaluation rev
episode: 1290	score: 2.0	memory	length: 238991	epsilon: 0.7247958400059744	steps: 219	lr: 4e-05	evaluation re
episode: 1291	score: 0.0	memory	length: 239115	epsilon: 0.7245503200059797	steps: 124	lr: 4e-05	evaluation re
episode: 1292	score: 3.0	memory	length: 239342	epsilon: 0.7241008600059895	steps: 227	lr: 4e-05	evaluation re
episode: 1293	score: 2.0	memory	length: 239541	epsilon: 0.723706840005998	steps: 199	lr: 4e-05	evaluation rev
episode: 1294	score: 2.0	memory	length: 239740	epsilon: 0.7233128200060066	steps: 199	lr: 4e-05	evaluation re
episode: 1295	score: 3.0	memory	length: 239966	epsilon: 0.7228653400060163	steps: 226	lr: 4e-05	evaluation re
episode: 1296	score: 2.0	memory	length: 240186	epsilon: 0.7224297400060258	steps: 220	lr: 4e-05	evaluation re
episode: 1297	score: 2.0	memory	length: 240371	epsilon: 0.7220634400060337	steps: 185	lr: 4e-05	evaluation re
episode: 1298	score: 3.0	memory	length: 240638	epsilon: 0.7215347800060452	steps: 267	lr: 4e-05	evaluation re
episode: 1299	score: 3.0	memory	length: 240883	epsilon: 0.7210496800060557	steps: 245	lr: 4e-05	evaluation re
episode: 1300	score: 2.0	memory	length: 241081	epsilon: 0.7206576400060642	steps: 198	lr: 4e-05	evaluation re
episode: 1301	score: 0.0	memory	length: 241205	epsilon: 0.7204121200060696	steps: 124	lr: 4e-05	evaluation re
episode: 1302	score: 5.0	memory	length: 241531	epsilon: 0.7197666400060836	steps: 326	lr: 4e-05	evaluation re
episode: 1303	score: 5.0	memory	length: 241861	epsilon: 0.7191132400060978	steps: 330	lr: 4e-05	evaluation re
episode: 1304	score: 1.0	memory	length: 242031	epsilon: 0.7187766400061051	steps: 170	lr: 4e-05	evaluation re
episode: 1305	score: 3.0	memory	length: 242301	epsilon: 0.7182420400061167	steps: 270	lr: 4e-05	evaluation re
episode: 1306	score: 3.0	memory	length: 242571	epsilon: 0.7177074400061283	steps: 270	lr: 4e-05	evaluation re
episode: 1307	score: 2.0	memory	length: 242788	epsilon: 0.7172777800061376	steps: 217	lr: 4e-05	evaluation re
episode: 1308	score: 2.0	memory	length: 243007	epsilon: 0.716844160006147	steps: 219	lr: 4e-05	evaluation rev
episode: 1309	score: 0.0	memory	length: 243131	epsilon: 0.7165986400061524	steps: 124	lr: 4e-05	evaluation re
episode: 1310	score: 0.0	memory	length: 243255	epsilon: 0.7163531200061577	steps: 124	lr: 4e-05	evaluation re
episode: 1311	score: 3.0	memory	length: 243503	epsilon: 0.7158620800061684	steps: 248	lr: 4e-05	evaluation re
episode: 1312	score: 2.0	memory	length: 243721	epsilon: 0.7154304400061777	steps: 218	lr: 4e-05	evaluation re
episode: 1313	score: 3.0	memory	length: 243948	epsilon: 0.7149809800061875	steps: 227	lr: 4e-05	evaluation re
episode: 1314	score: 2.0	memory	length: 244167	epsilon: 0.7145473600061969	steps: 219	lr: 4e-05	evaluation re
episode: 1315	score: 9.0	memory	length: 244535	epsilon: 0.7138187200062127	steps: 368	lr: 4e-05	evaluation re
episode: 1316	score: 0.0	memory	length: 244659	epsilon: 0.713573200006218	steps: 124	lr: 4e-05	evaluation rev
episode: 1317	score: 2.0	memory	length: 244859	epsilon: 0.7131772000062266	steps: 200	lr: 4e-05	evaluation re
episode: 1318	score: 2.0	memory	length: 245058	epsilon: 0.7127831800062352	steps: 199	lr: 4e-05	evaluation re
episode: 1319	score: 0.0	memory	length: 245181	epsilon: 0.7125396400062405	steps: 123	lr: 4e-05	evaluation re
episode: 1320	score: 2.0	memory	length: 245379	epsilon: 0.712147600006249	steps: 198	lr: 4e-05	evaluation rev
episode: 1321	score: 2.0	memory	length: 245577	epsilon: 0.7117556000062575	steps: 198	lr: 4e-05	evaluation re
episode: 1322	score: 2.0	memory	length: 245776	epsilon: 0.7113615400062661	steps: 199	lr: 4e-05	evaluation re
episode: 1323	score: 4.0	memory	length: 246091	epsilon: 0.7107378400062796	steps: 315	lr: 4e-05	evaluation re
episode: 1324	score: 2.0	memory	length: 246290	epsilon: 0.7103438200062882	steps: 199	lr: 4e-05	evaluation re
episode: 1325	score: 4.0	memory	length: 246567	epsilon: 0.7097953600063001	steps: 277	lr: 4e-05	evaluation re
episode: 1326	score: 3.0	memory	length: 246817	epsilon: 0.7093003600063108	steps: 250	lr: 4e-05	evaluation re
episode: 1327	score: 2.0	memory	length: 247036	epsilon: 0.7088667400063202	steps: 219	lr: 4e-05	evaluation re
episode: 1328	score: 5.0	memory	length: 247352	epsilon: 0.7082410600063338	steps: 316	lr: 4e-05	evaluation re
episode: 1329	score: 2.0	memory	length: 247551	epsilon: 0.7078470400063424	steps: 199	lr: 4e-05	evaluation re
episode: 1330	score: 3.0	memory	length: 247777	epsilon: 0.7073995600063521	steps: 226	lr: 4e-05	evaluation re
episode: 1331	score: 2.0	memory	length: 247996	epsilon: 0.7069659400063615	steps: 219	lr: 4e-05	evaluation re
episode: 1332	score: 3.0	memory	length: 248224	epsilon: 0.7065145000063713	steps: 228	lr: 4e-05	evaluation re
episode: 1333	score: 1.0	memory	length: 248376	epsilon: 0.7062135400063778	steps: 152	lr: 4e-05	evaluation re
episode: 1334	score: 2.0	memory	length: 248575	epsilon: 0.7058195200063864	steps: 199	lr: 4e-05	evaluation re
episode: 1335	score: 2.0	memory	length: 248774	epsilon: 0.7054255000063949	steps: 199	lr: 4e-05	evaluation re
episode: 1336	score: 1.0	memory	length: 248946	epsilon: 0.7050849400064023	steps: 172	lr: 4e-05	evaluation re
episode: 1337	score: 2.0	memory	length: 249145	epsilon: 0.7046909200064109	steps: 199	lr: 4e-05	evaluation re
episode: 1338	score: 0.0	memory	length: 249269	epsilon: 0.7044454000064162	steps: 124	lr: 4e-05	evaluation re
episode: 1339	score: 0.0	memory	length: 249392	epsilon: 0.7042018600064215	steps: 123	lr: 4e-05	evaluation re
episode: 1340	score: 1.0	memory	length: 249562	epsilon: 0.7038652600064288	steps: 170	lr: 4e-05	evaluation re
episode: 1341	score: 4.0	memory	length: 249860	epsilon: 0.7032752200064416	steps: 298	lr: 4e-05	evaluation re
episode: 1342	score: 2.0	memory	length: 250079	epsilon: 0.702841600006451	steps: 219	lr: 4e-05	evaluation rev
episode: 1343	score: 1.0	memory	length: 250231	epsilon: 0.7025406400064576	steps: 152	lr: 4e-05	evaluation re
episode: 1344	score: 2.0	memory	length: 250430	epsilon: 0.7021466200064661	steps: 199	lr: 4e-05	evaluation re
episode: 1345	score: 3.0	memory	length: 250678	epsilon: 0.7016555800064768	steps: 248	lr: 4e-05	evaluation re
episode: 1346	score: 1.0	memory	length: 250830	epsilon: 0.7013546200064833	steps: 152	lr: 4e-05	evaluation re
episode: 1347	score: 3.0	memory	length: 251057	epsilon: 0.700905160006493	steps: 227	lr: 4e-05	evaluation rev
episode: 1348	score: 2.0	memory	length: 251256	epsilon: 0.7005111400065016	steps: 199	lr: 4e-05	evaluation re
episode: 1349	score: 0.0	memory	length: 251380	epsilon: 0.7002656200065069	steps: 124	lr: 4e-05	evaluation re

episode: 1350	score: 0.0	memory length: 251504	epsilon: 0.7000201000065123	steps: 124	lr: 4e-05	evaluation re
episode: 1351	score: 4.0	memory length: 251783	epsilon: 0.6994676800065243	steps: 279	lr: 4e-05	evaluation re
episode: 1352	score: 2.0	memory length: 251982	epsilon: 0.6990736600065328	steps: 199	lr: 4e-05	evaluation re
episode: 1353	score: 2.0	memory length: 252201	epsilon: 0.6986400400065422	steps: 219	lr: 4e-05	evaluation re
episode: 1354	score: 2.0	memory length: 252399	epsilon: 0.6982480000065507	steps: 198	lr: 4e-05	evaluation re
episode: 1355	score: 2.0	memory length: 252582	epsilon: 0.6978856600065586	steps: 183	lr: 4e-05	evaluation re
episode: 1356	score: 3.0	memory length: 252829	epsilon: 0.6973966000065692	steps: 247	lr: 4e-05	evaluation re
episode: 1357	score: 3.0	memory length: 253076	epsilon: 0.6969075400065798	steps: 247	lr: 4e-05	evaluation re
episode: 1358	score: 1.0	memory length: 253229	epsilon: 0.6966046000065864	steps: 153	lr: 4e-05	evaluation re
episode: 1359	score: 5.0	memory length: 253575	epsilon: 0.6959195200066013	steps: 346	lr: 4e-05	evaluation re
episode: 1360	score: 0.0	memory length: 253699	epsilon: 0.6956740000066066	steps: 124	lr: 4e-05	evaluation re
episode: 1361	score: 5.0	memory length: 254008	epsilon: 0.6950621800066199	steps: 309	lr: 4e-05	evaluation re
episode: 1362	score: 2.0	memory length: 254207	epsilon: 0.6946681600066285	steps: 199	lr: 4e-05	evaluation re
episode: 1363	score: 1.0	memory length: 254378	epsilon: 0.6943295800066358	steps: 171	lr: 4e-05	evaluation re
episode: 1364	score: 4.0	memory length: 254666	epsilon: 0.6937593400066482	steps: 288	lr: 4e-05	evaluation re
episode: 1365	score: 2.0	memory length: 254865	epsilon: 0.6933653200066567	steps: 199	lr: 4e-05	evaluation re
episode: 1366	score: 2.0	memory length: 255082	epsilon: 0.6929356600066661	steps: 217	lr: 4e-05	evaluation re
episode: 1367	score: 4.0	memory length: 255378	epsilon: 0.6923495800066788	steps: 296	lr: 4e-05	evaluation re
episode: 1368	score: 4.0	memory length: 255694	epsilon: 0.6917239000066924	steps: 316	lr: 4e-05	evaluation re
episode: 1369	score: 2.0	memory length: 255893	epsilon: 0.6913298800067009	steps: 199	lr: 4e-05	evaluation re
episode: 1370	score: 3.0	memory length: 256123	epsilon: 0.6908744800067108	steps: 230	lr: 4e-05	evaluation re
episode: 1371	score: 0.0	memory length: 256247	epsilon: 0.6906289600067161	steps: 124	lr: 4e-05	evaluation re
episode: 1372	score: 3.0	memory length: 256474	epsilon: 0.6901795000067259	steps: 227	lr: 4e-05	evaluation re
episode: 1373	score: 3.0	memory length: 256723	epsilon: 0.6896864800067366	steps: 249	lr: 4e-05	evaluation re
episode: 1374	score: 4.0	memory length: 256999	epsilon: 0.6891400000067485	steps: 276	lr: 4e-05	evaluation re
episode: 1375	score: 4.0	memory length: 257295	epsilon: 0.6885539200067612	steps: 296	lr: 4e-05	evaluation re
episode: 1376	score: 3.0	memory length: 257543	epsilon: 0.6880628800067718	steps: 248	lr: 4e-05	evaluation re
episode: 1377	score: 2.0	memory length: 257762	epsilon: 0.6876292600067813	steps: 219	lr: 4e-05	evaluation re
episode: 1378	score: 2.0	memory length: 257960	epsilon: 0.6872372200067898	steps: 198	lr: 4e-05	evaluation re
episode: 1379	score: 1.0	memory length: 258133	epsilon: 0.6868946800067972	steps: 173	lr: 4e-05	evaluation re
episode: 1380	score: 3.0	memory length: 258383	epsilon: 0.686399680006808	steps: 250	lr: 4e-05	evaluation rev
episode: 1381	score: 2.0	memory length: 258564	epsilon: 0.6860413000068157	steps: 181	lr: 4e-05	evaluation re
episode: 1382	score: 3.0	memory length: 258795	epsilon: 0.6855839200068257	steps: 231	lr: 4e-05	evaluation re
episode: 1383	score: 2.0	memory length: 258993	epsilon: 0.6851918800068342	steps: 198	lr: 4e-05	evaluation re
episode: 1384	score: 2.0	memory length: 259192	epsilon: 0.6847978600068427	steps: 199	lr: 4e-05	evaluation re
episode: 1385	score: 4.0	memory length: 259470	epsilon: 0.6842474200068547	steps: 278	lr: 4e-05	evaluation re
episode: 1386	score: 4.0	memory length: 259788	epsilon: 0.6836177800068683	steps: 318	lr: 4e-05	evaluation re
episode: 1387	score: 3.0	memory length: 260014	epsilon: 0.6831703000068781	steps: 226	lr: 4e-05	evaluation re
episode: 1388	score: 0.0	memory length: 260137	epsilon: 0.6829267600068833	steps: 123	lr: 4e-05	evaluation re
episode: 1389	score: 3.0	memory length: 260384	epsilon: 0.682437700006894	steps: 247	lr: 4e-05	evaluation rev
episode: 1390	score: 1.0	memory length: 260535	epsilon: 0.6821387200069005	steps: 151	lr: 4e-05	evaluation re
episode: 1391	score: 5.0	memory length: 260861	epsilon: 0.6814932400069145	steps: 326	lr: 4e-05	evaluation re
episode: 1392	score: 2.0	memory length: 261061	epsilon: 0.6810972400069231	steps: 200	lr: 4e-05	evaluation re
episode: 1393	score: 3.0	memory length: 261309	epsilon: 0.6806062000069337	steps: 248	lr: 4e-05	evaluation re
episode: 1394	score: 3.0	memory length: 261556	epsilon: 0.6801171400069443	steps: 247	lr: 4e-05	evaluation re
episode: 1395	score: 3.0	memory length: 261827	epsilon: 0.6795805600069556	steps: 271	lr: 4e-05	evaluation rev
episode: 1396	score: 3.0	memory length: 262053	epsilon: 0.6791330800069657	steps: 226	lr: 4e-05	evaluation re
episode: 1397	score: 2.0	memory length: 262251	epsilon: 0.6787410400069742	steps: 198	lr: 4e-05	evaluation re
episode: 1398	score: 4.0	memory length: 262536	epsilon: 0.6781767400069865	steps: 285	lr: 4e-05	evaluation re
episode: 1399	score: 1.0	memory length: 262688	epsilon: 0.677875780006993	steps: 152	lr: 4e-05	evaluation rev
episode: 1400	score: 2.0	memory length: 262870	epsilon: 0.6775154200070008	steps: 182	lr: 4e-05	evaluation re
episode: 1401	score: 2.0	memory length: 263074	epsilon: 0.6771115000070096	steps: 204	lr: 4e-05	evaluation re
episode: 1402	score: 3.0	memory length: 263304	epsilon: 0.6766561000070195	steps: 230	lr: 4e-05	evaluation re
episode: 1403	score: 2.0	memory length: 263503	epsilon: 0.676262080007028	steps: 199	lr: 4e-05	evaluation rev
episode: 1404	score: 0.0	memory length: 263626	epsilon: 0.6760185400070333	steps: 123	lr: 4e-05	evaluation re
episode: 1405	score: 2.0	memory length: 263827	epsilon: 0.675620560007042	steps: 201	lr: 4e-05	evaluation rev
episode: 1406	score: 3.0	memory length: 264053	epsilon: 0.6751730800070517	steps: 226	lr: 4e-05	evaluation re
episode: 1407	score: 2.0	memory length: 264252	epsilon: 0.6747790600070602	steps: 199	lr: 4e-05	evaluation re
episode: 1408	score: 11.0	memory length: 264681	epsilon: 0.6739296400070787	steps: 429	lr: 4e-05	evaluation re
episode: 1409	score: 2.0	memory length: 264879	epsilon: 0.6735376000070872	steps: 198	lr: 4e-05	evaluation re
episode: 1410	score: 2.0	memory length: 265078	epsilon: 0.6731435800070957	steps: 199	lr: 4e-05	evaluation re
episode: 1411	score: 2.0	memory length: 265260	epsilon: 0.6727832200071036	steps: 182	lr: 4e-05	evaluation re
episode: 1412	score: 0.0	memory length: 265384	epsilon: 0.6725377000071089	steps: 124	lr: 4e-05	evaluation re
episode: 1413	score: 2.0	memory length: 265583	epsilon: 0.6721436800071174	steps: 199	lr: 4e-05	evaluation re
episode: 1414	score: 2.0	memory length: 265781	epsilon: 0.671751640007126	steps: 198	lr: 4e-05	evaluation rev
episode: 1415	score: 5.0	memory length: 266091	epsilon: 0.6711378400071393	steps: 310	lr: 4e-05	evaluation re
episode: 1416	score: 2.0	memory length: 266310	epsilon: 0.6707042200071487	steps: 219	lr: 4e-05	evaluation re
episode: 1417	score: 3.0	memory length: 266536	epsilon: 0.6702567400071584	steps: 226	lr: 4e-05	evaluation re
episode: 1418	score: 2.0	memory length: 266734	epsilon: 0.6698647000071669	steps: 198	lr: 4e-05	evaluation re
episode: 1419	score: 2.0	memory length: 266914	epsilon: 0.6695083000071747	steps: 180	lr: 4e-05	evaluation re
episode: 1420	score: 3.0	memory length: 267162	epsilon: 0.6690172600071853	steps: 248	lr: 4e-05	evaluation re
episode: 1421	score: 0.0	memory length: 267286	epsilon: 0.6687717400071906	steps: 124	lr: 4e-05	evaluation re
episode: 1422	score: 2.0	memory length: 267485	epsilon: 0.6683777200071992	steps: 199	lr: 4e-05	evaluation re
episode: 1423	score: 1.0	memory length: 267656	epsilon: 0.6680391400072065	steps: 171	lr: 4e-05	evaluation re
episode: 1424	score: 2.0	memory length: 267839	epsilon: 0.6676768000072144	steps: 183	lr: 4e-05	evaluation re
episode: 1425	score: 4.0	memory length: 268133	epsilon: 0.667094680007227	steps: 294	lr: 4e-05	evaluation rev
episode: 1426	score: 2.0	memory length: 268332	epsilon: 0.6667006600072356	steps: 199	lr: 4e-05	evaluation re
episode: 1427	score: 2.0	memory length: 268530	epsilon: 0.6663086200072441	steps: 198	lr: 4e-05	evaluation re
episode: 1428	score: 4.0	memory length: 268827	epsilon: 0.6657205600072569	steps: 297	lr: 4e-05	evaluation re
episode: 1429	score: 3.0	memory length: 269074	epsilon: 0.6652315000072675	steps: 247	lr: 4e-05	evaluation re
episode: 1430	score: 0.0	memory length: 269198	epsilon: 0.6649859800072728	steps: 124	lr: 4e-05	evaluation re
episode: 1431	score: 2.0	memory length: 269397	epsilon: 0.6645919600072814	steps: 199	lr: 4e-05	evaluation re
episode: 1432	score: 2.0	memory length: 269596	epsilon: 0.6641979400072899	steps: 199	lr: 4e-05	evaluation re
episode: 1433	score: 4.0	memory length: 269885	epsilon: 0.6636257200073024	steps: 289	lr: 4e-05	evaluation re
episode: 1434	score: 4.0	memory length: 270182	epsilon: 0.6630376600073151	steps: 297	lr: 4e-05	evaluation re

episode: 1435	score: 2.0	memory length: 270403	epsilon: 0.6626000800073246	steps: 221	lr: 4e-05	evaluation re
episode: 1436	score: 2.0	memory length: 270625	epsilon: 0.6621605200073342	steps: 222	lr: 4e-05	evaluation re
episode: 1437	score: 1.0	memory length: 270797	epsilon: 0.6618199600073416	steps: 172	lr: 4e-05	evaluation re
episode: 1438	score: 3.0	memory length: 271023	epsilon: 0.6613724800073513	steps: 226	lr: 4e-05	evaluation re
episode: 1439	score: 1.0	memory length: 271193	epsilon: 0.6610358800073586	steps: 170	lr: 4e-05	evaluation re
episode: 1440	score: 3.0	memory length: 271440	epsilon: 0.6605468200073692	steps: 247	lr: 4e-05	evaluation re
episode: 1441	score: 2.0	memory length: 271640	epsilon: 0.6601508200073778	steps: 200	lr: 4e-05	evaluation re
episode: 1442	score: 3.0	memory length: 271869	epsilon: 0.6596974000073876	steps: 229	lr: 4e-05	evaluation re
episode: 1443	score: 1.0	memory length: 272021	epsilon: 0.6593964400073942	steps: 152	lr: 4e-05	evaluation re
episode: 1444	score: 1.0	memory length: 272192	epsilon: 0.6590578600074015	steps: 171	lr: 4e-05	evaluation re
episode: 1445	score: 1.0	memory length: 272363	epsilon: 0.6587192800074089	steps: 171	lr: 4e-05	evaluation re
episode: 1446	score: 3.0	memory length: 272595	epsilon: 0.6582599200074188	steps: 232	lr: 4e-05	evaluation re
episode: 1447	score: 2.0	memory length: 272797	epsilon: 0.6578599600074275	steps: 202	lr: 4e-05	evaluation re
episode: 1448	score: 3.0	memory length: 273041	epsilon: 0.657376840007438	steps: 244	lr: 4e-05	evaluation rev
episode: 1449	score: 1.0	memory length: 273211	epsilon: 0.6570402400074453	steps: 170	lr: 4e-05	evaluation re
episode: 1450	score: 6.0	memory length: 273562	epsilon: 0.6563452600074604	steps: 351	lr: 4e-05	evaluation re
episode: 1451	score: 2.0	memory length: 273761	epsilon: 0.655951240007469	steps: 199	lr: 4e-05	evaluation rev
episode: 1452	score: 3.0	memory length: 274027	epsilon: 0.6554245600074804	steps: 266	lr: 4e-05	evaluation re
episode: 1453	score: 3.0	memory length: 274237	epsilon: 0.6550087600074894	steps: 210	lr: 4e-05	evaluation re
episode: 1454	score: 4.0	memory length: 274513	epsilon: 0.6544622800075013	steps: 276	lr: 4e-05	evaluation re
episode: 1455	score: 4.0	memory length: 274773	epsilon: 0.6539474800075125	steps: 260	lr: 4e-05	evaluation re
episode: 1456	score: 4.0	memory length: 275033	epsilon: 0.6534326800075236	steps: 260	lr: 4e-05	evaluation re
episode: 1457	score: 2.0	memory length: 275232	epsilon: 0.6530386600075322	steps: 199	lr: 4e-05	evaluation re
episode: 1458	score: 3.0	memory length: 275459	epsilon: 0.652589200007542	steps: 227	lr: 4e-05	evaluation rev
episode: 1459	score: 3.0	memory length: 275704	epsilon: 0.6521041000075525	steps: 245	lr: 4e-05	evaluation re
episode: 1460	score: 3.0	memory length: 275931	epsilon: 0.6516546400075622	steps: 227	lr: 4e-05	evaluation re
episode: 1461	score: 2.0	memory length: 276111	epsilon: 0.65129824000757	steps: 180	lr: 4e-05	evaluation rew
episode: 1462	score: 8.0	memory length: 276481	epsilon: 0.6505656400075859	steps: 370	lr: 4e-05	evaluation re
episode: 1463	score: 3.0	memory length: 276729	epsilon: 0.6500746000075965	steps: 248	lr: 4e-05	evaluation re
episode: 1464	score: 2.0	memory length: 276928	epsilon: 0.6496805800076051	steps: 199	lr: 4e-05	evaluation re
episode: 1465	score: 3.0	memory length: 277155	epsilon: 0.6492311200076148	steps: 227	lr: 4e-05	evaluation re
episode: 1466	score: 0.0	memory length: 277279	epsilon: 0.6489856000076202	steps: 124	lr: 4e-05	evaluation re
episode: 1467	score: 1.0	memory length: 277451	epsilon: 0.6486450400076276	steps: 172	lr: 4e-05	evaluation re
episode: 1468	score: 3.0	memory length: 277662	epsilon: 0.6482272600076366	steps: 211	lr: 4e-05	evaluation re
episode: 1469	score: 7.0	memory length: 278053	epsilon: 0.6474530800076534	steps: 391	lr: 4e-05	evaluation re
episode: 1470	score: 4.0	memory length: 278349	epsilon: 0.6468670000076662	steps: 296	lr: 4e-05	evaluation re
episode: 1471	score: 0.0	memory length: 278472	epsilon: 0.6466234600076715	steps: 123	lr: 4e-05	evaluation re
episode: 1472	score: 2.0	memory length: 278671	epsilon: 0.64622944000768	steps: 199	lr: 4e-05	evaluation rew
episode: 1473	score: 4.0	memory length: 278968	epsilon: 0.6456413800076928	steps: 297	lr: 4e-05	evaluation re
episode: 1474	score: 2.0	memory length: 279170	epsilon: 0.6452414200077015	steps: 202	lr: 4e-05	evaluation re
episode: 1475	score: 3.0	memory length: 279399	epsilon: 0.6447880000077113	steps: 229	lr: 4e-05	evaluation re
episode: 1476	score: 3.0	memory length: 279628	epsilon: 0.6443345800077211	steps: 229	lr: 4e-05	evaluation re
episode: 1477	score: 3.0	memory length: 279855	epsilon: 0.6438851200077309	steps: 227	lr: 4e-05	evaluation re
episode: 1478	score: 5.0	memory length: 280181	epsilon: 0.6432396400077449	steps: 326	lr: 4e-05	evaluation re
episode: 1479	score: 2.0	memory length: 280380	epsilon: 0.6428456200077535	steps: 199	lr: 4e-05	evaluation re
episode: 1480	score: 4.0	memory length: 280677	epsilon: 0.6422575600077662	steps: 297	lr: 4e-05	evaluation re
episode: 1481	score: 3.0	memory length: 280904	epsilon: 0.641808100007776	steps: 227	lr: 4e-05	evaluation rev
episode: 1482	score: 2.0	memory length: 281105	epsilon: 0.6414101200077846	steps: 201	lr: 4e-05	evaluation re
episode: 1483	score: 2.0	memory length: 281303	epsilon: 0.6410180800077931	steps: 198	lr: 4e-05	evaluation re
episode: 1484	score: 1.0	memory length: 281455	epsilon: 0.6407171200077997	steps: 152	lr: 4e-05	evaluation re
episode: 1485	score: 3.0	memory length: 281701	epsilon: 0.6402300400078103	steps: 246	lr: 4e-05	evaluation re
episode: 1486	score: 4.0	memory length: 282014	epsilon: 0.6396103000078237	steps: 313	lr: 4e-05	evaluation re
episode: 1487	score: 3.0	memory length: 282261	epsilon: 0.6391212400078343	steps: 247	lr: 4e-05	evaluation re
episode: 1488	score: 1.0	memory length: 282431	epsilon: 0.6387846400078416	steps: 170	lr: 4e-05	evaluation re
episode: 1489	score: 3.0	memory length: 282679	epsilon: 0.6382936000078523	steps: 248	lr: 4e-05	evaluation re
episode: 1490	score: 5.0	memory length: 283020	epsilon: 0.637618420007867	steps: 341	lr: 4e-05	evaluation rev
episode: 1491	score: 3.0	memory length: 283249	epsilon: 0.6371650000078768	steps: 229	lr: 4e-05	evaluation re
episode: 1492	score: 2.0	memory length: 283447	epsilon: 0.6367729600078853	steps: 198	lr: 4e-05	evaluation re
episode: 1493	score: 3.0	memory length: 283696	epsilon: 0.636279940007896	steps: 249	lr: 4e-05	evaluation rev
episode: 1494	score: 3.0	memory length: 283964	epsilon: 0.6357493000079075	steps: 268	lr: 4e-05	evaluation re
episode: 1495	score: 3.0	memory length: 284190	epsilon: 0.6353018200079172	steps: 226	lr: 4e-05	evaluation re
episode: 1496	score: 3.0	memory length: 284417	epsilon: 0.634852360007927	steps: 227	lr: 4e-05	evaluation rev
episode: 1497	score: 1.0	memory length: 284569	epsilon: 0.6345514000079335	steps: 152	lr: 4e-05	evaluation re
episode: 1498	score: 3.0	memory length: 284797	epsilon: 0.6340999600079433	steps: 228	lr: 4e-05	evaluation re
episode: 1499	score: 3.0	memory length: 285026	epsilon: 0.6336465400079532	steps: 229	lr: 4e-05	evaluation re
episode: 1500	score: 4.0	memory length: 285319	epsilon: 0.6330664000079658	steps: 293	lr: 4e-05	evaluation re
episode: 1501	score: 2.0	memory length: 285500	epsilon: 0.6327080200079735	steps: 181	lr: 4e-05	evaluation re
episode: 1502	score: 2.0	memory length: 285699	epsilon: 0.6323140000079821	steps: 199	lr: 4e-05	evaluation re
episode: 1503	score: 2.0	memory length: 285899	epsilon: 0.6319180000079907	steps: 200	lr: 4e-05	evaluation re
episode: 1504	score: 3.0	memory length: 286130	epsilon: 0.6314606200080006	steps: 231	lr: 4e-05	evaluation re
episode: 1505	score: 4.0	memory length: 286407	epsilon: 0.6309121600080125	steps: 277	lr: 4e-05	evaluation re
episode: 1506	score: 4.0	memory length: 286663	epsilon: 0.6304052800080235	steps: 256	lr: 4e-05	evaluation re
episode: 1507	score: 2.0	memory length: 286882	epsilon: 0.629971660008033	steps: 219	lr: 4e-05	evaluation rev
episode: 1508	score: 2.0	memory length: 287098	epsilon: 0.6295439800080422	steps: 216	lr: 4e-05	evaluation re
episode: 1509	score: 2.0	memory length: 287317	epsilon: 0.6291103600080517	steps: 219	lr: 4e-05	evaluation re
episode: 1510	score: 6.0	memory length: 287709	epsilon: 0.6283342000080685	steps: 392	lr: 4e-05	evaluation re
episode: 1511	score: 3.0	memory length: 287936	epsilon: 0.6278847400080783	steps: 227	lr: 4e-05	evaluation re
episode: 1512	score: 3.0	memory length: 288183	epsilon: 0.6273956800080889	steps: 247	lr: 4e-05	evaluation re
episode: 1513	score: 4.0	memory length: 288482	epsilon: 0.6268036600081017	steps: 299	lr: 4e-05	evaluation re
episode: 1514	score: 5.0	memory length: 288789	epsilon: 0.6261958000081149	steps: 307	lr: 4e-05	evaluation re
episode: 1515	score: 2.0	memory length: 288987	epsilon: 0.6258037600081234	steps: 198	lr: 4e-05	evaluation re
episode: 1516	score: 3.0	memory length: 289221	epsilon: 0.6253404400081335	steps: 234	lr: 4e-05	evaluation re
episode: 1517	score: 5.0	memory length: 289527	epsilon: 0.6247345600081466	steps: 306	lr: 4e-05	evaluation re
episode: 1518	score: 5.0	memory length: 289855	epsilon: 0.6240851200081607	steps: 328	lr: 4e-05	evaluation re
episode: 1519	score: 1.0	memory length: 290026	epsilon: 0.6237465400081681	steps: 171	lr: 4e-05	evaluation re

episode: 1520	score: 3.0	memory length: 290274	epsilon: 0.6232555000081788	steps: 248	lr: 4e-05	evaluation re
episode: 1521	score: 3.0	memory length: 290521	epsilon: 0.6227664400081894	steps: 247	lr: 4e-05	evaluation re
episode: 1522	score: 4.0	memory length: 290794	epsilon: 0.6222259000082011	steps: 273	lr: 4e-05	evaluation re
episode: 1523	score: 3.0	memory length: 291062	epsilon: 0.6216952600082126	steps: 268	lr: 4e-05	evaluation re
episode: 1524	score: 2.0	memory length: 291281	epsilon: 0.621261640008222	steps: 219	lr: 4e-05	evaluation rev
episode: 1525	score: 2.0	memory length: 291462	epsilon: 0.6209032600082298	steps: 181	lr: 4e-05	evaluation re
episode: 1526	score: 2.0	memory length: 291661	epsilon: 0.6205092400082384	steps: 199	lr: 4e-05	evaluation re
episode: 1527	score: 3.0	memory length: 291890	epsilon: 0.6200558200082482	steps: 229	lr: 4e-05	evaluation re
episode: 1528	score: 5.0	memory length: 292216	epsilon: 0.6194103400082622	steps: 326	lr: 4e-05	evaluation re
episode: 1529	score: 2.0	memory length: 292415	epsilon: 0.6190163200082708	steps: 199	lr: 4e-05	evaluation re
episode: 1530	score: 7.0	memory length: 292697	epsilon: 0.6184579600082829	steps: 282	lr: 4e-05	evaluation re
episode: 1531	score: 3.0	memory length: 292945	epsilon: 0.6179669200082936	steps: 248	lr: 4e-05	evaluation re
episode: 1532	score: 4.0	memory length: 293241	epsilon: 0.6173808400083063	steps: 296	lr: 4e-05	evaluation re
episode: 1533	score: 2.0	memory length: 293460	epsilon: 0.6169472200083157	steps: 219	lr: 4e-05	evaluation re
episode: 1534	score: 1.0	memory length: 293633	epsilon: 0.6166046800083231	steps: 173	lr: 4e-05	evaluation re
episode: 1535	score: 1.0	memory length: 293784	epsilon: 0.6163057000083296	steps: 151	lr: 4e-05	evaluation re
episode: 1536	score: 4.0	memory length: 294058	epsilon: 0.6157631800083414	steps: 274	lr: 4e-05	evaluation re
episode: 1537	score: 2.0	memory length: 294260	epsilon: 0.6153632200083501	steps: 202	lr: 4e-05	evaluation re
episode: 1538	score: 1.0	memory length: 294412	epsilon: 0.6150622600083566	steps: 152	lr: 4e-05	evaluation re
episode: 1539	score: 0.0	memory length: 294536	epsilon: 0.614816740008362	steps: 124	lr: 4e-05	evaluation rev
episode: 1540	score: 3.0	memory length: 294763	epsilon: 0.6143672800083717	steps: 227	lr: 4e-05	evaluation re
episode: 1541	score: 5.0	memory length: 295092	epsilon: 0.6137158600083858	steps: 329	lr: 4e-05	evaluation re
episode: 1542	score: 3.0	memory length: 295340	epsilon: 0.6132248200083965	steps: 248	lr: 4e-05	evaluation re
episode: 1543	score: 1.0	memory length: 295513	epsilon: 0.612882280008404	steps: 173	lr: 4e-05	evaluation rev
episode: 1544	score: 4.0	memory length: 295789	epsilon: 0.6123358000084158	steps: 276	lr: 4e-05	evaluation re
episode: 1545	score: 3.0	memory length: 296016	epsilon: 0.6118863400084256	steps: 227	lr: 4e-05	evaluation re
episode: 1546	score: 3.0	memory length: 296261	epsilon: 0.6114012400084361	steps: 245	lr: 4e-05	evaluation re
episode: 1547	score: 2.0	memory length: 296480	epsilon: 0.6109676200084455	steps: 219	lr: 4e-05	evaluation re
episode: 1548	score: 2.0	memory length: 296682	epsilon: 0.6105676600084542	steps: 202	lr: 4e-05	evaluation re
episode: 1549	score: 2.0	memory length: 296884	epsilon: 0.6101677000084629	steps: 202	lr: 4e-05	evaluation re
episode: 1550	score: 1.0	memory length: 297054	epsilon: 0.6098311000084702	steps: 170	lr: 4e-05	evaluation re
episode: 1551	score: 3.0	memory length: 297303	epsilon: 0.6093380800084809	steps: 249	lr: 4e-05	evaluation re
episode: 1552	score: 5.0	memory length: 297585	epsilon: 0.608779720008493	steps: 282	lr: 4e-05	evaluation rev
episode: 1553	score: 5.0	memory length: 297925	epsilon: 0.6081065200085076	steps: 340	lr: 4e-05	evaluation re
episode: 1554	score: 5.0	memory length: 298190	epsilon: 0.607581820008519	steps: 265	lr: 4e-05	evaluation rev
episode: 1555	score: 4.0	memory length: 298465	epsilon: 0.6070373200085308	steps: 275	lr: 4e-05	evaluation re
episode: 1556	score: 2.0	memory length: 298647	epsilon: 0.6066769600085387	steps: 182	lr: 4e-05	evaluation re
episode: 1557	score: 2.0	memory length: 298846	epsilon: 0.6062829400085472	steps: 199	lr: 4e-05	evaluation re
episode: 1558	score: 3.0	memory length: 299078	epsilon: 0.6058235800085572	steps: 232	lr: 4e-05	evaluation re
episode: 1559	score: 2.0	memory length: 299277	epsilon: 0.6054295600085657	steps: 199	lr: 4e-05	evaluation re
episode: 1560	score: 0.0	memory length: 299401	epsilon: 0.6051840400085711	steps: 124	lr: 4e-05	evaluation re
episode: 1561	score: 3.0	memory length: 299647	epsilon: 0.6046969600085816	steps: 246	lr: 4e-05	evaluation re
episode: 1562	score: 3.0	memory length: 299874	epsilon: 0.6042475000085914	steps: 227	lr: 4e-05	evaluation re
episode: 1563	score: 3.0	memory length: 300122	epsilon: 0.6037564600086021	steps: 248	lr: 1.6000000000000003e-05	
episode: 1564	score: 4.0	memory length: 300399	epsilon: 0.603208000008614	steps: 277	lr: 1.6000000000000003e-05	
episode: 1565	score: 5.0	memory length: 300744	epsilon: 0.6025249000086288	steps: 345	lr: 1.6000000000000003e-05	
episode: 1566	score: 3.0	memory length: 300974	epsilon: 0.6020695000086387	steps: 230	lr: 1.6000000000000003e-05	
episode: 1567	score: 4.0	memory length: 301235	epsilon: 0.6015527200086499	steps: 261	lr: 1.6000000000000003e-05	
episode: 1568	score: 5.0	memory length: 301539	epsilon: 0.600950800008663	steps: 304	lr: 1.6000000000000003e-05	
episode: 1569	score: 3.0	memory length: 301766	epsilon: 0.6005013400086727	steps: 227	lr: 1.6000000000000003e-05	
episode: 1570	score: 4.0	memory length: 302043	epsilon: 0.5999528800086846	steps: 277	lr: 1.6000000000000003e-05	
episode: 1571	score: 4.0	memory length: 302357	epsilon: 0.5993311600086981	steps: 314	lr: 1.6000000000000003e-05	
episode: 1572	score: 3.0	memory length: 302604	epsilon: 0.5988421000087087	steps: 247	lr: 1.6000000000000003e-05	
episode: 1573	score: 3.0	memory length: 302850	epsilon: 0.5983550200087193	steps: 246	lr: 1.6000000000000003e-05	
episode: 1574	score: 3.0	memory length: 303078	epsilon: 0.5979035800087291	steps: 228	lr: 1.6000000000000003e-05	
episode: 1575	score: 5.0	memory length: 303422	epsilon: 0.5972224600087439	steps: 344	lr: 1.6000000000000003e-05	
episode: 1576	score: 3.0	memory length: 303649	epsilon: 0.5967730000087537	steps: 227	lr: 1.6000000000000003e-05	
episode: 1577	score: 2.0	memory length: 303848	epsilon: 0.5963789800087622	steps: 199	lr: 1.6000000000000003e-05	
episode: 1578	score: 3.0	memory length: 304093	epsilon: 0.5958938800087727	steps: 245	lr: 1.6000000000000003e-05	
episode: 1579	score: 4.0	memory length: 304392	epsilon: 0.5953018600087856	steps: 299	lr: 1.6000000000000003e-05	
episode: 1580	score: 3.0	memory length: 304639	epsilon: 0.5948128000087962	steps: 247	lr: 1.6000000000000003e-05	
episode: 1581	score: 3.0	memory length: 304866	epsilon: 0.594363340008806	steps: 227	lr: 1.6000000000000003e-05	
episode: 1582	score: 5.0	memory length: 305190	epsilon: 0.5937218200088199	steps: 324	lr: 1.6000000000000003e-05	
episode: 1583	score: 2.0	memory length: 305391	epsilon: 0.5933238400088285	steps: 201	lr: 1.6000000000000003e-05	
episode: 1584	score: 4.0	memory length: 305686	epsilon: 0.5927397400088412	steps: 295	lr: 1.6000000000000003e-05	
episode: 1585	score: 5.0	memory length: 306032	epsilon: 0.5920546000088561	steps: 346	lr: 1.6000000000000003e-05	
episode: 1586	score: 5.0	memory length: 306356	epsilon: 0.59141314000887	steps: 324	lr: 1.6000000000000003e-05	
episode: 1587	score: 3.0	memory length: 306624	epsilon: 0.5908825000088815	steps: 268	lr: 1.6000000000000003e-05	
episode: 1588	score: 4.0	memory length: 306923	epsilon: 0.5902904800088944	steps: 299	lr: 1.6000000000000003e-05	
episode: 1589	score: 4.0	memory length: 307201	epsilon: 0.5897400400089063	steps: 278	lr: 1.6000000000000003e-05	
episode: 1590	score: 2.0	memory length: 307400	epsilon: 0.5893460200089149	steps: 199	lr: 1.6000000000000003e-05	
episode: 1591	score: 2.0	memory length: 307580	epsilon: 0.5889896200089226	steps: 180	lr: 1.6000000000000003e-05	
episode: 1592	score: 2.0	memory length: 307779	epsilon: 0.5885956000089312	steps: 199	lr: 1.6000000000000003e-05	
episode: 1593	score: 7.0	memory length: 308226	epsilon: 0.5877105400089504	steps: 447	lr: 1.6000000000000003e-05	
episode: 1594	score: 7.0	memory length: 308628	epsilon: 0.5869145800089677	steps: 402	lr: 1.6000000000000003e-05	
episode: 1595	score: 5.0	memory length: 308950	epsilon: 0.5862770200089815	steps: 322	lr: 1.6000000000000003e-05	
episode: 1596	score: 3.0	memory length: 309177	epsilon: 0.5858275600089913	steps: 227	lr: 1.6000000000000003e-05	
episode: 1597	score: 3.0	memory length: 309389	epsilon: 0.5854078000090004	steps: 212	lr: 1.6000000000000003e-05	
episode: 1598	score: 2.0	memory length: 309608	epsilon: 0.5849741800090098	steps: 219	lr: 1.6000000000000003e-05	
episode: 1599	score: 1.0	memory length: 309760	epsilon: 0.5846732200090163	steps: 152	lr: 1.6000000000000003e-05	
episode: 1600	score: 3.0	memory length: 309989	epsilon: 0.5842198000090262	steps: 229	lr: 1.6000000000000003e-05	
episode: 1601	score: 6.0	memory length: 310384	epsilon: 0.5834377000090432	steps: 395	lr: 1.6000000000000003e-05	
episode: 1602	score: 2.0	memory length: 310583	epsilon: 0.5830436800090517	steps: 199	lr: 1.6000000000000003e-05	
episode: 1603	score: 4.0	memory length: 310841	epsilon: 0.5825328400090628	steps: 258	lr: 1.6000000000000003e-05	
episode: 1604	score: 2.0	memory length: 311041	epsilon: 0.5821368400090714	steps: 200	lr: 1.6000000000000003e-05	

episode:	score:	memory	length:	epsilon:	steps:	lr:
episode: 1605	score: 3.0	memory	length: 311286	epsilon: 0.5816517400090819	steps: 245	lr: 1.6000000000000003e-05
episode: 1606	score: 2.0	memory	length: 311503	epsilon: 0.5812220800090913	steps: 217	lr: 1.6000000000000003e-05
episode: 1607	score: 5.0	memory	length: 311793	epsilon: 0.5806478800091037	steps: 290	lr: 1.6000000000000003e-05
episode: 1608	score: 3.0	memory	length: 312040	epsilon: 0.5801588200091143	steps: 247	lr: 1.6000000000000003e-05
episode: 1609	score: 4.0	memory	length: 312296	epsilon: 0.5796519400091253	steps: 256	lr: 1.6000000000000003e-05
episode: 1610	score: 3.0	memory	length: 312523	epsilon: 0.5792024800091351	steps: 227	lr: 1.6000000000000003e-05
episode: 1611	score: 3.0	memory	length: 312768	epsilon: 0.5787173800091456	steps: 245	lr: 1.6000000000000003e-05
episode: 1612	score: 3.0	memory	length: 313035	epsilon: 0.5781887200091571	steps: 267	lr: 1.6000000000000003e-05
episode: 1613	score: 0.0	memory	length: 313159	epsilon: 0.577943200091624	steps: 124	lr: 1.6000000000000003e-05
episode: 1614	score: 4.0	memory	length: 313428	epsilon: 0.577410580009174	steps: 269	lr: 1.6000000000000003e-05
episode: 1615	score: 4.0	memory	length: 313722	epsilon: 0.5768284600091866	steps: 294	lr: 1.6000000000000003e-05
episode: 1616	score: 2.0	memory	length: 313928	epsilon: 0.5764205800091955	steps: 206	lr: 1.6000000000000003e-05
episode: 1617	score: 5.0	memory	length: 314253	epsilon: 0.5757770800092095	steps: 325	lr: 1.6000000000000003e-05
episode: 1618	score: 6.0	memory	length: 314633	epsilon: 0.5750246800092258	steps: 380	lr: 1.6000000000000003e-05
episode: 1619	score: 2.0	memory	length: 314833	epsilon: 0.5746286800092344	steps: 200	lr: 1.6000000000000003e-05
episode: 1620	score: 3.0	memory	length: 315081	epsilon: 0.574137640009245	steps: 248	lr: 1.6000000000000003e-05
episode: 1621	score: 1.0	memory	length: 315233	epsilon: 0.5738366800092516	steps: 152	lr: 1.6000000000000003e-05
episode: 1622	score: 3.0	memory	length: 315460	epsilon: 0.5733872200092613	steps: 227	lr: 1.6000000000000003e-05
episode: 1623	score: 1.0	memory	length: 315630	epsilon: 0.5730506200092687	steps: 170	lr: 1.6000000000000003e-05
episode: 1624	score: 6.0	memory	length: 315950	epsilon: 0.5724170200092824	steps: 320	lr: 1.6000000000000003e-05
episode: 1625	score: 3.0	memory	length: 316179	epsilon: 0.571963600092923	steps: 229	lr: 1.6000000000000003e-05
episode: 1626	score: 4.0	memory	length: 316465	epsilon: 0.5713973200093045	steps: 286	lr: 1.6000000000000003e-05
episode: 1627	score: 4.0	memory	length: 316760	epsilon: 0.5708132200093172	steps: 295	lr: 1.6000000000000003e-05
episode: 1628	score: 1.0	memory	length: 316912	epsilon: 0.5705122600093238	steps: 152	lr: 1.6000000000000003e-05
episode: 1629	score: 1.0	memory	length: 317064	epsilon: 0.570211300093303	steps: 152	lr: 1.6000000000000003e-05
episode: 1630	score: 3.0	memory	length: 317315	epsilon: 0.5697143200093411	steps: 251	lr: 1.6000000000000003e-05
episode: 1631	score: 4.0	memory	length: 317634	epsilon: 0.569082700093548	steps: 319	lr: 1.6000000000000003e-05
episode: 1632	score: 4.0	memory	length: 317931	epsilon: 0.5684946400093676	steps: 297	lr: 1.6000000000000003e-05
episode: 1633	score: 2.0	memory	length: 318150	epsilon: 0.568061020009377	steps: 219	lr: 1.6000000000000003e-05
episode: 1634	score: 2.0	memory	length: 318351	epsilon: 0.5676630400093856	steps: 201	lr: 1.6000000000000003e-05
episode: 1635	score: 2.0	memory	length: 318550	epsilon: 0.5672690200093942	steps: 199	lr: 1.6000000000000003e-05
episode: 1636	score: 1.0	memory	length: 318723	epsilon: 0.5669264800094016	steps: 173	lr: 1.6000000000000003e-05
episode: 1637	score: 3.0	memory	length: 318950	epsilon: 0.5664770200094114	steps: 227	lr: 1.6000000000000003e-05
episode: 1638	score: 6.0	memory	length: 319289	epsilon: 0.565805800094259	steps: 339	lr: 1.6000000000000003e-05
episode: 1639	score: 3.0	memory	length: 319501	epsilon: 0.565386040009435	steps: 212	lr: 1.6000000000000003e-05
episode: 1640	score: 4.0	memory	length: 319761	epsilon: 0.5648712400094462	steps: 260	lr: 1.6000000000000003e-05
episode: 1641	score: 4.0	memory	length: 320016	epsilon: 0.5643663400094572	steps: 255	lr: 1.6000000000000003e-05
episode: 1642	score: 8.0	memory	length: 320367	epsilon: 0.5636713600094723	steps: 351	lr: 1.6000000000000003e-05
episode: 1643	score: 2.0	memory	length: 320568	epsilon: 0.5632733800094809	steps: 201	lr: 1.6000000000000003e-05
episode: 1644	score: 3.0	memory	length: 320799	epsilon: 0.562816000094908	steps: 231	lr: 1.6000000000000003e-05
episode: 1645	score: 3.0	memory	length: 321033	epsilon: 0.5623526800095009	steps: 234	lr: 1.6000000000000003e-05
episode: 1646	score: 3.0	memory	length: 321267	epsilon: 0.561889360009511	steps: 234	lr: 1.6000000000000003e-05
episode: 1647	score: 3.0	memory	length: 321494	epsilon: 0.561439900095207	steps: 227	lr: 1.6000000000000003e-05
episode: 1648	score: 4.0	memory	length: 321752	epsilon: 0.560929060095318	steps: 258	lr: 1.6000000000000003e-05
episode: 1649	score: 4.0	memory	length: 322047	epsilon: 0.560344960095445	steps: 295	lr: 1.6000000000000003e-05
episode: 1650	score: 3.0	memory	length: 322317	epsilon: 0.559810360095561	steps: 270	lr: 1.6000000000000003e-05
episode: 1651	score: 4.0	memory	length: 322615	epsilon: 0.559220320095689	steps: 298	lr: 1.6000000000000003e-05
episode: 1652	score: 6.0	memory	length: 322989	epsilon: 0.558479800095585	steps: 374	lr: 1.6000000000000003e-05
episode: 1653	score: 5.0	memory	length: 323316	epsilon: 0.557832340095599	steps: 327	lr: 1.6000000000000003e-05
episode: 1654	score: 2.0	memory	length: 323535	epsilon: 0.557398720096084	steps: 219	lr: 1.6000000000000003e-05
episode: 1655	score: 3.0	memory	length: 323782	epsilon: 0.556909660096191	steps: 247	lr: 1.6000000000000003e-05
episode: 1656	score: 1.0	memory	length: 323935	epsilon: 0.556606720096256	steps: 153	lr: 1.6000000000000003e-05
episode: 1657	score: 2.0	memory	length: 324134	epsilon: 0.556212700096342	steps: 199	lr: 1.6000000000000003e-05
episode: 1658	score: 5.0	memory	length: 324456	epsilon: 0.55557514009648	steps: 322	lr: 1.6000000000000003e-05
episode: 1659	score: 3.0	memory	length: 324724	epsilon: 0.555044500096595	steps: 268	lr: 1.6000000000000003e-05
episode: 1660	score: 3.0	memory	length: 324951	epsilon: 0.554595040096693	steps: 227	lr: 1.6000000000000003e-05
episode: 1661	score: 2.0	memory	length: 325134	epsilon: 0.554232700096772	steps: 183	lr: 1.6000000000000003e-05
episode: 1662	score: 4.0	memory	length: 325392	epsilon: 0.553721860096883	steps: 258	lr: 1.6000000000000003e-05
episode: 1663	score: 3.0	memory	length: 325603	epsilon: 0.553304080096973	steps: 211	lr: 1.6000000000000003e-05
episode: 1664	score: 4.0	memory	length: 325862	epsilon: 0.552791260097085	steps: 259	lr: 1.6000000000000003e-05
episode: 1665	score: 3.0	memory	length: 326089	epsilon: 0.552341800097182	steps: 227	lr: 1.6000000000000003e-05
episode: 1666	score: 3.0	memory	length: 326342	epsilon: 0.551840860097291	steps: 253	lr: 1.6000000000000003e-05
episode: 1667	score: 3.0	memory	length: 326557	epsilon: 0.551415160097383	steps: 215	lr: 1.6000000000000003e-05
episode: 1668	score: 7.0	memory	length: 326940	epsilon: 0.550656820097548	steps: 383	lr: 1.6000000000000003e-05
episode: 1669	score: 5.0	memory	length: 327278	epsilon: 0.549987580097693	steps: 338	lr: 1.6000000000000003e-05
episode: 1670	score: 3.0	memory	length: 327489	epsilon: 0.549569800097784	steps: 211	lr: 1.6000000000000003e-05
episode: 1671	score: 4.0	memory	length: 327786	epsilon: 0.548981740097912	steps: 297	lr: 1.6000000000000003e-05
episode: 1672	score: 4.0	memory	length: 328062	epsilon: 0.54843526009803	steps: 276	lr: 1.6000000000000003e-05
episode: 1673	score: 2.0	memory	length: 328280	epsilon: 0.548003620098124	steps: 218	lr: 1.6000000000000003e-05
episode: 1674	score: 3.0	memory	length: 328509	epsilon: 0.547550200098222	steps: 229	lr: 1.6000000000000003e-05
episode: 1675	score: 3.0	memory	length: 328736	epsilon: 0.54710074009832	steps: 227	lr: 1.6000000000000003e-05
episode: 1676	score: 2.0	memory	length: 328919	epsilon: 0.546738400098399	steps: 183	lr: 1.6000000000000003e-05
episode: 1677	score: 3.0	memory	length: 329146	epsilon: 0.546288940098496	steps: 227	lr: 1.6000000000000003e-05
episode: 1678	score: 4.0	memory	length: 329424	epsilon: 0.545738500098616	steps: 278	lr: 1.6000000000000003e-05
episode: 1679	score: 3.0	memory	length: 329672	epsilon: 0.545247460098722	steps: 248	lr: 1.6000000000000003e-05
episode: 1680	score: 5.0	memory	length: 329984	epsilon: 0.544629700098856	steps: 312	lr: 1.6000000000000003e-05
episode: 1681	score: 6.0	memory	length: 330359	epsilon: 0.543887200099018	steps: 375	lr: 1.6000000000000003e-05
episode: 1682	score: 6.0	memory	length: 330754	epsilon: 0.543105100099187	steps: 395	lr: 1.6000000000000003e-05
episode: 1683	score: 4.0	memory	length: 331030	epsilon: 0.542558620099306	steps: 276	lr: 1.6000000000000003e-05
episode: 1684	score: 3.0	memory	length: 331298	epsilon: 0.542027980099421	steps: 268	lr: 1.6000000000000003e-05
episode: 1685	score: 2.0	memory	length: 331499	epsilon: 0.541630000099508	steps: 201	lr: 1.6000000000000003e-05
episode: 1686	score: 4.0	memory	length: 331796	epsilon: 0.541041940099635	steps: 297	lr: 1.6000000000000003e-05
episode: 1687	score: 2.0	memory	length: 331996	epsilon: 0.540645940099721	steps: 200	lr: 1.6000000000000003e-05
episode: 1688	score: 2.0	memory	length: 332212	epsilon: 0.540218260099814	steps: 216	lr: 1.6000000000000003e-05
episode: 1689	score: 2.0	memory	length: 332414	epsilon: 0.539818300099901	steps: 202	lr: 1.6000000000000003e-05

episode: 1690	score: 2.0	memory length: 332414	epsilon: 0.5392599400100022	steps: 282	lr: 1.6000000000000003e-05
episode: 1691	score: 4.0	memory length: 332991	epsilon: 0.5386758400100149	steps: 295	lr: 1.6000000000000003e-05
episode: 1692	score: 4.0	memory length: 333251	epsilon: 0.5381610400100261	steps: 260	lr: 1.6000000000000003e-05
episode: 1693	score: 7.0	memory length: 333678	epsilon: 0.5373155800100444	steps: 427	lr: 1.6000000000000003e-05
episode: 1694	score: 6.0	memory length: 334076	epsilon: 0.5365275400100615	steps: 398	lr: 1.6000000000000003e-05
episode: 1695	score: 4.0	memory length: 334374	epsilon: 0.5359375000100743	steps: 298	lr: 1.6000000000000003e-05
episode: 1696	score: 2.0	memory length: 334592	epsilon: 0.5355058600100837	steps: 218	lr: 1.6000000000000003e-05
episode: 1697	score: 6.0	memory length: 334990	epsilon: 0.5347178200101008	steps: 398	lr: 1.6000000000000003e-05
episode: 1698	score: 3.0	memory length: 335236	epsilon: 0.5342307400101114	steps: 246	lr: 1.6000000000000003e-05
episode: 1699	score: 3.0	memory length: 335467	epsilon: 0.5337733600101213	steps: 231	lr: 1.6000000000000003e-05
episode: 1700	score: 2.0	memory length: 335666	epsilon: 0.5333793400101299	steps: 199	lr: 1.6000000000000003e-05
episode: 1701	score: 4.0	memory length: 335944	epsilon: 0.5328289000101418	steps: 278	lr: 1.6000000000000003e-05
episode: 1702	score: 1.0	memory length: 336096	epsilon: 0.5325279400101484	steps: 152	lr: 1.6000000000000003e-05
episode: 1703	score: 4.0	memory length: 336392	epsilon: 0.5319418600101611	steps: 296	lr: 1.6000000000000003e-05
episode: 1704	score: 4.0	memory length: 336692	epsilon: 0.5313478600101714	steps: 300	lr: 1.6000000000000003e-05
episode: 1705	score: 7.0	memory length: 337117	epsilon: 0.5305063600101922	steps: 425	lr: 1.6000000000000003e-05
episode: 1706	score: 5.0	memory length: 337430	epsilon: 0.5298866200102057	steps: 313	lr: 1.6000000000000003e-05
episode: 1707	score: 6.0	memory length: 337753	epsilon: 0.5292470800102196	steps: 323	lr: 1.6000000000000003e-05
episode: 1708	score: 5.0	memory length: 338062	epsilon: 0.5286352600102329	steps: 309	lr: 1.6000000000000003e-05
episode: 1709	score: 4.0	memory length: 338338	epsilon: 0.5280887800102447	steps: 276	lr: 1.6000000000000003e-05
episode: 1710	score: 8.0	memory length: 338766	epsilon: 0.5272413400102631	steps: 428	lr: 1.6000000000000003e-05
episode: 1711	score: 3.0	memory length: 338992	epsilon: 0.5267938600102728	steps: 226	lr: 1.6000000000000003e-05
episode: 1712	score: 4.0	memory length: 339268	epsilon: 0.5262473800102847	steps: 276	lr: 1.6000000000000003e-05
episode: 1713	score: 3.0	memory length: 339516	epsilon: 0.5257563400102954	steps: 248	lr: 1.6000000000000003e-05
episode: 1714	score: 3.0	memory length: 339748	epsilon: 0.5252969800103053	steps: 232	lr: 1.6000000000000003e-05
episode: 1715	score: 2.0	memory length: 339949	epsilon: 0.524899000010314	steps: 201	lr: 1.6000000000000003e-05
episode: 1716	score: 4.0	memory length: 340209	epsilon: 0.5243842000103252	steps: 260	lr: 1.6000000000000003e-05
episode: 1717	score: 2.0	memory length: 340428	epsilon: 0.5239505800103346	steps: 219	lr: 1.6000000000000003e-05
episode: 1718	score: 4.0	memory length: 340707	epsilon: 0.5233981600103466	steps: 279	lr: 1.6000000000000003e-05
episode: 1719	score: 4.0	memory length: 341003	epsilon: 0.5228120800103593	steps: 296	lr: 1.6000000000000003e-05
episode: 1720	score: 3.0	memory length: 341233	epsilon: 0.5223566800103692	steps: 230	lr: 1.6000000000000003e-05
episode: 1721	score: 3.0	memory length: 341481	epsilon: 0.5218656400103798	steps: 248	lr: 1.6000000000000003e-05
episode: 1722	score: 2.0	memory length: 341662	epsilon: 0.5215072600103876	steps: 181	lr: 1.6000000000000003e-05
episode: 1723	score: 4.0	memory length: 341938	epsilon: 0.5209607800103995	steps: 276	lr: 1.6000000000000003e-05
episode: 1724	score: 4.0	memory length: 342216	epsilon: 0.5204103400104114	steps: 278	lr: 1.6000000000000003e-05
episode: 1725	score: 7.0	memory length: 342579	epsilon: 0.519691600010427	steps: 363	lr: 1.6000000000000003e-05
episode: 1726	score: 6.0	memory length: 342955	epsilon: 0.5189471200104432	steps: 376	lr: 1.6000000000000003e-05
episode: 1727	score: 2.0	memory length: 343154	epsilon: 0.5185531000104517	steps: 199	lr: 1.6000000000000003e-05
episode: 1728	score: 3.0	memory length: 343398	epsilon: 0.5180699800104622	steps: 244	lr: 1.6000000000000003e-05
episode: 1729	score: 3.0	memory length: 343629	epsilon: 0.5176126000104722	steps: 231	lr: 1.6000000000000003e-05
episode: 1730	score: 7.0	memory length: 343997	epsilon: 0.516883960010488	steps: 368	lr: 1.6000000000000003e-05
episode: 1731	score: 3.0	memory length: 344224	epsilon: 0.5164345000104977	steps: 227	lr: 1.6000000000000003e-05
episode: 1732	score: 4.0	memory length: 344481	epsilon: 0.5159256400105088	steps: 257	lr: 1.6000000000000003e-05
episode: 1733	score: 4.0	memory length: 344759	epsilon: 0.5153752000105207	steps: 278	lr: 1.6000000000000003e-05
episode: 1734	score: 3.0	memory length: 344986	epsilon: 0.5149257400105305	steps: 227	lr: 1.6000000000000003e-05
episode: 1735	score: 4.0	memory length: 345284	epsilon: 0.5143357000105433	steps: 298	lr: 1.6000000000000003e-05
episode: 1736	score: 3.0	memory length: 345512	epsilon: 0.5138842600105531	steps: 228	lr: 1.6000000000000003e-05
episode: 1737	score: 5.0	memory length: 345817	epsilon: 0.5132803600105662	steps: 305	lr: 1.6000000000000003e-05
episode: 1738	score: 1.0	memory length: 345988	epsilon: 0.5129417800105736	steps: 171	lr: 1.6000000000000003e-05
episode: 1739	score: 4.0	memory length: 346264	epsilon: 0.5123953000105854	steps: 276	lr: 1.6000000000000003e-05
episode: 1740	score: 3.0	memory length: 346493	epsilon: 0.5119418800105953	steps: 229	lr: 1.6000000000000003e-05
episode: 1741	score: 2.0	memory length: 346692	epsilon: 0.5115478600106038	steps: 199	lr: 1.6000000000000003e-05
episode: 1742	score: 6.0	memory length: 347070	epsilon: 0.5107994200106201	steps: 378	lr: 1.6000000000000003e-05
episode: 1743	score: 2.0	memory length: 347272	epsilon: 0.5103994600106287	steps: 202	lr: 1.6000000000000003e-05
episode: 1744	score: 10.0	memory length: 347844	epsilon: 0.5092669900106533	steps: 572	lr: 1.6000000000000003e-05
episode: 1745	score: 3.0	memory length: 348071	epsilon: 0.5088174400106631	steps: 227	lr: 1.6000000000000003e-05
episode: 1746	score: 5.0	memory length: 348414	epsilon: 0.5081383000106778	steps: 343	lr: 1.6000000000000003e-05
episode: 1747	score: 1.0	memory length: 348566	epsilon: 0.5078373400106844	steps: 152	lr: 1.6000000000000003e-05
episode: 1748	score: 5.0	memory length: 348871	epsilon: 0.5072334400106975	steps: 305	lr: 1.6000000000000003e-05
episode: 1749	score: 7.0	memory length: 349250	epsilon: 0.5064830200107138	steps: 379	lr: 1.6000000000000003e-05
episode: 1750	score: 4.0	memory length: 349526	epsilon: 0.5059365400107256	steps: 276	lr: 1.6000000000000003e-05
episode: 1751	score: 3.0	memory length: 349773	epsilon: 0.5054474800107362	steps: 247	lr: 1.6000000000000003e-05
episode: 1752	score: 2.0	memory length: 349972	epsilon: 0.5050534600107448	steps: 199	lr: 1.6000000000000003e-05
episode: 1753	score: 3.0	memory length: 350204	epsilon: 0.5045941000107548	steps: 232	lr: 1.6000000000000003e-05
episode: 1754	score: 5.0	memory length: 350528	epsilon: 0.5039525800107687	steps: 324	lr: 1.6000000000000003e-05
episode: 1755	score: 3.0	memory length: 350755	epsilon: 0.5035031200107785	steps: 227	lr: 1.6000000000000003e-05
episode: 1756	score: 2.0	memory length: 350956	epsilon: 0.5031051400107871	steps: 201	lr: 1.6000000000000003e-05
episode: 1757	score: 7.0	memory length: 351358	epsilon: 0.5023091800108044	steps: 402	lr: 1.6000000000000003e-05
episode: 1758	score: 3.0	memory length: 351585	epsilon: 0.5018597200108141	steps: 227	lr: 1.6000000000000003e-05
episode: 1759	score: 3.0	memory length: 351832	epsilon: 0.5013706600108248	steps: 247	lr: 1.6000000000000003e-05
episode: 1760	score: 3.0	memory length: 352059	epsilon: 0.5009212000108345	steps: 227	lr: 1.6000000000000003e-05
episode: 1761	score: 7.0	memory length: 352448	epsilon: 0.5001509800108512	steps: 389	lr: 1.6000000000000003e-05
episode: 1762	score: 6.0	memory length: 352821	epsilon: 0.4994124400108508	steps: 373	lr: 1.6000000000000003e-05
episode: 1763	score: 3.0	memory length: 353036	epsilon: 0.4989867400108481	steps: 215	lr: 1.6000000000000003e-05
episode: 1764	score: 4.0	memory length: 353313	epsilon: 0.4984382800108446	steps: 277	lr: 1.6000000000000003e-05
episode: 1765	score: 3.0	memory length: 353542	epsilon: 0.49798486001084175	steps: 229	lr: 1.6000000000000003e-05
episode: 1766	score: 5.0	memory length: 353847	epsilon: 0.4973809600108379	steps: 305	lr: 1.6000000000000003e-05
episode: 1767	score: 4.0	memory length: 354123	epsilon: 0.49683448001083447	steps: 276	lr: 1.6000000000000003e-05
episode: 1768	score: 1.0	memory length: 354275	epsilon: 0.49653352001083256	steps: 152	lr: 1.6000000000000003e-05
episode: 1769	score: 3.0	memory length: 354522	epsilon: 0.49604446001082947	steps: 247	lr: 1.6000000000000003e-05
episode: 1770	score: 3.0	memory length: 354730	epsilon: 0.49563262001082686	steps: 208	lr: 1.6000000000000003e-05
episode: 1771	score: 3.0	memory length: 354957	epsilon: 0.495183160010824	steps: 227	lr: 1.6000000000000003e-05
episode: 1772	score: 3.0	memory length: 355183	epsilon: 0.4947356800108212	steps: 226	lr: 1.6000000000000003e-05
episode: 1773	score: 3.0	memory length: 355410	epsilon: 0.49428622001081834	steps: 227	lr: 1.6000000000000003e-05

episode: 1774	score: 4.0	memory length: 355686	epsilon: 0.4937397400108149	steps: 276	lr: 1.6000000000000003e-05
episode: 1775	score: 3.0	memory length: 355913	epsilon: 0.49329028001081204	steps: 227	lr: 1.6000000000000003e-05
episode: 1776	score: 4.0	memory length: 356174	epsilon: 0.4927735000108088	steps: 261	lr: 1.6000000000000003e-05
episode: 1777	score: 6.0	memory length: 356550	epsilon: 0.49202902001080406	steps: 376	lr: 1.6000000000000003e-05
episode: 1778	score: 5.0	memory length: 356856	epsilon: 0.49142314001080023	steps: 306	lr: 1.6000000000000003e-05
episode: 1779	score: 2.0	memory length: 357059	epsilon: 0.4910212000107977	steps: 203	lr: 1.6000000000000003e-05
episode: 1780	score: 8.0	memory length: 357523	epsilon: 0.4901024800107919	steps: 464	lr: 1.6000000000000003e-05
episode: 1781	score: 6.0	memory length: 357855	epsilon: 0.4894451200107877	steps: 332	lr: 1.6000000000000003e-05
episode: 1782	score: 5.0	memory length: 358178	epsilon: 0.48880558001078367	steps: 323	lr: 1.6000000000000003e-05
episode: 1783	score: 3.0	memory length: 358427	epsilon: 0.48831256001078055	steps: 249	lr: 1.6000000000000003e-05
episode: 1784	score: 3.0	memory length: 358658	epsilon: 0.48785518001077766	steps: 231	lr: 1.6000000000000003e-05
episode: 1785	score: 6.0	memory length: 358997	epsilon: 0.48718396001077734	steps: 339	lr: 1.6000000000000003e-05
episode: 1786	score: 2.0	memory length: 359179	epsilon: 0.48682360001077113	steps: 182	lr: 1.6000000000000003e-05
episode: 1787	score: 6.0	memory length: 359514	epsilon: 0.48616030001076693	steps: 335	lr: 1.6000000000000003e-05
episode: 1788	score: 3.0	memory length: 359745	epsilon: 0.48570292001076404	steps: 231	lr: 1.6000000000000003e-05
episode: 1789	score: 5.0	memory length: 360093	epsilon: 0.4850138800107597	steps: 348	lr: 1.6000000000000003e-05
episode: 1790	score: 5.0	memory length: 360423	epsilon: 0.48436048001075555	steps: 330	lr: 1.6000000000000003e-05
episode: 1791	score: 2.0	memory length: 360622	epsilon: 0.48396646001075305	steps: 199	lr: 1.6000000000000003e-05
episode: 1792	score: 3.0	memory length: 360849	epsilon: 0.4835170000107502	steps: 227	lr: 1.6000000000000003e-05
episode: 1793	score: 6.0	memory length: 361204	epsilon: 0.48281410001074576	steps: 355	lr: 1.6000000000000003e-05
episode: 1794	score: 3.0	memory length: 361417	epsilon: 0.4823923600107431	steps: 213	lr: 1.6000000000000003e-05
episode: 1795	score: 2.0	memory length: 361618	epsilon: 0.4819943800107406	steps: 201	lr: 1.6000000000000003e-05
episode: 1796	score: 4.0	memory length: 361894	epsilon: 0.4814479000107371	steps: 276	lr: 1.6000000000000003e-05
episode: 1797	score: 5.0	memory length: 362221	epsilon: 0.480800440010733	steps: 327	lr: 1.6000000000000003e-05
episode: 1798	score: 5.0	memory length: 362533	epsilon: 0.4801827800107291	steps: 312	lr: 1.6000000000000003e-05
episode: 1799	score: 5.0	memory length: 362844	epsilon: 0.4795669000107252	steps: 311	lr: 1.6000000000000003e-05
episode: 1800	score: 1.0	memory length: 362997	epsilon: 0.4792639600107233	steps: 153	lr: 1.6000000000000003e-05
episode: 1801	score: 3.0	memory length: 363208	epsilon: 0.47884618001072066	steps: 211	lr: 1.6000000000000003e-05
episode: 1802	score: 3.0	memory length: 363438	epsilon: 0.4783907800107178	steps: 230	lr: 1.6000000000000003e-05
episode: 1803	score: 10.0	memory length: 363822	epsilon: 0.47763046001071296	steps: 384	lr: 1.6000000000000003e-05
episode: 1804	score: 5.0	memory length: 364126	epsilon: 0.47702854001070916	steps: 304	lr: 1.6000000000000003e-05
episode: 1805	score: 3.0	memory length: 364337	epsilon: 0.4766107600107065	steps: 211	lr: 1.6000000000000003e-05
episode: 1806	score: 4.0	memory length: 364595	epsilon: 0.4760999200107033	steps: 258	lr: 1.6000000000000003e-05
episode: 1807	score: 3.0	memory length: 364806	epsilon: 0.47568214001070064	steps: 211	lr: 1.6000000000000003e-05
episode: 1808	score: 5.0	memory length: 365115	epsilon: 0.47507032001069677	steps: 309	lr: 1.6000000000000003e-05
episode: 1809	score: 3.0	memory length: 365328	epsilon: 0.4746485800106941	steps: 213	lr: 1.6000000000000003e-05
episode: 1810	score: 5.0	memory length: 365656	epsilon: 0.47399914001069	steps: 328	lr: 1.6000000000000003e-05
episode: 1811	score: 3.0	memory length: 365885	epsilon: 0.4735457200106871	steps: 229	lr: 1.6000000000000003e-05
episode: 1812	score: 5.0	memory length: 366235	epsilon: 0.47285272001068274	steps: 350	lr: 1.6000000000000003e-05
episode: 1813	score: 5.0	memory length: 366561	epsilon: 0.47220724001067865	steps: 326	lr: 1.6000000000000003e-05
episode: 1814	score: 3.0	memory length: 366792	epsilon: 0.47174986001067576	steps: 231	lr: 1.6000000000000003e-05
episode: 1815	score: 4.0	memory length: 367070	epsilon: 0.4711994200106723	steps: 278	lr: 1.6000000000000003e-05
episode: 1816	score: 3.0	memory length: 367297	epsilon: 0.47074996001066943	steps: 227	lr: 1.6000000000000003e-05
episode: 1817	score: 3.0	memory length: 367524	epsilon: 0.4703005000106666	steps: 227	lr: 1.6000000000000003e-05
episode: 1818	score: 8.0	memory length: 367958	epsilon: 0.46944118001066115	steps: 434	lr: 1.6000000000000003e-05
episode: 1819	score: 6.0	memory length: 368333	epsilon: 0.46869868001065645	steps: 375	lr: 1.6000000000000003e-05
episode: 1820	score: 4.0	memory length: 368586	epsilon: 0.4681977400106533	steps: 253	lr: 1.6000000000000003e-05
episode: 1821	score: 3.0	memory length: 368812	epsilon: 0.46775026001065045	steps: 226	lr: 1.6000000000000003e-05
episode: 1822	score: 4.0	memory length: 369087	epsilon: 0.467205760010647	steps: 275	lr: 1.6000000000000003e-05
episode: 1823	score: 3.0	memory length: 369297	epsilon: 0.4667899600106444	steps: 210	lr: 1.6000000000000003e-05
episode: 1824	score: 3.0	memory length: 369526	epsilon: 0.4663365400106415	steps: 229	lr: 1.6000000000000003e-05
episode: 1825	score: 5.0	memory length: 369889	epsilon: 0.46561780001063696	steps: 363	lr: 1.6000000000000003e-05
episode: 1826	score: 6.0	memory length: 370266	epsilon: 0.46487134001063224	steps: 377	lr: 1.6000000000000003e-05
episode: 1827	score: 3.0	memory length: 370496	epsilon: 0.46441594001062936	steps: 230	lr: 1.6000000000000003e-05
episode: 1828	score: 5.0	memory length: 370805	epsilon: 0.4638041200106255	steps: 309	lr: 1.6000000000000003e-05
episode: 1829	score: 2.0	memory length: 371007	epsilon: 0.46340416001062296	steps: 202	lr: 1.6000000000000003e-05
episode: 1830	score: 6.0	memory length: 371382	epsilon: 0.46266166001061826	steps: 375	lr: 1.6000000000000003e-05
episode: 1831	score: 8.0	memory length: 371774	epsilon: 0.46188550001061335	steps: 392	lr: 1.6000000000000003e-05
episode: 1832	score: 2.0	memory length: 371973	epsilon: 0.46149148001061086	steps: 199	lr: 1.6000000000000003e-05
episode: 1833	score: 3.0	memory length: 372223	epsilon: 0.4609964800106077	steps: 250	lr: 1.6000000000000003e-05
episode: 1834	score: 4.0	memory length: 372484	epsilon: 0.46047970001060445	steps: 261	lr: 1.6000000000000003e-05
episode: 1835	score: 6.0	memory length: 372841	epsilon: 0.4597728400106	steps: 357	lr: 1.6000000000000003e-05
episode: 1836	score: 4.0	memory length: 373117	epsilon: 0.4592263600105965	steps: 276	lr: 1.6000000000000003e-05
episode: 1837	score: 6.0	memory length: 373512	epsilon: 0.4584442600105916	steps: 395	lr: 1.6000000000000003e-05
episode: 1838	score: 5.0	memory length: 373835	epsilon: 0.45780472001058753	steps: 323	lr: 1.6000000000000003e-05
episode: 1839	score: 4.0	memory length: 374132	epsilon: 0.4572166600105838	steps: 297	lr: 1.6000000000000003e-05
episode: 1840	score: 2.0	memory length: 374353	epsilon: 0.45677908001058104	steps: 221	lr: 1.6000000000000003e-05
episode: 1841	score: 8.0	memory length: 374778	epsilon: 0.4559375800105757	steps: 425	lr: 1.6000000000000003e-05
episode: 1842	score: 4.0	memory length: 375054	epsilon: 0.45539110001057226	steps: 276	lr: 1.6000000000000003e-05
episode: 1843	score: 3.0	memory length: 375302	epsilon: 0.45490006001056915	steps: 248	lr: 1.6000000000000003e-05
episode: 1844	score: 5.0	memory length: 375627	epsilon: 0.4542565600105651	steps: 325	lr: 1.6000000000000003e-05
episode: 1845	score: 6.0	memory length: 376021	epsilon: 0.45347644001056014	steps: 394	lr: 1.6000000000000003e-05
episode: 1846	score: 2.0	memory length: 376243	epsilon: 0.45303688001055736	steps: 222	lr: 1.6000000000000003e-05
episode: 1847	score: 8.0	memory length: 376672	epsilon: 0.452187460010552	steps: 429	lr: 1.6000000000000003e-05
episode: 1848	score: 3.0	memory length: 376921	epsilon: 0.45169444001054887	steps: 249	lr: 1.6000000000000003e-05
episode: 1849	score: 3.0	memory length: 377188	epsilon: 0.4511657800105455	steps: 267	lr: 1.6000000000000003e-05
episode: 1850	score: 3.0	memory length: 377415	epsilon: 0.4507163200105427	steps: 227	lr: 1.6000000000000003e-05
episode: 1851	score: 3.0	memory length: 377647	epsilon: 0.4502569600105398	steps: 232	lr: 1.6000000000000003e-05
episode: 1852	score: 5.0	memory length: 377974	epsilon: 0.4496095000105357	steps: 327	lr: 1.6000000000000003e-05
episode: 1853	score: 5.0	memory length: 378281	epsilon: 0.44900164001053183	steps: 307	lr: 1.6000000000000003e-05
episode: 1854	score: 3.0	memory length: 378493	epsilon: 0.4485818800105292	steps: 212	lr: 1.6000000000000003e-05
episode: 1855	score: 4.0	memory length: 378774	epsilon: 0.44802550001052566	steps: 281	lr: 1.6000000000000003e-05
episode: 1856	score: 7.0	memory length: 379194	epsilon: 0.4471939000105204	steps: 420	lr: 1.6000000000000003e-05
episode: 1857	score: 4.0	memory length: 379491	epsilon: 0.4466058400105167	steps: 297	lr: 1.6000000000000003e-05
episode: 1858	score: 4.0	memory length: 379772	epsilon: 0.44604946001051315	steps: 281	lr: 1.6000000000000003e-05

episode: 1859	score: 3.0	memory length: 379999	epsilon: 0.4456000000105103	steps: 227	lr: 1.600000000000003e-05
episode: 1860	score: 2.0	memory length: 380198	epsilon: 0.4452059800105078	steps: 199	lr: 1.600000000000003e-05
episode: 1861	score: 3.0	memory length: 380425	epsilon: 0.4447565200105055	steps: 227	lr: 1.600000000000003e-05
episode: 1862	score: 4.0	memory length: 380704	epsilon: 0.4442041000105015	steps: 279	lr: 1.600000000000003e-05
episode: 1863	score: 3.0	memory length: 380952	epsilon: 0.4437130600104984	steps: 248	lr: 1.600000000000003e-05
episode: 1864	score: 6.0	memory length: 381306	epsilon: 0.44301214001049394	steps: 354	lr: 1.600000000000003e-05
episode: 1865	score: 3.0	memory length: 381533	epsilon: 0.4425626800104911	steps: 227	lr: 1.600000000000003e-05
episode: 1866	score: 6.0	memory length: 381906	epsilon: 0.4418241400104864	steps: 373	lr: 1.600000000000003e-05
episode: 1867	score: 2.0	memory length: 382105	epsilon: 0.44143012001048393	steps: 199	lr: 1.600000000000003e-05
episode: 1868	score: 3.0	memory length: 382332	epsilon: 0.4409806600104811	steps: 227	lr: 1.600000000000003e-05
episode: 1869	score: 4.0	memory length: 382607	epsilon: 0.44043616001047764	steps: 275	lr: 1.600000000000003e-05
episode: 1870	score: 4.0	memory length: 382865	epsilon: 0.4399253200104744	steps: 258	lr: 1.600000000000003e-05
episode: 1871	score: 6.0	memory length: 383201	epsilon: 0.4392600400104702	steps: 336	lr: 1.600000000000003e-05
episode: 1872	score: 2.0	memory length: 383402	epsilon: 0.4388620600104677	steps: 201	lr: 1.600000000000003e-05
episode: 1873	score: 4.0	memory length: 383657	epsilon: 0.4383571600104645	steps: 255	lr: 1.600000000000003e-05
episode: 1874	score: 4.0	memory length: 383934	epsilon: 0.437808700010461	steps: 277	lr: 1.600000000000003e-05
episode: 1875	score: 5.0	memory length: 384280	epsilon: 0.4371236200104567	steps: 346	lr: 1.600000000000003e-05
episode: 1876	score: 3.0	memory length: 384509	epsilon: 0.4366702000104538	steps: 229	lr: 1.600000000000003e-05
episode: 1877	score: 2.0	memory length: 384692	epsilon: 0.4363078600104515	steps: 183	lr: 1.600000000000003e-05
episode: 1878	score: 8.0	memory length: 385115	epsilon: 0.4354703200104462	steps: 423	lr: 1.600000000000003e-05
episode: 1879	score: 5.0	memory length: 385397	epsilon: 0.4349119600104427	steps: 282	lr: 1.600000000000003e-05
episode: 1880	score: 3.0	memory length: 385644	epsilon: 0.4344229000104396	steps: 247	lr: 1.600000000000003e-05
episode: 1881	score: 5.0	memory length: 385972	epsilon: 0.4337734600104355	steps: 328	lr: 1.600000000000003e-05
episode: 1882	score: 3.0	memory length: 386203	epsilon: 0.4333160800104326	steps: 231	lr: 1.600000000000003e-05
episode: 1883	score: 3.0	memory length: 386434	epsilon: 0.4328587000104297	steps: 231	lr: 1.600000000000003e-05
episode: 1884	score: 7.0	memory length: 386796	epsilon: 0.43214194001042516	steps: 362	lr: 1.600000000000003e-05
episode: 1885	score: 5.0	memory length: 387106	epsilon: 0.4315281400104213	steps: 310	lr: 1.600000000000003e-05
episode: 1886	score: 3.0	memory length: 387352	epsilon: 0.4310410600104182	steps: 246	lr: 1.600000000000003e-05
episode: 1887	score: 4.0	memory length: 387646	epsilon: 0.4304589400104145	steps: 294	lr: 1.600000000000003e-05
episode: 1888	score: 5.0	memory length: 387933	epsilon: 0.4298906800104109	steps: 287	lr: 1.600000000000003e-05
episode: 1889	score: 3.0	memory length: 388162	epsilon: 0.42943726001040805	steps: 229	lr: 1.600000000000003e-05
episode: 1890	score: 2.0	memory length: 388361	epsilon: 0.42904324001040556	steps: 199	lr: 1.600000000000003e-05
episode: 1891	score: 7.0	memory length: 388789	epsilon: 0.4281958000104002	steps: 428	lr: 1.600000000000003e-05
episode: 1892	score: 6.0	memory length: 389163	epsilon: 0.4274552800103955	steps: 374	lr: 1.600000000000003e-05
episode: 1893	score: 3.0	memory length: 389392	epsilon: 0.42700186001039264	steps: 229	lr: 1.600000000000003e-05
episode: 1894	score: 5.0	memory length: 389697	epsilon: 0.4263979600103888	steps: 305	lr: 1.600000000000003e-05
episode: 1895	score: 1.0	memory length: 389849	epsilon: 0.4260970000103869	steps: 152	lr: 1.600000000000003e-05
episode: 1896	score: 3.0	memory length: 390096	epsilon: 0.4256079400103838	steps: 247	lr: 1.600000000000003e-05
episode: 1897	score: 4.0	memory length: 390374	epsilon: 0.42505750001038034	steps: 278	lr: 1.600000000000003e-05
episode: 1898	score: 6.0	memory length: 390728	epsilon: 0.4243565800103759	steps: 354	lr: 1.600000000000003e-05
episode: 1899	score: 4.0	memory length: 391012	epsilon: 0.42379426001037235	steps: 284	lr: 1.600000000000003e-05
episode: 1900	score: 6.0	memory length: 391367	epsilon: 0.4230913600103679	steps: 355	lr: 1.600000000000003e-05
episode: 1901	score: 6.0	memory length: 391720	epsilon: 0.4223924200103635	steps: 353	lr: 1.600000000000003e-05
episode: 1902	score: 5.0	memory length: 392044	epsilon: 0.4217509000103594	steps: 324	lr: 1.600000000000003e-05
episode: 1903	score: 3.0	memory length: 392271	epsilon: 0.4213014400103566	steps: 227	lr: 1.600000000000003e-05
episode: 1904	score: 3.0	memory length: 392498	epsilon: 0.42085198001035373	steps: 227	lr: 1.600000000000003e-05
episode: 1905	score: 4.0	memory length: 392774	epsilon: 0.4203055000103503	steps: 276	lr: 1.600000000000003e-05
episode: 1906	score: 4.0	memory length: 393054	epsilon: 0.41975110001034677	steps: 280	lr: 1.600000000000003e-05
episode: 1907	score: 5.0	memory length: 393377	epsilon: 0.4191115600103427	steps: 323	lr: 1.600000000000003e-05
episode: 1908	score: 4.0	memory length: 393653	epsilon: 0.41856508001033926	steps: 276	lr: 1.600000000000003e-05
episode: 1909	score: 4.0	memory length: 393970	epsilon: 0.4179374200103353	steps: 317	lr: 1.600000000000003e-05
episode: 1910	score: 6.0	memory length: 394306	epsilon: 0.4172721400103311	steps: 336	lr: 1.600000000000003e-05
episode: 1911	score: 4.0	memory length: 394573	epsilon: 0.41674348001032774	steps: 267	lr: 1.600000000000003e-05
episode: 1912	score: 4.0	memory length: 394849	epsilon: 0.4161970000103243	steps: 276	lr: 1.600000000000003e-05
episode: 1913	score: 5.0	memory length: 395146	epsilon: 0.41560894001032056	steps: 297	lr: 1.600000000000003e-05
episode: 1914	score: 8.0	memory length: 395591	epsilon: 0.414727840010315	steps: 445	lr: 1.600000000000003e-05
episode: 1915	score: 4.0	memory length: 395847	epsilon: 0.4142209600103118	steps: 256	lr: 1.600000000000003e-05
episode: 1916	score: 3.0	memory length: 396077	epsilon: 0.4137655600103089	steps: 230	lr: 1.600000000000003e-05
episode: 1917	score: 4.0	memory length: 396353	epsilon: 0.41321908001030544	steps: 276	lr: 1.600000000000003e-05
episode: 1918	score: 6.0	memory length: 396711	epsilon: 0.41251024001030095	steps: 358	lr: 1.600000000000003e-05
episode: 1919	score: 4.0	memory length: 396954	epsilon: 0.4120291000102979	steps: 243	lr: 1.600000000000003e-05
episode: 1920	score: 4.0	memory length: 397217	epsilon: 0.4115083600102946	steps: 263	lr: 1.600000000000003e-05
episode: 1921	score: 3.0	memory length: 397431	epsilon: 0.41108464001029194	steps: 214	lr: 1.600000000000003e-05
episode: 1922	score: 5.0	memory length: 397737	epsilon: 0.4104787600102881	steps: 306	lr: 1.600000000000003e-05
episode: 1923	score: 6.0	memory length: 398113	epsilon: 0.4097342800102834	steps: 376	lr: 1.600000000000003e-05
episode: 1924	score: 2.0	memory length: 398312	epsilon: 0.4093402600102809	steps: 199	lr: 1.600000000000003e-05
episode: 1925	score: 4.0	memory length: 398598	epsilon: 0.4087739800102773	steps: 286	lr: 1.600000000000003e-05
episode: 1926	score: 4.0	memory length: 398873	epsilon: 0.40822948001027387	steps: 275	lr: 1.600000000000003e-05
episode: 1927	score: 3.0	memory length: 399104	epsilon: 0.407772100010271	steps: 231	lr: 1.600000000000003e-05
episode: 1928	score: 6.0	memory length: 399473	epsilon: 0.40704148001026635	steps: 369	lr: 1.600000000000003e-05
episode: 1929	score: 6.0	memory length: 399846	epsilon: 0.4063029400102617	steps: 373	lr: 1.600000000000003e-05
episode: 1930	score: 3.0	memory length: 400073	epsilon: 0.40585348001025884	steps: 227	lr: 6.400000000000001e-06
episode: 1931	score: 7.0	memory length: 400499	epsilon: 0.4050100000102535	steps: 426	lr: 6.400000000000001e-06
episode: 1932	score: 3.0	memory length: 400729	epsilon: 0.4045546000102506	steps: 230	lr: 6.400000000000001e-06
episode: 1933	score: 5.0	memory length: 401020	epsilon: 0.403978420010247	steps: 291	lr: 6.400000000000001e-06
episode: 1934	score: 4.0	memory length: 401263	epsilon: 0.40349728001024393	steps: 243	lr: 6.400000000000001e-06
episode: 1935	score: 2.0	memory length: 401446	epsilon: 0.40313494001024164	steps: 183	lr: 6.400000000000001e-06
episode: 1936	score: 4.0	memory length: 401740	epsilon: 0.40255282001023796	steps: 294	lr: 6.400000000000001e-06
episode: 1937	score: 4.0	memory length: 402016	epsilon: 0.4020063400102345	steps: 276	lr: 6.400000000000001e-06
episode: 1938	score: 4.0	memory length: 402291	epsilon: 0.40146184001023105	steps: 275	lr: 6.400000000000001e-06
episode: 1939	score: 7.0	memory length: 402698	epsilon: 0.40065598001022595	steps: 407	lr: 6.400000000000001e-06
episode: 1940	score: 6.0	memory length: 403073	epsilon: 0.39991348001022126	steps: 375	lr: 6.400000000000001e-06
episode: 1941	score: 5.0	memory length: 403401	epsilon: 0.39926404001021715	steps: 328	lr: 6.400000000000001e-06
episode: 1942	score: 4.0	memory length: 403679	epsilon: 0.39871360001021366	steps: 278	lr: 6.400000000000001e-06
episode: 1943	score: 5.0	memory length: 403986	epsilon: 0.3981057400102098	steps: 307	lr: 6.400000000000001e-06

episode: 1944	score: 7.0	memory length: 404394	epsilon: 0.3972979000102047	steps: 408	lr: 6.400000000000001e-06
episode: 1945	score: 5.0	memory length: 404720	epsilon: 0.3966524200102006	steps: 326	lr: 6.400000000000001e-06
episode: 1946	score: 6.0	memory length: 405077	epsilon: 0.39594556001019615	steps: 357	lr: 6.400000000000001e-06
episode: 1947	score: 9.0	memory length: 405538	epsilon: 0.3950327800101904	steps: 461	lr: 6.400000000000001e-06
episode: 1948	score: 6.0	memory length: 405874	epsilon: 0.39436750001018617	steps: 336	lr: 6.400000000000001e-06
episode: 1949	score: 5.0	memory length: 406201	epsilon: 0.39372004001018207	steps: 327	lr: 6.400000000000001e-06
episode: 1950	score: 4.0	memory length: 406477	epsilon: 0.3931735600101786	steps: 276	lr: 6.400000000000001e-06
episode: 1951	score: 4.0	memory length: 406719	epsilon: 0.3926944000101756	steps: 242	lr: 6.400000000000001e-06
episode: 1952	score: 3.0	memory length: 406948	epsilon: 0.3922409800101727	steps: 229	lr: 6.400000000000001e-06
episode: 1953	score: 5.0	memory length: 407239	epsilon: 0.39166480001016907	steps: 291	lr: 6.400000000000001e-06
episode: 1954	score: 4.0	memory length: 407521	epsilon: 0.39110644001016553	steps: 282	lr: 6.400000000000001e-06
episode: 1955	score: 6.0	memory length: 407857	epsilon: 0.3904411600101613	steps: 336	lr: 6.400000000000001e-06
episode: 1956	score: 5.0	memory length: 408201	epsilon: 0.389760040010157	steps: 344	lr: 6.400000000000001e-06
episode: 1957	score: 4.0	memory length: 408457	epsilon: 0.3892531600101538	steps: 256	lr: 6.400000000000001e-06
episode: 1958	score: 4.0	memory length: 408713	epsilon: 0.3887462800101506	steps: 256	lr: 6.400000000000001e-06
episode: 1959	score: 4.0	memory length: 408990	epsilon: 0.38819782001014713	steps: 277	lr: 6.400000000000001e-06
episode: 1960	score: 5.0	memory length: 409282	epsilon: 0.3876196600101435	steps: 292	lr: 6.400000000000001e-06
episode: 1961	score: 5.0	memory length: 409627	epsilon: 0.38693656001013915	steps: 345	lr: 6.400000000000001e-06
episode: 1962	score: 3.0	memory length: 409858	epsilon: 0.38647918001013626	steps: 231	lr: 6.400000000000001e-06
episode: 1963	score: 7.0	memory length: 410248	epsilon: 0.3857069800101314	steps: 390	lr: 6.400000000000001e-06
episode: 1964	score: 4.0	memory length: 410506	epsilon: 0.38519614001012814	steps: 258	lr: 6.400000000000001e-06
episode: 1965	score: 5.0	memory length: 410795	epsilon: 0.3846239200101245	steps: 289	lr: 6.400000000000001e-06
episode: 1966	score: 5.0	memory length: 411122	epsilon: 0.3839764600101204	steps: 327	lr: 6.400000000000001e-06
episode: 1967	score: 6.0	memory length: 411479	epsilon: 0.38326960001011595	steps: 357	lr: 6.400000000000001e-06
episode: 1968	score: 5.0	memory length: 411804	epsilon: 0.3826261000101119	steps: 325	lr: 6.400000000000001e-06
episode: 1969	score: 4.0	memory length: 412064	epsilon: 0.382113000101086	steps: 260	lr: 6.400000000000001e-06
episode: 1970	score: 3.0	memory length: 412293	epsilon: 0.38165788001010575	steps: 229	lr: 6.400000000000001e-06
episode: 1971	score: 3.0	memory length: 412524	epsilon: 0.38120050001010286	steps: 231	lr: 6.400000000000001e-06
episode: 1972	score: 3.0	memory length: 412753	epsilon: 0.3807470800101	steps: 229	lr: 6.400000000000001e-06
episode: 1973	score: 2.0	memory length: 412954	epsilon: 0.3803491000100975	steps: 201	lr: 6.400000000000001e-06
episode: 1974	score: 4.0	memory length: 413233	epsilon: 0.379796680010094	steps: 279	lr: 6.400000000000001e-06
episode: 1975	score: 3.0	memory length: 413483	epsilon: 0.37930168001009085	steps: 250	lr: 6.400000000000001e-06
episode: 1976	score: 3.0	memory length: 413717	epsilon: 0.3788383600100879	steps: 234	lr: 6.400000000000001e-06
episode: 1977	score: 6.0	memory length: 414075	epsilon: 0.37812952001008343	steps: 358	lr: 6.400000000000001e-06
episode: 1978	score: 3.0	memory length: 414303	epsilon: 0.3776780800100806	steps: 228	lr: 6.400000000000001e-06
episode: 1979	score: 6.0	memory length: 414658	epsilon: 0.3769751800100761	steps: 355	lr: 6.400000000000001e-06
episode: 1980	score: 6.0	memory length: 414992	epsilon: 0.37631386001007194	steps: 334	lr: 6.400000000000001e-06
episode: 1981	score: 2.0	memory length: 415193	epsilon: 0.3759158800100694	steps: 201	lr: 6.400000000000001e-06
episode: 1982	score: 3.0	memory length: 415425	epsilon: 0.3754565200100665	steps: 232	lr: 6.400000000000001e-06
episode: 1983	score: 6.0	memory length: 415798	epsilon: 0.37471798001006185	steps: 373	lr: 6.400000000000001e-06
episode: 1984	score: 8.0	memory length: 416077	epsilon: 0.37416556001005835	steps: 279	lr: 6.400000000000001e-06
episode: 1985	score: 5.0	memory length: 416422	epsilon: 0.37348246001005403	steps: 345	lr: 6.400000000000001e-06
episode: 1986	score: 4.0	memory length: 416702	epsilon: 0.3729280600100505	steps: 280	lr: 6.400000000000001e-06
episode: 1987	score: 5.0	memory length: 417027	epsilon: 0.37228456001004645	steps: 325	lr: 6.400000000000001e-06
episode: 1988	score: 6.0	memory length: 417350	epsilon: 0.3716450200100424	steps: 323	lr: 6.400000000000001e-06
episode: 1989	score: 3.0	memory length: 417599	epsilon: 0.3711520000100393	steps: 249	lr: 6.400000000000001e-06
episode: 1990	score: 4.0	memory length: 417874	epsilon: 0.37060750001003584	steps: 275	lr: 6.400000000000001e-06
episode: 1991	score: 3.0	memory length: 418104	epsilon: 0.37015210001003296	steps: 230	lr: 6.400000000000001e-06
episode: 1992	score: 6.0	memory length: 418478	epsilon: 0.3694115800100283	steps: 374	lr: 6.400000000000001e-06
episode: 1993	score: 7.0	memory length: 418848	epsilon: 0.36867898001002364	steps: 370	lr: 6.400000000000001e-06
episode: 1994	score: 3.0	memory length: 419078	epsilon: 0.36822358001002076	steps: 230	lr: 6.400000000000001e-06
episode: 1995	score: 4.0	memory length: 419353	epsilon: 0.3676790800100173	steps: 275	lr: 6.400000000000001e-06
episode: 1996	score: 4.0	memory length: 419613	epsilon: 0.36716428001001405	steps: 260	lr: 6.400000000000001e-06
episode: 1997	score: 6.0	memory length: 419989	epsilon: 0.36641980001000934	steps: 376	lr: 6.400000000000001e-06
episode: 1998	score: 7.0	memory length: 420339	epsilon: 0.36572680001000496	steps: 350	lr: 6.400000000000001e-06
episode: 1999	score: 6.0	memory length: 420676	epsilon: 0.36505954001000074	steps: 337	lr: 6.400000000000001e-06
episode: 2000	score: 7.0	memory length: 421076	epsilon: 0.3642675400099957	steps: 400	lr: 6.400000000000001e-06
episode: 2001	score: 4.0	memory length: 421374	epsilon: 0.363677500009992	steps: 298	lr: 6.400000000000001e-06
episode: 2002	score: 4.0	memory length: 421634	epsilon: 0.36316270000998874	steps: 260	lr: 6.400000000000001e-06
episode: 2003	score: 6.0	memory length: 421953	epsilon: 0.36253108000998474	steps: 319	lr: 6.400000000000001e-06
episode: 2004	score: 4.0	memory length: 422229	epsilon: 0.3619846000099813	steps: 276	lr: 6.400000000000001e-06
episode: 2005	score: 4.0	memory length: 422492	epsilon: 0.361463860009978	steps: 263	lr: 6.400000000000001e-06
episode: 2006	score: 3.0	memory length: 422702	epsilon: 0.36104806000997536	steps: 210	lr: 6.400000000000001e-06
episode: 2007	score: 8.0	memory length: 423178	epsilon: 0.3601055800099694	steps: 476	lr: 6.400000000000001e-06
episode: 2008	score: 5.0	memory length: 423469	epsilon: 0.35952940000996575	steps: 291	lr: 6.400000000000001e-06
episode: 2009	score: 5.0	memory length: 423793	epsilon: 0.3588878800099617	steps: 324	lr: 6.400000000000001e-06
episode: 2010	score: 8.0	memory length: 424228	epsilon: 0.35802658000995624	steps: 435	lr: 6.400000000000001e-06
episode: 2011	score: 5.0	memory length: 424553	epsilon: 0.35738308000995217	steps: 325	lr: 6.400000000000001e-06
episode: 2012	score: 7.0	memory length: 424956	epsilon: 0.3565851400099471	steps: 403	lr: 6.400000000000001e-06
episode: 2013	score: 6.0	memory length: 425298	epsilon: 0.35590798000994284	steps: 342	lr: 6.400000000000001e-06
episode: 2014	score: 7.0	memory length: 425705	epsilon: 0.35510212000993774	steps: 407	lr: 6.400000000000001e-06
episode: 2015	score: 5.0	memory length: 426032	epsilon: 0.35445466000993364	steps: 327	lr: 6.400000000000001e-06
episode: 2016	score: 6.0	memory length: 426392	epsilon: 0.35374186000992913	steps: 360	lr: 6.400000000000001e-06
episode: 2017	score: 5.0	memory length: 426683	epsilon: 0.3531656800099255	steps: 291	lr: 6.400000000000001e-06
episode: 2018	score: 5.0	memory length: 426988	epsilon: 0.35256178000992167	steps: 305	lr: 6.400000000000001e-06
episode: 2019	score: 6.0	memory length: 427313	epsilon: 0.3519182800099176	steps: 325	lr: 6.400000000000001e-06
episode: 2020	score: 4.0	memory length: 427612	epsilon: 0.35132626000991385	steps: 299	lr: 6.400000000000001e-06
episode: 2021	score: 3.0	memory length: 427859	epsilon: 0.35083720000991075	steps: 247	lr: 6.400000000000001e-06
episode: 2022	score: 5.0	memory length: 428193	epsilon: 0.35017588000990657	steps: 334	lr: 6.400000000000001e-06
episode: 2023	score: 4.0	memory length: 428469	epsilon: 0.3496294000099031	steps: 276	lr: 6.400000000000001e-06
episode: 2024	score: 6.0	memory length: 428816	epsilon: 0.34894234000989877	steps: 347	lr: 6.400000000000001e-06
episode: 2025	score: 7.0	memory length: 429220	epsilon: 0.3481424200098937	steps: 404	lr: 6.400000000000001e-06
episode: 2026	score: 4.0	memory length: 429521	epsilon: 0.34754644000988993	steps: 301	lr: 6.400000000000001e-06
episode: 2027	score: 3.0	memory length: 429731	epsilon: 0.3471306400098873	steps: 210	lr: 6.400000000000001e-06
episode: 2028	score: 9.0	memory length: 430200	epsilon: 0.34620202000988143	steps: 469	lr: 6.400000000000001e-06

episode:	score:	memory	length:	epsilon:	steps:	lr:
episode: 2029	score: 4.0	memory	length: 430482	epsilon: 0.3456436600098779	steps: 282	lr: 6.400000000000001e-06
episode: 2030	score: 3.0	memory	length: 430713	epsilon: 0.345186280009875	steps: 231	lr: 6.400000000000001e-06
episode: 2031	score: 4.0	memory	length: 430956	epsilon: 0.34470514000987196	steps: 243	lr: 6.400000000000001e-06
episode: 2032	score: 6.0	memory	length: 431304	epsilon: 0.3440161000098676	steps: 348	lr: 6.400000000000001e-06
episode: 2033	score: 6.0	memory	length: 431665	epsilon: 0.3433013200098631	steps: 361	lr: 6.400000000000001e-06
episode: 2034	score: 5.0	memory	length: 431970	epsilon: 0.34269742000985925	steps: 305	lr: 6.400000000000001e-06
episode: 2035	score: 6.0	memory	length: 432311	epsilon: 0.342022240009855	steps: 341	lr: 6.400000000000001e-06
episode: 2036	score: 3.0	memory	length: 432541	epsilon: 0.3415668400098521	steps: 230	lr: 6.400000000000001e-06
episode: 2037	score: 4.0	memory	length: 432840	epsilon: 0.34097482000984836	steps: 299	lr: 6.400000000000001e-06
episode: 2038	score: 6.0	memory	length: 433204	epsilon: 0.3402541000098438	steps: 364	lr: 6.400000000000001e-06
episode: 2039	score: 5.0	memory	length: 433511	epsilon: 0.33964624000983995	steps: 307	lr: 6.400000000000001e-06
episode: 2040	score: 5.0	memory	length: 433817	epsilon: 0.3390403600098361	steps: 306	lr: 6.400000000000001e-06
episode: 2041	score: 5.0	memory	length: 434124	epsilon: 0.33843250000983227	steps: 307	lr: 6.400000000000001e-06
episode: 2042	score: 5.0	memory	length: 434413	epsilon: 0.33786028000982865	steps: 289	lr: 6.400000000000001e-06
episode: 2043	score: 5.0	memory	length: 434723	epsilon: 0.33724648000982477	steps: 310	lr: 6.400000000000001e-06
episode: 2044	score: 4.0	memory	length: 434984	epsilon: 0.3367297000098215	steps: 261	lr: 6.400000000000001e-06
episode: 2045	score: 6.0	memory	length: 435360	epsilon: 0.3359852200098168	steps: 376	lr: 6.400000000000001e-06
episode: 2046	score: 2.0	memory	length: 435561	epsilon: 0.33558724000981427	steps: 201	lr: 6.400000000000001e-06
episode: 2047	score: 6.0	memory	length: 435903	epsilon: 0.33491008000981	steps: 342	lr: 6.400000000000001e-06
episode: 2048	score: 5.0	memory	length: 436231	epsilon: 0.3342606400098059	steps: 328	lr: 6.400000000000001e-06
episode: 2049	score: 5.0	memory	length: 436560	epsilon: 0.33360922000980175	steps: 329	lr: 6.400000000000001e-06
episode: 2050	score: 4.0	memory	length: 436818	epsilon: 0.3330983800097985	steps: 258	lr: 6.400000000000001e-06
episode: 2051	score: 7.0	memory	length: 437180	epsilon: 0.332381620009794	steps: 362	lr: 6.400000000000001e-06
episode: 2052	score: 8.0	memory	length: 437614	epsilon: 0.33152230000978855	steps: 434	lr: 6.400000000000001e-06
episode: 2053	score: 9.0	memory	length: 438089	epsilon: 0.3305818000097826	steps: 475	lr: 6.400000000000001e-06
episode: 2054	score: 4.0	memory	length: 438365	epsilon: 0.33003532000977914	steps: 276	lr: 6.400000000000001e-06
episode: 2055	score: 4.0	memory	length: 438625	epsilon: 0.3295205200097759	steps: 260	lr: 6.400000000000001e-06
episode: 2056	score: 5.0	memory	length: 438934	epsilon: 0.328908700009772	steps: 309	lr: 6.400000000000001e-06
episode: 2057	score: 4.0	memory	length: 439177	epsilon: 0.32842756000976897	steps: 243	lr: 6.400000000000001e-06
episode: 2058	score: 5.0	memory	length: 439500	epsilon: 0.3277880200097649	steps: 323	lr: 6.400000000000001e-06
episode: 2059	score: 6.0	memory	length: 439877	epsilon: 0.3270415600097602	steps: 377	lr: 6.400000000000001e-06
episode: 2060	score: 4.0	memory	length: 440160	epsilon: 0.32648122000975666	steps: 283	lr: 6.400000000000001e-06
episode: 2061	score: 2.0	memory	length: 440341	epsilon: 0.3261228400097544	steps: 181	lr: 6.400000000000001e-06
episode: 2062	score: 4.0	memory	length: 440622	epsilon: 0.32556646000975087	steps: 281	lr: 6.400000000000001e-06
episode: 2063	score: 7.0	memory	length: 441030	epsilon: 0.32475862000974576	steps: 408	lr: 6.400000000000001e-06
episode: 2064	score: 5.0	memory	length: 441336	epsilon: 0.3241527400097419	steps: 306	lr: 6.400000000000001e-06
episode: 2065	score: 4.0	memory	length: 441615	epsilon: 0.32360032000973843	steps: 279	lr: 6.400000000000001e-06
episode: 2066	score: 5.0	memory	length: 441926	epsilon: 0.32298454000973453	steps: 311	lr: 6.400000000000001e-06
episode: 2067	score: 5.0	memory	length: 442236	epsilon: 0.32237074000973065	steps: 310	lr: 6.400000000000001e-06
episode: 2068	score: 4.0	memory	length: 442495	epsilon: 0.3218579200097274	steps: 259	lr: 6.400000000000001e-06
episode: 2069	score: 6.0	memory	length: 442870	epsilon: 0.3211154200097227	steps: 375	lr: 6.400000000000001e-06
episode: 2070	score: 7.0	memory	length: 443293	epsilon: 0.3202778800097174	steps: 423	lr: 6.400000000000001e-06
episode: 2071	score: 5.0	memory	length: 443619	epsilon: 0.3196324000097133	steps: 326	lr: 6.400000000000001e-06
episode: 2072	score: 5.0	memory	length: 443928	epsilon: 0.31902058000970945	steps: 309	lr: 6.400000000000001e-06
episode: 2073	score: 5.0	memory	length: 444216	epsilon: 0.31845034000970585	steps: 288	lr: 6.400000000000001e-06
episode: 2074	score: 3.0	memory	length: 444448	epsilon: 0.31799098000970294	steps: 232	lr: 6.400000000000001e-06
episode: 2075	score: 3.0	memory	length: 444660	epsilon: 0.3175712200097003	steps: 212	lr: 6.400000000000001e-06
episode: 2076	score: 4.0	memory	length: 444919	epsilon: 0.31705840000969704	steps: 259	lr: 6.400000000000001e-06
episode: 2077	score: 6.0	memory	length: 445230	epsilon: 0.31644262000969314	steps: 311	lr: 6.400000000000001e-06
episode: 2078	score: 6.0	memory	length: 445585	epsilon: 0.3157397200096887	steps: 355	lr: 6.400000000000001e-06
episode: 2079	score: 8.0	memory	length: 446027	epsilon: 0.31486456000968316	steps: 442	lr: 6.400000000000001e-06
episode: 2080	score: 4.0	memory	length: 446270	epsilon: 0.3143834200096801	steps: 243	lr: 6.400000000000001e-06
episode: 2081	score: 5.0	memory	length: 446577	epsilon: 0.31377556000967627	steps: 307	lr: 6.400000000000001e-06
episode: 2082	score: 4.0	memory	length: 446856	epsilon: 0.3132231400096728	steps: 279	lr: 6.400000000000001e-06
episode: 2083	score: 6.0	memory	length: 447196	epsilon: 0.3125499400096685	steps: 340	lr: 6.400000000000001e-06
episode: 2084	score: 3.0	memory	length: 447426	epsilon: 0.31209454000966563	steps: 230	lr: 6.400000000000001e-06
episode: 2085	score: 5.0	memory	length: 447750	epsilon: 0.3114530200096616	steps: 324	lr: 6.400000000000001e-06
episode: 2086	score: 6.0	memory	length: 448094	epsilon: 0.31077190000965726	steps: 344	lr: 6.400000000000001e-06
episode: 2087	score: 6.0	memory	length: 448475	epsilon: 0.3100175200096525	steps: 381	lr: 6.400000000000001e-06
episode: 2088	score: 13.0	memory	length: 449016	epsilon: 0.3089463400096457	steps: 541	lr: 6.400000000000001e-06
episode: 2089	score: 6.0	memory	length: 449355	epsilon: 0.30827512000964147	steps: 339	lr: 6.400000000000001e-06
episode: 2090	score: 6.0	memory	length: 449748	epsilon: 0.30749698000963654	steps: 393	lr: 6.400000000000001e-06
episode: 2091	score: 3.0	memory	length: 449958	epsilon: 0.3070811800096339	steps: 210	lr: 6.400000000000001e-06
episode: 2092	score: 4.0	memory	length: 450220	epsilon: 0.30656242000963063	steps: 262	lr: 6.400000000000001e-06
episode: 2093	score: 4.0	memory	length: 450476	epsilon: 0.3060555400096274	steps: 256	lr: 6.400000000000001e-06
episode: 2094	score: 4.0	memory	length: 450751	epsilon: 0.305511040009624	steps: 275	lr: 6.400000000000001e-06
episode: 2095	score: 4.0	memory	length: 451010	epsilon: 0.30499822000962074	steps: 259	lr: 6.400000000000001e-06
episode: 2096	score: 12.0	memory	length: 451582	epsilon: 0.30386566000961357	steps: 572	lr: 6.400000000000001e-06
episode: 2097	score: 8.0	memory	length: 452014	epsilon: 0.30301030000960816	steps: 432	lr: 6.400000000000001e-06
episode: 2098	score: 4.0	memory	length: 452290	epsilon: 0.3024638200096047	steps: 276	lr: 6.400000000000001e-06
episode: 2099	score: 9.0	memory	length: 452636	epsilon: 0.30177874000960037	steps: 346	lr: 6.400000000000001e-06
episode: 2100	score: 10.0	memory	length: 453089	epsilon: 0.3008818000095947	steps: 453	lr: 6.400000000000001e-06
episode: 2101	score: 5.0	memory	length: 453389	epsilon: 0.30028780000959093	steps: 300	lr: 6.400000000000001e-06
episode: 2102	score: 5.0	memory	length: 453696	epsilon: 0.2996799400095871	steps: 307	lr: 6.400000000000001e-06
episode: 2103	score: 6.0	memory	length: 454046	epsilon: 0.2989869400095827	steps: 350	lr: 6.400000000000001e-06
episode: 2104	score: 3.0	memory	length: 454297	epsilon: 0.29848996000957956	steps: 251	lr: 6.400000000000001e-06
episode: 2105	score: 4.0	memory	length: 454555	epsilon: 0.2979791200095763	steps: 258	lr: 6.400000000000001e-06
episode: 2106	score: 5.0	memory	length: 454884	epsilon: 0.2973277000095722	steps: 329	lr: 6.400000000000001e-06
episode: 2107	score: 5.0	memory	length: 455209	epsilon: 0.29668420000956813	steps: 325	lr: 6.400000000000001e-06
episode: 2108	score: 5.0	memory	length: 455540	epsilon: 0.296028820009564	steps: 331	lr: 6.400000000000001e-06
episode: 2109	score: 4.0	memory	length: 455822	epsilon: 0.29547046000956045	steps: 282	lr: 6.400000000000001e-06
episode: 2110	score: 5.0	memory	length: 456131	epsilon: 0.2948586400095566	steps: 309	lr: 6.400000000000001e-06
episode: 2111	score: 9.0	memory	length: 456613	epsilon: 0.29390428000955054	steps: 482	lr: 6.400000000000001e-06
episode: 2112	score: 4.0	memory	length: 456856	epsilon: 0.2934231400095475	steps: 243	lr: 6.400000000000001e-06
episode: 2113	score: 4.0	memory	length: 457116	epsilon: 0.29298234000954424	steps: 260	lr: 6.400000000000001e-06

episode: 2110	score: 4.0	memory length: 457110	epsilon: 0.292390534000954424	steps: 200	lr: 6.400000000000001e-06
episode: 2114	score: 5.0	memory length: 457445	epsilon: 0.2922569200095401	steps: 329	lr: 6.400000000000001e-06
episode: 2115	score: 4.0	memory length: 457707	epsilon: 0.29173816000953684	steps: 262	lr: 6.400000000000001e-06
episode: 2116	score: 3.0	memory length: 457957	epsilon: 0.2912431600095337	steps: 250	lr: 6.400000000000001e-06
episode: 2117	score: 5.0	memory length: 458261	epsilon: 0.2906412400095299	steps: 304	lr: 6.400000000000001e-06
episode: 2118	score: 5.0	memory length: 458551	epsilon: 0.29006704000952627	steps: 290	lr: 6.400000000000001e-06
episode: 2119	score: 7.0	memory length: 458938	epsilon: 0.2893007800095214	steps: 387	lr: 6.400000000000001e-06
episode: 2120	score: 6.0	memory length: 459276	epsilon: 0.2886315400095172	steps: 338	lr: 6.400000000000001e-06
episode: 2121	score: 8.0	memory length: 459687	epsilon: 0.28781776000951204	steps: 411	lr: 6.400000000000001e-06
episode: 2122	score: 8.0	memory length: 460093	epsilon: 0.28701388000950695	steps: 406	lr: 6.400000000000001e-06
episode: 2123	score: 5.0	memory length: 460397	epsilon: 0.28641196000950314	steps: 304	lr: 6.400000000000001e-06
episode: 2124	score: 3.0	memory length: 460624	epsilon: 0.2859625000095003	steps: 227	lr: 6.400000000000001e-06
episode: 2125	score: 3.0	memory length: 460855	epsilon: 0.2855051200094974	steps: 231	lr: 6.400000000000001e-06
episode: 2126	score: 5.0	memory length: 461159	epsilon: 0.2849032000094936	steps: 304	lr: 6.400000000000001e-06
episode: 2127	score: 7.0	memory length: 461546	epsilon: 0.28413694000948875	steps: 387	lr: 6.400000000000001e-06
episode: 2128	score: 4.0	memory length: 461822	epsilon: 0.2835904600094853	steps: 276	lr: 6.400000000000001e-06
episode: 2129	score: 5.0	memory length: 462152	epsilon: 0.28293706000948116	steps: 330	lr: 6.400000000000001e-06
episode: 2130	score: 4.0	memory length: 462395	epsilon: 0.2824559200094781	steps: 243	lr: 6.400000000000001e-06
episode: 2131	score: 5.0	memory length: 462722	epsilon: 0.281808460009474	steps: 327	lr: 6.400000000000001e-06
episode: 2132	score: 9.0	memory length: 463249	epsilon: 0.2807650000094674	steps: 527	lr: 6.400000000000001e-06
episode: 2133	score: 6.0	memory length: 463623	epsilon: 0.28002448000946273	steps: 374	lr: 6.400000000000001e-06
episode: 2134	score: 4.0	memory length: 463919	epsilon: 0.279438400009459	steps: 296	lr: 6.400000000000001e-06
episode: 2135	score: 6.0	memory length: 464292	epsilon: 0.27869986000945435	steps: 373	lr: 6.400000000000001e-06
episode: 2136	score: 5.0	memory length: 464598	epsilon: 0.2780939800094505	steps: 306	lr: 6.400000000000001e-06
episode: 2137	score: 5.0	memory length: 464904	epsilon: 0.2774881000094467	steps: 306	lr: 6.400000000000001e-06
episode: 2138	score: 5.0	memory length: 465229	epsilon: 0.2768446000094426	steps: 325	lr: 6.400000000000001e-06
episode: 2139	score: 2.0	memory length: 465448	epsilon: 0.27641098000943987	steps: 219	lr: 6.400000000000001e-06
episode: 2140	score: 4.0	memory length: 465724	epsilon: 0.2758645000094364	steps: 276	lr: 6.400000000000001e-06
episode: 2141	score: 8.0	memory length: 466138	epsilon: 0.2750447800094312	steps: 414	lr: 6.400000000000001e-06
episode: 2142	score: 8.0	memory length: 466561	epsilon: 0.2742072400094259	steps: 423	lr: 6.400000000000001e-06
episode: 2143	score: 4.0	memory length: 466839	epsilon: 0.2736568000942244	steps: 278	lr: 6.400000000000001e-06
episode: 2144	score: 5.0	memory length: 467133	epsilon: 0.27307468000941876	steps: 294	lr: 6.400000000000001e-06
episode: 2145	score: 6.0	memory length: 467510	epsilon: 0.27232822000941403	steps: 377	lr: 6.400000000000001e-06
episode: 2146	score: 5.0	memory length: 467820	epsilon: 0.27171442000941015	steps: 310	lr: 6.400000000000001e-06
episode: 2147	score: 6.0	memory length: 468160	epsilon: 0.2710412200094059	steps: 340	lr: 6.400000000000001e-06
episode: 2148	score: 5.0	memory length: 468434	epsilon: 0.27049870000940246	steps: 274	lr: 6.400000000000001e-06
episode: 2149	score: 4.0	memory length: 468715	epsilon: 0.26994232000939894	steps: 281	lr: 6.400000000000001e-06
episode: 2150	score: 11.0	memory length: 469173	epsilon: 0.2690354800093932	steps: 458	lr: 6.400000000000001e-06
episode: 2151	score: 3.0	memory length: 469383	epsilon: 0.26861968000939057	steps: 210	lr: 6.400000000000001e-06
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episode: 2153	score: 6.0	memory length: 470092	epsilon: 0.2672158600093817	steps: 354	lr: 6.400000000000001e-06
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episode: 2155	score: 3.0	memory length: 470650	epsilon: 0.2661110200093747	steps: 211	lr: 6.400000000000001e-06
episode: 2156	score: 4.0	memory length: 470892	epsilon: 0.26563186000937167	steps: 242	lr: 6.400000000000001e-06
episode: 2157	score: 6.0	memory length: 471267	epsilon: 0.26488936000936697	steps: 375	lr: 6.400000000000001e-06
episode: 2158	score: 6.0	memory length: 471623	epsilon: 0.2641844800093625	steps: 356	lr: 6.400000000000001e-06
episode: 2159	score: 4.0	memory length: 471921	epsilon: 0.2635944400093588	steps: 298	lr: 6.400000000000001e-06
episode: 2160	score: 3.0	memory length: 472152	epsilon: 0.2631370600093559	steps: 231	lr: 6.400000000000001e-06
episode: 2161	score: 4.0	memory length: 472410	epsilon: 0.26262622000935265	steps: 258	lr: 6.400000000000001e-06
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episode: 2163	score: 5.0	memory length: 473262	epsilon: 0.260939260009342	steps: 274	lr: 6.400000000000001e-06
episode: 2164	score: 7.0	memory length: 473689	epsilon: 0.2600938000933663	steps: 427	lr: 6.400000000000001e-06
episode: 2165	score: 6.0	memory length: 474070	epsilon: 0.25933942000933186	steps: 381	lr: 6.400000000000001e-06
episode: 2166	score: 4.0	memory length: 474366	epsilon: 0.25875334000932815	steps: 296	lr: 6.400000000000001e-06
episode: 2167	score: 5.0	memory length: 474690	epsilon: 0.2581118200093241	steps: 324	lr: 6.400000000000001e-06
episode: 2168	score: 7.0	memory length: 475086	epsilon: 0.25732774000931913	steps: 396	lr: 6.400000000000001e-06
episode: 2169	score: 7.0	memory length: 475440	epsilon: 0.2566268200093147	steps: 354	lr: 6.400000000000001e-06
episode: 2170	score: 7.0	memory length: 475814	epsilon: 0.2558863000931	steps: 374	lr: 6.400000000000001e-06
episode: 2171	score: 5.0	memory length: 476085	epsilon: 0.2553497200093066	steps: 271	lr: 6.400000000000001e-06
episode: 2172	score: 4.0	memory length: 476346	epsilon: 0.25483294000930334	steps: 261	lr: 6.400000000000001e-06
episode: 2173	score: 6.0	memory length: 476718	epsilon: 0.2540963800092987	steps: 372	lr: 6.400000000000001e-06
episode: 2174	score: 5.0	memory length: 477024	epsilon: 0.2534905000929485	steps: 306	lr: 6.400000000000001e-06
episode: 2175	score: 5.0	memory length: 477351	epsilon: 0.25284304000929075	steps: 327	lr: 6.400000000000001e-06
episode: 2176	score: 4.0	memory length: 477646	epsilon: 0.25225894000928706	steps: 295	lr: 6.400000000000001e-06
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episode: 2178	score: 5.0	memory length: 478219	epsilon: 0.251124400092799	steps: 327	lr: 6.400000000000001e-06
episode: 2179	score: 3.0	memory length: 478450	epsilon: 0.250667020009277	steps: 231	lr: 6.400000000000001e-06
episode: 2180	score: 3.0	memory length: 478679	epsilon: 0.250213600092741	steps: 229	lr: 6.400000000000001e-06
episode: 2181	score: 6.0	memory length: 479037	epsilon: 0.24950476000926963	steps: 358	lr: 6.400000000000001e-06
episode: 2182	score: 13.0	memory length: 479563	epsilon: 0.24846328000926304	steps: 526	lr: 6.400000000000001e-06
episode: 2183	score: 13.0	memory length: 479981	epsilon: 0.2476356400092578	steps: 418	lr: 6.400000000000001e-06
episode: 2184	score: 6.0	memory length: 480318	epsilon: 0.24696838000925359	steps: 337	lr: 6.400000000000001e-06
episode: 2185	score: 7.0	memory length: 480724	epsilon: 0.246164500092485	steps: 406	lr: 6.400000000000001e-06
episode: 2186	score: 7.0	memory length: 481094	epsilon: 0.2454319000924386	steps: 370	lr: 6.400000000000001e-06
episode: 2187	score: 6.0	memory length: 481428	epsilon: 0.2447705800923968	steps: 334	lr: 6.400000000000001e-06
episode: 2188	score: 7.0	memory length: 481802	epsilon: 0.24403006009235	steps: 374	lr: 6.400000000000001e-06
episode: 2189	score: 8.0	memory length: 482253	epsilon: 0.2431370800922934	steps: 451	lr: 6.400000000000001e-06
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episode: 2191	score: 4.0	memory length: 482926	epsilon: 0.2418045400922091	steps: 279	lr: 6.400000000000001e-06
episode: 2192	score: 4.0	memory length: 483186	epsilon: 0.2412897400921766	steps: 260	lr: 6.400000000000001e-06
episode: 2193	score: 10.0	memory length: 483690	epsilon: 0.2402918200921134	steps: 504	lr: 6.400000000000001e-06
episode: 2194	score: 5.0	memory length: 484016	epsilon: 0.2396463400920726	steps: 326	lr: 6.400000000000001e-06
episode: 2195	score: 5.0	memory length: 484320	epsilon: 0.2390444200920345	steps: 304	lr: 6.400000000000001e-06
episode: 2196	score: 5.0	memory length: 484628	epsilon: 0.238434580091996	steps: 308	lr: 6.400000000000001e-06
episode: 2197	score: 5.0	memory length: 484917	epsilon: 0.2378623600919597	steps: 289	lr: 6.400000000000001e-06

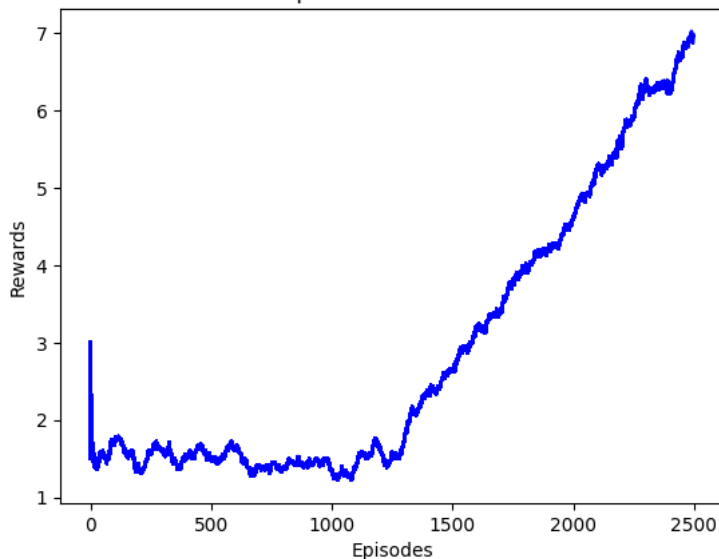
episode: 2198	score: 5.0	memory length: 485229	epsilon: 0.23724460000919206	steps: 312	lr: 6.400000000000001e-06
episode: 2199	score: 7.0	memory length: 485629	epsilon: 0.23645260000918705	steps: 400	lr: 6.400000000000001e-06
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episode: 2201	score: 6.0	memory length: 486250	epsilon: 0.23522302000917927	steps: 342	lr: 6.400000000000001e-06
episode: 2202	score: 7.0	memory length: 486657	epsilon: 0.23441716000917417	steps: 407	lr: 6.400000000000001e-06
episode: 2203	score: 10.0	memory length: 487030	epsilon: 0.2336786200091695	steps: 373	lr: 6.400000000000001e-06
episode: 2204	score: 7.0	memory length: 487420	epsilon: 0.23290642000916462	steps: 390	lr: 6.400000000000001e-06
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episode: 2206	score: 7.0	memory length: 488202	epsilon: 0.23135806000915482	steps: 390	lr: 6.400000000000001e-06
episode: 2207	score: 13.0	memory length: 488779	epsilon: 0.2302156000091476	steps: 577	lr: 6.400000000000001e-06
episode: 2208	score: 6.0	memory length: 489122	epsilon: 0.2295364600091433	steps: 343	lr: 6.400000000000001e-06
episode: 2209	score: 6.0	memory length: 489459	epsilon: 0.22886920000913907	steps: 337	lr: 6.400000000000001e-06
episode: 2210	score: 6.0	memory length: 489824	epsilon: 0.2281465000091345	steps: 365	lr: 6.400000000000001e-06
episode: 2211	score: 5.0	memory length: 490131	epsilon: 0.22753864000913065	steps: 307	lr: 6.400000000000001e-06
episode: 2212	score: 8.0	memory length: 490558	epsilon: 0.2266931800091253	steps: 427	lr: 6.400000000000001e-06
episode: 2213	score: 5.0	memory length: 490866	epsilon: 0.22608334000912145	steps: 308	lr: 6.400000000000001e-06
episode: 2214	score: 10.0	memory length: 491351	epsilon: 0.22512304000911537	steps: 485	lr: 6.400000000000001e-06
episode: 2215	score: 5.0	memory length: 491678	epsilon: 0.22447558000911128	steps: 327	lr: 6.400000000000001e-06
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episode: 2218	score: 7.0	memory length: 492721	epsilon: 0.2224104400090982	steps: 423	lr: 6.400000000000001e-06
episode: 2219	score: 6.0	memory length: 493099	epsilon: 0.22166200000909347	steps: 378	lr: 6.400000000000001e-06
episode: 2220	score: 3.0	memory length: 493326	epsilon: 0.22121254000909063	steps: 227	lr: 6.400000000000001e-06
episode: 2221	score: 7.0	memory length: 493772	epsilon: 0.22032946000908504	steps: 446	lr: 6.400000000000001e-06
episode: 2222	score: 5.0	memory length: 494063	epsilon: 0.2197532800090814	steps: 291	lr: 6.400000000000001e-06
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episode: 2225	score: 7.0	memory length: 495044	epsilon: 0.2178109000090691	steps: 394	lr: 6.400000000000001e-06
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episode: 2227	score: 3.0	memory length: 495538	epsilon: 0.21683278000906292	steps: 214	lr: 6.400000000000001e-06
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episode: 2230	score: 5.0	memory length: 496665	epsilon: 0.2146013200090488	steps: 309	lr: 6.400000000000001e-06
episode: 2231	score: 3.0	memory length: 496899	epsilon: 0.21413800000904587	steps: 234	lr: 6.400000000000001e-06
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episode: 2237	score: 6.0	memory length: 498851	epsilon: 0.21027304000902142	steps: 339	lr: 6.400000000000001e-06
episode: 2238	score: 6.0	memory length: 499229	epsilon: 0.20952460000901668	steps: 378	lr: 6.400000000000001e-06
episode: 2239	score: 5.0	memory length: 499540	epsilon: 0.20890882000901279	steps: 311	lr: 6.400000000000001e-06
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episode: 2242	score: 8.0	memory length: 500661	epsilon: 0.20668924000899874	steps: 440	lr: 2.560000000000001e-06
episode: 2243	score: 7.0	memory length: 501069	epsilon: 0.20588140000899363	steps: 408	lr: 2.560000000000001e-06
episode: 2244	score: 9.0	memory length: 501415	epsilon: 0.2051963200089893	steps: 346	lr: 2.560000000000001e-06
episode: 2245	score: 3.0	memory length: 501646	epsilon: 0.2047389400089864	steps: 231	lr: 2.560000000000001e-06
episode: 2246	score: 6.0	memory length: 501969	epsilon: 0.20409940000898236	steps: 323	lr: 2.560000000000001e-06
episode: 2247	score: 6.0	memory length: 502307	epsilon: 0.20343016000897812	steps: 338	lr: 2.560000000000001e-06
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episode: 2249	score: 4.0	memory length: 502810	epsilon: 0.20243422000897182	steps: 260	lr: 2.560000000000001e-06
episode: 2250	score: 9.0	memory length: 503279	epsilon: 0.20150560000896595	steps: 469	lr: 2.560000000000001e-06
episode: 2251	score: 7.0	memory length: 503691	epsilon: 0.20068984000896078	steps: 412	lr: 2.560000000000001e-06
episode: 2252	score: 5.0	memory length: 504015	epsilon: 0.20004832000895673	steps: 324	lr: 2.560000000000001e-06
episode: 2253	score: 11.0	memory length: 504540	epsilon: 0.19900882000895015	steps: 525	lr: 2.560000000000001e-06
episode: 2254	score: 4.0	memory length: 504781	epsilon: 0.19853164000894713	steps: 241	lr: 2.560000000000001e-06
episode: 2255	score: 5.0	memory length: 505089	epsilon: 0.19792180000894327	steps: 308	lr: 2.560000000000001e-06
episode: 2256	score: 5.0	memory length: 505363	epsilon: 0.19737928000893984	steps: 274	lr: 2.560000000000001e-06
episode: 2257	score: 11.0	memory length: 505743	epsilon: 0.19662688000893508	steps: 380	lr: 2.560000000000001e-06
episode: 2258	score: 7.0	memory length: 506131	epsilon: 0.19585864000893022	steps: 388	lr: 2.560000000000001e-06
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episode: 2260	score: 6.0	memory length: 506793	epsilon: 0.19454788000892193	steps: 378	lr: 2.560000000000001e-06
episode: 2261	score: 6.0	memory length: 507114	epsilon: 0.1939123000089179	steps: 321	lr: 2.560000000000001e-06
episode: 2262	score: 8.0	memory length: 507580	epsilon: 0.19298962000891207	steps: 466	lr: 2.560000000000001e-06
episode: 2263	score: 7.0	memory length: 507983	epsilon: 0.19219168000890702	steps: 403	lr: 2.560000000000001e-06
episode: 2264	score: 7.0	memory length: 508379	epsilon: 0.19140760000890206	steps: 396	lr: 2.560000000000001e-06
episode: 2265	score: 8.0	memory length: 508825	epsilon: 0.19052452000889647	steps: 446	lr: 2.560000000000001e-06
episode: 2266	score: 4.0	memory length: 509088	epsilon: 0.19000378000889317	steps: 263	lr: 2.560000000000001e-06
episode: 2267	score: 7.0	memory length: 509491	epsilon: 0.18920584000888813	steps: 403	lr: 2.560000000000001e-06
episode: 2268	score: 7.0	memory length: 509871	epsilon: 0.18845344000888337	steps: 380	lr: 2.560000000000001e-06
episode: 2269	score: 5.0	memory length: 510163	epsilon: 0.1878752800088797	steps: 292	lr: 2.560000000000001e-06
episode: 2270	score: 15.0	memory length: 510731	epsilon: 0.1867506400088726	steps: 568	lr: 2.560000000000001e-06
episode: 2271	score: 6.0	memory length: 511056	epsilon: 0.18610714000886852	steps: 325	lr: 2.560000000000001e-06
episode: 2272	score: 5.0	memory length: 511347	epsilon: 0.18553096000886488	steps: 291	lr: 2.560000000000001e-06
episode: 2273	score: 7.0	memory length: 511736	epsilon: 0.18476074000886	steps: 389	lr: 2.560000000000001e-06
episode: 2274	score: 4.0	memory length: 511996	epsilon: 0.18424594000885675	steps: 260	lr: 2.560000000000001e-06
episode: 2275	score: 6.0	memory length: 512335	epsilon: 0.1835747200088525	steps: 339	lr: 2.560000000000001e-06
episode: 2276	score: 4.0	memory length: 512613	epsilon: 0.18302428000884902	steps: 278	lr: 2.560000000000001e-06
episode: 2277	score: 12.0	memory length: 513244	epsilon: 0.1817749000088411	steps: 631	lr: 2.560000000000001e-06
episode: 2278	score: 6.0	memory length: 513619	epsilon: 0.1810324000088364	steps: 375	lr: 2.560000000000001e-06
episode: 2279	score: 4.0	memory length: 513920	epsilon: 0.18043642000883264	steps: 301	lr: 2.560000000000001e-06
episode: 2280	score: 5.0	memory length: 514195	epsilon: 0.1798919200088292	steps: 275	lr: 2.560000000000001e-06
episode: 2281	score: 6.0	memory length: 514517	epsilon: 0.17925436000882516	steps: 322	lr: 2.560000000000001e-06
episode: 2282	score: 8.0	memory length: 514929	epsilon: 0.17843860000882	steps: 412	lr: 2.560000000000001e-06

episode: 2283	score: 5.0	memory length: 515278	epsilon: 0.17774758000881563	steps: 349	lr: 2.560000000000001e-06
episode: 2284	score: 6.0	memory length: 515655	epsilon: 0.1770011200088109	steps: 377	lr: 2.560000000000001e-06
episode: 2285	score: 4.0	memory length: 515898	epsilon: 0.17651998000880786	steps: 243	lr: 2.560000000000001e-06
episode: 2286	score: 6.0	memory length: 516236	epsilon: 0.17585074000880363	steps: 338	lr: 2.560000000000001e-06
episode: 2287	score: 4.0	memory length: 516537	epsilon: 0.17525476000879986	steps: 301	lr: 2.560000000000001e-06
episode: 2288	score: 7.0	memory length: 516927	epsilon: 0.17448256000879497	steps: 390	lr: 2.560000000000001e-06
episode: 2289	score: 13.0	memory length: 517582	epsilon: 0.17318566000878677	steps: 655	lr: 2.560000000000001e-06
episode: 2290	score: 11.0	memory length: 518009	epsilon: 0.17234020000878142	steps: 427	lr: 2.560000000000001e-06
episode: 2291	score: 7.0	memory length: 518413	epsilon: 0.17154028000877636	steps: 404	lr: 2.560000000000001e-06
episode: 2292	score: 5.0	memory length: 518687	epsilon: 0.17099776000877293	steps: 274	lr: 2.560000000000001e-06
episode: 2293	score: 7.0	memory length: 519076	epsilon: 0.17022754000876805	steps: 389	lr: 2.560000000000001e-06
episode: 2294	score: 4.0	memory length: 519338	epsilon: 0.16970878000876477	steps: 262	lr: 2.560000000000001e-06
episode: 2295	score: 8.0	memory length: 519812	epsilon: 0.16877026000875883	steps: 474	lr: 2.560000000000001e-06
episode: 2296	score: 5.0	memory length: 520102	epsilon: 0.1681960600087552	steps: 290	lr: 2.560000000000001e-06
episode: 2297	score: 11.0	memory length: 520563	epsilon: 0.16728328000874942	steps: 461	lr: 2.560000000000001e-06
episode: 2298	score: 6.0	memory length: 520921	epsilon: 0.16657444000874494	steps: 358	lr: 2.560000000000001e-06
episode: 2299	score: 7.0	memory length: 521343	epsilon: 0.16573888000873965	steps: 422	lr: 2.560000000000001e-06
episode: 2300	score: 5.0	memory length: 521638	epsilon: 0.16515478000873596	steps: 295	lr: 2.560000000000001e-06
episode: 2301	score: 9.0	memory length: 522072	epsilon: 0.16429546000873052	steps: 434	lr: 2.560000000000001e-06
episode: 2302	score: 9.0	memory length: 522597	epsilon: 0.16325596000872394	steps: 525	lr: 2.560000000000001e-06
episode: 2303	score: 4.0	memory length: 522873	epsilon: 0.1627094800087205	steps: 276	lr: 2.560000000000001e-06
episode: 2304	score: 10.0	memory length: 523386	epsilon: 0.16169374000871406	steps: 513	lr: 2.560000000000001e-06
episode: 2305	score: 7.0	memory length: 523771	epsilon: 0.16093144000870924	steps: 385	lr: 2.560000000000001e-06
episode: 2306	score: 4.0	memory length: 524032	epsilon: 0.16041466000870597	steps: 261	lr: 2.560000000000001e-06
episode: 2307	score: 6.0	memory length: 524370	epsilon: 0.15974542000870173	steps: 338	lr: 2.560000000000001e-06
episode: 2308	score: 8.0	memory length: 524842	epsilon: 0.15881086000869582	steps: 472	lr: 2.560000000000001e-06
episode: 2309	score: 6.0	memory length: 525181	epsilon: 0.15813964000869157	steps: 339	lr: 2.560000000000001e-06
episode: 2310	score: 5.0	memory length: 525498	epsilon: 0.1575119800086876	steps: 317	lr: 2.560000000000001e-06
episode: 2311	score: 4.0	memory length: 525741	epsilon: 0.15703084000868456	steps: 243	lr: 2.560000000000001e-06
episode: 2312	score: 4.0	memory length: 526021	epsilon: 0.15647644000868105	steps: 280	lr: 2.560000000000001e-06
episode: 2313	score: 6.0	memory length: 526373	epsilon: 0.15577948000867664	steps: 352	lr: 2.560000000000001e-06
episode: 2314	score: 6.0	memory length: 526728	epsilon: 0.1550765800086722	steps: 355	lr: 2.560000000000001e-06
episode: 2315	score: 4.0	memory length: 526988	epsilon: 0.15456178000866894	steps: 260	lr: 2.560000000000001e-06
episode: 2316	score: 7.0	memory length: 527361	epsilon: 0.15382324000866426	steps: 373	lr: 2.560000000000001e-06
episode: 2317	score: 6.0	memory length: 527700	epsilon: 0.15315202000866002	steps: 339	lr: 2.560000000000001e-06
episode: 2318	score: 7.0	memory length: 528070	epsilon: 0.15241942000865538	steps: 370	lr: 2.560000000000001e-06
episode: 2319	score: 7.0	memory length: 528438	epsilon: 0.15169078000865077	steps: 368	lr: 2.560000000000001e-06
episode: 2320	score: 7.0	memory length: 528862	epsilon: 0.15085126000864546	steps: 424	lr: 2.560000000000001e-06
episode: 2321	score: 5.0	memory length: 529189	epsilon: 0.1502038000864136	steps: 327	lr: 2.560000000000001e-06
episode: 2322	score: 5.0	memory length: 529481	epsilon: 0.1496256400086377	steps: 292	lr: 2.560000000000001e-06
episode: 2323	score: 6.0	memory length: 529839	epsilon: 0.1489168000863322	steps: 358	lr: 2.560000000000001e-06
episode: 2324	score: 4.0	memory length: 530099	epsilon: 0.1484020000862996	steps: 260	lr: 2.560000000000001e-06
episode: 2325	score: 4.0	memory length: 530357	epsilon: 0.14789116000862673	steps: 258	lr: 2.560000000000001e-06
episode: 2326	score: 3.0	memory length: 530588	epsilon: 0.14743378000862384	steps: 231	lr: 2.560000000000001e-06
episode: 2327	score: 5.0	memory length: 530935	epsilon: 0.1467467200086195	steps: 347	lr: 2.560000000000001e-06
episode: 2328	score: 9.0	memory length: 531388	epsilon: 0.14584978000861382	steps: 453	lr: 2.560000000000001e-06
episode: 2329	score: 7.0	memory length: 531761	epsilon: 0.14511124000860914	steps: 373	lr: 2.560000000000001e-06
episode: 2330	score: 3.0	memory length: 531973	epsilon: 0.1446914800086065	steps: 212	lr: 2.560000000000001e-06
episode: 2331	score: 4.0	memory length: 532233	epsilon: 0.14417668000860323	steps: 260	lr: 2.560000000000001e-06
episode: 2332	score: 4.0	memory length: 532493	epsilon: 0.14366188000859997	steps: 260	lr: 2.560000000000001e-06
episode: 2333	score: 8.0	memory length: 532934	epsilon: 0.14278870000859445	steps: 441	lr: 2.560000000000001e-06
episode: 2334	score: 6.0	memory length: 533275	epsilon: 0.14211352000859018	steps: 341	lr: 2.560000000000001e-06
episode: 2335	score: 6.0	memory length: 533596	epsilon: 0.14147794000858616	steps: 321	lr: 2.560000000000001e-06
episode: 2336	score: 5.0	memory length: 533891	epsilon: 0.14089384000858246	steps: 295	lr: 2.560000000000001e-06
episode: 2337	score: 5.0	memory length: 534199	epsilon: 0.1402840000085786	steps: 308	lr: 2.560000000000001e-06
episode: 2338	score: 5.0	memory length: 534506	epsilon: 0.13967614000857476	steps: 307	lr: 2.560000000000001e-06
episode: 2339	score: 8.0	memory length: 534930	epsilon: 0.13883662000856944	steps: 424	lr: 2.560000000000001e-06
episode: 2340	score: 7.0	memory length: 535334	epsilon: 0.13803670000856438	steps: 404	lr: 2.560000000000001e-06
episode: 2341	score: 7.0	memory length: 535695	epsilon: 0.13732192000855986	steps: 361	lr: 2.560000000000001e-06
episode: 2342	score: 9.0	memory length: 536191	epsilon: 0.13633984000855365	steps: 496	lr: 2.560000000000001e-06
episode: 2343	score: 7.0	memory length: 536560	epsilon: 0.13560922000854903	steps: 369	lr: 2.560000000000001e-06
episode: 2344	score: 6.0	memory length: 536914	epsilon: 0.1349083000085446	steps: 354	lr: 2.560000000000001e-06
episode: 2345	score: 4.0	memory length: 537174	epsilon: 0.13439350000854133	steps: 260	lr: 2.560000000000001e-06
episode: 2346	score: 6.0	memory length: 537548	epsilon: 0.13365298000853665	steps: 374	lr: 2.560000000000001e-06
episode: 2347	score: 3.0	memory length: 537779	epsilon: 0.13319560000853375	steps: 231	lr: 2.560000000000001e-06
episode: 2348	score: 9.0	memory length: 538271	epsilon: 0.1322214400085276	steps: 492	lr: 2.560000000000001e-06
episode: 2349	score: 7.0	memory length: 538672	epsilon: 0.13142746000852257	steps: 401	lr: 2.560000000000001e-06
episode: 2350	score: 4.0	memory length: 538966	epsilon: 0.13084534000851888	steps: 294	lr: 2.560000000000001e-06
episode: 2351	score: 6.0	memory length: 539322	epsilon: 0.13014046000851442	steps: 356	lr: 2.560000000000001e-06
episode: 2352	score: 10.0	memory length: 539844	epsilon: 0.12910690000850789	steps: 522	lr: 2.560000000000001e-06
episode: 2353	score: 4.0	memory length: 540121	epsilon: 0.12855844000850442	steps: 277	lr: 2.560000000000001e-06
episode: 2354	score: 7.0	memory length: 540546	epsilon: 0.1277169400084991	steps: 425	lr: 2.560000000000001e-06
episode: 2355	score: 9.0	memory length: 540892	epsilon: 0.12703186000849476	steps: 346	lr: 2.560000000000001e-06
episode: 2356	score: 6.0	memory length: 541269	epsilon: 0.12628540000849003	steps: 377	lr: 2.560000000000001e-06
episode: 2357	score: 5.0	memory length: 541578	epsilon: 0.12567358000848616	steps: 309	lr: 2.560000000000001e-06
episode: 2358	score: 5.0	memory length: 541868	epsilon: 0.12509938000848253	steps: 290	lr: 2.560000000000001e-06
episode: 2359	score: 9.0	memory length: 542234	epsilon: 0.12437470000848233	steps: 366	lr: 2.560000000000001e-06
episode: 2360	score: 7.0	memory length: 542643	epsilon: 0.12356488000848288	steps: 409	lr: 2.560000000000001e-06
episode: 2361	score: 7.0	memory length: 543047	epsilon: 0.12276496000848343	steps: 404	lr: 2.560000000000001e-06
episode: 2362	score: 3.0	memory length: 543278	epsilon: 0.12230758000848374	steps: 231	lr: 2.560000000000001e-06
episode: 2363	score: 10.0	memory length: 543650	epsilon: 0.12157102000848424	steps: 372	lr: 2.560000000000001e-06
episode: 2364	score: 4.0	memory length: 543926	epsilon: 0.12102454000848462	steps: 276	lr: 2.560000000000001e-06
episode: 2365	score: 8.0	memory length: 544339	epsilon: 0.12020680000848517	steps: 413	lr: 2.560000000000001e-06
episode: 2366	score: 9.0	memory length: 544811	epsilon: 0.11927240000848581	steps: 472	lr: 2.560000000000001e-06
episode: 2367	score: 7.0	memory length: 545206	epsilon: 0.11849014000848634	steps: 395	lr: 2.560000000000001e-06

episode: 2368	score: 7.0	memory length: 545653	epsilon: 0.11760508000848695	steps: 447	lr: 2.5600000000000001e-06
episode: 2369	score: 8.0	memory length: 546076	epsilon: 0.11676754000848752	steps: 423	lr: 2.5600000000000001e-06
episode: 2370	score: 6.0	memory length: 546435	epsilon: 0.1160567200084888	steps: 359	lr: 2.5600000000000001e-06
episode: 2371	score: 6.0	memory length: 546799	epsilon: 0.1153360000084885	steps: 364	lr: 2.5600000000000001e-06
episode: 2372	score: 6.0	memory length: 547179	epsilon: 0.11458360000848901	steps: 380	lr: 2.5600000000000001e-06
episode: 2373	score: 7.0	memory length: 547569	epsilon: 0.11381140000848954	steps: 390	lr: 2.5600000000000001e-06
episode: 2374	score: 8.0	memory length: 548044	epsilon: 0.11287090000849018	steps: 475	lr: 2.5600000000000001e-06
episode: 2375	score: 9.0	memory length: 548524	epsilon: 0.11192050000849083	steps: 480	lr: 2.5600000000000001e-06
episode: 2376	score: 6.0	memory length: 548882	epsilon: 0.11121166000849131	steps: 358	lr: 2.5600000000000001e-06
episode: 2377	score: 6.0	memory length: 549220	epsilon: 0.11054242000849177	steps: 338	lr: 2.5600000000000001e-06
episode: 2378	score: 4.0	memory length: 549460	epsilon: 0.11006722000849209	steps: 240	lr: 2.5600000000000001e-06
episode: 2379	score: 4.0	memory length: 549735	epsilon: 0.10952272000849246	steps: 275	lr: 2.5600000000000001e-06
episode: 2380	score: 7.0	memory length: 550162	epsilon: 0.10867726000849304	steps: 427	lr: 2.5600000000000001e-06
episode: 2381	score: 7.0	memory length: 550575	epsilon: 0.1078595200084936	steps: 413	lr: 2.5600000000000001e-06
episode: 2382	score: 9.0	memory length: 551078	epsilon: 0.10686358000849427	steps: 503	lr: 2.5600000000000001e-06
episode: 2383	score: 4.0	memory length: 551379	epsilon: 0.10626760000849468	steps: 301	lr: 2.5600000000000001e-06
episode: 2384	score: 6.0	memory length: 551714	epsilon: 0.10560430000849513	steps: 335	lr: 2.5600000000000001e-06
episode: 2385	score: 5.0	memory length: 552008	epsilon: 0.10502218000849553	steps: 294	lr: 2.5600000000000001e-06
episode: 2386	score: 10.0	memory length: 552403	epsilon: 0.10424008000849606	steps: 395	lr: 2.5600000000000001e-06
episode: 2387	score: 4.0	memory length: 552679	epsilon: 0.10369360000849644	steps: 276	lr: 2.5600000000000001e-06
episode: 2388	score: 5.0	memory length: 552966	epsilon: 0.10312534000849682	steps: 287	lr: 2.5600000000000001e-06
episode: 2389	score: 4.0	memory length: 553228	epsilon: 0.10260658000849718	steps: 262	lr: 2.5600000000000001e-06
episode: 2390	score: 6.0	memory length: 553549	epsilon: 0.10197100000849761	steps: 321	lr: 2.5600000000000001e-06
episode: 2391	score: 12.0	memory length: 553998	epsilon: 0.10108198000849822	steps: 449	lr: 2.5600000000000001e-06
episode: 2392	score: 11.0	memory length: 554419	epsilon: 0.10024840000849879	steps: 421	lr: 2.5600000000000001e-06
episode: 2393	score: 9.0	memory length: 554765	epsilon: 0.09956332000849925	steps: 346	lr: 2.5600000000000001e-06
episode: 2394	score: 7.0	memory length: 555170	epsilon: 0.0987614200084998	steps: 405	lr: 2.5600000000000001e-06
episode: 2395	score: 6.0	memory length: 555513	epsilon: 0.09808228000850026	steps: 343	lr: 2.5600000000000001e-06
episode: 2396	score: 6.0	memory length: 555850	epsilon: 0.09741502000850072	steps: 337	lr: 2.5600000000000001e-06
episode: 2397	score: 4.0	memory length: 556110	epsilon: 0.09690022000850107	steps: 260	lr: 2.5600000000000001e-06
episode: 2398	score: 4.0	memory length: 556371	epsilon: 0.09638344000850142	steps: 261	lr: 2.5600000000000001e-06
episode: 2399	score: 7.0	memory length: 556762	epsilon: 0.09560926000850195	steps: 391	lr: 2.5600000000000001e-06
episode: 2400	score: 6.0	memory length: 557100	epsilon: 0.09494002000850241	steps: 338	lr: 2.5600000000000001e-06
episode: 2401	score: 6.0	memory length: 557455	epsilon: 0.09423712000850289	steps: 355	lr: 2.5600000000000001e-06
episode: 2402	score: 5.0	memory length: 557764	epsilon: 0.0936253000085033	steps: 309	lr: 2.5600000000000001e-06
episode: 2403	score: 6.0	memory length: 558119	epsilon: 0.09292240000850378	steps: 355	lr: 2.5600000000000001e-06
episode: 2404	score: 14.0	memory length: 558583	epsilon: 0.09200368000850441	steps: 464	lr: 2.5600000000000001e-06
episode: 2405	score: 9.0	memory length: 559038	epsilon: 0.09110278000850502	steps: 455	lr: 2.5600000000000001e-06
episode: 2406	score: 4.0	memory length: 559315	epsilon: 0.0905543200085054	steps: 277	lr: 2.5600000000000001e-06
episode: 2407	score: 6.0	memory length: 559638	epsilon: 0.08991478000850583	steps: 323	lr: 2.5600000000000001e-06
episode: 2408	score: 6.0	memory length: 559962	epsilon: 0.08927326000850627	steps: 324	lr: 2.5600000000000001e-06
episode: 2409	score: 6.0	memory length: 560303	epsilon: 0.08859808000850673	steps: 341	lr: 2.5600000000000001e-06
episode: 2410	score: 4.0	memory length: 560598	epsilon: 0.08801398000850713	steps: 295	lr: 2.5600000000000001e-06
episode: 2411	score: 10.0	memory length: 561136	epsilon: 0.08694874000850786	steps: 538	lr: 2.5600000000000001e-06
episode: 2412	score: 7.0	memory length: 561523	epsilon: 0.08618248000850838	steps: 387	lr: 2.5600000000000001e-06
episode: 2413	score: 6.0	memory length: 561893	epsilon: 0.08544988000850888	steps: 370	lr: 2.5600000000000001e-06
episode: 2414	score: 9.0	memory length: 562257	epsilon: 0.08472916000850937	steps: 364	lr: 2.5600000000000001e-06
episode: 2415	score: 12.0	memory length: 562712	epsilon: 0.08382826000850999	steps: 455	lr: 2.5600000000000001e-06
episode: 2416	score: 5.0	memory length: 563001	epsilon: 0.08325604000851038	steps: 289	lr: 2.5600000000000001e-06
episode: 2417	score: 8.0	memory length: 563441	epsilon: 0.08238484000851097	steps: 440	lr: 2.5600000000000001e-06
episode: 2418	score: 7.0	memory length: 563841	epsilon: 0.08159284000851151	steps: 400	lr: 2.5600000000000001e-06
episode: 2419	score: 12.0	memory length: 564495	epsilon: 0.0802979200085124	steps: 654	lr: 2.5600000000000001e-06
episode: 2420	score: 5.0	memory length: 564802	epsilon: 0.07969006000851281	steps: 307	lr: 2.5600000000000001e-06
episode: 2421	score: 7.0	memory length: 565210	epsilon: 0.07888222000851336	steps: 408	lr: 2.5600000000000001e-06
episode: 2422	score: 6.0	memory length: 565586	epsilon: 0.07813774000851387	steps: 376	lr: 2.5600000000000001e-06
episode: 2423	score: 6.0	memory length: 565921	epsilon: 0.07747444000851432	steps: 335	lr: 2.5600000000000001e-06
episode: 2424	score: 5.0	memory length: 566229	epsilon: 0.07686460000851474	steps: 308	lr: 2.5600000000000001e-06
episode: 2425	score: 11.0	memory length: 566751	epsilon: 0.07583104000851544	steps: 522	lr: 2.5600000000000001e-06
episode: 2426	score: 7.0	memory length: 567139	epsilon: 0.07506280000851596	steps: 388	lr: 2.5600000000000001e-06
episode: 2427	score: 6.0	memory length: 567478	epsilon: 0.07439158000851642	steps: 339	lr: 2.5600000000000001e-06
episode: 2428	score: 7.0	memory length: 567830	epsilon: 0.0736946200085169	steps: 352	lr: 2.5600000000000001e-06
episode: 2429	score: 4.0	memory length: 568106	epsilon: 0.07314814000851727	steps: 276	lr: 2.5600000000000001e-06
episode: 2430	score: 7.0	memory length: 568454	epsilon: 0.07245910000851774	steps: 348	lr: 2.5600000000000001e-06
episode: 2431	score: 5.0	memory length: 568744	epsilon: 0.07188490000851813	steps: 290	lr: 2.5600000000000001e-06
episode: 2432	score: 7.0	memory length: 569117	epsilon: 0.07114636000851864	steps: 373	lr: 2.5600000000000001e-06
episode: 2433	score: 6.0	memory length: 569511	epsilon: 0.07036624000851917	steps: 394	lr: 2.5600000000000001e-06
episode: 2434	score: 9.0	memory length: 569963	epsilon: 0.06947128000851978	steps: 452	lr: 2.5600000000000001e-06
episode: 2435	score: 7.0	memory length: 570333	epsilon: 0.06873868000852028	steps: 370	lr: 2.5600000000000001e-06
episode: 2436	score: 9.0	memory length: 570839	epsilon: 0.06773680000852096	steps: 506	lr: 2.5600000000000001e-06
episode: 2437	score: 4.0	memory length: 571099	epsilon: 0.06722200000852131	steps: 260	lr: 2.5600000000000001e-06
episode: 2438	score: 5.0	memory length: 571410	epsilon: 0.06660622000852173	steps: 311	lr: 2.5600000000000001e-06
episode: 2439	score: 7.0	memory length: 571816	epsilon: 0.06580234000852228	steps: 406	lr: 2.5600000000000001e-06
episode: 2440	score: 5.0	memory length: 572128	epsilon: 0.0651845800085227	steps: 312	lr: 2.5600000000000001e-06
episode: 2441	score: 6.0	memory length: 572468	epsilon: 0.06451138000852316	steps: 340	lr: 2.5600000000000001e-06
episode: 2442	score: 5.0	memory length: 572776	epsilon: 0.06390154000852358	steps: 308	lr: 2.5600000000000001e-06
episode: 2443	score: 6.0	memory length: 573161	epsilon: 0.0631392400085241	steps: 385	lr: 2.5600000000000001e-06
episode: 2444	score: 7.0	memory length: 573531	epsilon: 0.0624066400085246	steps: 370	lr: 2.5600000000000001e-06
episode: 2445	score: 7.0	memory length: 573902	epsilon: 0.0616720600085251	steps: 371	lr: 2.5600000000000001e-06
episode: 2446	score: 6.0	memory length: 574238	epsilon: 0.06100678000852555	steps: 336	lr: 2.5600000000000001e-06
episode: 2447	score: 6.0	memory length: 574595	epsilon: 0.060299920008526034	steps: 357	lr: 2.5600000000000001e-06
episode: 2448	score: 5.0	memory length: 574898	epsilon: 0.05969980000852644	steps: 303	lr: 2.5600000000000001e-06
episode: 2449	score: 7.0	memory length: 575267	epsilon: 0.05896936000852694	steps: 369	lr: 2.5600000000000001e-06
episode: 2450	score: 5.0	memory length: 575594	epsilon: 0.05832190000852738	steps: 327	lr: 2.5600000000000001e-06
episode: 2451	score: 6.0	memory length: 575968	epsilon: 0.05758138000852789	steps: 374	lr: 2.5600000000000001e-06
episode: 2452	score: 11.0	memory length: 576385	epsilon: 0.05675572000852845	steps: 417	lr: 2.5600000000000001e-06

episode:	score:	memory length:	epsilon:	steps:	lr:
episode: 2453	score: 8.0	memory length: 576823	epsilon: 0.05588848000852904	steps: 438	lr: 2.5600000000000001e-06
episode: 2454	score: 4.0	memory length: 577103	epsilon: 0.05533408000852942	steps: 280	lr: 2.5600000000000001e-06
episode: 2455	score: 7.0	memory length: 577493	epsilon: 0.05456188000852995	steps: 390	lr: 2.5600000000000001e-06
episode: 2456	score: 14.0	memory length: 577995	epsilon: 0.053567920008530626	steps: 502	lr: 2.5600000000000001e-06
episode: 2457	score: 13.0	memory length: 578672	epsilon: 0.05222746000853154	steps: 677	lr: 2.5600000000000001e-06
episode: 2458	score: 8.0	memory length: 579077	epsilon: 0.05142556000853209	steps: 405	lr: 2.5600000000000001e-06
episode: 2459	score: 6.0	memory length: 579419	epsilon: 0.05074844000853255	steps: 342	lr: 2.5600000000000001e-06
episode: 2460	score: 5.0	memory length: 579727	epsilon: 0.050138560008532965	steps: 308	lr: 2.5600000000000001e-06
episode: 2461	score: 5.0	memory length: 580016	epsilon: 0.049566340008533355	steps: 289	lr: 2.5600000000000001e-06
episode: 2462	score: 9.0	memory length: 580498	epsilon: 0.048611980008534006	steps: 482	lr: 2.5600000000000001e-06
episode: 2463	score: 4.0	memory length: 580759	epsilon: 0.04809520000853436	steps: 261	lr: 2.5600000000000001e-06
episode: 2464	score: 5.0	memory length: 581053	epsilon: 0.047513080008534755	steps: 294	lr: 2.5600000000000001e-06
episode: 2465	score: 6.0	memory length: 581408	epsilon: 0.046810180008535235	steps: 355	lr: 2.5600000000000001e-06
episode: 2466	score: 11.0	memory length: 581945	epsilon: 0.04574692000853596	steps: 537	lr: 2.5600000000000001e-06
episode: 2467	score: 9.0	memory length: 582454	epsilon: 0.04473910000853665	steps: 509	lr: 2.5600000000000001e-06
episode: 2468	score: 8.0	memory length: 582858	epsilon: 0.04393918000853719	steps: 404	lr: 2.5600000000000001e-06
episode: 2469	score: 7.0	memory length: 583288	epsilon: 0.043087780008537774	steps: 430	lr: 2.5600000000000001e-06
episode: 2470	score: 8.0	memory length: 583732	epsilon: 0.04220866000853837	steps: 444	lr: 2.5600000000000001e-06
episode: 2471	score: 6.0	memory length: 584107	epsilon: 0.04146616000853888	steps: 375	lr: 2.5600000000000001e-06
episode: 2472	score: 6.0	memory length: 584448	epsilon: 0.04079098000853934	steps: 341	lr: 2.5600000000000001e-06
episode: 2473	score: 5.0	memory length: 584722	epsilon: 0.04024846000853971	steps: 274	lr: 2.5600000000000001e-06
episode: 2474	score: 8.0	memory length: 585178	epsilon: 0.039345580008540326	steps: 456	lr: 2.5600000000000001e-06
episode: 2475	score: 7.0	memory length: 585584	epsilon: 0.038541700008540875	steps: 406	lr: 2.5600000000000001e-06
episode: 2476	score: 10.0	memory length: 586156	epsilon: 0.03740914000854165	steps: 572	lr: 2.5600000000000001e-06
episode: 2477	score: 10.0	memory length: 586640	epsilon: 0.0364508200085423	steps: 484	lr: 2.5600000000000001e-06
episode: 2478	score: 6.0	memory length: 587020	epsilon: 0.035698420008542814	steps: 380	lr: 2.5600000000000001e-06
episode: 2479	score: 6.0	memory length: 587372	epsilon: 0.03500146000854329	steps: 352	lr: 2.5600000000000001e-06
episode: 2480	score: 6.0	memory length: 587725	epsilon: 0.034302520008543766	steps: 353	lr: 2.5600000000000001e-06
episode: 2481	score: 6.0	memory length: 588124	epsilon: 0.033512500008544305	steps: 399	lr: 2.5600000000000001e-06
episode: 2482	score: 5.0	memory length: 588430	epsilon: 0.03290662000854472	steps: 306	lr: 2.5600000000000001e-06
episode: 2483	score: 7.0	memory length: 588814	epsilon: 0.03214630000854524	steps: 384	lr: 2.5600000000000001e-06
episode: 2484	score: 8.0	memory length: 589236	epsilon: 0.031310740008545807	steps: 422	lr: 2.5600000000000001e-06
episode: 2485	score: 7.0	memory length: 589624	epsilon: 0.03054250000854633	steps: 388	lr: 2.5600000000000001e-06
episode: 2486	score: 9.0	memory length: 590096	epsilon: 0.029607940008546968	steps: 472	lr: 2.5600000000000001e-06
episode: 2487	score: 4.0	memory length: 590374	epsilon: 0.029057500008547343	steps: 278	lr: 2.5600000000000001e-06
episode: 2488	score: 6.0	memory length: 590771	epsilon: 0.02827144000854788	steps: 397	lr: 2.5600000000000001e-06
episode: 2489	score: 7.0	memory length: 591196	epsilon: 0.027429940008548453	steps: 425	lr: 2.5600000000000001e-06
episode: 2490	score: 10.0	memory length: 591704	epsilon: 0.02642410000854914	steps: 508	lr: 2.5600000000000001e-06
episode: 2491	score: 7.0	memory length: 592081	epsilon: 0.02567764000854965	steps: 377	lr: 2.5600000000000001e-06
episode: 2492	score: 8.0	memory length: 592538	epsilon: 0.024772780008550266	steps: 457	lr: 2.5600000000000001e-06
episode: 2493	score: 7.0	memory length: 592943	epsilon: 0.023970880008550813	steps: 405	lr: 2.5600000000000001e-06
episode: 2494	score: 5.0	memory length: 593250	epsilon: 0.023363020008551227	steps: 307	lr: 2.5600000000000001e-06
episode: 2495	score: 4.0	memory length: 593528	epsilon: 0.022812580008551603	steps: 278	lr: 2.5600000000000001e-06
episode: 2496	score: 5.0	memory length: 593853	epsilon: 0.022169080008552042	steps: 325	lr: 2.5600000000000001e-06
episode: 2497	score: 10.0	memory length: 594389	epsilon: 0.021107800008552766	steps: 536	lr: 2.5600000000000001e-06
episode: 2498	score: 9.0	memory length: 594856	epsilon: 0.020183140008553396	steps: 467	lr: 2.5600000000000001e-06
episode: 2499	score: 5.0	memory length: 595179	epsilon: 0.019543600008553833	steps: 323	lr: 2.5600000000000001e-06

Episodes vs Reward



▼ Visualize Agent Performance

BE AWARE THIS CODE BELOW MAY CRASH THE KERNEL IF YOU RUN THE SAME CELL TWICE.

Please save your model before running this portion of the code.

```
torch.save(agent.policy_net, "./save_model/breakout_dqn_agent_v4.pth")

/usr/local/lib/python3.10/dist-packages/ipykernel/ipkernel.py:283: DeprecationWarning: `should_run_async` will not call `traitlets.config.config.LoggingConfig.interpolate`
and should_run_async(code)

from gym.wrappers import RecordVideo # If importing monitor raises issues, try using `from gym.wrappers import RecordVideo`
import glob
import io
import base64

from IPython.display import HTML
from IPython import display as ipythondisplay

from pyvirtualdisplay import Display

# Displaying the game live
def show_state(env, step=0, info=""):
    plt.figure(3)
    plt.clf()
    plt.imshow(env.render(mode='rgb_array'))
    plt.title("%s | Step: %d %s" % ("Agent Playing", step, info))
    plt.axis('off')

    ipythondisplay.clear_output(wait=True)
    ipythondisplay.display(plt.gcf())

# Recording the game and replaying the game afterwards
def show_video():
    mp4list = glob.glob('video/*.mp4')
    if len(mp4list) > 0:
        mp4 = mp4list[0]
        video = io.open(mp4, 'r+b').read()
        encoded = base64.b64encode(video)
        ipythondisplay.display(HTML(data='''<video alt="test" autoplay
```

```

        loop controls style="height: 400px;">
        <source src="data:video/mp4;base64,{0}" type="video/mp4" />
    </video>'''.format(encoded.decode('ascii'))))
else:
    print("Could not find video")

def wrap_env(env):
    env = RecordVideo(env, './video')
    return env

import warnings
warnings.filterwarnings('ignore', category=UserWarning)
warnings.filterwarnings('ignore', category=DeprecationWarning)

display = Display(visible=0, size=(300, 200))
display.start()

# Load agent
agent.load_policy_net("./save_model/breakout_dqn_agent_v4.pth")
agent.epsilon = 0.0 # Set agent to only exploit the best action

env = gym.make('BreakoutDeterministic-v4', render_mode='rgb_array')
env = wrap_env(env)

done = False
score = 0
step = 0
state = env.reset()
next_state = state
life = number_lives
history = np.zeros([5, 84, 84], dtype=np.uint8)
get_init_state(history, state, 5)

while not done:

    # Render breakout
    env.render()
    # show_state(env,step) # uncommenting this provides another way to visualize the game

    step += 1
    frame += 1

    # Perform a fire action if ball is no longer on screen
    if step > 1 and len(np.unique(next_state[:189] == state[:189])) < 2:
        action = 0
    else:
        action = agent.get_action(np.float32(history[:4, :, :]) / 255.)
    state = next_state

    next_state, reward, done, info = env.step(action + 1)

    frame_next_state = get_frame(next_state)
    history[4, :, :] = frame_next_state
    terminal_state = check_live(life, info['lives'])

    life = info['lives']
    r = np.clip(reward, -1, 1)
    r = reward

    # Store the transition in memory
    agent.memory.push(deepcopy(frame_next_state), action, r, terminal_state)
    # Start training after random sample generation
    score += reward

    history[:4, :, :] = history[1:, :, :]
env.close()
show_video()
display.stop()

```

▼ Double DQN

▼ Creating a DQN Agent

Here we create a DQN Agent. This agent is defined in the **agent.py**. The corresponding neural network is defined in the **model.py**. Once you've created a working DQN agent, use the code in agent.py to create a double DQN agent in **agent_double.py**. Set the flag "double_dqn" to True to train the double DQN agent.

Evaluation Reward : The average reward received in the past 100 episodes/games.

Frame : Number of frames processed in total.

Memory Size : The current size of the replay memory.

```
double_dqn = True # set to True if using double DQN agent

if double_dqn:
    from agent_double import Agent
else:
    from agent import Agent

agent = Agent(action_size)
evaluation_reward = deque(maxlen=evaluation_reward_length)
frame = 0
memory_size = 0

%load_ext autoreload
%autoreload 2

cuda:0
The autoreload extension is already loaded. To reload it, use:
%reload_ext autoreload
```

▼ Main Training Loop for DQN

In this training loop, we do not render the screen because it slows down training significantly. To watch the agent play the game, run the code in next section "Visualize Agent Performance"

```
rewards, episodes = [], []
best_eval_reward = 0
for e in range(2500):
    done = False
    score = 0

    history = np.zeros([5, 84, 84], dtype=np.uint8)
    step = 0
    state = env.reset()
    next_state = state
    life = number_lives

    get_init_state(history, state, HISTORY_SIZE)
```

```

while not done:
    step += 1
    frame += 1

    # Perform a fire action if ball is no longer on screen to continue onto next life
    if step > 1 and len(np.unique(next_state[:189] == state[:189])) < 2:
        action = 0
    else:
        action = agent.get_action(np.float32(history[:4, :, :]) / 255.)
    state = next_state
    next_state, reward, done, info = env.step(action + 1)

    frame_next_state = get_frame(next_state)
    history[4, :, :] = frame_next_state
    terminal_state = check_live(life, info['lives'])

    life = info['lives']
    r = reward

    # Store the transition in memory
    agent.memory.push(deepcopy(frame_next_state), action, r, terminal_state)
    # Start training after random sample generation
    if(frame >= train_frame):
        agent.train_policy_net(frame)
        # Update the target network only for Double DQN only
        if double_dqn and (frame % update_target_network_frequency)== 0:
            agent.update_target_net()
    score += reward
    history[:4, :, :] = history[1:, :, :]

    if done:
        evaluation_reward.append(score)
        rewards.append(np.mean(evaluation_reward))
        episodes.append(e)
        pylab.plot(episodes, rewards, 'b')
        pylab.xlabel('Episodes')
        pylab.ylabel('Rewards')
        pylab.title('Episodes vs Reward')
        pylab.savefig("./save_graph/breakout_dqn_agent_v3_pallaw.png") # save graph for training visualization

    # every episode, plot the play time
    print("episode:", e, " score:", score, " memory length:",
          len(agent.memory), " epsilon:", agent.epsilon, " steps:", step,
          " lr:", agent.optimizer.param_groups[0]['lr'], " evaluation reward:", np.mean(evaluation_reward))

    # if the mean of scores of last 100 episode is bigger than 5 save model
    ### Change this save condition to whatever you prefer ###
    if np.mean(evaluation_reward) > 5 and np.mean(evaluation_reward) > best_eval_reward:
        torch.save(agent.policy_net, "./save_model/breakout_dqn_agent_pallaw.pth")
        best_eval_reward = np.mean(evaluation_reward)

```

episode: 0	score: 3.0	memory length: 244	epsilon: 1.0	steps: 244	lr: 0.0001	evaluation reward: 3.0
episode: 1	score: 1.0	memory length: 396	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 2.0
episode: 2	score: 3.0	memory length: 662	epsilon: 1.0	steps: 266	lr: 0.0001	evaluation reward: 2.3333333
episode: 3	score: 1.0	memory length: 832	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 2.0
episode: 4	score: 3.0	memory length: 1099	epsilon: 1.0	steps: 267	lr: 0.0001	evaluation reward: 2.2
episode: 5	score: 2.0	memory length: 1301	epsilon: 1.0	steps: 202	lr: 0.0001	evaluation reward: 2.166666
episode: 6	score: 1.0	memory length: 1474	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 2.0
episode: 7	score: 2.0	memory length: 1673	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 2.0
episode: 8	score: 0.0	memory length: 1797	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.777777
episode: 9	score: 2.0	memory length: 1996	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.8
episode: 10	score: 2.0	memory length: 2196	epsilon: 1.0	steps: 200	lr: 0.0001	evaluation reward: 1.81818
episode: 11	score: 2.0	memory length: 2415	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.83333
episode: 12	score: 0.0	memory length: 2539	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.69230
episode: 13	score: 0.0	memory length: 2662	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.57142
episode: 14	score: 2.0	memory length: 2860	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.6
episode: 15	score: 3.0	memory length: 3128	epsilon: 1.0	steps: 268	lr: 0.0001	evaluation reward: 1.6875
episode: 16	score: 2.0	memory length: 3327	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.70588
episode: 17	score: 3.0	memory length: 3554	epsilon: 1.0	steps: 227	lr: 0.0001	evaluation reward: 1.77777
episode: 18	score: 4.0	memory length: 3851	epsilon: 1.0	steps: 297	lr: 0.0001	evaluation reward: 1.89473
episode: 19	score: 0.0	memory length: 3975	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.8
episode: 20	score: 0.0	memory length: 4098	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.71428
episode: 21	score: 2.0	memory length: 4297	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.72727
episode: 22	score: 0.0	memory length: 4420	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.65217
episode: 23	score: 2.0	memory length: 4622	epsilon: 1.0	steps: 202	lr: 0.0001	evaluation reward: 1.66666
episode: 24	score: 2.0	memory length: 4823	epsilon: 1.0	steps: 201	lr: 0.0001	evaluation reward: 1.68
episode: 25	score: 1.0	memory length: 4976	epsilon: 1.0	steps: 153	lr: 0.0001	evaluation reward: 1.65384
episode: 26	score: 0.0	memory length: 5099	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.59259
episode: 27	score: 2.0	memory length: 5298	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.60714
episode: 28	score: 5.0	memory length: 5587	epsilon: 1.0	steps: 289	lr: 0.0001	evaluation reward: 1.72413
episode: 29	score: 3.0	memory length: 5833	epsilon: 1.0	steps: 246	lr: 0.0001	evaluation reward: 1.76666
episode: 30	score: 0.0	memory length: 5957	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.70967
episode: 31	score: 0.0	memory length: 6080	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.65625
episode: 32	score: 3.0	memory length: 6349	epsilon: 1.0	steps: 269	lr: 0.0001	evaluation reward: 1.69696
episode: 33	score: 2.0	memory length: 6547	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.70588
episode: 34	score: 2.0	memory length: 6728	epsilon: 1.0	steps: 181	lr: 0.0001	evaluation reward: 1.71428
episode: 35	score: 0.0	memory length: 6852	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.66666
episode: 36	score: 2.0	memory length: 7051	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.67567
episode: 37	score: 0.0	memory length: 7175	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.63157
episode: 38	score: 2.0	memory length: 7373	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.64102
episode: 39	score: 3.0	memory length: 7645	epsilon: 1.0	steps: 272	lr: 0.0001	evaluation reward: 1.675
episode: 40	score: 1.0	memory length: 7797	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.65853
episode: 41	score: 4.0	memory length: 8075	epsilon: 1.0	steps: 278	lr: 0.0001	evaluation reward: 1.71428
episode: 42	score: 2.0	memory length: 8292	epsilon: 1.0	steps: 217	lr: 0.0001	evaluation reward: 1.72093
episode: 43	score: 3.0	memory length: 8541	epsilon: 1.0	steps: 249	lr: 0.0001	evaluation reward: 1.75
episode: 44	score: 3.0	memory length: 8787	epsilon: 1.0	steps: 246	lr: 0.0001	evaluation reward: 1.77777
episode: 45	score: 1.0	memory length: 8957	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.76086
episode: 46	score: 3.0	memory length: 9186	epsilon: 1.0	steps: 229	lr: 0.0001	evaluation reward: 1.78723
episode: 47	score: 3.0	memory length: 9433	epsilon: 1.0	steps: 247	lr: 0.0001	evaluation reward: 1.8125
episode: 48	score: 1.0	memory length: 9603	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.79591
episode: 49	score: 3.0	memory length: 9832	epsilon: 1.0	steps: 229	lr: 0.0001	evaluation reward: 1.82
episode: 50	score: 1.0	memory length: 9985	epsilon: 1.0	steps: 153	lr: 0.0001	evaluation reward: 1.80392
episode: 51	score: 2.0	memory length: 10186	epsilon: 1.0	steps: 201	lr: 0.0001	evaluation reward: 1.8076
episode: 52	score: 3.0	memory length: 10454	epsilon: 1.0	steps: 268	lr: 0.0001	evaluation reward: 1.8301
episode: 53	score: 2.0	memory length: 10670	epsilon: 1.0	steps: 216	lr: 0.0001	evaluation reward: 1.8333
episode: 54	score: 3.0	memory length: 10900	epsilon: 1.0	steps: 230	lr: 0.0001	evaluation reward: 1.8545
episode: 55	score: 2.0	memory length: 11081	epsilon: 1.0	steps: 181	lr: 0.0001	evaluation reward: 1.8571
episode: 56	score: 3.0	memory length: 11345	epsilon: 1.0	steps: 264	lr: 0.0001	evaluation reward: 1.8771
episode: 57	score: 0.0	memory length: 11468	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.8448
episode: 58	score: 1.0	memory length: 11620	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.8305
episode: 59	score: 1.0	memory length: 11790	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.8166
episode: 60	score: 3.0	memory length: 12034	epsilon: 1.0	steps: 244	lr: 0.0001	evaluation reward: 1.8360
episode: 61	score: 0.0	memory length: 12158	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.8064
episode: 62	score: 2.0	memory length: 12357	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.8095
episode: 63	score: 2.0	memory length: 12556	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.8125
episode: 64	score: 2.0	memory length: 12754	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.8153
episode: 65	score: 4.0	memory length: 13045	epsilon: 1.0	steps: 291	lr: 0.0001	evaluation reward: 1.8484
episode: 66	score: 1.0	memory length: 13215	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.8358
episode: 67	score: 0.0	memory length: 13339	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.8088
episode: 68	score: 2.0	memory length: 13558	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.8115
episode: 69	score: 2.0	memory length: 13775	epsilon: 1.0	steps: 217	lr: 0.0001	evaluation reward: 1.8142
episode: 70	score: 0.0	memory length: 13899	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.7887
episode: 71	score: 0.0	memory length: 14022	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.7638
episode: 72	score: 3.0	memory length: 14289	epsilon: 1.0	steps: 267	lr: 0.0001	evaluation reward: 1.7808
episode: 73	score: 2.0	memory length: 14508	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.7837
episode: 74	score: 0.0	memory length: 14631	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.76
episode: 75	score: 2.0	memory length: 14849	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.7631
episode: 76	score: 2.0	memory length: 15069	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.7662
episode: 77	score: 1.0	memory length: 15239	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.7564
episode: 78	score: 0.0	memory length: 15362	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.7341
episode: 79	score: 0.0	memory length: 15486	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.7125
episode: 80	score: 1.0	memory length: 15659	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 1.7037
episode: 81	score: 2.0	memory length: 15858	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.7073
episode: 82	score: 0.0	memory length: 15982	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.6867
episode: 83	score: 0.0	memory length: 16106	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.6666
episode: 84	score: 0.0	memory length: 16205	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.6705

episode: 84 score: 2.0 memory length: 16305 epsilon: 1.0 steps: 199 lr: 0.0001 evaluation reward: 1.6705

▼ Visualize Agent Performance

episode: 89 score: 4.0 memory length: 17106 epsilon: 1.0 steps: 278 lr: 0.0001 evaluation reward: 1.6333

BE AWARE THIS CODE BELOW MAY CRASH THE KERNEL IF YOU RUN THE SAME CELL TWICE.

Please save your model before running this portion of the code.

episode: 94 score: 3.0 memory length: 17391 epsilon: 1.0 steps: 208 lr: 0.0001 evaluation reward: 1.6105

```
torch.save(agent.policy_net, "./save_model/breakout_dqn_agent_v4.pth")
```

```
/usr/local/lib/python3.10/dist-packages/ipykernel/ipkernel.py:283: DeprecationWarning: `should_run_async` will not call `traitlets.config.config.get_config`
and should_run_async(code)
```

episode: 100 score: 2.0 memory length: 19391 epsilon: 1.0 steps: 219 lr: 0.0001 evaluation reward: 1.69

```
from gym.wrappers import RecordVideo # If importing monitor raises issues, try using `from gym.wrappers import RecordVideo`
import glob
import io
import base64
```

```
from IPython.display import HTML
from IPython import display as ipythondisplay
```

```
from pyvirtualdisplay import Display
```

```
# Displaying the game live
```

```
def show_state(env, step=0, info=""):
    plt.figure(3)
    plt.clf()
    plt.imshow(env.render(mode='rgb_array'))
    plt.title("%s | Step: %d %s" % ("Agent Playing", step, info))
    plt.axis('off')
```

```
ipythondisplay.clear_output(wait=True)
ipythondisplay.display(plt.gcf())
```

```
# Recording the game and replaying the game afterwards
```

```
def show_video():
    mp4list = glob.glob('video/*.mp4')
    if len(mp4list) > 0:
        mp4 = mp4list[0]
        video = io.open(mp4, 'r+b').read()
        encoded = base64.b64encode(video)
        ipythondisplay.display(HTML(data='''<video alt="test" autoplay
loop controls style="height: 400px;">
<source src="data:video/mp4;base64,{0}" type="video/mp4" />
</video>'''.format(encoded.decode('ascii'))))
    else:
        print("Could not find video")
```

```
def wrap_env(env):
    env = RecordVideo(env, './video')
    return env
```

episode: 145 score: 0.0 memory length: 27920 epsilon: 1.0 steps: 123 lr: 0.0001 evaluation reward: 1.59

```
import warnings
warnings.filterwarnings('ignore', category=UserWarning)
warnings.filterwarnings('ignore', category=DeprecationWarning)
```

```
display = Display(visible=0, size=(300, 200))
display.start()
```

```
# Load agent
```

```
agent.load_policy_net("./save_model/breakout_dqn_agent_v4.pth")
agent.epsilon = 0.0 # Set agent to only exploit the best action
```

```
env = gym.make('BreakoutDeterministic-v4', render_mode='rgb_array')
env = wrap_env(env)
```

```
done = False
score = 0
step = 0
state = env.reset()
next_state = state
life = number_lives
```

```

history = np.zeros([5, 84, 84], dtype=np.uint8)
get_init_state(history, state, 5)

while not done:

    # Render breakout
    env.render()
    # show_state(env,step) # uncommenting this provides another way to visualize the game

    step += 1
    frame += 1

    # Perform a fire action if ball is no longer on screen
    if step > 1 and len(np.unique(next_state[:189] == state[:189])) < 2:
        action = 0
    else:
        action = agent.get_action(np.float32(history[:4, :, :]) / 255.)
    state = next_state

    next_state, reward, done, info = env.step(action + 1)

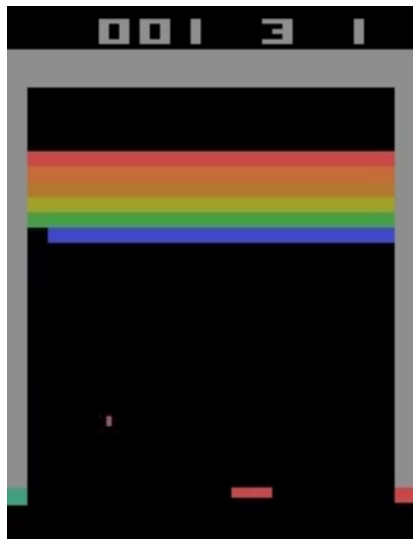
    frame_next_state = get_frame(next_state)
    history[4, :, :] = frame_next_state
    terminal_state = check_live(life, info['lives'])

    life = info['lives']
    r = np.clip(reward, -1, 1)
    r = reward

    # Store the transition in memory
    agent.memory.push(deepcopy(frame_next_state), action, r, terminal_state)
    # Start training after random sample generation
    score += reward

    history[:4, :, :] = history[1:, :, :]
env.close()
show_video()
display.stop()

```



<pyvirtualdisplay.Display at 0x7f20a98d67d0>

episode	score	memory length	epsilon	steps	lr	evaluation reward
episode: 237	score: 0.0	memory length: 44880	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.5
episode: 238	score: 1.0	memory length: 45032	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.51
episode: 239	score: 1.0	memory length: 45184	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.5
episode: 240	score: 1.0	memory length: 45353	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.49
episode: 241	score: 0.0	memory length: 45476	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.49
episode: 242	score: 0.0	memory length: 45599	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.49
episode: 243	score: 1.0	memory length: 45771	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.47
episode: 244	score: 2.0	memory length: 45975	epsilon: 1.0	steps: 204	lr: 0.0001	evaluation reward: 1.46
episode: 245	score: 1.0	memory length: 46145	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.47
episode: 246	score: 1.0	memory length: 46297	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.45
episode: 247	score: 0.0	memory length: 46420	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.45
episode: 248	score: 2.0	memory length: 46605	epsilon: 1.0	steps: 185	lr: 0.0001	evaluation reward: 1.47
episode: 249	score: 2.0	memory length: 46825	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.48
episode: 250	score: 0.0	memory length: 46949	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.47
episode: 251	score: 1.0	memory length: 47100	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.46
episode: 252	score: 2.0	memory length: 47302	epsilon: 1.0	steps: 202	lr: 0.0001	evaluation reward: 1.45
episode: 253	score: 0.0	memory length: 47426	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.44

episode: 254	score: 0.0	memory length: 47550	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.42
episode: 255	score: 0.0	memory length: 47673	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.4
episode: 256	score: 4.0	memory length: 47946	epsilon: 1.0	steps: 273	lr: 0.0001	evaluation reward: 1.42
episode: 257	score: 2.0	memory length: 48145	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.4
episode: 258	score: 3.0	memory length: 48391	epsilon: 1.0	steps: 246	lr: 0.0001	evaluation reward: 1.43
episode: 259	score: 3.0	memory length: 48625	epsilon: 1.0	steps: 234	lr: 0.0001	evaluation reward: 1.44
episode: 260	score: 8.0	memory length: 48965	epsilon: 1.0	steps: 340	lr: 0.0001	evaluation reward: 1.51
episode: 261	score: 0.0	memory length: 49089	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.5
episode: 262	score: 4.0	memory length: 49341	epsilon: 1.0	steps: 252	lr: 0.0001	evaluation reward: 1.53
episode: 263	score: 2.0	memory length: 49540	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.52
episode: 264	score: 2.0	memory length: 49721	epsilon: 1.0	steps: 181	lr: 0.0001	evaluation reward: 1.53
episode: 265	score: 1.0	memory length: 49872	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.5
episode: 266	score: 1.0	memory length: 50044	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.48
episode: 267	score: 3.0	memory length: 50292	epsilon: 1.0	steps: 248	lr: 0.0001	evaluation reward: 1.51
episode: 268	score: 1.0	memory length: 50445	epsilon: 1.0	steps: 153	lr: 0.0001	evaluation reward: 1.5
episode: 269	score: 1.0	memory length: 50614	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.49
episode: 270	score: 3.0	memory length: 50843	epsilon: 1.0	steps: 229	lr: 0.0001	evaluation reward: 1.52
episode: 271	score: 4.0	memory length: 51140	epsilon: 1.0	steps: 297	lr: 0.0001	evaluation reward: 1.53
episode: 272	score: 2.0	memory length: 51360	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.47
episode: 273	score: 3.0	memory length: 51608	epsilon: 1.0	steps: 248	lr: 0.0001	evaluation reward: 1.49
episode: 274	score: 1.0	memory length: 51777	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.5
episode: 275	score: 2.0	memory length: 51995	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.52
episode: 276	score: 3.0	memory length: 52221	epsilon: 1.0	steps: 226	lr: 0.0001	evaluation reward: 1.54
episode: 277	score: 0.0	memory length: 52345	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.54
episode: 278	score: 0.0	memory length: 52469	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.53
episode: 279	score: 0.0	memory length: 52592	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.51
episode: 280	score: 2.0	memory length: 52773	epsilon: 1.0	steps: 181	lr: 0.0001	evaluation reward: 1.51
episode: 281	score: 3.0	memory length: 53021	epsilon: 1.0	steps: 248	lr: 0.0001	evaluation reward: 1.53
episode: 282	score: 1.0	memory length: 53193	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.54
episode: 283	score: 2.0	memory length: 53392	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.55
episode: 284	score: 0.0	memory length: 53515	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.53
episode: 285	score: 0.0	memory length: 53638	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.5
episode: 286	score: 0.0	memory length: 53761	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.49
episode: 287	score: 4.0	memory length: 54017	epsilon: 1.0	steps: 256	lr: 0.0001	evaluation reward: 1.53
episode: 288	score: 0.0	memory length: 54140	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.53
episode: 289	score: 1.0	memory length: 54292	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.54
episode: 290	score: 0.0	memory length: 54416	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.51
episode: 291	score: 8.0	memory length: 54829	epsilon: 1.0	steps: 413	lr: 0.0001	evaluation reward: 1.58
episode: 292	score: 0.0	memory length: 54952	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.55
episode: 293	score: 2.0	memory length: 55133	epsilon: 1.0	steps: 181	lr: 0.0001	evaluation reward: 1.53
episode: 294	score: 2.0	memory length: 55332	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.48
episode: 295	score: 1.0	memory length: 55504	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.49
episode: 296	score: 4.0	memory length: 55803	epsilon: 1.0	steps: 299	lr: 0.0001	evaluation reward: 1.52
episode: 297	score: 4.0	memory length: 56118	epsilon: 1.0	steps: 315	lr: 0.0001	evaluation reward: 1.54
episode: 298	score: 2.0	memory length: 56317	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.54
episode: 299	score: 2.0	memory length: 56516	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.55
episode: 300	score: 1.0	memory length: 56667	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.54
episode: 301	score: 0.0	memory length: 56790	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.54
episode: 302	score: 2.0	memory length: 57010	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.55
episode: 303	score: 3.0	memory length: 57280	epsilon: 1.0	steps: 270	lr: 0.0001	evaluation reward: 1.57
episode: 304	score: 3.0	memory length: 57492	epsilon: 1.0	steps: 212	lr: 0.0001	evaluation reward: 1.59
episode: 305	score: 0.0	memory length: 57616	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.56
episode: 306	score: 0.0	memory length: 57740	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.54
episode: 307	score: 1.0	memory length: 57892	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.54
episode: 308	score: 0.0	memory length: 58015	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.53
episode: 309	score: 3.0	memory length: 58267	epsilon: 1.0	steps: 252	lr: 0.0001	evaluation reward: 1.55
episode: 310	score: 1.0	memory length: 58437	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.55
episode: 311	score: 3.0	memory length: 58684	epsilon: 1.0	steps: 247	lr: 0.0001	evaluation reward: 1.55
episode: 312	score: 1.0	memory length: 58853	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.56
episode: 313	score: 1.0	memory length: 59025	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.55
episode: 314	score: 4.0	memory length: 59305	epsilon: 1.0	steps: 280	lr: 0.0001	evaluation reward: 1.58
episode: 315	score: 2.0	memory length: 59504	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.59
episode: 316	score: 1.0	memory length: 59677	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 1.6
episode: 317	score: 1.0	memory length: 59829	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.61
episode: 318	score: 3.0	memory length: 60077	epsilon: 1.0	steps: 248	lr: 0.0001	evaluation reward: 1.61
episode: 319	score: 0.0	memory length: 60201	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.6
episode: 320	score: 4.0	memory length: 60501	epsilon: 1.0	steps: 300	lr: 0.0001	evaluation reward: 1.59
episode: 321	score: 1.0	memory length: 60673	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.6
episode: 322	score: 3.0	memory length: 60920	epsilon: 1.0	steps: 247	lr: 0.0001	evaluation reward: 1.62
episode: 323	score: 0.0	memory length: 61043	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.61
episode: 324	score: 2.0	memory length: 61261	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.62
episode: 325	score: 2.0	memory length: 61460	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.61
episode: 326	score: 3.0	memory length: 61709	epsilon: 1.0	steps: 249	lr: 0.0001	evaluation reward: 1.61
episode: 327	score: 0.0	memory length: 61832	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.6
episode: 328	score: 2.0	memory length: 62031	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.61
episode: 329	score: 2.0	memory length: 62229	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.63
episode: 330	score: 0.0	memory length: 62353	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.62
episode: 331	score: 4.0	memory length: 62652	epsilon: 1.0	steps: 299	lr: 0.0001	evaluation reward: 1.64
episode: 332	score: 2.0	memory length: 62872	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.65
episode: 333	score: 0.0	memory length: 62996	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.65
episode: 334	score: 1.0	memory length: 63167	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.64
episode: 335	score: 0.0	memory length: 63290	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.63
episode: 336	score: 0.0	memory length: 63413	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.62
episode: 337	score: 2.0	memory length: 63593	epsilon: 1.0	steps: 180	lr: 0.0001	evaluation reward: 1.64
episode: 338	score: 4.0	memory length: 63876	epsilon: 1.0	steps: 283	lr: 0.0001	evaluation reward: 1.67

episode: 339	score: 2.0	memory length: 64074	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.68
episode: 340	score: 0.0	memory length: 64197	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.67
episode: 341	score: 0.0	memory length: 64320	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.67
episode: 342	score: 0.0	memory length: 64444	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.67
episode: 343	score: 2.0	memory length: 64662	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.68
episode: 344	score: 1.0	memory length: 64832	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.67
episode: 345	score: 2.0	memory length: 65052	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.68
episode: 346	score: 0.0	memory length: 65176	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.67
episode: 347	score: 2.0	memory length: 65374	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.69
episode: 348	score: 1.0	memory length: 65545	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.68
episode: 349	score: 1.0	memory length: 65715	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.67
episode: 350	score: 2.0	memory length: 65913	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.69
episode: 351	score: 3.0	memory length: 66140	epsilon: 1.0	steps: 227	lr: 0.0001	evaluation reward: 1.71
episode: 352	score: 4.0	memory length: 66434	epsilon: 1.0	steps: 294	lr: 0.0001	evaluation reward: 1.73
episode: 353	score: 0.0	memory length: 66558	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.73
episode: 354	score: 2.0	memory length: 66777	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.75
episode: 355	score: 0.0	memory length: 66900	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.75
episode: 356	score: 2.0	memory length: 67098	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.73
episode: 357	score: 3.0	memory length: 67343	epsilon: 1.0	steps: 245	lr: 0.0001	evaluation reward: 1.74
episode: 358	score: 2.0	memory length: 67524	epsilon: 1.0	steps: 181	lr: 0.0001	evaluation reward: 1.73
episode: 359	score: 2.0	memory length: 67723	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.72
episode: 360	score: 0.0	memory length: 67846	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.64
episode: 361	score: 1.0	memory length: 68017	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.65
episode: 362	score: 1.0	memory length: 68186	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.62
episode: 363	score: 0.0	memory length: 68310	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.6
episode: 364	score: 0.0	memory length: 68433	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.58
episode: 365	score: 0.0	memory length: 68557	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.57
episode: 366	score: 3.0	memory length: 68823	epsilon: 1.0	steps: 266	lr: 0.0001	evaluation reward: 1.59
episode: 367	score: 1.0	memory length: 68975	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.57
episode: 368	score: 3.0	memory length: 69205	epsilon: 1.0	steps: 230	lr: 0.0001	evaluation reward: 1.59
episode: 369	score: 0.0	memory length: 69329	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.58
episode: 370	score: 0.0	memory length: 69453	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.55
episode: 371	score: 3.0	memory length: 69701	epsilon: 1.0	steps: 248	lr: 0.0001	evaluation reward: 1.54
episode: 372	score: 1.0	memory length: 69852	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.53
episode: 373	score: 2.0	memory length: 70051	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.52
episode: 374	score: 2.0	memory length: 70252	epsilon: 1.0	steps: 201	lr: 0.0001	evaluation reward: 1.53
episode: 375	score: 0.0	memory length: 70375	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.51
episode: 376	score: 2.0	memory length: 70595	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.5
episode: 377	score: 5.0	memory length: 70940	epsilon: 1.0	steps: 345	lr: 0.0001	evaluation reward: 1.55
episode: 378	score: 7.0	memory length: 71324	epsilon: 1.0	steps: 384	lr: 0.0001	evaluation reward: 1.62
episode: 379	score: 2.0	memory length: 71540	epsilon: 1.0	steps: 216	lr: 0.0001	evaluation reward: 1.64
episode: 380	score: 5.0	memory length: 71883	epsilon: 1.0	steps: 343	lr: 0.0001	evaluation reward: 1.67
episode: 381	score: 0.0	memory length: 72007	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.64
episode: 382	score: 2.0	memory length: 72206	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.65
episode: 383	score: 6.0	memory length: 72580	epsilon: 1.0	steps: 374	lr: 0.0001	evaluation reward: 1.69
episode: 384	score: 0.0	memory length: 72704	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.69
episode: 385	score: 4.0	memory length: 72999	epsilon: 1.0	steps: 295	lr: 0.0001	evaluation reward: 1.73
episode: 386	score: 0.0	memory length: 73123	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.73
episode: 387	score: 2.0	memory length: 73342	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.71
episode: 388	score: 1.0	memory length: 73512	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.72
episode: 389	score: 4.0	memory length: 73788	epsilon: 1.0	steps: 276	lr: 0.0001	evaluation reward: 1.75
episode: 390	score: 3.0	memory length: 74016	epsilon: 1.0	steps: 228	lr: 0.0001	evaluation reward: 1.78
episode: 391	score: 3.0	memory length: 74227	epsilon: 1.0	steps: 211	lr: 0.0001	evaluation reward: 1.73
episode: 392	score: 0.0	memory length: 74351	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.73
episode: 393	score: 1.0	memory length: 74521	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.72
episode: 394	score: 1.0	memory length: 74672	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.71
episode: 395	score: 1.0	memory length: 74823	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.71
episode: 396	score: 2.0	memory length: 75024	epsilon: 1.0	steps: 201	lr: 0.0001	evaluation reward: 1.69
episode: 397	score: 3.0	memory length: 75255	epsilon: 1.0	steps: 231	lr: 0.0001	evaluation reward: 1.68
episode: 398	score: 1.0	memory length: 75408	epsilon: 1.0	steps: 153	lr: 0.0001	evaluation reward: 1.67
episode: 399	score: 3.0	memory length: 75659	epsilon: 1.0	steps: 251	lr: 0.0001	evaluation reward: 1.68
episode: 400	score: 0.0	memory length: 75783	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.67
episode: 401	score: 5.0	memory length: 76128	epsilon: 1.0	steps: 345	lr: 0.0001	evaluation reward: 1.72
episode: 402	score: 2.0	memory length: 76345	epsilon: 1.0	steps: 217	lr: 0.0001	evaluation reward: 1.72
episode: 403	score: 2.0	memory length: 76565	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.71
episode: 404	score: 1.0	memory length: 76735	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.69
episode: 405	score: 1.0	memory length: 76905	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.7
episode: 406	score: 4.0	memory length: 77180	epsilon: 1.0	steps: 275	lr: 0.0001	evaluation reward: 1.74
episode: 407	score: 0.0	memory length: 77304	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.73
episode: 408	score: 2.0	memory length: 77522	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.75
episode: 409	score: 0.0	memory length: 77646	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.72
episode: 410	score: 1.0	memory length: 77817	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.72
episode: 411	score: 0.0	memory length: 77940	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.69
episode: 412	score: 1.0	memory length: 78113	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 1.69
episode: 413	score: 3.0	memory length: 78380	epsilon: 1.0	steps: 267	lr: 0.0001	evaluation reward: 1.71
episode: 414	score: 2.0	memory length: 78582	epsilon: 1.0	steps: 202	lr: 0.0001	evaluation reward: 1.69
episode: 415	score: 0.0	memory length: 78706	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.67
episode: 416	score: 3.0	memory length: 78975	epsilon: 1.0	steps: 269	lr: 0.0001	evaluation reward: 1.69
episode: 417	score: 0.0	memory length: 79099	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.68
episode: 418	score: 2.0	memory length: 79297	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.67
episode: 419	score: 4.0	memory length: 79573	epsilon: 1.0	steps: 276	lr: 0.0001	evaluation reward: 1.71
episode: 420	score: 1.0	memory length: 79725	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.68
episode: 421	score: 1.0	memory length: 79895	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.68
episode: 422	score: 0.0	memory length: 80019	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.65
episode: 423	score: 2.0	memory length: 80218	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.67

episode: 423	score: 2.0	memory length: 80210	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.67
episode: 424	score: 0.0	memory length: 80342	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.65
episode: 425	score: 1.0	memory length: 80494	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.64
episode: 426	score: 1.0	memory length: 80666	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.62
episode: 427	score: 0.0	memory length: 80790	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.62
episode: 428	score: 1.0	memory length: 80962	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.61
episode: 429	score: 3.0	memory length: 81207	epsilon: 1.0	steps: 245	lr: 0.0001	evaluation reward: 1.62
episode: 430	score: 2.0	memory length: 81426	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.64
episode: 431	score: 2.0	memory length: 81624	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.62
episode: 432	score: 0.0	memory length: 81747	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.6
episode: 433	score: 2.0	memory length: 81946	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.62
episode: 434	score: 0.0	memory length: 82069	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.61
episode: 435	score: 1.0	memory length: 82221	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.62
episode: 436	score: 0.0	memory length: 82345	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.62
episode: 437	score: 1.0	memory length: 82516	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.61
episode: 438	score: 1.0	memory length: 82669	epsilon: 1.0	steps: 153	lr: 0.0001	evaluation reward: 1.58
episode: 439	score: 0.0	memory length: 82792	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.56
episode: 440	score: 1.0	memory length: 82962	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.57
episode: 441	score: 5.0	memory length: 83270	epsilon: 1.0	steps: 308	lr: 0.0001	evaluation reward: 1.62
episode: 442	score: 1.0	memory length: 83421	epsilon: 1.0	steps: 151	lr: 0.0001	evaluation reward: 1.63
episode: 443	score: 1.0	memory length: 83593	epsilon: 1.0	steps: 172	lr: 0.0001	evaluation reward: 1.62
episode: 444	score: 0.0	memory length: 83717	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.61
episode: 445	score: 0.0	memory length: 83841	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.59
episode: 446	score: 2.0	memory length: 84060	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.61
episode: 447	score: 2.0	memory length: 84258	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.61
episode: 448	score: 0.0	memory length: 84381	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.6
episode: 449	score: 0.0	memory length: 84505	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.59
episode: 450	score: 3.0	memory length: 84776	epsilon: 1.0	steps: 271	lr: 0.0001	evaluation reward: 1.6
episode: 451	score: 1.0	memory length: 84946	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.58
episode: 452	score: 2.0	memory length: 85144	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.56
episode: 453	score: 0.0	memory length: 85268	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.56
episode: 454	score: 2.0	memory length: 85487	epsilon: 1.0	steps: 219	lr: 0.0001	evaluation reward: 1.56
episode: 455	score: 4.0	memory length: 85763	epsilon: 1.0	steps: 276	lr: 0.0001	evaluation reward: 1.6
episode: 456	score: 4.0	memory length: 86079	epsilon: 1.0	steps: 316	lr: 0.0001	evaluation reward: 1.62
episode: 457	score: 1.0	memory length: 86248	epsilon: 1.0	steps: 169	lr: 0.0001	evaluation reward: 1.6
episode: 458	score: 3.0	memory length: 86517	epsilon: 1.0	steps: 269	lr: 0.0001	evaluation reward: 1.61
episode: 459	score: 1.0	memory length: 86687	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.6
episode: 460	score: 4.0	memory length: 86945	epsilon: 1.0	steps: 258	lr: 0.0001	evaluation reward: 1.64
episode: 461	score: 0.0	memory length: 87069	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.63
episode: 462	score: 0.0	memory length: 87193	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.62
episode: 463	score: 4.0	memory length: 87509	epsilon: 1.0	steps: 316	lr: 0.0001	evaluation reward: 1.66
episode: 464	score: 2.0	memory length: 87729	epsilon: 1.0	steps: 220	lr: 0.0001	evaluation reward: 1.68
episode: 465	score: 3.0	memory length: 87977	epsilon: 1.0	steps: 248	lr: 0.0001	evaluation reward: 1.71
episode: 466	score: 3.0	memory length: 88245	epsilon: 1.0	steps: 268	lr: 0.0001	evaluation reward: 1.71
episode: 467	score: 0.0	memory length: 88369	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.7
episode: 468	score: 2.0	memory length: 88568	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.69
episode: 469	score: 2.0	memory length: 88767	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.71
episode: 470	score: 4.0	memory length: 89024	epsilon: 1.0	steps: 257	lr: 0.0001	evaluation reward: 1.75
episode: 471	score: 2.0	memory length: 89223	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.74
episode: 472	score: 1.0	memory length: 89396	epsilon: 1.0	steps: 173	lr: 0.0001	evaluation reward: 1.74
episode: 473	score: 1.0	memory length: 89567	epsilon: 1.0	steps: 171	lr: 0.0001	evaluation reward: 1.73
episode: 474	score: 0.0	memory length: 89690	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.71
episode: 475	score: 1.0	memory length: 89860	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.72
episode: 476	score: 2.0	memory length: 90058	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.72
episode: 477	score: 2.0	memory length: 90276	epsilon: 1.0	steps: 218	lr: 0.0001	evaluation reward: 1.69
episode: 478	score: 0.0	memory length: 90399	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.62
episode: 479	score: 2.0	memory length: 90598	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.62
episode: 480	score: 0.0	memory length: 90721	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.57
episode: 481	score: 0.0	memory length: 90845	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.57
episode: 482	score: 0.0	memory length: 90968	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.55
episode: 483	score: 2.0	memory length: 91167	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.51
episode: 484	score: 1.0	memory length: 91337	epsilon: 1.0	steps: 170	lr: 0.0001	evaluation reward: 1.52
episode: 485	score: 3.0	memory length: 91565	epsilon: 1.0	steps: 228	lr: 0.0001	evaluation reward: 1.51
episode: 486	score: 3.0	memory length: 91833	epsilon: 1.0	steps: 268	lr: 0.0001	evaluation reward: 1.54
episode: 487	score: 3.0	memory length: 92062	epsilon: 1.0	steps: 229	lr: 0.0001	evaluation reward: 1.55
episode: 488	score: 5.0	memory length: 92408	epsilon: 1.0	steps: 346	lr: 0.0001	evaluation reward: 1.59
episode: 489	score: 3.0	memory length: 92655	epsilon: 1.0	steps: 247	lr: 0.0001	evaluation reward: 1.58
episode: 490	score: 2.0	memory length: 92854	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.57
episode: 491	score: 2.0	memory length: 93053	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.56
episode: 492	score: 0.0	memory length: 93177	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.56
episode: 493	score: 0.0	memory length: 93300	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.55
episode: 494	score: 4.0	memory length: 93595	epsilon: 1.0	steps: 295	lr: 0.0001	evaluation reward: 1.58
episode: 495	score: 0.0	memory length: 93718	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.57
episode: 496	score: 2.0	memory length: 93916	epsilon: 1.0	steps: 198	lr: 0.0001	evaluation reward: 1.57
episode: 497	score: 4.0	memory length: 94181	epsilon: 1.0	steps: 265	lr: 0.0001	evaluation reward: 1.58
episode: 498	score: 2.0	memory length: 94380	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.59
episode: 499	score: 1.0	memory length: 94532	epsilon: 1.0	steps: 152	lr: 0.0001	evaluation reward: 1.57
episode: 500	score: 2.0	memory length: 94731	epsilon: 1.0	steps: 199	lr: 0.0001	evaluation reward: 1.59
episode: 501	score: 0.0	memory length: 94854	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.54
episode: 502	score: 0.0	memory length: 94978	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.52
episode: 503	score: 0.0	memory length: 95102	epsilon: 1.0	steps: 124	lr: 0.0001	evaluation reward: 1.5
episode: 504	score: 5.0	memory length: 95431	epsilon: 1.0	steps: 329	lr: 0.0001	evaluation reward: 1.54
episode: 505	score: 0.0	memory length: 95554	epsilon: 1.0	steps: 123	lr: 0.0001	evaluation reward: 1.53
episode: 506	score: 4.0	memory length: 95824	epsilon: 1.0	steps: 270	lr: 0.0001	evaluation reward: 1.53
episode: 507	score: 3.0	memory length: 96052	epsilon: 1.0	steps: 228	lr: 0.0001	evaluation reward: 1.56

```

episode: 508 score: 3.0 memory length: 96279 epsilon: 1.0 steps: 227 lr: 0.0001 evaluation reward: 1.57
episode: 509 score: 3.0 memory length: 96505 epsilon: 1.0 steps: 226 lr: 0.0001 evaluation reward: 1.6
episode: 510 score: 2.0 memory length: 96704 epsilon: 1.0 steps: 199 lr: 0.0001 evaluation reward: 1.61
episode: 511 score: 0.0 memory length: 96828 epsilon: 1.0 steps: 124 lr: 0.0001 evaluation reward: 1.61
episode: 512 score: 0.0 memory length: 96952 epsilon: 1.0 steps: 124 lr: 0.0001 evaluation reward: 1.6
episode: 513 score: 1.0 memory length: 97103 epsilon: 1.0 steps: 151 lr: 0.0001 evaluation reward: 1.58
episode: 514 score: 2.0 memory length: 97322 epsilon: 1.0 steps: 219 lr: 0.0001 evaluation reward: 1.58
episode: 515 score: 0.0 memory length: 97445 epsilon: 1.0 steps: 123 lr: 0.0001 evaluation reward: 1.58
episode: 516 score: 3.0 memory length: 97692 epsilon: 1.0 steps: 247 lr: 0.0001 evaluation reward: 1.58
episode: 517 score: 1.0 memory length: 97861 epsilon: 1.0 steps: 169 lr: 0.0001 evaluation reward: 1.59
episode: 518 score: 3.0 memory length: 98130 epsilon: 1.0 steps: 269 lr: 0.0001 evaluation reward: 1.6
episode: 519 score: 2.0 memory length: 98329 epsilon: 1.0 steps: 199 lr: 0.0001 evaluation reward: 1.58
episode: 520 score: 0.0 memory length: 98452 epsilon: 1.0 steps: 123 lr: 0.0001 evaluation reward: 1.57
episode: 521 score: 0.0 memory length: 98576 epsilon: 1.0 steps: 124 lr: 0.0001 evaluation reward: 1.56
episode: 522 score: 2.0 memory length: 98774 epsilon: 1.0 steps: 198 lr: 0.0001 evaluation reward: 1.58
episode: 523 score: 1.0 memory length: 98943 epsilon: 1.0 steps: 169 lr: 0.0001 evaluation reward: 1.57
episode: 524 score: 0.0 memory length: 99067 epsilon: 1.0 steps: 124 lr: 0.0001 evaluation reward: 1.57
episode: 525 score: 0.0 memory length: 99191 epsilon: 1.0 steps: 124 lr: 0.0001 evaluation reward: 1.56
episode: 526 score: 1.0 memory length: 99360 epsilon: 1.0 steps: 169 lr: 0.0001 evaluation reward: 1.56
episode: 527 score: 3.0 memory length: 99570 epsilon: 1.0 steps: 210 lr: 0.0001 evaluation reward: 1.59
episode: 528 score: 2.0 memory length: 99769 epsilon: 1.0 steps: 199 lr: 0.0001 evaluation reward: 1.6
episode: 529 score: 2.0 memory length: 99988 epsilon: 1.0 steps: 219 lr: 0.0001 evaluation reward: 1.59
/content/gdrive/.shortcut-targets-by-id/1CyOdj2SP_pATjHElVctJ3S5_2D-1_IHK/assignment5_materials/memory.py:38: VisibleDep
sample = np.array(sample)
/content/gdrive/.shortcut-targets-by-id/1CyOdj2SP_pATjHElVctJ3S5_2D-1_IHK/assignment5_materials/memory.py:38: FutureWarn
sample = np.array(sample)
/content/gdrive/.shortcut-targets-by-id/1CyOdj2SP_pATjHElVctJ3S5_2D-1_IHK/assignment5_materials/agent_double.py:77: Visi
mini_batch = np.array(mini_batch).transpose()
/content/gdrive/.shortcut-targets-by-id/1CyOdj2SP_pATjHElVctJ3S5_2D-1_IHK/assignment5_materials/agent_double.py:96: User
next_states_value[mask] = self.target_net(next_states[mask]).max(1)[0].detach()
/usr/local/lib/python3.10/dist-packages/torch/optim/lr_scheduler.py:139: UserWarning: Detected call of `lr_scheduler.step
warnings.warn("Detected call of `lr_scheduler.step()` before `optimizer.step()`. ")
/content/gdrive/.shortcut-targets-by-id/1CyOdj2SP_pATjHElVctJ3S5_2D-1_IHK/assignment5_materials/agent_double.py:77: Futu
mini_batch = np.array(mini_batch).transpose()
episode: 530 score: 1.0 memory length: 100157 epsilon: 0.9996871600000068 steps: 169 lr: 0.0001 evaluati
episode: 531 score: 2.0 memory length: 100375 epsilon: 0.9992555200000162 steps: 218 lr: 0.0001 evaluati
episode: 532 score: 4.0 memory length: 100653 epsilon: 0.9987050800000281 steps: 278 lr: 0.0001 evaluati
episode: 533 score: 1.0 memory length: 100822 epsilon: 0.9983704600000354 steps: 169 lr: 0.0001 evaluati
episode: 534 score: 2.0 memory length: 101021 epsilon: 0.9979764400000439 steps: 199 lr: 0.0001 evaluati
episode: 535 score: 0.0 memory length: 101145 epsilon: 0.9977309200000493 steps: 124 lr: 0.0001 evaluati
episode: 536 score: 2.0 memory length: 101328 epsilon: 0.9973685800000571 steps: 183 lr: 0.0001 evaluati
episode: 537 score: 0.0 memory length: 101451 epsilon: 0.9971250400000624 steps: 123 lr: 0.0001 evaluati
episode: 538 score: 0.0 memory length: 101575 epsilon: 0.9968795200000677 steps: 124 lr: 0.0001 evaluati
episode: 539 score: 1.0 memory length: 101747 epsilon: 0.9965389600000751 steps: 172 lr: 0.0001 evaluati
episode: 540 score: 1.0 memory length: 101917 epsilon: 0.9962023600000824 steps: 170 lr: 0.0001 evaluati
episode: 541 score: 1.0 memory length: 102088 epsilon: 0.9958637800000898 steps: 171 lr: 0.0001 evaluati
episode: 542 score: 0.0 memory length: 102211 epsilon: 0.9956202400000951 steps: 123 lr: 0.0001 evaluati
episode: 543 score: 5.0 memory length: 102527 epsilon: 0.9949945600001087 steps: 316 lr: 0.0001 evaluati
episode: 544 score: 3.0 memory length: 102776 epsilon: 0.9945015400001194 steps: 249 lr: 0.0001 evaluati
episode: 545 score: 3.0 memory length: 103004 epsilon: 0.9940501000001292 steps: 228 lr: 0.0001 evaluati
episode: 546 score: 5.0 memory length: 103315 epsilon: 0.9934343200001425 steps: 311 lr: 0.0001 evaluati
episode: 547 score: 1.0 memory length: 103467 epsilon: 0.9931333600001491 steps: 152 lr: 0.0001 evaluati
episode: 548 score: 2.0 memory length: 103666 epsilon: 0.9927393400001576 steps: 199 lr: 0.0001 evaluati
episode: 549 score: 2.0 memory length: 103869 epsilon: 0.9923374000001663 steps: 203 lr: 0.0001 evaluati
episode: 550 score: 3.0 memory length: 104118 epsilon: 0.991844380000177 steps: 249 lr: 0.0001 evaluati
episode: 551 score: 1.0 memory length: 104288 epsilon: 0.9915077800001844 steps: 170 lr: 0.0001 evaluati
episode: 552 score: 1.0 memory length: 104440 epsilon: 0.9912068200001909 steps: 152 lr: 0.0001 evaluati
episode: 553 score: 0.0 memory length: 104563 epsilon: 0.9909632800001962 steps: 123 lr: 0.0001 evaluati
episode: 554 score: 0.0 memory length: 104687 epsilon: 0.9907177600002015 steps: 124 lr: 0.0001 evaluati
episode: 555 score: 2.0 memory length: 104909 epsilon: 0.990278200000211 steps: 222 lr: 0.0001 evaluati
episode: 556 score: 2.0 memory length: 105127 epsilon: 0.9898465600002204 steps: 218 lr: 0.0001 evaluati
episode: 557 score: 0.0 memory length: 105251 epsilon: 0.9896010400002258 steps: 124 lr: 0.0001 evaluati
episode: 558 score: 1.0 memory length: 105403 epsilon: 0.9893000800002323 steps: 152 lr: 0.0001 evaluati
episode: 559 score: 2.0 memory length: 105602 epsilon: 0.9889060600002408 steps: 199 lr: 0.0001 evaluati
episode: 560 score: 4.0 memory length: 105881 epsilon: 0.9883536400002528 steps: 279 lr: 0.0001 evaluati
episode: 561 score: 4.0 memory length: 106179 epsilon: 0.9877636000002656 steps: 298 lr: 0.0001 evaluati
episode: 562 score: 0.0 memory length: 106303 epsilon: 0.987518080000271 steps: 124 lr: 0.0001 evaluati
episode: 563 score: 0.0 memory length: 106426 epsilon: 0.9872745400002763 steps: 123 lr: 0.0001 evaluati
episode: 564 score: 1.0 memory length: 106596 epsilon: 0.9869379400002836 steps: 170 lr: 0.0001 evaluati
episode: 565 score: 0.0 memory length: 106719 epsilon: 0.9866944000002889 steps: 123 lr: 0.0001 evaluati
episode: 566 score: 1.0 memory length: 106871 epsilon: 0.9863934400002954 steps: 152 lr: 0.0001 evaluati
episode: 567 score: 1.0 memory length: 107044 epsilon: 0.9860509000003028 steps: 173 lr: 0.0001 evaluati
episode: 568 score: 1.0 memory length: 107215 epsilon: 0.9857123200003102 steps: 171 lr: 0.0001 evaluati
episode: 569 score: 1.0 memory length: 107385 epsilon: 0.9853757200003175 steps: 170 lr: 0.0001 evaluati
episode: 570 score: 1.0 memory length: 107536 epsilon: 0.985076740000324 steps: 151 lr: 0.0001 evaluati
episode: 571 score: 1.0 memory length: 107688 epsilon: 0.9847757800003305 steps: 152 lr: 0.0001 evaluati
episode: 572 score: 1.0 memory length: 107857 epsilon: 0.9844411600003378 steps: 169 lr: 0.0001 evaluati
episode: 573 score: 1.0 memory length: 108026 epsilon: 0.984106540000345 steps: 169 lr: 0.0001 evaluati
episode: 574 score: 4.0 memory length: 108303 epsilon: 0.9835808000003569 steps: 277 lr: 0.0001 evaluati
episode: 575 score: 3.0 memory length: 108548 epsilon: 0.9830729800003675 steps: 245 lr: 0.0001 evaluati
episode: 576 score: 3.0 memory length: 108818 epsilon: 0.9825383800003791 steps: 270 lr: 0.0001 evaluati
episode: 577 score: 0.0 memory length: 108942 epsilon: 0.9822928600003844 steps: 124 lr: 0.0001 evaluati
episode: 578 score: 1.0 memory length: 109112 epsilon: 0.9819562600003917 steps: 170 lr: 0.0001 evaluati
episode: 579 score: 0.0 memory length: 109236 epsilon: 0.981710740000397 steps: 124 lr: 0.0001 evaluati
episode: 580 score: 0.0 memory length: 109360 epsilon: 0.9814652200004024 steps: 124 lr: 0.0001 evaluati

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episode: 581	score: 0.0	memory length: 109483	epsilon: 0.9812216800004077	steps: 123	lr: 0.0001	evaluation
episode: 582	score: 0.0	memory length: 109607	epsilon: 0.980976160000413	steps: 124	lr: 0.0001	evaluation
episode: 583	score: 1.0	memory length: 109776	epsilon: 0.9806415400004203	steps: 169	lr: 0.0001	evaluation
episode: 584	score: 3.0	memory length: 110024	epsilon: 0.9801505000004309	steps: 248	lr: 0.0001	evaluation
episode: 585	score: 1.0	memory length: 110193	epsilon: 0.9798158800004382	steps: 169	lr: 0.0001	evaluation
episode: 586	score: 3.0	memory length: 110439	epsilon: 0.9793288000004488	steps: 246	lr: 0.0001	evaluation
episode: 587	score: 0.0	memory length: 110563	epsilon: 0.9790832800004541	steps: 124	lr: 0.0001	evaluation
episode: 588	score: 2.0	memory length: 110764	epsilon: 0.9786853000004627	steps: 201	lr: 0.0001	evaluation
episode: 589	score: 3.0	memory length: 111011	epsilon: 0.9781962400004733	steps: 247	lr: 0.0001	evaluation
episode: 590	score: 4.0	memory length: 111311	epsilon: 0.9776022400004862	steps: 300	lr: 0.0001	evaluation
episode: 591	score: 3.0	memory length: 111541	epsilon: 0.9771468400004961	steps: 230	lr: 0.0001	evaluation
episode: 592	score: 0.0	memory length: 111665	epsilon: 0.9769013200005014	steps: 124	lr: 0.0001	evaluation
episode: 593	score: 1.0	memory length: 111817	epsilon: 0.9766003600005058	steps: 152	lr: 0.0001	evaluation
episode: 594	score: 2.0	memory length: 112039	epsilon: 0.9761608000005175	steps: 222	lr: 0.0001	evaluation
episode: 595	score: 2.0	memory length: 112237	epsilon: 0.975768760000526	steps: 198	lr: 0.0001	evaluation
episode: 596	score: 2.0	memory length: 112456	epsilon: 0.9753351400005354	steps: 219	lr: 0.0001	evaluation
episode: 597	score: 3.0	memory length: 112729	epsilon: 0.9747946000005472	steps: 273	lr: 0.0001	evaluation
episode: 598	score: 2.0	memory length: 112928	epsilon: 0.9744005800005557	steps: 199	lr: 0.0001	evaluation
episode: 599	score: 2.0	memory length: 113127	epsilon: 0.9740065600005643	steps: 199	lr: 0.0001	evaluation
episode: 600	score: 0.0	memory length: 113251	epsilon: 0.9737610400005696	steps: 124	lr: 0.0001	evaluation
episode: 601	score: 3.0	memory length: 113495	epsilon: 0.9732779200005801	steps: 244	lr: 0.0001	evaluation
episode: 602	score: 0.0	memory length: 113619	epsilon: 0.9730324000005854	steps: 124	lr: 0.0001	evaluation
episode: 603	score: 4.0	memory length: 113916	epsilon: 0.9724443400005982	steps: 297	lr: 0.0001	evaluation
episode: 604	score: 0.0	memory length: 114039	epsilon: 0.9722008000006035	steps: 123	lr: 0.0001	evaluation
episode: 605	score: 1.0	memory length: 114208	epsilon: 0.9718661800006108	steps: 169	lr: 0.0001	evaluation
episode: 606	score: 0.0	memory length: 114332	epsilon: 0.9716206600006161	steps: 124	lr: 0.0001	evaluation
episode: 607	score: 0.0	memory length: 114455	epsilon: 0.9713771200006214	steps: 123	lr: 0.0001	evaluation
episode: 608	score: 1.0	memory length: 114606	epsilon: 0.9710781400006279	steps: 151	lr: 0.0001	evaluation
episode: 609	score: 4.0	memory length: 114923	epsilon: 0.9704504800006415	steps: 317	lr: 0.0001	evaluation
episode: 610	score: 2.0	memory length: 115141	epsilon: 0.9700188400006509	steps: 218	lr: 0.0001	evaluation
episode: 611	score: 1.0	memory length: 115292	epsilon: 0.9697198600006574	steps: 151	lr: 0.0001	evaluation
episode: 612	score: 2.0	memory length: 115491	epsilon: 0.9693258400006659	steps: 199	lr: 0.0001	evaluation
episode: 613	score: 2.0	memory length: 115690	epsilon: 0.9689318200006745	steps: 199	lr: 0.0001	evaluation
episode: 614	score: 3.0	memory length: 115919	epsilon: 0.9684784000006843	steps: 229	lr: 0.0001	evaluation
episode: 615	score: 0.0	memory length: 116043	epsilon: 0.9682328800006896	steps: 124	lr: 0.0001	evaluation
episode: 616	score: 3.0	memory length: 116272	epsilon: 0.9677794600006995	steps: 229	lr: 0.0001	evaluation
episode: 617	score: 1.0	memory length: 116424	epsilon: 0.967478500000706	steps: 152	lr: 0.0001	evaluation
episode: 618	score: 0.0	memory length: 116548	epsilon: 0.9672329800007113	steps: 124	lr: 0.0001	evaluation
episode: 619	score: 1.0	memory length: 116718	epsilon: 0.9668963800007186	steps: 170	lr: 0.0001	evaluation
episode: 620	score: 4.0	memory length: 116995	epsilon: 0.9663479200007306	steps: 277	lr: 0.0001	evaluation
episode: 621	score: 2.0	memory length: 117215	epsilon: 0.96591232000074	steps: 220	lr: 0.0001	evaluation
episode: 622	score: 1.0	memory length: 117388	epsilon: 0.9655697800007474	steps: 173	lr: 0.0001	evaluation
episode: 623	score: 2.0	memory length: 117606	epsilon: 0.9651381400007568	steps: 218	lr: 0.0001	evaluation
episode: 624	score: 2.0	memory length: 117826	epsilon: 0.9647025400007663	steps: 220	lr: 0.0001	evaluation
episode: 625	score: 1.0	memory length: 117998	epsilon: 0.9643619800007737	steps: 172	lr: 0.0001	evaluation
episode: 626	score: 0.0	memory length: 118121	epsilon: 0.964118440000779	steps: 123	lr: 0.0001	evaluation
episode: 627	score: 0.0	memory length: 118245	epsilon: 0.9638729200007843	steps: 124	lr: 0.0001	evaluation
episode: 628	score: 2.0	memory length: 118429	epsilon: 0.9635086000007922	steps: 184	lr: 0.0001	evaluation
episode: 629	score: 2.0	memory length: 118628	epsilon: 0.9631145800008007	steps: 199	lr: 0.0001	evaluation
episode: 630	score: 1.0	memory length: 118798	epsilon: 0.962777980000808	steps: 170	lr: 0.0001	evaluation
episode: 631	score: 4.0	memory length: 119041	epsilon: 0.9622968400008185	steps: 243	lr: 0.0001	evaluation
episode: 632	score: 0.0	memory length: 119164	epsilon: 0.9620533000008238	steps: 123	lr: 0.0001	evaluation
episode: 633	score: 0.0	memory length: 119288	epsilon: 0.9618077800008291	steps: 124	lr: 0.0001	evaluation
episode: 634	score: 2.0	memory length: 119489	epsilon: 0.9614098000008378	steps: 201	lr: 0.0001	evaluation
episode: 635	score: 2.0	memory length: 119672	epsilon: 0.9610474600008456	steps: 183	lr: 0.0001	evaluation
episode: 636	score: 2.0	memory length: 119870	epsilon: 0.9606554200008541	steps: 198	lr: 0.0001	evaluation
episode: 637	score: 0.0	memory length: 119994	epsilon: 0.9604099000008595	steps: 124	lr: 0.0001	evaluation
episode: 638	score: 8.0	memory length: 120325	epsilon: 0.9597545200008737	steps: 331	lr: 0.0001	evaluation
episode: 639	score: 2.0	memory length: 120545	epsilon: 0.9593189200008831	steps: 220	lr: 0.0001	evaluation
episode: 640	score: 4.0	memory length: 120822	epsilon: 0.9587704600008895	steps: 277	lr: 0.0001	evaluation
episode: 641	score: 3.0	memory length: 121052	epsilon: 0.9583150600009049	steps: 230	lr: 0.0001	evaluation
episode: 642	score: 2.0	memory length: 121250	epsilon: 0.9579230200009134	steps: 198	lr: 0.0001	evaluation
episode: 643	score: 1.0	memory length: 121420	epsilon: 0.9575864200009208	steps: 170	lr: 0.0001	evaluation
episode: 644	score: 5.0	memory length: 121746	epsilon: 0.9569409400009348	steps: 326	lr: 0.0001	evaluation
episode: 645	score: 1.0	memory length: 121919	epsilon: 0.9565984000009422	steps: 173	lr: 0.0001	evaluation
episode: 646	score: 1.0	memory length: 122089	epsilon: 0.9562618000009495	steps: 170	lr: 0.0001	evaluation
episode: 647	score: 0.0	memory length: 122213	epsilon: 0.9560162800009548	steps: 124	lr: 0.0001	evaluation
episode: 648	score: 0.0	memory length: 122337	epsilon: 0.9557707600009602	steps: 124	lr: 0.0001	evaluation
episode: 649	score: 7.0	memory length: 122639	epsilon: 0.9551728000009732	steps: 302	lr: 0.0001	evaluation
episode: 650	score: 3.0	memory length: 122888	epsilon: 0.9546797800009839	steps: 249	lr: 0.0001	evaluation
episode: 651	score: 2.0	memory length: 123110	epsilon: 0.9542402200009934	steps: 222	lr: 0.0001	evaluation
episode: 652	score: 0.0	memory length: 123234	epsilon: 0.9539947000009987	steps: 124	lr: 0.0001	evaluation
episode: 653	score: 1.0	memory length: 123386	epsilon: 0.95369374000010053	steps: 152	lr: 0.0001	evaluation
episode: 654	score: 3.0	memory length: 123637	epsilon: 0.9531967600001016	steps: 251	lr: 0.0001	evaluation
episode: 655	score: 2.0	memory length: 123836	epsilon: 0.95280274000010246	steps: 199	lr: 0.0001	evaluation
episode: 656	score: 1.0	memory length: 123987	epsilon: 0.95250376000010311	steps: 151	lr: 0.0001	evaluation
episode: 657	score: 3.0	memory length: 124236	epsilon: 0.95201074000010418	steps: 249	lr: 0.0001	evaluation
episode: 658	score: 1.0	memory length: 124409	epsilon: 0.95166820000010492	steps: 173	lr: 0.0001	evaluation
episode: 659	score: 2.0	memory length: 124626	epsilon: 0.95123854000010586	steps: 217	lr: 0.0001	evaluation
episode: 660	score: 1.0	memory length: 124797	epsilon: 0.95089960000010659	steps: 171	lr: 0.0001	evaluation
episode: 661	score: 2.0	memory length: 125016	epsilon: 0.95046634000010753	steps: 219	lr: 0.0001	evaluation
episode: 662	score: 1.0	memory length: 125186	epsilon: 0.95012974000010826	steps: 170	lr: 0.0001	evaluation
episode: 663	score: 1.0	memory length: 125340	epsilon: 0.94982482000010893	steps: 154	lr: 0.0001	evaluation
episode: 664	score: 0.0	memory length: 125464	epsilon: 0.94957930000010946	steps: 124	lr: 0.0001	evaluation
episode: 665	score: 1.0	memory length: 125615	epsilon: 0.94928032000011011	steps: 151	lr: 0.0001	evaluation

episode: 666	score: 2.0	memory length: 125837	epsilon: 0.9488407600011106	steps: 222	lr: 0.0001	evaluation
episode: 667	score: 3.0	memory length: 126101	epsilon: 0.948318040001122	steps: 264	lr: 0.0001	evaluation
episode: 668	score: 0.0	memory length: 126224	epsilon: 0.9480745000011273	steps: 123	lr: 0.0001	evaluation
episode: 669	score: 4.0	memory length: 126521	epsilon: 0.947486440001114	steps: 297	lr: 0.0001	evaluation
episode: 670	score: 1.0	memory length: 126673	epsilon: 0.9471854800011466	steps: 152	lr: 0.0001	evaluation
episode: 671	score: 1.0	memory length: 126825	epsilon: 0.9468845200011531	steps: 152	lr: 0.0001	evaluation
episode: 672	score: 2.0	memory length: 127044	epsilon: 0.9464509000011625	steps: 219	lr: 0.0001	evaluation
episode: 673	score: 2.0	memory length: 127245	epsilon: 0.9460529200011711	steps: 201	lr: 0.0001	evaluation
episode: 674	score: 0.0	memory length: 127368	epsilon: 0.9458093800011764	steps: 123	lr: 0.0001	evaluation
episode: 675	score: 2.0	memory length: 127566	epsilon: 0.9454173400011849	steps: 198	lr: 0.0001	evaluation
episode: 676	score: 1.0	memory length: 127735	epsilon: 0.9450827200011922	steps: 169	lr: 0.0001	evaluation
episode: 677	score: 1.0	memory length: 127905	epsilon: 0.9447461200011995	steps: 170	lr: 0.0001	evaluation
episode: 678	score: 3.0	memory length: 128152	epsilon: 0.9442570600012101	steps: 247	lr: 0.0001	evaluation
episode: 679	score: 2.0	memory length: 128353	epsilon: 0.9438590800012188	steps: 201	lr: 0.0001	evaluation
episode: 680	score: 1.0	memory length: 128505	epsilon: 0.9435581200012253	steps: 152	lr: 0.0001	evaluation
episode: 681	score: 3.0	memory length: 128758	epsilon: 0.9430571800012362	steps: 253	lr: 0.0001	evaluation
episode: 682	score: 1.0	memory length: 128910	epsilon: 0.9427562200012427	steps: 152	lr: 0.0001	evaluation
episode: 683	score: 4.0	memory length: 129186	epsilon: 0.9422097400012546	steps: 276	lr: 0.0001	evaluation
episode: 684	score: 2.0	memory length: 129387	epsilon: 0.9418117600012632	steps: 201	lr: 0.0001	evaluation
episode: 685	score: 1.0	memory length: 129539	epsilon: 0.9415108000012697	steps: 152	lr: 0.0001	evaluation
episode: 686	score: 2.0	memory length: 129738	epsilon: 0.9411167800012783	steps: 199	lr: 0.0001	evaluation
episode: 687	score: 1.0	memory length: 129891	epsilon: 0.9408138400012849	steps: 153	lr: 0.0001	evaluation
episode: 688	score: 2.0	memory length: 130090	epsilon: 0.9404198200012934	steps: 199	lr: 0.0001	evaluation
episode: 689	score: 0.0	memory length: 130213	epsilon: 0.9401762800012987	steps: 123	lr: 0.0001	evaluation
episode: 690	score: 0.0	memory length: 130337	epsilon: 0.939930760001304	steps: 124	lr: 0.0001	evaluation
episode: 691	score: 2.0	memory length: 130536	epsilon: 0.9395367400013126	steps: 199	lr: 0.0001	evaluation
episode: 692	score: 2.0	memory length: 130755	epsilon: 0.939103120001322	steps: 219	lr: 0.0001	evaluation
episode: 693	score: 0.0	memory length: 130879	epsilon: 0.9388576000013273	steps: 124	lr: 0.0001	evaluation
episode: 694	score: 3.0	memory length: 131128	epsilon: 0.938364580001338	steps: 249	lr: 0.0001	evaluation
episode: 695	score: 0.0	memory length: 131252	epsilon: 0.9381190600013434	steps: 124	lr: 0.0001	evaluation
episode: 696	score: 2.0	memory length: 131451	epsilon: 0.9377250400013519	steps: 199	lr: 0.0001	evaluation
episode: 697	score: 0.0	memory length: 131575	epsilon: 0.9374795200013573	steps: 124	lr: 0.0001	evaluation
episode: 698	score: 3.0	memory length: 131809	epsilon: 0.9370162000013673	steps: 234	lr: 0.0001	evaluation
episode: 699	score: 2.0	memory length: 132011	epsilon: 0.936616240001376	steps: 202	lr: 0.0001	evaluation
episode: 700	score: 4.0	memory length: 132313	epsilon: 0.936018280001389	steps: 302	lr: 0.0001	evaluation
episode: 701	score: 0.0	memory length: 132437	epsilon: 0.9357727600013943	steps: 124	lr: 0.0001	evaluation
episode: 702	score: 4.0	memory length: 132733	epsilon: 0.935186680001407	steps: 296	lr: 0.0001	evaluation
episode: 703	score: 2.0	memory length: 132931	epsilon: 0.9347946400014155	steps: 198	lr: 0.0001	evaluation
episode: 704	score: 3.0	memory length: 133178	epsilon: 0.9343055800014262	steps: 247	lr: 0.0001	evaluation
episode: 705	score: 0.0	memory length: 133302	epsilon: 0.9340606000014315	steps: 124	lr: 0.0001	evaluation
episode: 706	score: 1.0	memory length: 133472	epsilon: 0.9337234600014388	steps: 170	lr: 0.0001	evaluation
episode: 707	score: 5.0	memory length: 133818	epsilon: 0.9330383800014537	steps: 346	lr: 0.0001	evaluation
episode: 708	score: 0.0	memory length: 133942	epsilon: 0.932792860001459	steps: 124	lr: 0.0001	evaluation
episode: 709	score: 2.0	memory length: 134123	epsilon: 0.9324344800014668	steps: 181	lr: 0.0001	evaluation
episode: 710	score: 1.0	memory length: 134293	epsilon: 0.9320978800014741	steps: 170	lr: 0.0001	evaluation
episode: 711	score: 2.0	memory length: 134492	epsilon: 0.9317038600014826	steps: 199	lr: 0.0001	evaluation
episode: 712	score: 0.0	memory length: 134616	epsilon: 0.931458340001488	steps: 124	lr: 0.0001	evaluation
episode: 713	score: 0.0	memory length: 134739	epsilon: 0.9312148000014933	steps: 123	lr: 0.0001	evaluation
episode: 714	score: 2.0	memory length: 134963	epsilon: 0.9307712800015029	steps: 224	lr: 0.0001	evaluation
episode: 715	score: 0.0	memory length: 135087	epsilon: 0.9305257600015082	steps: 124	lr: 0.0001	evaluation
episode: 716	score: 1.0	memory length: 135257	epsilon: 0.9301891600015155	steps: 170	lr: 0.0001	evaluation
episode: 717	score: 4.0	memory length: 135557	epsilon: 0.9295951600015284	steps: 300	lr: 0.0001	evaluation
episode: 718	score: 2.0	memory length: 135755	epsilon: 0.9292031200015369	steps: 198	lr: 0.0001	evaluation
episode: 719	score: 0.0	memory length: 135879	epsilon: 0.9289576000015423	steps: 124	lr: 0.0001	evaluation
episode: 720	score: 2.0	memory length: 136078	epsilon: 0.9285635800015508	steps: 199	lr: 0.0001	evaluation
episode: 721	score: 2.0	memory length: 136277	epsilon: 0.9281695600015594	steps: 199	lr: 0.0001	evaluation
episode: 722	score: 4.0	memory length: 136555	epsilon: 0.9276191200015713	steps: 278	lr: 0.0001	evaluation
episode: 723	score: 5.0	memory length: 136918	epsilon: 0.9269003800015869	steps: 363	lr: 0.0001	evaluation
episode: 724	score: 1.0	memory length: 137070	epsilon: 0.9265994200015935	steps: 152	lr: 0.0001	evaluation
episode: 725	score: 1.0	memory length: 137241	epsilon: 0.9262608400016008	steps: 171	lr: 0.0001	evaluation
episode: 726	score: 0.0	memory length: 137365	epsilon: 0.9260153200016061	steps: 124	lr: 0.0001	evaluation
episode: 727	score: 5.0	memory length: 137686	epsilon: 0.9253797400016199	steps: 321	lr: 0.0001	evaluation
episode: 728	score: 3.0	memory length: 137912	epsilon: 0.9249322600016296	steps: 226	lr: 0.0001	evaluation
episode: 729	score: 0.0	memory length: 138035	epsilon: 0.9246887200016349	steps: 123	lr: 0.0001	evaluation
episode: 730	score: 3.0	memory length: 138261	epsilon: 0.9242412400016446	steps: 226	lr: 0.0001	evaluation
episode: 731	score: 2.0	memory length: 138460	epsilon: 0.9238472200016532	steps: 199	lr: 0.0001	evaluation
episode: 732	score: 1.0	memory length: 138629	epsilon: 0.9235126000016605	steps: 169	lr: 0.0001	evaluation
episode: 733	score: 2.0	memory length: 138849	epsilon: 0.9230770000016699	steps: 220	lr: 0.0001	evaluation
episode: 734	score: 2.0	memory length: 139068	epsilon: 0.9226433800016793	steps: 219	lr: 0.0001	evaluation
episode: 735	score: 0.0	memory length: 139191	epsilon: 0.9223998400016846	steps: 123	lr: 0.0001	evaluation
episode: 736	score: 0.0	memory length: 139315	epsilon: 0.92215432000169	steps: 124	lr: 0.0001	evaluation
episode: 737	score: 2.0	memory length: 139501	epsilon: 0.921786040001698	steps: 186	lr: 0.0001	evaluation
episode: 738	score: 2.0	memory length: 139719	epsilon: 0.9213544000017073	steps: 218	lr: 0.0001	evaluation
episode: 739	score: 2.0	memory length: 139938	epsilon: 0.9209207800017167	steps: 219	lr: 0.0001	evaluation
episode: 740	score: 2.0	memory length: 140137	epsilon: 0.9205267600017253	steps: 199	lr: 0.0001	evaluation
episode: 741	score: 2.0	memory length: 140354	epsilon: 0.9200971000017346	steps: 217	lr: 0.0001	evaluation
episode: 742	score: 2.0	memory length: 140555	epsilon: 0.9196991200017433	steps: 201	lr: 0.0001	evaluation
episode: 743	score: 0.0	memory length: 140679	epsilon: 0.9194536000017486	steps: 124	lr: 0.0001	evaluation
episode: 744	score: 1.0	memory length: 140848	epsilon: 0.9191189800017558	steps: 169	lr: 0.0001	evaluation
episode: 745	score: 1.0	memory length: 141000	epsilon: 0.9188180200017624	steps: 152	lr: 0.0001	evaluation
episode: 746	score: 0.0	memory length: 141124	epsilon: 0.9185725000017677	steps: 124	lr: 0.0001	evaluation
episode: 747	score: 2.0	memory length: 141323	epsilon: 0.9181784800017763	steps: 199	lr: 0.0001	evaluation
episode: 748	score: 3.0	memory length: 141550	epsilon: 0.917729020001786	steps: 227	lr: 0.0001	evaluation
episode: 749	score: 0.0	memory length: 141674	epsilon: 0.9174835000017914	steps: 124	lr: 0.0001	evaluation
episode: 750	score: 1.0	memory length: 141825	epsilon: 0.9171845200017978	steps: 151	lr: 0.0001	evaluation

episode: 751	score: 1.0	memory length: 141997	epsilon: 0.9168439600018052	steps: 172	lr: 0.0001	evaluation
episode: 752	score: 2.0	memory length: 142196	epsilon: 0.9164499400018138	steps: 199	lr: 0.0001	evaluation
episode: 753	score: 0.0	memory length: 142320	epsilon: 0.9162044200018191	steps: 124	lr: 0.0001	evaluation
episode: 754	score: 4.0	memory length: 142614	epsilon: 0.9156223000018318	steps: 294	lr: 0.0001	evaluation
episode: 755	score: 2.0	memory length: 142833	epsilon: 0.9151886800018412	steps: 219	lr: 0.0001	evaluation
episode: 756	score: 1.0	memory length: 142984	epsilon: 0.9148897000018477	steps: 151	lr: 0.0001	evaluation
episode: 757	score: 1.0	memory length: 143136	epsilon: 0.9145887400018542	steps: 152	lr: 0.0001	evaluation
episode: 758	score: 0.0	memory length: 143260	epsilon: 0.9143432200018595	steps: 124	lr: 0.0001	evaluation
episode: 759	score: 1.0	memory length: 143431	epsilon: 0.9140046400018669	steps: 171	lr: 0.0001	evaluation
episode: 760	score: 2.0	memory length: 143653	epsilon: 0.9135650800018764	steps: 222	lr: 0.0001	evaluation
episode: 761	score: 3.0	memory length: 143883	epsilon: 0.9131096800018863	steps: 230	lr: 0.0001	evaluation
episode: 762	score: 0.0	memory length: 144007	epsilon: 0.9128641600018916	steps: 124	lr: 0.0001	evaluation
episode: 763	score: 0.0	memory length: 144131	epsilon: 0.912618640001897	steps: 124	lr: 0.0001	evaluation
episode: 764	score: 2.0	memory length: 144351	epsilon: 0.9121830400019064	steps: 220	lr: 0.0001	evaluation
episode: 765	score: 2.0	memory length: 144549	epsilon: 0.9117910000019149	steps: 198	lr: 0.0001	evaluation
episode: 766	score: 1.0	memory length: 144721	epsilon: 0.9114504400019223	steps: 172	lr: 0.0001	evaluation
episode: 767	score: 3.0	memory length: 144990	epsilon: 0.9109178200019339	steps: 269	lr: 0.0001	evaluation
episode: 768	score: 1.0	memory length: 145160	epsilon: 0.9105812200019412	steps: 170	lr: 0.0001	evaluation
episode: 769	score: 1.0	memory length: 145311	epsilon: 0.9102822400019477	steps: 151	lr: 0.0001	evaluation
episode: 770	score: 0.0	memory length: 145435	epsilon: 0.910036720001953	steps: 124	lr: 0.0001	evaluation
episode: 771	score: 1.0	memory length: 145605	epsilon: 0.9097001200019603	steps: 170	lr: 0.0001	evaluation
episode: 772	score: 1.0	memory length: 145778	epsilon: 0.9093575800019678	steps: 173	lr: 0.0001	evaluation
episode: 773	score: 2.0	memory length: 145998	epsilon: 0.9089219800019772	steps: 220	lr: 0.0001	evaluation
episode: 774	score: 4.0	memory length: 146274	epsilon: 0.9083755000019891	steps: 276	lr: 0.0001	evaluation
episode: 775	score: 0.0	memory length: 146398	epsilon: 0.9081299800019944	steps: 124	lr: 0.0001	evaluation
episode: 776	score: 5.0	memory length: 146743	epsilon: 0.9074468800020092	steps: 345	lr: 0.0001	evaluation
episode: 777	score: 0.0	memory length: 146867	epsilon: 0.9072013600020146	steps: 124	lr: 0.0001	evaluation
episode: 778	score: 4.0	memory length: 147166	epsilon: 0.9066093400020274	steps: 299	lr: 0.0001	evaluation
episode: 779	score: 3.0	memory length: 147392	epsilon: 0.9061618600020371	steps: 226	lr: 0.0001	evaluation
episode: 780	score: 0.0	memory length: 147515	epsilon: 0.9059183200020424	steps: 123	lr: 0.0001	evaluation
episode: 781	score: 2.0	memory length: 147717	epsilon: 0.9055183600020511	steps: 202	lr: 0.0001	evaluation
episode: 782	score: 6.0	memory length: 147937	epsilon: 0.9050827600020606	steps: 220	lr: 0.0001	evaluation
episode: 783	score: 3.0	memory length: 148169	epsilon: 0.9046234000020705	steps: 232	lr: 0.0001	evaluation
episode: 784	score: 1.0	memory length: 148320	epsilon: 0.904324420002077	steps: 151	lr: 0.0001	evaluation
episode: 785	score: 0.0	memory length: 148444	epsilon: 0.9040789000020824	steps: 124	lr: 0.0001	evaluation
episode: 786	score: 4.0	memory length: 148704	epsilon: 0.9035641000020935	steps: 260	lr: 0.0001	evaluation
episode: 787	score: 2.0	memory length: 148903	epsilon: 0.9031700800021021	steps: 199	lr: 0.0001	evaluation
episode: 788	score: 2.0	memory length: 149102	epsilon: 0.9027760600021106	steps: 199	lr: 0.0001	evaluation
episode: 789	score: 0.0	memory length: 149226	epsilon: 0.902530540002116	steps: 124	lr: 0.0001	evaluation
episode: 790	score: 2.0	memory length: 149426	epsilon: 0.9021345400021246	steps: 200	lr: 0.0001	evaluation
episode: 791	score: 3.0	memory length: 149640	epsilon: 0.9017108200021338	steps: 214	lr: 0.0001	evaluation
episode: 792	score: 3.0	memory length: 149868	epsilon: 0.9012593800021436	steps: 228	lr: 0.0001	evaluation
episode: 793	score: 2.0	memory length: 150088	epsilon: 0.900823780002153	steps: 220	lr: 0.0001	evaluation
episode: 794	score: 2.0	memory length: 150287	epsilon: 0.9004297600021616	steps: 199	lr: 0.0001	evaluation
episode: 795	score: 1.0	memory length: 150457	epsilon: 0.9000931600021689	steps: 170	lr: 0.0001	evaluation
episode: 796	score: 2.0	memory length: 150675	epsilon: 0.8996615200021782	steps: 218	lr: 0.0001	evaluation
episode: 797	score: 1.0	memory length: 150827	epsilon: 0.8993605600021848	steps: 152	lr: 0.0001	evaluation
episode: 798	score: 4.0	memory length: 151127	epsilon: 0.8987665600021977	steps: 300	lr: 0.0001	evaluation
episode: 799	score: 3.0	memory length: 151356	epsilon: 0.8983131400022075	steps: 229	lr: 0.0001	evaluation
episode: 800	score: 3.0	memory length: 151604	epsilon: 0.8978221000022182	steps: 248	lr: 0.0001	evaluation
episode: 801	score: 1.0	memory length: 151776	epsilon: 0.8974815400022256	steps: 172	lr: 0.0001	evaluation
episode: 802	score: 3.0	memory length: 152005	epsilon: 0.8970281200022354	steps: 229	lr: 0.0001	evaluation
episode: 803	score: 3.0	memory length: 152252	epsilon: 0.896539060002246	steps: 247	lr: 0.0001	evaluation
episode: 804	score: 2.0	memory length: 152451	epsilon: 0.8961450400022546	steps: 199	lr: 0.0001	evaluation
episode: 805	score: 1.0	memory length: 152624	epsilon: 0.895802500002262	steps: 173	lr: 0.0001	evaluation
episode: 806	score: 3.0	memory length: 152850	epsilon: 0.8953550200022717	steps: 226	lr: 0.0001	evaluation
episode: 807	score: 2.0	memory length: 153072	epsilon: 0.8949154600022813	steps: 222	lr: 0.0001	evaluation
episode: 808	score: 0.0	memory length: 153195	epsilon: 0.8946719200022866	steps: 123	lr: 0.0001	evaluation
episode: 809	score: 1.0	memory length: 153367	epsilon: 0.894331360002294	steps: 172	lr: 0.0001	evaluation
episode: 810	score: 2.0	memory length: 153565	epsilon: 0.8939393200023025	steps: 198	lr: 0.0001	evaluation
episode: 811	score: 2.0	memory length: 153767	epsilon: 0.8935393600023112	steps: 202	lr: 0.0001	evaluation
episode: 812	score: 3.0	memory length: 154031	epsilon: 0.8930166400023225	steps: 264	lr: 0.0001	evaluation
episode: 813	score: 2.0	memory length: 154250	epsilon: 0.8925830200023319	steps: 219	lr: 0.0001	evaluation
episode: 814	score: 3.0	memory length: 154479	epsilon: 0.8921296000023418	steps: 229	lr: 0.0001	evaluation
episode: 815	score: 2.0	memory length: 154677	epsilon: 0.8917375600023503	steps: 198	lr: 0.0001	evaluation
episode: 816	score: 2.0	memory length: 154876	epsilon: 0.8913435400023588	steps: 199	lr: 0.0001	evaluation
episode: 817	score: 1.0	memory length: 155028	epsilon: 0.8910425800023654	steps: 152	lr: 0.0001	evaluation
episode: 818	score: 3.0	memory length: 155278	epsilon: 0.8905475800023761	steps: 250	lr: 0.0001	evaluation
episode: 819	score: 4.0	memory length: 155573	epsilon: 0.8899634800023888	steps: 295	lr: 0.0001	evaluation
episode: 820	score: 2.0	memory length: 155771	epsilon: 0.8895714400023973	steps: 198	lr: 0.0001	evaluation
episode: 821	score: 2.0	memory length: 155970	epsilon: 0.8891774200024058	steps: 199	lr: 0.0001	evaluation
episode: 822	score: 4.0	memory length: 156266	epsilon: 0.8885913400024186	steps: 296	lr: 0.0001	evaluation
episode: 823	score: 2.0	memory length: 156485	epsilon: 0.888157720002428	steps: 219	lr: 0.0001	evaluation
episode: 824	score: 0.0	memory length: 156609	epsilon: 0.8879122000024333	steps: 124	lr: 0.0001	evaluation
episode: 825	score: 3.0	memory length: 156857	epsilon: 0.887421160002444	steps: 248	lr: 0.0001	evaluation
episode: 826	score: 1.0	memory length: 157010	epsilon: 0.8871182200024506	steps: 153	lr: 0.0001	evaluation
episode: 827	score: 1.0	memory length: 157161	epsilon: 0.886819240002457	steps: 151	lr: 0.0001	evaluation
episode: 828	score: 1.0	memory length: 157313	epsilon: 0.8865182800024636	steps: 152	lr: 0.0001	evaluation
episode: 829	score: 0.0	memory length: 157437	epsilon: 0.8862727600024689	steps: 124	lr: 0.0001	evaluation
episode: 830	score: 2.0	memory length: 157636	epsilon: 0.8858787400024775	steps: 199	lr: 0.0001	evaluation
episode: 831	score: 2.0	memory length: 157837	epsilon: 0.8854807600024861	steps: 201	lr: 0.0001	evaluation
episode: 832	score: 1.0	memory length: 158007	epsilon: 0.8851441600024934	steps: 170	lr: 0.0001	evaluation
episode: 833	score: 1.0	memory length: 158159	epsilon: 0.8848432000024999	steps: 152	lr: 0.0001	evaluation
episode: 834	score: 4.0	memory length: 158474	epsilon: 0.8842195000025135	steps: 315	lr: 0.0001	evaluation
episode: 835	score: 4.0	memory length: 158790	epsilon: 0.8835938200025271	steps: 316	lr: 0.0001	evaluation

episode	score	memory length	epsilon	steps	lr	evaluation
episode: 836	score: 2.0	memory length: 158990	epsilon: 0.8831978200025357	steps: 200	lr: 0.0001	evaluation
episode: 837	score: 2.0	memory length: 159189	epsilon: 0.8828038000025442	steps: 199	lr: 0.0001	evaluation
episode: 838	score: 2.0	memory length: 159408	epsilon: 0.8823701800025536	steps: 219	lr: 0.0001	evaluation
episode: 839	score: 5.0	memory length: 159695	epsilon: 0.8818019200025666	steps: 287	lr: 0.0001	evaluation
episode: 840	score: 2.0	memory length: 159895	epsilon: 0.8814059200025746	steps: 200	lr: 0.0001	evaluation
episode: 841	score: 3.0	memory length: 160144	epsilon: 0.8809129000025853	steps: 249	lr: 0.0001	evaluation
episode: 842	score: 0.0	memory length: 160268	epsilon: 0.8806673800025906	steps: 124	lr: 0.0001	evaluation
episode: 843	score: 3.0	memory length: 160517	epsilon: 0.8801743600026013	steps: 249	lr: 0.0001	evaluation
episode: 844	score: 3.0	memory length: 160761	epsilon: 0.8796912400026118	steps: 244	lr: 0.0001	evaluation
episode: 845	score: 2.0	memory length: 160960	epsilon: 0.8792972200026203	steps: 199	lr: 0.0001	evaluation
episode: 846	score: 3.0	memory length: 161230	epsilon: 0.8787626200026232	steps: 270	lr: 0.0001	evaluation
episode: 847	score: 3.0	memory length: 161477	epsilon: 0.8782735600026426	steps: 247	lr: 0.0001	evaluation
episode: 848	score: 4.0	memory length: 161755	epsilon: 0.8777231200026545	steps: 278	lr: 0.0001	evaluation
episode: 849	score: 3.0	memory length: 161985	epsilon: 0.8772677200026644	steps: 230	lr: 0.0001	evaluation
episode: 850	score: 1.0	memory length: 162157	epsilon: 0.8769271600026718	steps: 172	lr: 0.0001	evaluation
episode: 851	score: 4.0	memory length: 162455	epsilon: 0.8763371200026846	steps: 298	lr: 0.0001	evaluation
episode: 852	score: 3.0	memory length: 162684	epsilon: 0.8758837000026944	steps: 229	lr: 0.0001	evaluation
episode: 853	score: 1.0	memory length: 162836	epsilon: 0.875582740002701	steps: 152	lr: 0.0001	evaluation
episode: 854	score: 7.0	memory length: 163221	epsilon: 0.8748204400027175	steps: 385	lr: 0.0001	evaluation
episode: 855	score: 0.0	memory length: 163344	epsilon: 0.8745769000027228	steps: 123	lr: 0.0001	evaluation
episode: 856	score: 2.0	memory length: 163526	epsilon: 0.8742165400027306	steps: 182	lr: 0.0001	evaluation
episode: 857	score: 1.0	memory length: 163677	epsilon: 0.8739175600027371	steps: 151	lr: 0.0001	evaluation
episode: 858	score: 1.0	memory length: 163829	epsilon: 0.8736166000027437	steps: 152	lr: 0.0001	evaluation
episode: 859	score: 1.0	memory length: 164001	epsilon: 0.873276040002751	steps: 172	lr: 0.0001	evaluation
episode: 860	score: 4.0	memory length: 164315	epsilon: 0.8726543200027645	steps: 314	lr: 0.0001	evaluation
episode: 861	score: 3.0	memory length: 164560	epsilon: 0.8721692200027751	steps: 245	lr: 0.0001	evaluation
episode: 862	score: 0.0	memory length: 164684	epsilon: 0.8719237000027804	steps: 124	lr: 0.0001	evaluation
episode: 863	score: 4.0	memory length: 164962	epsilon: 0.8713732600027924	steps: 278	lr: 0.0001	evaluation
episode: 864	score: 1.0	memory length: 165132	epsilon: 0.8710366600027997	steps: 170	lr: 0.0001	evaluation
episode: 865	score: 2.0	memory length: 165350	epsilon: 0.870605020002809	steps: 218	lr: 0.0001	evaluation
episode: 866	score: 2.0	memory length: 165572	epsilon: 0.8701654600028186	steps: 222	lr: 0.0001	evaluation
episode: 867	score: 4.0	memory length: 165869	epsilon: 0.8695774000028313	steps: 297	lr: 0.0001	evaluation
episode: 868	score: 3.0	memory length: 166115	epsilon: 0.8690903200028419	steps: 246	lr: 0.0001	evaluation
episode: 869	score: 4.0	memory length: 166412	epsilon: 0.8685022600028547	steps: 297	lr: 0.0001	evaluation
episode: 870	score: 3.0	memory length: 166639	epsilon: 0.8680528000028644	steps: 227	lr: 0.0001	evaluation
episode: 871	score: 4.0	memory length: 166915	epsilon: 0.8675063200028763	steps: 276	lr: 0.0001	evaluation
episode: 872	score: 1.0	memory length: 167086	epsilon: 0.8671677400028837	steps: 171	lr: 0.0001	evaluation
episode: 873	score: 5.0	memory length: 167413	epsilon: 0.8665202800028977	steps: 327	lr: 0.0001	evaluation
episode: 874	score: 1.0	memory length: 167565	epsilon: 0.8662193200029042	steps: 152	lr: 0.0001	evaluation
episode: 875	score: 4.0	memory length: 167861	epsilon: 0.8656332400029217	steps: 296	lr: 0.0001	evaluation
episode: 876	score: 2.0	memory length: 168062	epsilon: 0.8652352600029256	steps: 201	lr: 0.0001	evaluation
episode: 877	score: 1.0	memory length: 168232	epsilon: 0.8648986000029329	steps: 170	lr: 0.0001	evaluation
episode: 878	score: 2.0	memory length: 168431	epsilon: 0.8645046400029415	steps: 199	lr: 0.0001	evaluation
episode: 879	score: 2.0	memory length: 168651	epsilon: 0.8640690400029509	steps: 220	lr: 0.0001	evaluation
episode: 880	score: 6.0	memory length: 168984	epsilon: 0.8634097000029652	steps: 333	lr: 0.0001	evaluation
episode: 881	score: 1.0	memory length: 169154	epsilon: 0.8630731000029725	steps: 170	lr: 0.0001	evaluation
episode: 882	score: 2.0	memory length: 169335	epsilon: 0.8627147200029803	steps: 181	lr: 0.0001	evaluation
episode: 883	score: 2.0	memory length: 169534	epsilon: 0.8623207000029889	steps: 199	lr: 0.0001	evaluation
episode: 884	score: 3.0	memory length: 169766	epsilon: 0.8618613400029989	steps: 232	lr: 0.0001	evaluation
episode: 885	score: 4.0	memory length: 170044	epsilon: 0.8613109000030108	steps: 278	lr: 0.0001	evaluation
episode: 886	score: 3.0	memory length: 170294	epsilon: 0.8608159000030216	steps: 250	lr: 0.0001	evaluation
episode: 887	score: 3.0	memory length: 170540	epsilon: 0.8603288200030321	steps: 246	lr: 0.0001	evaluation
episode: 888	score: 4.0	memory length: 170818	epsilon: 0.8597783800030441	steps: 278	lr: 0.0001	evaluation
episode: 889	score: 3.0	memory length: 171069	epsilon: 0.8592814000030549	steps: 251	lr: 0.0001	evaluation
episode: 890	score: 0.0	memory length: 171193	epsilon: 0.8590358800030602	steps: 124	lr: 0.0001	evaluation
episode: 891	score: 3.0	memory length: 171419	epsilon: 0.8585884000030699	steps: 226	lr: 0.0001	evaluation
episode: 892	score: 2.0	memory length: 171618	epsilon: 0.8581943800030785	steps: 199	lr: 0.0001	evaluation
episode: 893	score: 5.0	memory length: 171924	epsilon: 0.8575885000030916	steps: 306	lr: 0.0001	evaluation
episode: 894	score: 2.0	memory length: 172123	epsilon: 0.8571944800031002	steps: 199	lr: 0.0001	evaluation
episode: 895	score: 0.0	memory length: 172247	epsilon: 0.8569489600031055	steps: 124	lr: 0.0001	evaluation
episode: 896	score: 5.0	memory length: 172540	epsilon: 0.8563688200031181	steps: 293	lr: 0.0001	evaluation
episode: 897	score: 5.0	memory length: 172856	epsilon: 0.8557431400031317	steps: 316	lr: 0.0001	evaluation
episode: 898	score: 2.0	memory length: 173072	epsilon: 0.855315460003141	steps: 216	lr: 0.0001	evaluation
episode: 899	score: 2.0	memory length: 173293	epsilon: 0.8548778800031505	steps: 221	lr: 0.0001	evaluation
episode: 900	score: 2.0	memory length: 173492	epsilon: 0.854483860003159	steps: 199	lr: 0.0001	evaluation
episode: 901	score: 5.0	memory length: 173854	epsilon: 0.8537671000031746	steps: 362	lr: 0.0001	evaluation
episode: 902	score: 3.0	memory length: 174080	epsilon: 0.8533196200031843	steps: 226	lr: 0.0001	evaluation
episode: 903	score: 3.0	memory length: 174329	epsilon: 0.852826600003195	steps: 249	lr: 0.0001	evaluation
episode: 904	score: 2.0	memory length: 174545	epsilon: 0.8523989200032043	steps: 216	lr: 0.0001	evaluation
episode: 905	score: 2.0	memory length: 174765	epsilon: 0.8519633200032137	steps: 220	lr: 0.0001	evaluation
episode: 906	score: 2.0	memory length: 174964	epsilon: 0.8515693000032223	steps: 199	lr: 0.0001	evaluation
episode: 907	score: 0.0	memory length: 175088	epsilon: 0.8513237800032276	steps: 124	lr: 0.0001	evaluation
episode: 908	score: 3.0	memory length: 175334	epsilon: 0.8508367000032382	steps: 246	lr: 0.0001	evaluation
episode: 909	score: 4.0	memory length: 175618	epsilon: 0.8502743800032504	steps: 284	lr: 0.0001	evaluation
episode: 910	score: 2.0	memory length: 175820	epsilon: 0.8498744200032591	steps: 202	lr: 0.0001	evaluation
episode: 911	score: 1.0	memory length: 175972	epsilon: 0.8495734600032656	steps: 152	lr: 0.0001	evaluation
episode: 912	score: 2.0	memory length: 176171	epsilon: 0.8491794400032742	steps: 199	lr: 0.0001	evaluation
episode: 913	score: 1.0	memory length: 176322	epsilon: 0.8488804600032807	steps: 151	lr: 0.0001	evaluation
episode: 914	score: 2.0	memory length: 176521	epsilon: 0.8484864400032892	steps: 199	lr: 0.0001	evaluation
episode: 915	score: 2.0	memory length: 176740	epsilon: 0.8480528200032986	steps: 219	lr: 0.0001	evaluation
episode: 916	score: 4.0	memory length: 177040	epsilon: 0.8474588200033115	steps: 300	lr: 0.0001	evaluation
episode: 917	score: 3.0	memory length: 177293	epsilon: 0.8469578800033224	steps: 253	lr: 0.0001	evaluation
episode: 918	score: 0.0	memory length: 177416	epsilon: 0.8467143400033277	steps: 123	lr: 0.0001	evaluation
episode: 919	score: 2.0	memory length: 177635	epsilon: 0.8462807200033371	steps: 219	lr: 0.0001	evaluation

episode: 920	score: 6.0	memory length: 177990	epsilon: 0.8455778200033524	steps: 355	lr: 0.0001	evaluation
episode: 921	score: 3.0	memory length: 178236	epsilon: 0.8450907400033629	steps: 246	lr: 0.0001	evaluation
episode: 922	score: 1.0	memory length: 178408	epsilon: 0.8447501800033703	steps: 172	lr: 0.0001	evaluation
episode: 923	score: 0.0	memory length: 178531	epsilon: 0.8445066400033756	steps: 123	lr: 0.0001	evaluation
episode: 924	score: 2.0	memory length: 178751	epsilon: 0.8440710400033851	steps: 220	lr: 0.0001	evaluation
episode: 925	score: 2.0	memory length: 178951	epsilon: 0.8436750400033937	steps: 200	lr: 0.0001	evaluation
episode: 926	score: 1.0	memory length: 179103	epsilon: 0.8433740800034002	steps: 152	lr: 0.0001	evaluation
episode: 927	score: 3.0	memory length: 179350	epsilon: 0.8428850200034108	steps: 247	lr: 0.0001	evaluation
episode: 928	score: 2.0	memory length: 179567	epsilon: 0.8424553600034201	steps: 217	lr: 0.0001	evaluation
episode: 929	score: 5.0	memory length: 179934	epsilon: 0.8417287000034359	steps: 367	lr: 0.0001	evaluation
episode: 930	score: 1.0	memory length: 180107	epsilon: 0.8413861600034434	steps: 173	lr: 0.0001	evaluation
episode: 931	score: 3.0	memory length: 180359	epsilon: 0.8408872000034542	steps: 252	lr: 0.0001	evaluation
episode: 932	score: 4.0	memory length: 180638	epsilon: 0.8403347800034662	steps: 279	lr: 0.0001	evaluation
episode: 933	score: 2.0	memory length: 180818	epsilon: 0.8399783800034739	steps: 180	lr: 0.0001	evaluation
episode: 934	score: 2.0	memory length: 181017	epsilon: 0.8395843600034825	steps: 199	lr: 0.0001	evaluation
episode: 935	score: 0.0	memory length: 181141	epsilon: 0.8393388400034878	steps: 124	lr: 0.0001	evaluation
episode: 936	score: 4.0	memory length: 181429	epsilon: 0.8387686000035002	steps: 288	lr: 0.0001	evaluation
episode: 937	score: 2.0	memory length: 181650	epsilon: 0.8383310200035097	steps: 221	lr: 0.0001	evaluation
episode: 938	score: 0.0	memory length: 181774	epsilon: 0.8380855000035151	steps: 124	lr: 0.0001	evaluation
episode: 939	score: 3.0	memory length: 182021	epsilon: 0.8375964400035256	steps: 247	lr: 0.0001	evaluation
episode: 940	score: 2.0	memory length: 182241	epsilon: 0.8371608400035351	steps: 220	lr: 0.0001	evaluation
episode: 941	score: 4.0	memory length: 182535	epsilon: 0.8365787200035477	steps: 294	lr: 0.0001	evaluation
episode: 942	score: 1.0	memory length: 182708	epsilon: 0.8362361800035552	steps: 173	lr: 0.0001	evaluation
episode: 943	score: 0.0	memory length: 182831	epsilon: 0.8359926400035604	steps: 123	lr: 0.0001	evaluation
episode: 944	score: 1.0	memory length: 182983	epsilon: 0.8356916800035671	steps: 152	lr: 0.0001	evaluation
episode: 945	score: 1.0	memory length: 183153	epsilon: 0.8353550800035743	steps: 170	lr: 0.0001	evaluation
episode: 946	score: 1.0	memory length: 183322	epsilon: 0.8350204600035815	steps: 169	lr: 0.0001	evaluation
episode: 947	score: 9.0	memory length: 183684	epsilon: 0.8343037000035971	steps: 362	lr: 0.0001	evaluation
episode: 948	score: 2.0	memory length: 183885	epsilon: 0.8339057200036057	steps: 201	lr: 0.0001	evaluation
episode: 949	score: 4.0	memory length: 184182	epsilon: 0.8333176600036185	steps: 297	lr: 0.0001	evaluation
episode: 950	score: 5.0	memory length: 184491	epsilon: 0.8327058400036318	steps: 309	lr: 0.0001	evaluation
episode: 951	score: 1.0	memory length: 184663	epsilon: 0.8323652800036392	steps: 172	lr: 0.0001	evaluation
episode: 952	score: 2.0	memory length: 184881	epsilon: 0.8319336400036486	steps: 218	lr: 0.0001	evaluation
episode: 953	score: 5.0	memory length: 185240	epsilon: 0.8312228200036644	steps: 359	lr: 0.0001	evaluation
episode: 954	score: 1.0	memory length: 185409	epsilon: 0.8308882000036713	steps: 169	lr: 0.0001	evaluation
episode: 955	score: 4.0	memory length: 185687	epsilon: 0.8303377600036832	steps: 278	lr: 0.0001	evaluation
episode: 956	score: 2.0	memory length: 185886	epsilon: 0.8299437400036918	steps: 199	lr: 0.0001	evaluation
episode: 957	score: 3.0	memory length: 186135	epsilon: 0.8294507200037025	steps: 249	lr: 0.0001	evaluation
episode: 958	score: 3.0	memory length: 186362	epsilon: 0.8290012600037122	steps: 227	lr: 0.0001	evaluation
episode: 959	score: 3.0	memory length: 186588	epsilon: 0.8285537800037219	steps: 226	lr: 0.0001	evaluation
episode: 960	score: 2.0	memory length: 186786	epsilon: 0.8281617400037304	steps: 198	lr: 0.0001	evaluation
episode: 961	score: 3.0	memory length: 187014	epsilon: 0.8277103000037402	steps: 228	lr: 0.0001	evaluation
episode: 962	score: 2.0	memory length: 187232	epsilon: 0.8272786600037496	steps: 218	lr: 0.0001	evaluation
episode: 963	score: 2.0	memory length: 187431	epsilon: 0.8268846400037582	steps: 199	lr: 0.0001	evaluation
episode: 964	score: 4.0	memory length: 187676	epsilon: 0.8263995400037687	steps: 245	lr: 0.0001	evaluation
episode: 965	score: 4.0	memory length: 187951	epsilon: 0.8258550400037805	steps: 275	lr: 0.0001	evaluation
episode: 966	score: 2.0	memory length: 188132	epsilon: 0.8254966600037883	steps: 181	lr: 0.0001	evaluation
episode: 967	score: 2.0	memory length: 188333	epsilon: 0.8250986800037969	steps: 201	lr: 0.0001	evaluation
episode: 968	score: 3.0	memory length: 188564	epsilon: 0.8246413000038069	steps: 231	lr: 0.0001	evaluation
episode: 969	score: 3.0	memory length: 188794	epsilon: 0.8241859000038168	steps: 230	lr: 0.0001	evaluation
episode: 970	score: 2.0	memory length: 188974	epsilon: 0.8238295000038245	steps: 180	lr: 0.0001	evaluation
episode: 971	score: 2.0	memory length: 189194	epsilon: 0.8233939000038334	steps: 220	lr: 0.0001	evaluation
episode: 972	score: 3.0	memory length: 189460	epsilon: 0.8228672200038454	steps: 266	lr: 0.0001	evaluation
episode: 973	score: 3.0	memory length: 189707	epsilon: 0.8223781600038561	steps: 247	lr: 0.0001	evaluation
episode: 974	score: 3.0	memory length: 189977	epsilon: 0.8218435600038676	steps: 270	lr: 0.0001	evaluation
episode: 975	score: 3.0	memory length: 190224	epsilon: 0.8213545000038782	steps: 247	lr: 0.0001	evaluation
episode: 976	score: 4.0	memory length: 190503	epsilon: 0.8208020800038902	steps: 279	lr: 0.0001	evaluation
episode: 977	score: 2.0	memory length: 190702	epsilon: 0.8204080600038988	steps: 199	lr: 0.0001	evaluation
episode: 978	score: 4.0	memory length: 190980	epsilon: 0.8198576200039107	steps: 278	lr: 0.0001	evaluation
episode: 979	score: 5.0	memory length: 191306	epsilon: 0.8192121400039247	steps: 326	lr: 0.0001	evaluation
episode: 980	score: 5.0	memory length: 191635	epsilon: 0.8185607200039389	steps: 329	lr: 0.0001	evaluation
episode: 981	score: 10.0	memory length: 192103	epsilon: 0.8176340800039599	steps: 468	lr: 0.0001	evaluation
episode: 982	score: 1.0	memory length: 192272	epsilon: 0.8172994600039662	steps: 169	lr: 0.0001	evaluation
episode: 983	score: 4.0	memory length: 192570	epsilon: 0.8167094200039791	steps: 298	lr: 0.0001	evaluation
episode: 984	score: 5.0	memory length: 192897	epsilon: 0.8160619600039931	steps: 327	lr: 0.0001	evaluation
episode: 985	score: 1.0	memory length: 193049	epsilon: 0.8157610000039996	steps: 152	lr: 0.0001	evaluation
episode: 986	score: 3.0	memory length: 193295	epsilon: 0.8152739200040102	steps: 246	lr: 0.0001	evaluation
episode: 987	score: 3.0	memory length: 193522	epsilon: 0.8148244600040211	steps: 227	lr: 0.0001	evaluation
episode: 988	score: 3.0	memory length: 193750	epsilon: 0.8143730200040298	steps: 228	lr: 0.0001	evaluation
episode: 989	score: 6.0	memory length: 194119	epsilon: 0.8136424000040456	steps: 369	lr: 0.0001	evaluation
episode: 990	score: 6.0	memory length: 194513	epsilon: 0.8128622800040626	steps: 394	lr: 0.0001	evaluation
episode: 991	score: 4.0	memory length: 194766	epsilon: 0.8123613400040735	steps: 253	lr: 0.0001	evaluation
episode: 992	score: 2.0	memory length: 194967	epsilon: 0.8119633600040821	steps: 201	lr: 0.0001	evaluation
episode: 993	score: 3.0	memory length: 195217	epsilon: 0.8114683600040928	steps: 250	lr: 0.0001	evaluation
episode: 994	score: 1.0	memory length: 195390	epsilon: 0.8111258200041003	steps: 173	lr: 0.0001	evaluation
episode: 995	score: 2.0	memory length: 195590	epsilon: 0.8107298200041089	steps: 200	lr: 0.0001	evaluation
episode: 996	score: 2.0	memory length: 195809	epsilon: 0.8102962000041183	steps: 219	lr: 0.0001	evaluation
episode: 997	score: 3.0	memory length: 196019	epsilon: 0.8098804000041273	steps: 210	lr: 0.0001	evaluation
episode: 998	score: 4.0	memory length: 196295	epsilon: 0.8093339200041392	steps: 276	lr: 0.0001	evaluation
episode: 999	score: 4.0	memory length: 196607	epsilon: 0.8087161600041526	steps: 312	lr: 0.0001	evaluation
episode: 1000	score: 5.0	memory length: 196931	epsilon: 0.8080746400041665	steps: 324	lr: 0.0001	evaluation
episode: 1001	score: 4.0	memory length: 197230	epsilon: 0.8074826200041794	steps: 299	lr: 0.0001	evaluation
episode: 1002	score: 1.0	memory length: 197382	epsilon: 0.8071816600041859	steps: 152	lr: 0.0001	evaluation
episode: 1003	score: 3.0	memory length: 197631	epsilon: 0.8066886400041966	steps: 249	lr: 0.0001	evaluation
episode: 1004	score: 2.0	memory length: 197830	epsilon: 0.8062946200042052	steps: 199	lr: 0.0001	evaluation

episode: 1005	score: 2.0	memory length: 198047	epsilon: 0.8058649600042145	steps: 217	lr: 0.0001	evaluation
episode: 1006	score: 2.0	memory length: 198249	epsilon: 0.8054650000042232	steps: 202	lr: 0.0001	evaluation
episode: 1007	score: 3.0	memory length: 198517	epsilon: 0.8049343600042347	steps: 268	lr: 0.0001	evaluation
episode: 1008	score: 3.0	memory length: 198785	epsilon: 0.8044037200042462	steps: 268	lr: 0.0001	evaluation
episode: 1009	score: 6.0	memory length: 199143	epsilon: 0.8036948800042616	steps: 358	lr: 0.0001	evaluation
episode: 1010	score: 4.0	memory length: 199419	epsilon: 0.8031484000042735	steps: 276	lr: 0.0001	evaluation
episode: 1011	score: 2.0	memory length: 199600	epsilon: 0.8027900200042812	steps: 181	lr: 0.0001	evaluation
episode: 1012	score: 4.0	memory length: 199878	epsilon: 0.8022395800042932	steps: 278	lr: 0.0001	evaluation
episode: 1013	score: 6.0	memory length: 200272	epsilon: 0.8014594600043101	steps: 394	lr: 4e-05	evaluation
episode: 1014	score: 5.0	memory length: 200597	epsilon: 0.8008159600043241	steps: 325	lr: 4e-05	evaluation
episode: 1015	score: 3.0	memory length: 200824	epsilon: 0.8003665000043338	steps: 227	lr: 4e-05	evaluation
episode: 1016	score: 2.0	memory length: 201026	epsilon: 0.7999665400043425	steps: 202	lr: 4e-05	evaluation
episode: 1017	score: 4.0	memory length: 201303	epsilon: 0.7994180800043544	steps: 277	lr: 4e-05	evaluation
episode: 1018	score: 0.0	memory length: 201427	epsilon: 0.7991725600043598	steps: 124	lr: 4e-05	evaluation
episode: 1019	score: 9.0	memory length: 201930	epsilon: 0.7981766200043814	steps: 503	lr: 4e-05	evaluation
episode: 1020	score: 1.0	memory length: 202102	epsilon: 0.7978360600043888	steps: 172	lr: 4e-05	evaluation
episode: 1021	score: 3.0	memory length: 202328	epsilon: 0.7973885800043985	steps: 226	lr: 4e-05	evaluation
episode: 1022	score: 4.0	memory length: 202629	epsilon: 0.7967926000044114	steps: 301	lr: 4e-05	evaluation
episode: 1023	score: 0.0	memory length: 202753	epsilon: 0.7965470800044168	steps: 124	lr: 4e-05	evaluation
episode: 1024	score: 5.0	memory length: 203098	epsilon: 0.7958639800044316	steps: 345	lr: 4e-05	evaluation
episode: 1025	score: 2.0	memory length: 203297	epsilon: 0.7954699600044401	steps: 199	lr: 4e-05	evaluation
episode: 1026	score: 2.0	memory length: 203496	epsilon: 0.7950759400044487	steps: 199	lr: 4e-05	evaluation
episode: 1027	score: 1.0	memory length: 203648	epsilon: 0.7947749800044552	steps: 152	lr: 4e-05	evaluation
episode: 1028	score: 3.0	memory length: 203898	epsilon: 0.7942799800044666	steps: 250	lr: 4e-05	evaluation
episode: 1029	score: 2.0	memory length: 204116	epsilon: 0.7938483400044754	steps: 218	lr: 4e-05	evaluation
episode: 1030	score: 0.0	memory length: 204240	epsilon: 0.7936028200044807	steps: 124	lr: 4e-05	evaluation
episode: 1031	score: 4.0	memory length: 204516	epsilon: 0.7930563400044925	steps: 276	lr: 4e-05	evaluation
episode: 1032	score: 1.0	memory length: 204686	epsilon: 0.7927197400044999	steps: 170	lr: 4e-05	evaluation
episode: 1033	score: 0.0	memory length: 204809	epsilon: 0.7924762000045051	steps: 123	lr: 4e-05	evaluation
episode: 1034	score: 2.0	memory length: 205031	epsilon: 0.7920366400045147	steps: 222	lr: 4e-05	evaluation
episode: 1035	score: 0.0	memory length: 205155	epsilon: 0.79179112000452	steps: 124	lr: 4e-05	evaluation
episode: 1036	score: 4.0	memory length: 205412	epsilon: 0.7912822600045311	steps: 257	lr: 4e-05	evaluation
episode: 1037	score: 2.0	memory length: 205594	epsilon: 0.7909219000045389	steps: 182	lr: 4e-05	evaluation
episode: 1038	score: 3.0	memory length: 205843	epsilon: 0.7904288800045496	steps: 249	lr: 4e-05	evaluation
episode: 1039	score: 4.0	memory length: 206143	epsilon: 0.7898348800045625	steps: 300	lr: 4e-05	evaluation
episode: 1040	score: 4.0	memory length: 206461	epsilon: 0.7892052400045761	steps: 318	lr: 4e-05	evaluation
episode: 1041	score: 3.0	memory length: 206708	epsilon: 0.7887161800045868	steps: 247	lr: 4e-05	evaluation
episode: 1042	score: 2.0	memory length: 206907	epsilon: 0.7883221600045953	steps: 199	lr: 4e-05	evaluation
episode: 1043	score: 0.0	memory length: 207031	epsilon: 0.7880766400046006	steps: 124	lr: 4e-05	evaluation
episode: 1044	score: 6.0	memory length: 207374	epsilon: 0.7873975000046154	steps: 343	lr: 4e-05	evaluation
episode: 1045	score: 3.0	memory length: 207621	epsilon: 0.786908440004626	steps: 247	lr: 4e-05	evaluation
episode: 1046	score: 3.0	memory length: 207853	epsilon: 0.786449080004636	steps: 232	lr: 4e-05	evaluation
episode: 1047	score: 2.0	memory length: 208035	epsilon: 0.7860887200046438	steps: 182	lr: 4e-05	evaluation
episode: 1048	score: 1.0	memory length: 208186	epsilon: 0.7857897400046503	steps: 151	lr: 4e-05	evaluation
episode: 1049	score: 4.0	memory length: 208466	epsilon: 0.7852353400046623	steps: 280	lr: 4e-05	evaluation
episode: 1050	score: 5.0	memory length: 208770	epsilon: 0.7846334200046754	steps: 304	lr: 4e-05	evaluation
episode: 1051	score: 4.0	memory length: 209064	epsilon: 0.784051300004688	steps: 294	lr: 4e-05	evaluation
episode: 1052	score: 6.0	memory length: 209387	epsilon: 0.7834117600047019	steps: 323	lr: 4e-05	evaluation
episode: 1053	score: 8.0	memory length: 209817	epsilon: 0.7825603600047204	steps: 430	lr: 4e-05	evaluation
episode: 1054	score: 5.0	memory length: 210147	epsilon: 0.7819069600047346	steps: 330	lr: 4e-05	evaluation
episode: 1055	score: 2.0	memory length: 210346	epsilon: 0.7815129400047431	steps: 199	lr: 4e-05	evaluation
episode: 1056	score: 2.0	memory length: 210567	epsilon: 0.7810753600047526	steps: 221	lr: 4e-05	evaluation
episode: 1057	score: 3.0	memory length: 210812	epsilon: 0.7805902600047632	steps: 245	lr: 4e-05	evaluation
episode: 1058	score: 3.0	memory length: 211039	epsilon: 0.7801408000047729	steps: 227	lr: 4e-05	evaluation
episode: 1059	score: 4.0	memory length: 211297	epsilon: 0.779629960004784	steps: 258	lr: 4e-05	evaluation
episode: 1060	score: 3.0	memory length: 211510	epsilon: 0.7792082200047932	steps: 213	lr: 4e-05	evaluation
episode: 1061	score: 2.0	memory length: 211709	epsilon: 0.7788142000048017	steps: 199	lr: 4e-05	evaluation
episode: 1062	score: 6.0	memory length: 212111	epsilon: 0.778018240004819	steps: 402	lr: 4e-05	evaluation
episode: 1063	score: 2.0	memory length: 212329	epsilon: 0.7775866000048284	steps: 218	lr: 4e-05	evaluation
episode: 1064	score: 1.0	memory length: 212499	epsilon: 0.7772500000048357	steps: 170	lr: 4e-05	evaluation
episode: 1065	score: 5.0	memory length: 212779	epsilon: 0.7766956000048477	steps: 280	lr: 4e-05	evaluation
episode: 1066	score: 4.0	memory length: 213055	epsilon: 0.7761491200048596	steps: 276	lr: 4e-05	evaluation
episode: 1067	score: 4.0	memory length: 213353	epsilon: 0.7755590800048724	steps: 298	lr: 4e-05	evaluation
episode: 1068	score: 4.0	memory length: 213633	epsilon: 0.7750046800048844	steps: 280	lr: 4e-05	evaluation
episode: 1069	score: 3.0	memory length: 213862	epsilon: 0.7745512600048943	steps: 229	lr: 4e-05	evaluation
episode: 1070	score: 4.0	memory length: 214161	epsilon: 0.7739592400049071	steps: 299	lr: 4e-05	evaluation
episode: 1071	score: 1.0	memory length: 214332	epsilon: 0.7736206600049145	steps: 171	lr: 4e-05	evaluation
episode: 1072	score: 3.0	memory length: 214558	epsilon: 0.7731731800049242	steps: 226	lr: 4e-05	evaluation
episode: 1073	score: 4.0	memory length: 214834	epsilon: 0.772626960004936	steps: 276	lr: 4e-05	evaluation
episode: 1074	score: 1.0	memory length: 215004	epsilon: 0.7722901000049434	steps: 170	lr: 4e-05	evaluation
episode: 1075	score: 0.0	memory length: 215127	epsilon: 0.7720465600049486	steps: 123	lr: 4e-05	evaluation
episode: 1076	score: 10.0	memory length: 215546	epsilon: 0.7712169400049667	steps: 419	lr: 4e-05	evaluation
episode: 1077	score: 9.0	memory length: 216022	epsilon: 0.7702744600049871	steps: 476	lr: 4e-05	evaluation
episode: 1078	score: 3.0	memory length: 216249	epsilon: 0.7698250000049969	steps: 227	lr: 4e-05	evaluation
episode: 1079	score: 3.0	memory length: 216476	epsilon: 0.7693755400050066	steps: 227	lr: 4e-05	evaluation
episode: 1080	score: 4.0	memory length: 216752	epsilon: 0.7688290600050185	steps: 276	lr: 4e-05	evaluation
episode: 1081	score: 4.0	memory length: 217032	epsilon: 0.7682746600050305	steps: 280	lr: 4e-05	evaluation
episode: 1082	score: 1.0	memory length: 217184	epsilon: 0.7679737000050371	steps: 152	lr: 4e-05	evaluation
episode: 1083	score: 2.0	memory length: 217383	epsilon: 0.7675796800050456	steps: 199	lr: 4e-05	evaluation
episode: 1084	score: 2.0	memory length: 217601	epsilon: 0.7671480400050555	steps: 218	lr: 4e-05	evaluation
episode: 1085	score: 2.0	memory length: 217818	epsilon: 0.7667183800050643	steps: 217	lr: 4e-05	evaluation
episode: 1086	score: 4.0	memory length: 218114	epsilon: 0.766132300005077	steps: 296	lr: 4e-05	evaluation
episode: 1087	score: 4.0	memory length: 218389	epsilon: 0.7655878000050889	steps: 275	lr: 4e-05	evaluation
episode: 1088	score: 6.0	memory length: 218766	epsilon: 0.7648413400051051	steps: 377	lr: 4e-05	evaluation
episode: 1089	score: 1.0	memory length: 218918	epsilon: 0.7645403800051116	steps: 152	lr: 4e-05	evaluation

episode: 1090	score: 1.0	memory length: 219089	epsilon: 0.764201800005119	steps: 171	lr: 4e-05	evaluation:
episode: 1091	score: 2.0	memory length: 219269	epsilon: 0.7638454000051267	steps: 180	lr: 4e-05	evaluation:
episode: 1092	score: 6.0	memory length: 219636	epsilon: 0.76311874000051425	steps: 367	lr: 4e-05	evaluation:
episode: 1093	score: 2.0	memory length: 219857	epsilon: 0.7626811600005152	steps: 221	lr: 4e-05	evaluation:
episode: 1094	score: 0.0	memory length: 219980	epsilon: 0.76243762000051572	steps: 123	lr: 4e-05	evaluation:
episode: 1095	score: 5.0	memory length: 220331	epsilon: 0.76174264000051723	steps: 351	lr: 4e-05	evaluation:
episode: 1096	score: 6.0	memory length: 220723	epsilon: 0.76096648000051892	steps: 392	lr: 4e-05	evaluation:
episode: 1097	score: 3.0	memory length: 220968	epsilon: 0.76048138000051997	steps: 245	lr: 4e-05	evaluation:
episode: 1098	score: 1.0	memory length: 221120	epsilon: 0.76018042000052062	steps: 152	lr: 4e-05	evaluation:
episode: 1099	score: 7.0	memory length: 221404	epsilon: 0.75961810000052185	steps: 284	lr: 4e-05	evaluation:
episode: 1100	score: 6.0	memory length: 221750	epsilon: 0.75893302000052333	steps: 346	lr: 4e-05	evaluation:
episode: 1101	score: 0.0	memory length: 221874	epsilon: 0.75868750000052387	steps: 124	lr: 4e-05	evaluation:
episode: 1102	score: 2.0	memory length: 222075	epsilon: 0.75828952000052473	steps: 201	lr: 4e-05	evaluation:
episode: 1103	score: 10.0	memory length: 222426	epsilon: 0.75759454000052624	steps: 351	lr: 4e-05	evaluation:
episode: 1104	score: 3.0	memory length: 222656	epsilon: 0.75713914000052723	steps: 230	lr: 4e-05	evaluation:
episode: 1105	score: 6.0	memory length: 223042	epsilon: 0.75637486000052889	steps: 386	lr: 4e-05	evaluation:
episode: 1106	score: 4.0	memory length: 223321	epsilon: 0.75582244000053009	steps: 279	lr: 4e-05	evaluation:
episode: 1107	score: 4.0	memory length: 223581	epsilon: 0.7553076400005312	steps: 260	lr: 4e-05	evaluation:
episode: 1108	score: 5.0	memory length: 223922	epsilon: 0.75463246000053267	steps: 341	lr: 4e-05	evaluation:
episode: 1109	score: 1.0	memory length: 224073	epsilon: 0.75433348000053332	steps: 151	lr: 4e-05	evaluation:
episode: 1110	score: 2.0	memory length: 224276	epsilon: 0.75393154000053419	steps: 203	lr: 4e-05	evaluation:
episode: 1111	score: 3.0	memory length: 224524	epsilon: 0.75344050000053526	steps: 248	lr: 4e-05	evaluation:
episode: 1112	score: 3.0	memory length: 224755	epsilon: 0.75298312000053625	steps: 231	lr: 4e-05	evaluation:
episode: 1113	score: 3.0	memory length: 224965	epsilon: 0.75256732000053715	steps: 210	lr: 4e-05	evaluation:
episode: 1114	score: 8.0	memory length: 225402	epsilon: 0.75170206000053903	steps: 437	lr: 4e-05	evaluation:
episode: 1115	score: 6.0	memory length: 225776	epsilon: 0.75096154000054064	steps: 374	lr: 4e-05	evaluation:
episode: 1116	score: 6.0	memory length: 226141	epsilon: 0.75023884000054221	steps: 365	lr: 4e-05	evaluation:
episode: 1117	score: 1.0	memory length: 226293	epsilon: 0.74993788000054286	steps: 152	lr: 4e-05	evaluation:
episode: 1118	score: 6.0	memory length: 226686	epsilon: 0.74915974000054455	steps: 393	lr: 4e-05	evaluation:
episode: 1119	score: 4.0	memory length: 226944	epsilon: 0.74864890000054566	steps: 258	lr: 4e-05	evaluation:
episode: 1120	score: 5.0	memory length: 227249	epsilon: 0.74804500000054697	steps: 305	lr: 4e-05	evaluation:
episode: 1121	score: 3.0	memory length: 227460	epsilon: 0.74762722000054788	steps: 211	lr: 4e-05	evaluation:
episode: 1122	score: 1.0	memory length: 227629	epsilon: 0.7472926000005486	steps: 169	lr: 4e-05	evaluation:
episode: 1123	score: 7.0	memory length: 228046	epsilon: 0.7464669400005504	steps: 417	lr: 4e-05	evaluation:
episode: 1124	score: 2.0	memory length: 228244	epsilon: 0.74607490000055125	steps: 198	lr: 4e-05	evaluation:
episode: 1125	score: 3.0	memory length: 228471	epsilon: 0.74562544000055222	steps: 227	lr: 4e-05	evaluation:
episode: 1126	score: 1.0	memory length: 228644	epsilon: 0.74528290000055297	steps: 173	lr: 4e-05	evaluation:
episode: 1127	score: 7.0	memory length: 229054	epsilon: 0.74447110000055473	steps: 410	lr: 4e-05	evaluation:
episode: 1128	score: 1.0	memory length: 229206	epsilon: 0.74417014000055538	steps: 152	lr: 4e-05	evaluation:
episode: 1129	score: 2.0	memory length: 229407	epsilon: 0.74377216000055625	steps: 201	lr: 4e-05	evaluation:
episode: 1130	score: 4.0	memory length: 229684	epsilon: 0.74322370000055744	steps: 277	lr: 4e-05	evaluation:
episode: 1131	score: 3.0	memory length: 229952	epsilon: 0.74269306000055859	steps: 268	lr: 4e-05	evaluation:
episode: 1132	score: 5.0	memory length: 230274	epsilon: 0.74205550000055997	steps: 322	lr: 4e-05	evaluation:
episode: 1133	score: 3.0	memory length: 230504	epsilon: 0.74160010000056096	steps: 230	lr: 4e-05	evaluation:
episode: 1134	score: 5.0	memory length: 230814	epsilon: 0.74098630000056229	steps: 310	lr: 4e-05	evaluation:
episode: 1135	score: 4.0	memory length: 231095	epsilon: 0.7404299200005635	steps: 281	lr: 4e-05	evaluation:
episode: 1136	score: 5.0	memory length: 231437	epsilon: 0.73975276000056497	steps: 342	lr: 4e-05	evaluation:
episode: 1137	score: 0.0	memory length: 231561	epsilon: 0.7395072400005655	steps: 124	lr: 4e-05	evaluation:
episode: 1138	score: 4.0	memory length: 231837	epsilon: 0.73896076000056669	steps: 276	lr: 4e-05	evaluation:
episode: 1139	score: 5.0	memory length: 232181	epsilon: 0.73827964000056817	steps: 344	lr: 4e-05	evaluation:
episode: 1140	score: 5.0	memory length: 232511	epsilon: 0.73762624000056959	steps: 330	lr: 4e-05	evaluation:
episode: 1141	score: 4.0	memory length: 232807	epsilon: 0.73704016000057086	steps: 296	lr: 4e-05	evaluation:
episode: 1142	score: 2.0	memory length: 233008	epsilon: 0.73664218000057172	steps: 201	lr: 4e-05	evaluation:
episode: 1143	score: 5.0	memory length: 233317	epsilon: 0.73603036000057305	steps: 309	lr: 4e-05	evaluation:
episode: 1144	score: 1.0	memory length: 233488	epsilon: 0.73569178000057379	steps: 171	lr: 4e-05	evaluation:
episode: 1145	score: 4.0	memory length: 233765	epsilon: 0.73514332000057498	steps: 277	lr: 4e-05	evaluation:
episode: 1146	score: 3.0	memory length: 233995	epsilon: 0.73468792000057597	steps: 230	lr: 4e-05	evaluation:
episode: 1147	score: 1.0	memory length: 234147	epsilon: 0.73438696000057662	steps: 152	lr: 4e-05	evaluation:
episode: 1148	score: 8.0	memory length: 234605	epsilon: 0.73348012000057859	steps: 458	lr: 4e-05	evaluation:
episode: 1149	score: 3.0	memory length: 234853	epsilon: 0.73298908000057965	steps: 248	lr: 4e-05	evaluation:
episode: 1150	score: 5.0	memory length: 235179	epsilon: 0.73234360000058106	steps: 326	lr: 4e-05	evaluation:
episode: 1151	score: 5.0	memory length: 235523	epsilon: 0.73166248000058253	steps: 344	lr: 4e-05	evaluation:
episode: 1152	score: 2.0	memory length: 235722	epsilon: 0.73126846000058339	steps: 199	lr: 4e-05	evaluation:
episode: 1153	score: 4.0	memory length: 235987	epsilon: 0.73074376000058453	steps: 265	lr: 4e-05	evaluation:
episode: 1154	score: 7.0	memory length: 236376	epsilon: 0.7299735400005862	steps: 389	lr: 4e-05	evaluation:
episode: 1155	score: 8.0	memory length: 236831	epsilon: 0.72907264000058816	steps: 455	lr: 4e-05	evaluation:
episode: 1156	score: 3.0	memory length: 237060	epsilon: 0.72861922000058914	steps: 229	lr: 4e-05	evaluation:
episode: 1157	score: 2.0	memory length: 237260	epsilon: 0.72822322000059	steps: 200	lr: 4e-05	evaluation:
episode: 1158	score: 3.0	memory length: 237509	epsilon: 0.72773020000059107	steps: 249	lr: 4e-05	evaluation:
episode: 1159	score: 4.0	memory length: 237767	epsilon: 0.72721936000059218	steps: 258	lr: 4e-05	evaluation:
episode: 1160	score: 6.0	memory length: 238145	epsilon: 0.7264709200005938	steps: 378	lr: 4e-05	evaluation:
episode: 1161	score: 4.0	memory length: 238406	epsilon: 0.72595414000059493	steps: 261	lr: 4e-05	evaluation:
episode: 1162	score: 4.0	memory length: 238704	epsilon: 0.72536410000059621	steps: 298	lr: 4e-05	evaluation:
episode: 1163	score: 0.0	memory length: 238828	epsilon: 0.72511858000059674	steps: 124	lr: 4e-05	evaluation:
episode: 1164	score: 2.0	memory length: 239045	epsilon: 0.72468892000059767	steps: 217	lr: 4e-05	evaluation:
episode: 1165	score: 7.0	memory length: 239474	epsilon: 0.72383950000059952	steps: 429	lr: 4e-05	evaluation:
episode: 1166	score: 7.0	memory length: 239878	epsilon: 0.72303958000060125	steps: 404	lr: 4e-05	evaluation:
episode: 1167	score: 5.0	memory length: 240165	epsilon: 0.72247132000060249	steps: 287	lr: 4e-05	evaluation:
episode: 1168	score: 3.0	memory length: 240414	epsilon: 0.72197830000060356	steps: 249	lr: 4e-05	evaluation:
episode: 1169	score: 7.0	memory length: 240785	epsilon: 0.72124372000060515	steps: 371	lr: 4e-05	evaluation:
episode: 1170	score: 5.0	memory length: 241110	epsilon: 0.72060022000060655	steps: 325	lr: 4e-05	evaluation:
episode: 1171	score: 4.0	memory length: 241404	epsilon: 0.72001810000060781	steps: 294	lr: 4e-05	evaluation:
episode: 1172	score: 3.0	memory length: 241630	epsilon: 0.71957062000060878	steps: 226	lr: 4e-05	evaluation:
episode: 1173	score: 5.0	memory length: 241938	epsilon: 0.71896078000061011	steps: 308	lr: 4e-05	evaluation:
episode: 1174	score: 2.0	memory length: 242137	epsilon: 0.71856676000061096	steps: 199	lr: 4e-05	evaluation:

episode: 1175	score: 2.0	memory length: 242318	epsilon: 0.7182083800061174	steps: 181	lr: 4e-05	evaluation: 1.0
episode: 1176	score: 8.0	memory length: 242748	epsilon: 0.7173569800061359	steps: 430	lr: 4e-05	evaluation: 1.0
episode: 1177	score: 4.0	memory length: 243046	epsilon: 0.7167669400061487	steps: 298	lr: 4e-05	evaluation: 1.0
episode: 1178	score: 2.0	memory length: 243247	epsilon: 0.7163689600061574	steps: 201	lr: 4e-05	evaluation: 1.0
episode: 1179	score: 5.0	memory length: 243575	epsilon: 0.7157195200061715	steps: 328	lr: 4e-05	evaluation: 1.0
episode: 1180	score: 4.0	memory length: 243853	epsilon: 0.7151690800061834	steps: 278	lr: 4e-05	evaluation: 1.0
episode: 1181	score: 3.0	memory length: 244082	epsilon: 0.7147156600061932	steps: 229	lr: 4e-05	evaluation: 1.0
episode: 1182	score: 2.0	memory length: 244280	epsilon: 0.7143236200062018	steps: 198	lr: 4e-05	evaluation: 1.0
episode: 1183	score: 3.0	memory length: 244532	epsilon: 0.7138246600062126	steps: 252	lr: 4e-05	evaluation: 1.0
episode: 1184	score: 3.0	memory length: 244782	epsilon: 0.7133296600062233	steps: 250	lr: 4e-05	evaluation: 1.0
episode: 1185	score: 6.0	memory length: 245133	epsilon: 0.7126346800062384	steps: 351	lr: 4e-05	evaluation: 1.0
episode: 1186	score: 3.0	memory length: 245383	epsilon: 0.7121396800062492	steps: 250	lr: 4e-05	evaluation: 1.0
episode: 1187	score: 2.0	memory length: 245601	epsilon: 0.7117080400062585	steps: 218	lr: 4e-05	evaluation: 1.0
episode: 1188	score: 7.0	memory length: 246005	epsilon: 0.7109081200062759	steps: 404	lr: 4e-05	evaluation: 1.0
episode: 1189	score: 5.0	memory length: 246348	epsilon: 0.7102289800062906	steps: 343	lr: 4e-05	evaluation: 1.0
episode: 1190	score: 1.0	memory length: 246518	epsilon: 0.7098923800062998	steps: 170	lr: 4e-05	evaluation: 1.0
episode: 1191	score: 3.0	memory length: 246785	epsilon: 0.7093637200063094	steps: 267	lr: 4e-05	evaluation: 1.0
episode: 1192	score: 6.0	memory length: 247149	epsilon: 0.7086430000063251	steps: 364	lr: 4e-05	evaluation: 1.0
episode: 1193	score: 6.0	memory length: 247543	epsilon: 0.7078628800063342	steps: 394	lr: 4e-05	evaluation: 1.0
episode: 1194	score: 4.0	memory length: 247819	epsilon: 0.7073164000063539	steps: 276	lr: 4e-05	evaluation: 1.0
episode: 1195	score: 7.0	memory length: 248188	epsilon: 0.7065857800063697	steps: 369	lr: 4e-05	evaluation: 1.0
episode: 1196	score: 1.0	memory length: 248340	epsilon: 0.7062848200063763	steps: 152	lr: 4e-05	evaluation: 1.0
episode: 1197	score: 6.0	memory length: 248712	epsilon: 0.7055482600063923	steps: 372	lr: 4e-05	evaluation: 1.0
episode: 1198	score: 3.0	memory length: 248960	epsilon: 0.7050572200064029	steps: 248	lr: 4e-05	evaluation: 1.0
episode: 1199	score: 3.0	memory length: 249189	epsilon: 0.7046038000064128	steps: 229	lr: 4e-05	evaluation: 1.0
episode: 1200	score: 3.0	memory length: 249418	epsilon: 0.7041503800064226	steps: 229	lr: 4e-05	evaluation: 1.0
episode: 1201	score: 4.0	memory length: 249712	epsilon: 0.7035682600064352	steps: 294	lr: 4e-05	evaluation: 1.0
episode: 1202	score: 5.0	memory length: 250037	epsilon: 0.7029247600064492	steps: 325	lr: 4e-05	evaluation: 1.0
episode: 1203	score: 5.0	memory length: 250310	epsilon: 0.702384220006461	steps: 273	lr: 4e-05	evaluation: 1.0
episode: 1204	score: 7.0	memory length: 250697	epsilon: 0.7016179600064776	steps: 387	lr: 4e-05	evaluation: 1.0
episode: 1205	score: 4.0	memory length: 250973	epsilon: 0.7010714800064894	steps: 276	lr: 4e-05	evaluation: 1.0
episode: 1206	score: 2.0	memory length: 251171	epsilon: 0.700679440006498	steps: 198	lr: 4e-05	evaluation: 1.0
episode: 1207	score: 3.0	memory length: 251399	epsilon: 0.7002280000065078	steps: 228	lr: 4e-05	evaluation: 1.0
episode: 1208	score: 0.0	memory length: 251523	epsilon: 0.6998924800065131	steps: 124	lr: 4e-05	evaluation: 1.0
episode: 1209	score: 5.0	memory length: 251868	epsilon: 0.6992993800065279	steps: 345	lr: 4e-05	evaluation: 1.0
episode: 1210	score: 3.0	memory length: 252115	epsilon: 0.6988103200065385	steps: 247	lr: 4e-05	evaluation: 1.0
episode: 1211	score: 5.0	memory length: 252461	epsilon: 0.6981252400065534	steps: 346	lr: 4e-05	evaluation: 1.0
episode: 1212	score: 5.0	memory length: 252793	epsilon: 0.6974678800065677	steps: 332	lr: 4e-05	evaluation: 1.0
episode: 1213	score: 3.0	memory length: 253019	epsilon: 0.6970204000065774	steps: 226	lr: 4e-05	evaluation: 1.0
episode: 1214	score: 6.0	memory length: 253380	epsilon: 0.6963056200065929	steps: 361	lr: 4e-05	evaluation: 1.0
episode: 1215	score: 3.0	memory length: 253628	epsilon: 0.6958145800066036	steps: 248	lr: 4e-05	evaluation: 1.0
episode: 1216	score: 4.0	memory length: 253922	epsilon: 0.6952324600066162	steps: 294	lr: 4e-05	evaluation: 1.0
episode: 1217	score: 5.0	memory length: 254249	epsilon: 0.6945850000066303	steps: 327	lr: 4e-05	evaluation: 1.0
episode: 1218	score: 1.0	memory length: 254420	epsilon: 0.6942464200066376	steps: 171	lr: 4e-05	evaluation: 1.0
episode: 1219	score: 3.0	memory length: 254634	epsilon: 0.6938227000066468	steps: 214	lr: 4e-05	evaluation: 1.0
episode: 1220	score: 1.0	memory length: 254787	epsilon: 0.6935197600066534	steps: 153	lr: 4e-05	evaluation: 1.0
episode: 1221	score: 4.0	memory length: 255057	epsilon: 0.692985160006665	steps: 270	lr: 4e-05	evaluation: 1.0
episode: 1222	score: 5.0	memory length: 255373	epsilon: 0.6923594800066786	steps: 316	lr: 4e-05	evaluation: 1.0
episode: 1223	score: 6.0	memory length: 255712	epsilon: 0.6916882600066931	steps: 339	lr: 4e-05	evaluation: 1.0
episode: 1224	score: 5.0	memory length: 256002	epsilon: 0.6911140600067056	steps: 290	lr: 4e-05	evaluation: 1.0
episode: 1225	score: 8.0	memory length: 256351	epsilon: 0.6904230400067206	steps: 349	lr: 4e-05	evaluation: 1.0
episode: 1226	score: 8.0	memory length: 256756	epsilon: 0.689621140006738	steps: 405	lr: 4e-05	evaluation: 1.0
episode: 1227	score: 5.0	memory length: 257064	epsilon: 0.6890113000067513	steps: 308	lr: 4e-05	evaluation: 1.0
episode: 1228	score: 7.0	memory length: 257478	epsilon: 0.688191580006769	steps: 414	lr: 4e-05	evaluation: 1.0
episode: 1229	score: 2.0	memory length: 257679	epsilon: 0.6877936000067777	steps: 201	lr: 4e-05	evaluation: 1.0
episode: 1230	score: 2.0	memory length: 257898	epsilon: 0.6873598000067871	steps: 219	lr: 4e-05	evaluation: 1.0
episode: 1231	score: 9.0	memory length: 258390	epsilon: 0.6863858200068083	steps: 492	lr: 4e-05	evaluation: 1.0
episode: 1232	score: 5.0	memory length: 258698	epsilon: 0.6857759800068215	steps: 308	lr: 4e-05	evaluation: 1.0
episode: 1233	score: 4.0	memory length: 258994	epsilon: 0.6851899000068342	steps: 296	lr: 4e-05	evaluation: 1.0
episode: 1234	score: 2.0	memory length: 259198	epsilon: 0.684785980006843	steps: 204	lr: 4e-05	evaluation: 1.0
episode: 1235	score: 2.0	memory length: 259379	epsilon: 0.6844276000068508	steps: 181	lr: 4e-05	evaluation: 1.0
episode: 1236	score: 1.0	memory length: 259531	epsilon: 0.6841266400068573	steps: 152	lr: 4e-05	evaluation: 1.0
episode: 1237	score: 8.0	memory length: 259971	epsilon: 0.6832554400068762	steps: 440	lr: 4e-05	evaluation: 1.0
episode: 1238	score: 5.0	memory length: 260279	epsilon: 0.6826456000068895	steps: 308	lr: 4e-05	evaluation: 1.0
episode: 1239	score: 3.0	memory length: 260491	epsilon: 0.6822258400068986	steps: 212	lr: 4e-05	evaluation: 1.0
episode: 1240	score: 2.0	memory length: 260692	epsilon: 0.6818278600069072	steps: 201	lr: 4e-05	evaluation: 1.0
episode: 1241	score: 6.0	memory length: 261011	epsilon: 0.6811962400069209	steps: 319	lr: 4e-05	evaluation: 1.0
episode: 1242	score: 4.0	memory length: 261309	epsilon: 0.6806062000069337	steps: 298	lr: 4e-05	evaluation: 1.0
episode: 1243	score: 5.0	memory length: 261659	epsilon: 0.6799132000069488	steps: 350	lr: 4e-05	evaluation: 1.0
episode: 1244	score: 1.0	memory length: 261811	epsilon: 0.6796122400069553	steps: 152	lr: 4e-05	evaluation: 1.0
episode: 1245	score: 3.0	memory length: 262021	epsilon: 0.6791964400069643	steps: 210	lr: 4e-05	evaluation: 1.0
episode: 1246	score: 7.0	memory length: 262398	epsilon: 0.6784499800069805	steps: 377	lr: 4e-05	evaluation: 1.0
episode: 1247	score: 9.0	memory length: 262876	epsilon: 0.6775035400070011	steps: 478	lr: 4e-05	evaluation: 1.0
episode: 1248	score: 5.0	memory length: 263226	epsilon: 0.6768105400070161	steps: 350	lr: 4e-05	evaluation: 1.0
episode: 1249	score: 8.0	memory length: 263619	epsilon: 0.676032400007033	steps: 393	lr: 4e-05	evaluation: 1.0
episode: 1250	score: 5.0	memory length: 263944	epsilon: 0.675388900007047	steps: 325	lr: 4e-05	evaluation: 1.0
episode: 1251	score: 3.0	memory length: 264174	epsilon: 0.6749335000070569	steps: 230	lr: 4e-05	evaluation: 1.0
episode: 1252	score: 9.0	memory length: 264639	epsilon: 0.6740128000070769	steps: 465	lr: 4e-05	evaluation: 1.0
episode: 1253	score: 4.0	memory length: 264917	epsilon: 0.6734623600070888	steps: 278	lr: 4e-05	evaluation: 1.0
episode: 1254	score: 3.0	memory length: 265164	epsilon: 0.6729733000070994	steps: 247	lr: 4e-05	evaluation: 1.0
episode: 1255	score: 5.0	memory length: 265460	epsilon: 0.6723872200071122	steps: 296	lr: 4e-05	evaluation: 1.0
episode: 1256	score: 4.0	memory length: 265756	epsilon: 0.6718011400071249	steps: 296	lr: 4e-05	evaluation: 1.0
episode: 1257	score: 9.0	memory length: 266230	epsilon: 0.6708626200071452	steps: 474	lr: 4e-05	evaluation: 1.0
episode: 1258	score: 3.0	memory length: 266458	epsilon: 0.670411180007155	steps: 228	lr: 4e-05	evaluation: 1.0
episode: 1259	score: 6.0	memory length: 266834	epsilon: 0.6696667000071712	steps: 376	lr: 4e-05	evaluation: 1.0

episode:	score:	memory	length:	epsilon:	steps:	lr:	evaluation
episode: 1255	score: 0.0	memory	length: 266957	epsilon: 0.6694231600071765	steps: 123	lr: 4e-05	evaluation
episode: 1260	score: 0.0	memory	length: 266957	epsilon: 0.6694231600071765	steps: 123	lr: 4e-05	evaluation
episode: 1261	score: 3.0	memory	length: 267202	epsilon: 0.668938060007187	steps: 245	lr: 4e-05	evaluation
episode: 1262	score: 5.0	memory	length: 267566	epsilon: 0.6682173400072027	steps: 364	lr: 4e-05	evaluation
episode: 1263	score: 1.0	memory	length: 267718	epsilon: 0.6679163800072092	steps: 152	lr: 4e-05	evaluation
episode: 1264	score: 3.0	memory	length: 267932	epsilon: 0.6674926600072184	steps: 214	lr: 4e-05	evaluation
episode: 1265	score: 6.0	memory	length: 268284	epsilon: 0.6667957000072335	steps: 352	lr: 4e-05	evaluation
episode: 1266	score: 4.0	memory	length: 268567	epsilon: 0.6662353600072457	steps: 283	lr: 4e-05	evaluation
episode: 1267	score: 3.0	memory	length: 268798	epsilon: 0.6657779800072556	steps: 231	lr: 4e-05	evaluation
episode: 1268	score: 7.0	memory	length: 269197	epsilon: 0.6649879600072728	steps: 399	lr: 4e-05	evaluation
episode: 1269	score: 2.0	memory	length: 269399	epsilon: 0.6645880000072815	steps: 202	lr: 4e-05	evaluation
episode: 1270	score: 2.0	memory	length: 269582	epsilon: 0.6642256600072893	steps: 183	lr: 4e-05	evaluation
episode: 1271	score: 6.0	memory	length: 269958	epsilon: 0.6634811800073055	steps: 376	lr: 4e-05	evaluation
episode: 1272	score: 7.0	memory	length: 270364	epsilon: 0.662677300007323	steps: 406	lr: 4e-05	evaluation
episode: 1273	score: 14.0	memory	length: 270942	epsilon: 0.6615328600073478	steps: 578	lr: 4e-05	evaluation
episode: 1274	score: 3.0	memory	length: 271168	epsilon: 0.6610853800073575	steps: 226	lr: 4e-05	evaluation
episode: 1275	score: 4.0	memory	length: 271435	epsilon: 0.660556720007369	steps: 267	lr: 4e-05	evaluation
episode: 1276	score: 2.0	memory	length: 271619	epsilon: 0.6601924000073769	steps: 184	lr: 4e-05	evaluation
episode: 1277	score: 5.0	memory	length: 271924	epsilon: 0.65958850000739	steps: 305	lr: 4e-05	evaluation
episode: 1278	score: 5.0	memory	length: 272249	epsilon: 0.658945000007404	steps: 325	lr: 4e-05	evaluation
episode: 1279	score: 4.0	memory	length: 272506	epsilon: 0.658436140007415	steps: 257	lr: 4e-05	evaluation
episode: 1280	score: 9.0	memory	length: 272988	epsilon: 0.6574817800074357	steps: 482	lr: 4e-05	evaluation
episode: 1281	score: 5.0	memory	length: 273298	epsilon: 0.6568679800074491	steps: 310	lr: 4e-05	evaluation
episode: 1282	score: 7.0	memory	length: 273634	epsilon: 0.6562027000074635	steps: 336	lr: 4e-05	evaluation
episode: 1283	score: 5.0	memory	length: 273926	epsilon: 0.655624540007476	steps: 292	lr: 4e-05	evaluation
episode: 1284	score: 5.0	memory	length: 274197	epsilon: 0.6550879600074877	steps: 271	lr: 4e-05	evaluation
episode: 1285	score: 4.0	memory	length: 274496	epsilon: 0.6544959400075006	steps: 299	lr: 4e-05	evaluation
episode: 1286	score: 3.0	memory	length: 274726	epsilon: 0.6540045400075104	steps: 230	lr: 4e-05	evaluation
episode: 1287	score: 3.0	memory	length: 274937	epsilon: 0.6536227600075195	steps: 211	lr: 4e-05	evaluation
episode: 1288	score: 8.0	memory	length: 275369	epsilon: 0.6527674000075381	steps: 432	lr: 4e-05	evaluation
episode: 1289	score: 4.0	memory	length: 275668	epsilon: 0.6521753800075509	steps: 299	lr: 4e-05	evaluation
episode: 1290	score: 7.0	memory	length: 276071	epsilon: 0.6513774400075683	steps: 403	lr: 4e-05	evaluation
episode: 1291	score: 3.0	memory	length: 276300	epsilon: 0.6509240200075781	steps: 229	lr: 4e-05	evaluation
episode: 1292	score: 7.0	memory	length: 276689	epsilon: 0.6501538000075948	steps: 389	lr: 4e-05	evaluation
episode: 1293	score: 9.0	memory	length: 277161	epsilon: 0.6492192400076151	steps: 472	lr: 4e-05	evaluation
episode: 1294	score: 8.0	memory	length: 277632	epsilon: 0.6482866600076354	steps: 471	lr: 4e-05	evaluation
episode: 1295	score: 5.0	memory	length: 277976	epsilon: 0.6476055400076501	steps: 344	lr: 4e-05	evaluation
episode: 1296	score: 6.0	memory	length: 278352	epsilon: 0.6468610600076663	steps: 376	lr: 4e-05	evaluation
episode: 1297	score: 6.0	memory	length: 278731	epsilon: 0.6461106400076826	steps: 379	lr: 4e-05	evaluation
episode: 1298	score: 2.0	memory	length: 278930	epsilon: 0.6457166200076911	steps: 199	lr: 4e-05	evaluation
episode: 1299	score: 5.0	memory	length: 279299	epsilon: 0.644986000007707	steps: 369	lr: 4e-05	evaluation
episode: 1300	score: 5.0	memory	length: 279632	epsilon: 0.6443266600077213	steps: 333	lr: 4e-05	evaluation
episode: 1301	score: 4.0	memory	length: 279874	epsilon: 0.6438475000077317	steps: 242	lr: 4e-05	evaluation
episode: 1302	score: 11.0	memory	length: 280326	epsilon: 0.6429525400077511	steps: 452	lr: 4e-05	evaluation
episode: 1303	score: 7.0	memory	length: 280733	epsilon: 0.6421466800077686	steps: 407	lr: 4e-05	evaluation
episode: 1304	score: 5.0	memory	length: 281023	epsilon: 0.6415724800077811	steps: 290	lr: 4e-05	evaluation
episode: 1305	score: 1.0	memory	length: 281175	epsilon: 0.6412715200077876	steps: 152	lr: 4e-05	evaluation
episode: 1306	score: 5.0	memory	length: 281466	epsilon: 0.6406953400078002	steps: 291	lr: 4e-05	evaluation
episode: 1307	score: 6.0	memory	length: 281840	epsilon: 0.6399548200078162	steps: 374	lr: 4e-05	evaluation
episode: 1308	score: 8.0	memory	length: 282291	epsilon: 0.6390618400078356	steps: 451	lr: 4e-05	evaluation
episode: 1309	score: 4.0	memory	length: 282571	epsilon: 0.6385074400078476	steps: 280	lr: 4e-05	evaluation
episode: 1310	score: 6.0	memory	length: 282965	epsilon: 0.6377273200078646	steps: 394	lr: 4e-05	evaluation
episode: 1311	score: 8.0	memory	length: 283366	epsilon: 0.6369333400078818	steps: 401	lr: 4e-05	evaluation
episode: 1312	score: 6.0	memory	length: 283707	epsilon: 0.6362581600078965	steps: 341	lr: 4e-05	evaluation
episode: 1313	score: 8.0	memory	length: 284144	epsilon: 0.6353929000079153	steps: 437	lr: 4e-05	evaluation
episode: 1314	score: 7.0	memory	length: 284566	epsilon: 0.6345573400079334	steps: 422	lr: 4e-05	evaluation
episode: 1315	score: 1.0	memory	length: 284718	epsilon: 0.6342563800079399	steps: 152	lr: 4e-05	evaluation
episode: 1316	score: 4.0	memory	length: 285015	epsilon: 0.6336683200079527	steps: 297	lr: 4e-05	evaluation
episode: 1317	score: 4.0	memory	length: 285297	epsilon: 0.6331099600079648	steps: 282	lr: 4e-05	evaluation
episode: 1318	score: 4.0	memory	length: 285576	epsilon: 0.6325575400079768	steps: 279	lr: 4e-05	evaluation
episode: 1319	score: 2.0	memory	length: 285778	epsilon: 0.6321575800079855	steps: 202	lr: 4e-05	evaluation
episode: 1320	score: 6.0	memory	length: 286125	epsilon: 0.6314705200080004	steps: 347	lr: 4e-05	evaluation
episode: 1321	score: 7.0	memory	length: 286541	epsilon: 0.6306468400080183	steps: 416	lr: 4e-05	evaluation
episode: 1322	score: 4.0	memory	length: 286802	epsilon: 0.6301300600080295	steps: 261	lr: 4e-05	evaluation
episode: 1323	score: 6.0	memory	length: 287160	epsilon: 0.6294212200080449	steps: 358	lr: 4e-05	evaluation
episode: 1324	score: 4.0	memory	length: 287458	epsilon: 0.6288311800080577	steps: 298	lr: 4e-05	evaluation
episode: 1325	score: 2.0	memory	length: 287641	epsilon: 0.6284688400080656	steps: 183	lr: 4e-05	evaluation
episode: 1326	score: 5.0	memory	length: 287923	epsilon: 0.6279104800080777	steps: 282	lr: 4e-05	evaluation
episode: 1327	score: 3.0	memory	length: 288134	epsilon: 0.6274927000080868	steps: 211	lr: 4e-05	evaluation
episode: 1328	score: 2.0	memory	length: 288315	epsilon: 0.6271343200080945	steps: 181	lr: 4e-05	evaluation
episode: 1329	score: 5.0	memory	length: 288619	epsilon: 0.6265324000081076	steps: 304	lr: 4e-05	evaluation
episode: 1330	score: 7.0	memory	length: 289062	epsilon: 0.6256552600081267	steps: 443	lr: 4e-05	evaluation
episode: 1331	score: 5.0	memory	length: 289366	epsilon: 0.6250533400081397	steps: 304	lr: 4e-05	evaluation
episode: 1332	score: 4.0	memory	length: 289623	epsilon: 0.6245444800081508	steps: 257	lr: 4e-05	evaluation
episode: 1333	score: 9.0	memory	length: 289932	epsilon: 0.623932660008164	steps: 309	lr: 4e-05	evaluation
episode: 1334	score: 7.0	memory	length: 290361	epsilon: 0.6230832400081825	steps: 429	lr: 4e-05	evaluation
episode: 1335	score: 7.0	memory	length: 290731	epsilon: 0.6223506400081984	steps: 370	lr: 4e-05	evaluation
episode: 1336	score: 7.0	memory	length: 291121	epsilon: 0.6215784400082152	steps: 390	lr: 4e-05	evaluation
episode: 1337	score: 4.0	memory	length: 291404	epsilon: 0.6210181000082273	steps: 283	lr: 4e-05	evaluation
episode: 1338	score: 5.0	memory	length: 291712	epsilon: 0.6204082600082406	steps: 308	lr: 4e-05	evaluation
episode: 1339	score: 1.0	memory	length: 291885	epsilon: 0.620065720008248	steps: 173	lr: 4e-05	evaluation
episode: 1340	score: 9.0	memory	length: 292403	epsilon: 0.6190400800082703	steps: 518	lr: 4e-05	evaluation
episode: 1341	score: 5.0	memory	length: 292707	epsilon: 0.6184381600082833	steps: 304	lr: 4e-05	evaluation
episode: 1342	score: 6.0	memory	length: 293061	epsilon: 0.6177372400082985	steps: 354	lr: 4e-05	evaluation
episode: 1343	score: 4.0	memory	length: 293338	epsilon: 0.6171887800083105	steps: 277	lr: 4e-05	evaluation

episode: 1344	score: 6.0	memory length: 293664	epsilon: 0.6165433000083245	steps: 326	lr: 4e-05	evaluation:
episode: 1345	score: 1.0	memory length: 293816	epsilon: 0.616242340008331	steps: 152	lr: 4e-05	evaluation:
episode: 1346	score: 3.0	memory length: 294045	epsilon: 0.6157889200083408	steps: 229	lr: 4e-05	evaluation:
episode: 1347	score: 6.0	memory length: 294402	epsilon: 0.6150820600083562	steps: 357	lr: 4e-05	evaluation:
episode: 1348	score: 5.0	memory length: 294695	epsilon: 0.6145019200083688	steps: 293	lr: 4e-05	evaluation:
episode: 1349	score: 4.0	memory length: 294953	epsilon: 0.6139910800083799	steps: 258	lr: 4e-05	evaluation:
episode: 1350	score: 4.0	memory length: 295217	epsilon: 0.6134683600083912	steps: 264	lr: 4e-05	evaluation:
episode: 1351	score: 6.0	memory length: 295550	epsilon: 0.6128090200084055	steps: 333	lr: 4e-05	evaluation:
episode: 1352	score: 3.0	memory length: 295782	epsilon: 0.6123496600084155	steps: 232	lr: 4e-05	evaluation:
episode: 1353	score: 7.0	memory length: 296173	epsilon: 0.6115754800084323	steps: 391	lr: 4e-05	evaluation:
episode: 1354	score: 3.0	memory length: 296402	epsilon: 0.6111220600084422	steps: 229	lr: 4e-05	evaluation:
episode: 1355	score: 5.0	memory length: 296686	epsilon: 0.6105597400084544	steps: 284	lr: 4e-05	evaluation:
episode: 1356	score: 2.0	memory length: 296868	epsilon: 0.6101993800084622	steps: 182	lr: 4e-05	evaluation:
episode: 1357	score: 5.0	memory length: 297194	epsilon: 0.6095539000084762	steps: 326	lr: 4e-05	evaluation:
episode: 1358	score: 3.0	memory length: 297460	epsilon: 0.6090272200084876	steps: 266	lr: 4e-05	evaluation:
episode: 1359	score: 8.0	memory length: 297883	epsilon: 0.6081896800085058	steps: 423	lr: 4e-05	evaluation:
episode: 1360	score: 5.0	memory length: 298196	epsilon: 0.6075699400085193	steps: 313	lr: 4e-05	evaluation:
episode: 1361	score: 5.0	memory length: 298504	epsilon: 0.6069601000085325	steps: 308	lr: 4e-05	evaluation:
episode: 1362	score: 2.0	memory length: 298684	epsilon: 0.6066037000085402	steps: 180	lr: 4e-05	evaluation:
episode: 1363	score: 6.0	memory length: 299079	epsilon: 0.6058216000085572	steps: 395	lr: 4e-05	evaluation:
episode: 1364	score: 3.0	memory length: 299305	epsilon: 0.6053741200085669	steps: 226	lr: 4e-05	evaluation:
episode: 1365	score: 6.0	memory length: 299645	epsilon: 0.6047009200085816	steps: 340	lr: 4e-05	evaluation:
episode: 1366	score: 4.0	memory length: 299905	epsilon: 0.6041861200085927	steps: 260	lr: 4e-05	evaluation:
episode: 1367	score: 5.0	memory length: 300214	epsilon: 0.603574300008606	steps: 309	lr: 1.6000000000000003e	
episode: 1368	score: 8.0	memory length: 300663	epsilon: 0.6026852800086253	steps: 449	lr: 1.6000000000000003	
episode: 1369	score: 3.0	memory length: 300890	epsilon: 0.6022358200086351	steps: 227	lr: 1.6000000000000003	
episode: 1370	score: 7.0	memory length: 301281	epsilon: 0.6014616400086519	steps: 391	lr: 1.6000000000000003	
episode: 1371	score: 4.0	memory length: 301543	epsilon: 0.6009428800086631	steps: 262	lr: 1.6000000000000003	
episode: 1372	score: 3.0	memory length: 301754	epsilon: 0.6005251000086722	steps: 211	lr: 1.6000000000000003	
episode: 1373	score: 7.0	memory length: 302161	epsilon: 0.5997192400086897	steps: 407	lr: 1.6000000000000003	
episode: 1374	score: 5.0	memory length: 302490	epsilon: 0.5990678200087038	steps: 329	lr: 1.6000000000000003	
episode: 1375	score: 4.0	memory length: 302748	epsilon: 0.5985569800087149	steps: 258	lr: 1.6000000000000003	
episode: 1376	score: 6.0	memory length: 303105	epsilon: 0.5978501200087303	steps: 357	lr: 1.6000000000000003	
episode: 1377	score: 8.0	memory length: 303541	epsilon: 0.596986840008749	steps: 436	lr: 1.6000000000000003e	
episode: 1378	score: 2.0	memory length: 303745	epsilon: 0.5965829200087578	steps: 204	lr: 1.6000000000000003	
episode: 1379	score: 6.0	memory length: 304089	epsilon: 0.5959018000087726	steps: 344	lr: 1.6000000000000003	
episode: 1380	score: 2.0	memory length: 304290	epsilon: 0.5955038200087812	steps: 201	lr: 1.6000000000000003	
episode: 1381	score: 6.0	memory length: 304631	epsilon: 0.5948286400087959	steps: 341	lr: 1.6000000000000003	
episode: 1382	score: 3.0	memory length: 304859	epsilon: 0.5943772000088057	steps: 228	lr: 1.6000000000000003	
episode: 1383	score: 12.0	memory length: 305326	epsilon: 0.5934525400088257	steps: 467	lr: 1.6000000000000000	
episode: 1384	score: 8.0	memory length: 305782	epsilon: 0.5925496600088453	steps: 456	lr: 1.6000000000000003	
episode: 1385	score: 4.0	memory length: 306061	epsilon: 0.5919972400088573	steps: 279	lr: 1.6000000000000003	
episode: 1386	score: 8.0	memory length: 306521	epsilon: 0.5910864400088771	steps: 460	lr: 1.6000000000000003	
episode: 1387	score: 10.0	memory length: 307030	epsilon: 0.590078620008899	steps: 509	lr: 1.6000000000000003	
episode: 1388	score: 4.0	memory length: 307308	epsilon: 0.5895281800089109	steps: 278	lr: 1.6000000000000003	
episode: 1389	score: 6.0	memory length: 307635	epsilon: 0.588880720008925	steps: 327	lr: 1.6000000000000003e	
episode: 1390	score: 3.0	memory length: 307899	epsilon: 0.5883580000089363	steps: 264	lr: 1.6000000000000003	
episode: 1391	score: 13.0	memory length: 308423	epsilon: 0.5873204800089589	steps: 524	lr: 1.6000000000000000	
episode: 1392	score: 4.0	memory length: 308705	epsilon: 0.586762120008971	steps: 282	lr: 1.6000000000000003e	
episode: 1393	score: 10.0	memory length: 309177	epsilon: 0.5858275600089913	steps: 472	lr: 1.6000000000000000	
episode: 1394	score: 5.0	memory length: 309541	epsilon: 0.5851068400090069	steps: 364	lr: 1.6000000000000003	
episode: 1395	score: 5.0	memory length: 309832	epsilon: 0.5845306600090194	steps: 291	lr: 1.6000000000000003	
episode: 1396	score: 4.0	memory length: 310073	epsilon: 0.5840534800090298	steps: 241	lr: 1.6000000000000003	
episode: 1397	score: 9.0	memory length: 310542	epsilon: 0.5831248600090905	steps: 469	lr: 1.6000000000000003e	
episode: 1398	score: 10.0	memory length: 311058	epsilon: 0.5821031800090721	steps: 516	lr: 1.6000000000000000	
episode: 1399	score: 8.0	memory length: 311493	epsilon: 0.5812418800090908	steps: 435	lr: 1.6000000000000003	
episode: 1400	score: 8.0	memory length: 311903	epsilon: 0.5804300800091085	steps: 410	lr: 1.6000000000000003	
episode: 1401	score: 6.0	memory length: 312258	epsilon: 0.5797271800091237	steps: 355	lr: 1.6000000000000003	
episode: 1402	score: 5.0	memory length: 312586	epsilon: 0.5790777400091378	steps: 328	lr: 1.6000000000000003	
episode: 1403	score: 8.0	memory length: 312989	epsilon: 0.5782798000091551	steps: 403	lr: 1.6000000000000003	
episode: 1404	score: 7.0	memory length: 313376	epsilon: 0.5775135400091718	steps: 387	lr: 1.6000000000000003	
episode: 1405	score: 4.0	memory length: 313672	epsilon: 0.5769274600091845	steps: 296	lr: 1.6000000000000003	
episode: 1406	score: 2.0	memory length: 313855	epsilon: 0.5765651200091924	steps: 183	lr: 1.6000000000000003	
episode: 1407	score: 4.0	memory length: 314152	epsilon: 0.5759770600092051	steps: 297	lr: 1.6000000000000003	
episode: 1408	score: 4.0	memory length: 314449	epsilon: 0.5753890000092179	steps: 297	lr: 1.6000000000000003	
episode: 1409	score: 16.0	memory length: 314908	epsilon: 0.5744801800092376	steps: 459	lr: 1.6000000000000000	
episode: 1410	score: 4.0	memory length: 315171	epsilon: 0.5739594400092489	steps: 263	lr: 1.6000000000000003	
episode: 1411	score: 4.0	memory length: 315411	epsilon: 0.5734842400092592	steps: 240	lr: 1.6000000000000003	
episode: 1412	score: 5.0	memory length: 315721	epsilon: 0.5728704400092726	steps: 310	lr: 1.6000000000000003	
episode: 1413	score: 4.0	memory length: 315983	epsilon: 0.5723516800092838	steps: 262	lr: 1.6000000000000003	
episode: 1414	score: 10.0	memory length: 316345	epsilon: 0.5716349200092994	steps: 362	lr: 1.6000000000000000	
episode: 1415	score: 7.0	memory length: 316717	epsilon: 0.5708983600093154	steps: 372	lr: 1.6000000000000003	
episode: 1416	score: 4.0	memory length: 317011	epsilon: 0.570316240009328	steps: 294	lr: 1.6000000000000003e	
episode: 1417	score: 8.0	memory length: 317466	epsilon: 0.5694153400093476	steps: 455	lr: 1.6000000000000003	
episode: 1418	score: 4.0	memory length: 317728	epsilon: 0.5688965800093588	steps: 262	lr: 1.6000000000000003	
episode: 1419	score: 5.0	memory length: 318036	epsilon: 0.5682867400093721	steps: 308	lr: 1.6000000000000003	
episode: 1420	score: 4.0	memory length: 318278	epsilon: 0.5678075800093825	steps: 242	lr: 1.6000000000000003	
episode: 1421	score: 6.0	memory length: 318597	epsilon: 0.5671759600093962	steps: 319	lr: 1.6000000000000003	
episode: 1422	score: 8.0	memory length: 318976	epsilon: 0.5664255400094125	steps: 379	lr: 1.6000000000000003	
episode: 1423	score: 9.0	memory length: 319508	epsilon: 0.5653721800094353	steps: 532	lr: 1.6000000000000003	
episode: 1424	score: 8.0	memory length: 319946	epsilon: 0.5645049400094542	steps: 438	lr: 1.6000000000000003	
episode: 1425	score: 9.0	memory length: 320402	epsilon: 0.5636020600094738	steps: 456	lr: 1.6000000000000003	
episode: 1426	score: 11.0	memory length: 320844	epsilon: 0.5627269000094928	steps: 442	lr: 1.6000000000000000	
episode: 1427	score: 3.0	memory length: 321054	epsilon: 0.5623111000095018	steps: 210	lr: 1.6000000000000003	
episode: 1428	score: 7.0	memory length: 321475	epsilon: 0.5614775200095199	steps: 421	lr: 1.6000000000000003	

episode: 1429	score: 15.0	memory length: 322028	epsilon: 0.5603825800095437	steps: 553	lr: 1.6000000000000000
episode: 1430	score: 10.0	memory length: 322573	epsilon: 0.5593034800095671	steps: 545	lr: 1.6000000000000000
episode: 1431	score: 4.0	memory length: 322837	epsilon: 0.5587807600095784	steps: 264	lr: 1.6000000000000003
episode: 1432	score: 9.0	memory length: 323314	epsilon: 0.5578363000095989	steps: 477	lr: 1.6000000000000003
episode: 1433	score: 9.0	memory length: 323803	epsilon: 0.55686808000962	steps: 489	lr: 1.600000000000003e-
episode: 1434	score: 3.0	memory length: 324053	epsilon: 0.5563730800096307	steps: 250	lr: 1.6000000000000003
episode: 1435	score: 4.0	memory length: 324313	epsilon: 0.5558582800096419	steps: 260	lr: 1.6000000000000003
episode: 1436	score: 6.0	memory length: 324668	epsilon: 0.5551553800096571	steps: 355	lr: 1.6000000000000003
episode: 1437	score: 6.0	memory length: 325020	epsilon: 0.5544584200096723	steps: 352	lr: 1.6000000000000003
episode: 1438	score: 3.0	memory length: 325250	epsilon: 0.5540030200096822	steps: 230	lr: 1.6000000000000003
episode: 1439	score: 8.0	memory length: 325651	epsilon: 0.5532094000096994	steps: 401	lr: 1.6000000000000003
episode: 1440	score: 4.0	memory length: 325909	epsilon: 0.5526982000097105	steps: 258	lr: 1.6000000000000003
episode: 1441	score: 6.0	memory length: 326285	epsilon: 0.5519537200097266	steps: 376	lr: 1.6000000000000003
episode: 1442	score: 5.0	memory length: 326590	epsilon: 0.5513498200097398	steps: 305	lr: 1.6000000000000003
episode: 1443	score: 3.0	memory length: 326804	epsilon: 0.550926100009749	steps: 214	lr: 1.600000000000003e
episode: 1444	score: 9.0	memory length: 327221	epsilon: 0.5501004400097669	steps: 417	lr: 1.6000000000000003
episode: 1445	score: 6.0	memory length: 327542	epsilon: 0.5494648600097807	steps: 321	lr: 1.6000000000000003
episode: 1446	score: 7.0	memory length: 327878	epsilon: 0.5487995800097951	steps: 336	lr: 1.6000000000000003
episode: 1447	score: 5.0	memory length: 328187	epsilon: 0.5481877600098084	steps: 309	lr: 1.6000000000000003
episode: 1448	score: 3.0	memory length: 328399	epsilon: 0.5477680000098175	steps: 212	lr: 1.6000000000000003
episode: 1449	score: 6.0	memory length: 328738	epsilon: 0.5470967800098321	steps: 339	lr: 1.6000000000000003
episode: 1450	score: 12.0	memory length: 329333	epsilon: 0.5459186800098577	steps: 595	lr: 1.6000000000000000
episode: 1451	score: 7.0	memory length: 329743	epsilon: 0.5451068800098753	steps: 410	lr: 1.6000000000000003
episode: 1452	score: 4.0	memory length: 330025	epsilon: 0.5445485200098874	steps: 282	lr: 1.6000000000000003
episode: 1453	score: 3.0	memory length: 330277	epsilon: 0.5440495600098982	steps: 252	lr: 1.6000000000000003
episode: 1454	score: 11.0	memory length: 330679	epsilon: 0.5432536000099155	steps: 402	lr: 1.6000000000000000
episode: 1455	score: 5.0	memory length: 330991	epsilon: 0.5426358400099289	steps: 312	lr: 1.6000000000000003
episode: 1456	score: 4.0	memory length: 331253	epsilon: 0.5421170800099402	steps: 262	lr: 1.6000000000000003
episode: 1457	score: 8.0	memory length: 331685	epsilon: 0.5412617200099588	steps: 432	lr: 1.6000000000000003
episode: 1458	score: 7.0	memory length: 332058	epsilon: 0.5405231800099748	steps: 373	lr: 1.6000000000000003
episode: 1459	score: 5.0	memory length: 332350	epsilon: 0.5399450200099873	steps: 292	lr: 1.6000000000000003
episode: 1460	score: 5.0	memory length: 332676	epsilon: 0.5392995400100014	steps: 326	lr: 1.6000000000000003
episode: 1461	score: 5.0	memory length: 333019	epsilon: 0.5386204000100161	steps: 343	lr: 1.6000000000000003
episode: 1462	score: 9.0	memory length: 333474	epsilon: 0.5377195000100357	steps: 455	lr: 1.6000000000000003
episode: 1463	score: 6.0	memory length: 333804	epsilon: 0.5370661000100498	steps: 330	lr: 1.6000000000000003
episode: 1464	score: 5.0	memory length: 334129	epsilon: 0.5364226000100638	steps: 325	lr: 1.6000000000000003
episode: 1465	score: 6.0	memory length: 334470	epsilon: 0.5357474200100785	steps: 341	lr: 1.6000000000000003
episode: 1466	score: 11.0	memory length: 335024	epsilon: 0.5346505000101023	steps: 554	lr: 1.6000000000000000
episode: 1467	score: 12.0	memory length: 335607	epsilon: 0.5334961600101273	steps: 583	lr: 1.6000000000000000
episode: 1468	score: 5.0	memory length: 335896	epsilon: 0.5329239400101398	steps: 289	lr: 1.6000000000000003
episode: 1469	score: 7.0	memory length: 336277	epsilon: 0.5321695600101561	steps: 381	lr: 1.6000000000000003
episode: 1470	score: 9.0	memory length: 336753	epsilon: 0.5312270800101766	steps: 476	lr: 1.6000000000000003
episode: 1471	score: 6.0	memory length: 337088	epsilon: 0.530563780010191	steps: 335	lr: 1.600000000000003e
episode: 1472	score: 11.0	memory length: 337503	epsilon: 0.5297420800102088	steps: 415	lr: 1.6000000000000000
episode: 1473	score: 5.0	memory length: 337821	epsilon: 0.5291124400102225	steps: 318	lr: 1.6000000000000003
episode: 1474	score: 5.0	memory length: 338148	epsilon: 0.5284649800102366	steps: 327	lr: 1.6000000000000003
episode: 1475	score: 4.0	memory length: 338466	epsilon: 0.5278353400102502	steps: 318	lr: 1.6000000000000003
episode: 1476	score: 9.0	memory length: 338904	epsilon: 0.5269681000102691	steps: 438	lr: 1.6000000000000003
episode: 1477	score: 4.0	memory length: 339166	epsilon: 0.5264493400102803	steps: 262	lr: 1.6000000000000003
episode: 1478	score: 6.0	memory length: 339543	epsilon: 0.5257028800102965	steps: 377	lr: 1.6000000000000003
episode: 1479	score: 9.0	memory length: 340050	epsilon: 0.5246990200103183	steps: 507	lr: 1.6000000000000003
episode: 1480	score: 11.0	memory length: 340483	epsilon: 0.5238416800103369	steps: 433	lr: 1.6000000000000000
episode: 1481	score: 6.0	memory length: 340879	epsilon: 0.523057600010354	steps: 396	lr: 1.6000000000000003e
episode: 1482	score: 5.0	memory length: 341187	epsilon: 0.5224477600103672	steps: 308	lr: 1.6000000000000003
episode: 1483	score: 5.0	memory length: 341494	epsilon: 0.5218399000103804	steps: 307	lr: 1.6000000000000003
episode: 1484	score: 9.0	memory length: 341900	epsilon: 0.5210360200103978	steps: 406	lr: 1.6000000000000003
episode: 1485	score: 6.0	memory length: 342221	epsilon: 0.5204004400104116	steps: 321	lr: 1.6000000000000003
episode: 1486	score: 5.0	memory length: 342532	epsilon: 0.519784660010425	steps: 311	lr: 1.600000000000003e
episode: 1487	score: 7.0	memory length: 342888	epsilon: 0.5190797800104403	steps: 356	lr: 1.6000000000000003
episode: 1488	score: 5.0	memory length: 343194	epsilon: 0.5184739000104535	steps: 306	lr: 1.6000000000000003
episode: 1489	score: 9.0	memory length: 343699	epsilon: 0.5174740000104752	steps: 505	lr: 1.6000000000000003
episode: 1490	score: 4.0	memory length: 343975	epsilon: 0.516927520010487	steps: 276	lr: 1.600000000000003e
episode: 1491	score: 7.0	memory length: 344346	epsilon: 0.516192940010503	steps: 371	lr: 1.600000000000003e
episode: 1492	score: 6.0	memory length: 344682	epsilon: 0.5155276600105174	steps: 336	lr: 1.6000000000000003
episode: 1493	score: 3.0	memory length: 344912	epsilon: 0.5150722600105273	steps: 230	lr: 1.6000000000000003
episode: 1494	score: 5.0	memory length: 345234	epsilon: 0.5144347000105411	steps: 322	lr: 1.6000000000000003
episode: 1495	score: 8.0	memory length: 345702	epsilon: 0.5135080600105613	steps: 468	lr: 1.6000000000000003
episode: 1496	score: 7.0	memory length: 346085	epsilon: 0.5127497200105777	steps: 383	lr: 1.6000000000000003
episode: 1497	score: 7.0	memory length: 346459	epsilon: 0.5120092000105938	steps: 374	lr: 1.6000000000000003
episode: 1498	score: 5.0	memory length: 346807	epsilon: 0.5113201600106088	steps: 348	lr: 1.6000000000000003
episode: 1499	score: 7.0	memory length: 347191	epsilon: 0.5105598400106253	steps: 384	lr: 1.6000000000000003
episode: 1500	score: 9.0	memory length: 347708	epsilon: 0.5095361800106475	steps: 517	lr: 1.6000000000000003
episode: 1501	score: 7.0	memory length: 348118	epsilon: 0.5087243800106651	steps: 410	lr: 1.6000000000000003
episode: 1502	score: 4.0	memory length: 348387	epsilon: 0.5081917600106767	steps: 269	lr: 1.6000000000000003
episode: 1503	score: 8.0	memory length: 348825	epsilon: 0.5073245200106955	steps: 438	lr: 1.6000000000000003
episode: 1504	score: 8.0	memory length: 349242	epsilon: 0.5064988600107134	steps: 417	lr: 1.6000000000000003
episode: 1505	score: 3.0	memory length: 349491	epsilon: 0.5060058400107241	steps: 249	lr: 1.6000000000000003
episode: 1506	score: 9.0	memory length: 349911	epsilon: 0.5051742400107422	steps: 420	lr: 1.6000000000000003
episode: 1507	score: 6.0	memory length: 350274	epsilon: 0.5044555000107578	steps: 363	lr: 1.6000000000000003
episode: 1508	score: 7.0	memory length: 350643	epsilon: 0.5037248800107736	steps: 369	lr: 1.6000000000000003
episode: 1509	score: 5.0	memory length: 350959	epsilon: 0.5030992000107872	steps: 316	lr: 1.6000000000000003
episode: 1510	score: 6.0	memory length: 351352	epsilon: 0.5023210600108041	steps: 393	lr: 1.6000000000000003
episode: 1511	score: 13.0	memory length: 351978	epsilon: 0.501081580010831	steps: 626	lr: 1.6000000000000003
episode: 1512	score: 12.0	memory length: 352432	epsilon: 0.5001826600108505	steps: 454	lr: 1.6000000000000000
episode: 1513	score: 6.0	memory length: 352771	epsilon: 0.4995114400108514	steps: 339	lr: 1.6000000000000003

episode: 1514	score: 9.0	memory length: 353256	epsilon: 0.49855114001084533	steps: 485	lr: 1.6000000000000000
episode: 1515	score: 9.0	memory length: 353713	epsilon: 0.4976462800108396	steps: 457	lr: 1.6000000000000003
episode: 1516	score: 5.0	memory length: 354006	epsilon: 0.49706614001083593	steps: 293	lr: 1.6000000000000000
episode: 1517	score: 5.0	memory length: 354302	epsilon: 0.496480600108322	steps: 296	lr: 1.6000000000000003
episode: 1518	score: 1.0	memory length: 354454	epsilon: 0.4961791000108303	steps: 152	lr: 1.6000000000000003
episode: 1519	score: 10.0	memory length: 354999	epsilon: 0.495100000108235	steps: 545	lr: 1.6000000000000000
episode: 1520	score: 10.0	memory length: 355491	epsilon: 0.49412584001081733	steps: 492	lr: 1.6000000000000000
episode: 1521	score: 6.0	memory length: 355868	epsilon: 0.4933793800108126	steps: 377	lr: 1.6000000000000003
episode: 1522	score: 11.0	memory length: 356402	epsilon: 0.4923220600108059	steps: 534	lr: 1.6000000000000000
episode: 1523	score: 6.0	memory length: 356776	epsilon: 0.49158154001080123	steps: 374	lr: 1.6000000000000000
episode: 1524	score: 6.0	memory length: 357134	epsilon: 0.49087270001079675	steps: 358	lr: 1.6000000000000000
episode: 1525	score: 11.0	memory length: 357669	epsilon: 0.48981340001079005	steps: 535	lr: 1.6000000000000000
episode: 1526	score: 7.0	memory length: 358039	epsilon: 0.4890808000107854	steps: 370	lr: 1.6000000000000003
episode: 1527	score: 6.0	memory length: 358379	epsilon: 0.48840760001078115	steps: 340	lr: 1.6000000000000000
episode: 1528	score: 9.0	memory length: 358874	epsilon: 0.48742750001077495	steps: 495	lr: 1.6000000000000000
episode: 1529	score: 6.0	memory length: 359193	epsilon: 0.48679588001077095	steps: 319	lr: 1.6000000000000000
episode: 1530	score: 5.0	memory length: 359504	epsilon: 0.48618010001076706	steps: 311	lr: 1.6000000000000000
episode: 1531	score: 11.0	memory length: 360039	epsilon: 0.48512080001076036	steps: 535	lr: 1.6000000000000000
episode: 1532	score: 8.0	memory length: 360475	epsilon: 0.4842575200107549	steps: 436	lr: 1.6000000000000003
episode: 1533	score: 6.0	memory length: 360851	epsilon: 0.4835130400107502	steps: 376	lr: 1.6000000000000003
episode: 1534	score: 8.0	memory length: 361295	epsilon: 0.4826339200107446	steps: 444	lr: 1.6000000000000003
episode: 1535	score: 11.0	memory length: 361772	epsilon: 0.48168946001073865	steps: 477	lr: 1.6000000000000000
episode: 1536	score: 2.0	memory length: 361955	epsilon: 0.48132712001073635	steps: 183	lr: 1.6000000000000000
episode: 1537	score: 5.0	memory length: 362258	epsilon: 0.48072718001073256	steps: 303	lr: 1.6000000000000000
episode: 1538	score: 4.0	memory length: 362556	epsilon: 0.4801371400107288	steps: 298	lr: 1.6000000000000003
episode: 1539	score: 15.0	memory length: 363177	epsilon: 0.47890756001072105	steps: 621	lr: 1.6000000000000000
episode: 1540	score: 8.0	memory length: 363610	epsilon: 0.4780502200107156	steps: 433	lr: 1.6000000000000003
episode: 1541	score: 12.0	memory length: 364170	epsilon: 0.4769414200107086	steps: 560	lr: 1.6000000000000000
episode: 1542	score: 8.0	memory length: 364597	epsilon: 0.47609596001070326	steps: 427	lr: 1.6000000000000000
episode: 1543	score: 3.0	memory length: 364827	epsilon: 0.4756405600107004	steps: 230	lr: 1.6000000000000003
episode: 1544	score: 4.0	memory length: 365086	epsilon: 0.47512774001069713	steps: 259	lr: 1.6000000000000000
episode: 1545	score: 5.0	memory length: 365378	epsilon: 0.4745495800106935	steps: 292	lr: 1.6000000000000003
episode: 1546	score: 8.0	memory length: 365834	epsilon: 0.47364670001068776	steps: 456	lr: 1.6000000000000000
episode: 1547	score: 7.0	memory length: 366176	epsilon: 0.4729695400106835	steps: 342	lr: 1.6000000000000003
episode: 1548	score: 11.0	memory length: 366705	epsilon: 0.47192212001067685	steps: 529	lr: 1.6000000000000000
episode: 1549	score: 3.0	memory length: 366919	epsilon: 0.47149840001067417	steps: 214	lr: 1.6000000000000000
episode: 1550	score: 5.0	memory length: 367262	epsilon: 0.47081926001066987	steps: 343	lr: 1.6000000000000000
episode: 1551	score: 9.0	memory length: 367752	epsilon: 0.46984906001066373	steps: 490	lr: 1.6000000000000000
episode: 1552	score: 9.0	memory length: 368258	epsilon: 0.4688471800106574	steps: 506	lr: 1.6000000000000003
episode: 1553	score: 6.0	memory length: 368651	epsilon: 0.46806904001065247	steps: 393	lr: 1.6000000000000000
episode: 1554	score: 10.0	memory length: 369162	epsilon: 0.46705726001064607	steps: 511	lr: 1.6000000000000000
episode: 1555	score: 8.0	memory length: 369601	epsilon: 0.46618804001064057	steps: 439	lr: 1.6000000000000000
episode: 1556	score: 11.0	memory length: 370146	epsilon: 0.46510894001063374	steps: 545	lr: 1.6000000000000000
episode: 1557	score: 10.0	memory length: 370656	epsilon: 0.46409914001062735	steps: 510	lr: 1.6000000000000000
episode: 1558	score: 10.0	memory length: 371159	epsilon: 0.46310320001062105	steps: 503	lr: 1.6000000000000000
episode: 1559	score: 6.0	memory length: 371522	epsilon: 0.4623844600106165	steps: 363	lr: 1.6000000000000003
episode: 1560	score: 13.0	memory length: 372067	epsilon: 0.4613053600106097	steps: 545	lr: 1.6000000000000000
episode: 1561	score: 9.0	memory length: 372557	epsilon: 0.46033516001060354	steps: 490	lr: 1.6000000000000000
episode: 1562	score: 4.0	memory length: 372797	epsilon: 0.45985996001060053	steps: 240	lr: 1.6000000000000000
episode: 1563	score: 10.0	memory length: 373314	epsilon: 0.45883630001059406	steps: 517	lr: 1.6000000000000000
episode: 1564	score: 7.0	memory length: 373717	epsilon: 0.458038360010589	steps: 403	lr: 1.6000000000000003e
episode: 1565	score: 6.0	memory length: 374077	epsilon: 0.4573255600105845	steps: 360	lr: 1.6000000000000000
episode: 1566	score: 7.0	memory length: 374470	epsilon: 0.4565474200105796	steps: 393	lr: 1.6000000000000003
episode: 1567	score: 10.0	memory length: 374967	epsilon: 0.45556336001057335	steps: 497	lr: 1.6000000000000000
episode: 1568	score: 9.0	memory length: 375408	epsilon: 0.4546901800105678	steps: 441	lr: 1.6000000000000003
episode: 1569	score: 4.0	memory length: 375650	epsilon: 0.4542110200105648	steps: 242	lr: 1.6000000000000003
episode: 1570	score: 3.0	memory length: 375901	epsilon: 0.45371404001056165	steps: 251	lr: 1.6000000000000000
episode: 1571	score: 15.0	memory length: 376474	epsilon: 0.45257950001055447	steps: 573	lr: 1.6000000000000000
episode: 1572	score: 5.0	memory length: 376799	epsilon: 0.4519360000105504	steps: 325	lr: 1.6000000000000003
episode: 1573	score: 9.0	memory length: 377276	epsilon: 0.4509915400105444	steps: 477	lr: 1.6000000000000003
episode: 1574	score: 4.0	memory length: 377540	epsilon: 0.4504688200105411	steps: 264	lr: 1.6000000000000003
episode: 1575	score: 9.0	memory length: 378006	epsilon: 0.4495461400105353	steps: 466	lr: 1.6000000000000003
episode: 1576	score: 5.0	memory length: 378351	epsilon: 0.44886304001053096	steps: 345	lr: 1.6000000000000000
episode: 1577	score: 7.0	memory length: 378753	epsilon: 0.4480670800105259	steps: 402	lr: 1.6000000000000003
episode: 1578	score: 6.0	memory length: 379073	epsilon: 0.4474334800105219	steps: 320	lr: 1.6000000000000003
episode: 1579	score: 10.0	memory length: 379551	epsilon: 0.4464870400105159	steps: 478	lr: 1.6000000000000000
episode: 1580	score: 7.0	memory length: 379920	epsilon: 0.4457564200105113	steps: 369	lr: 1.6000000000000003
episode: 1581	score: 4.0	memory length: 380220	epsilon: 0.44516242001050754	steps: 300	lr: 1.6000000000000000
episode: 1582	score: 9.0	memory length: 380703	epsilon: 0.4442060800105015	steps: 483	lr: 1.6000000000000003
episode: 1583	score: 9.0	memory length: 381158	epsilon: 0.4433051800104958	steps: 455	lr: 1.6000000000000003
episode: 1584	score: 12.0	memory length: 381679	epsilon: 0.44227360001048927	steps: 521	lr: 1.6000000000000000
episode: 1585	score: 5.0	memory length: 381974	epsilon: 0.44168950001048557	steps: 295	lr: 1.6000000000000000
episode: 1586	score: 11.0	memory length: 382500	epsilon: 0.440648020010479	steps: 526	lr: 1.6000000000000003
episode: 1587	score: 8.0	memory length: 382975	epsilon: 0.43970752001047303	steps: 475	lr: 1.6000000000000000
episode: 1588	score: 9.0	memory length: 383452	epsilon: 0.43876306001046705	steps: 477	lr: 1.6000000000000000
episode: 1589	score: 16.0	memory length: 384077	epsilon: 0.4375255600104592	steps: 625	lr: 1.6000000000000000
episode: 1590	score: 10.0	memory length: 384581	epsilon: 0.4365276400104529	steps: 504	lr: 1.6000000000000000
episode: 1591	score: 3.0	memory length: 384812	epsilon: 0.43607026001045	steps: 231	lr: 1.6000000000000003e-
episode: 1592	score: 6.0	memory length: 385174	epsilon: 0.4353535000104455	steps: 362	lr: 1.6000000000000003
episode: 1593	score: 6.0	memory length: 385512	epsilon: 0.43468426001044125	steps: 338	lr: 1.6000000000000000
episode: 1594	score: 7.0	memory length: 385952	epsilon: 0.43381306001043574	steps: 440	lr: 1.6000000000000000
episode: 1595	score: 8.0	memory length: 386246	epsilon: 0.43323094001043205	steps: 294	lr: 1.6000000000000000
episode: 1596	score: 5.0	memory length: 386538	epsilon: 0.4326527800104284	steps: 292	lr: 1.6000000000000003
episode: 1597	score: 8.0	memory length: 386982	epsilon: 0.43177366001042283	steps: 444	lr: 1.6000000000000000
episode: 1598	score: 10.0	memory length: 387495	epsilon: 0.4307579200104164	steps: 513	lr: 1.6000000000000000

episode:	score:	memory length:	epsilon:	steps:	lr:
episode: 1599	score: 14.0	memory length: 388059	epsilon: 0.42964120001040934	steps: 564	lr: 1.6000000000000000
episode: 1600	score: 7.0	memory length: 388439	epsilon: 0.4288888000104046	steps: 380	lr: 1.6000000000000003
episode: 1601	score: 11.0	memory length: 389015	epsilon: 0.42774832001039736	steps: 576	lr: 1.6000000000000000
episode: 1602	score: 7.0	memory length: 389390	epsilon: 0.42700582001039267	steps: 375	lr: 1.6000000000000000
episode: 1603	score: 12.0	memory length: 389984	epsilon: 0.4258297000103852	steps: 594	lr: 1.6000000000000000
episode: 1604	score: 8.0	memory length: 390404	epsilon: 0.42499810001037996	steps: 420	lr: 1.6000000000000000
episode: 1605	score: 6.0	memory length: 390759	epsilon: 0.4242952000103755	steps: 355	lr: 1.6000000000000003
episode: 1606	score: 9.0	memory length: 391218	epsilon: 0.42338638001036977	steps: 459	lr: 1.6000000000000000
episode: 1607	score: 14.0	memory length: 391759	epsilon: 0.422315200010363	steps: 541	lr: 1.6000000000000003
episode: 1608	score: 7.0	memory length: 392123	epsilon: 0.42159448001035843	steps: 364	lr: 1.6000000000000000
episode: 1609	score: 9.0	memory length: 392451	epsilon: 0.4209450400103543	steps: 328	lr: 1.6000000000000003
episode: 1610	score: 10.0	memory length: 392955	epsilon: 0.419947120010348	steps: 504	lr: 1.6000000000000003
episode: 1611	score: 10.0	memory length: 393430	epsilon: 0.41900662001034206	steps: 475	lr: 1.6000000000000000
episode: 1612	score: 8.0	memory length: 393837	epsilon: 0.41820976001033696	steps: 407	lr: 1.6000000000000000
episode: 1613	score: 21.0	memory length: 394425	epsilon: 0.4170365200103296	steps: 588	lr: 1.6000000000000000
episode: 1614	score: 6.0	memory length: 394766	epsilon: 0.4163613400103253	steps: 341	lr: 1.6000000000000003
episode: 1615	score: 4.0	memory length: 395010	epsilon: 0.41587822001032226	steps: 244	lr: 1.6000000000000000
episode: 1616	score: 5.0	memory length: 395319	epsilon: 0.4152664000103184	steps: 309	lr: 1.6000000000000003
episode: 1617	score: 7.0	memory length: 395724	epsilon: 0.4144645000103133	steps: 405	lr: 1.6000000000000003
episode: 1618	score: 7.0	memory length: 396094	epsilon: 0.4137319000103087	steps: 370	lr: 1.6000000000000003
episode: 1619	score: 11.0	memory length: 396613	epsilon: 0.4127042800103022	steps: 519	lr: 1.6000000000000000
episode: 1620	score: 7.0	memory length: 396981	epsilon: 0.4119756400102976	steps: 368	lr: 1.6000000000000003
episode: 1621	score: 5.0	memory length: 397306	epsilon: 0.4113321400102935	steps: 325	lr: 1.6000000000000003
episode: 1622	score: 10.0	memory length: 397860	epsilon: 0.41023522001028656	steps: 554	lr: 1.6000000000000000
episode: 1623	score: 4.0	memory length: 398120	epsilon: 0.4097204200102833	steps: 260	lr: 1.6000000000000003
episode: 1624	score: 11.0	memory length: 398693	epsilon: 0.4085858800102761	steps: 573	lr: 1.6000000000000000
episode: 1625	score: 5.0	memory length: 398984	epsilon: 0.4080097000102725	steps: 291	lr: 1.6000000000000003
episode: 1626	score: 8.0	memory length: 399411	epsilon: 0.40716424001026713	steps: 427	lr: 1.6000000000000000
episode: 1627	score: 9.0	memory length: 399906	epsilon: 0.40618414001026093	steps: 495	lr: 1.6000000000000000
episode: 1628	score: 8.0	memory length: 400360	epsilon: 0.40528522001025524	steps: 454	lr: 6.4000000000000001
episode: 1629	score: 15.0	memory length: 400856	epsilon: 0.40430314001024903	steps: 496	lr: 6.4000000000000000
episode: 1630	score: 6.0	memory length: 401181	epsilon: 0.40365964001024496	steps: 325	lr: 6.4000000000000001
episode: 1631	score: 8.0	memory length: 401559	epsilon: 0.4029112000102402	steps: 378	lr: 6.4000000000000001e-
episode: 1632	score: 8.0	memory length: 401992	epsilon: 0.4020538600102348	steps: 433	lr: 6.4000000000000001e-
episode: 1633	score: 8.0	memory length: 402440	epsilon: 0.4011668200102292	steps: 448	lr: 6.4000000000000001e-
episode: 1634	score: 13.0	memory length: 402965	epsilon: 0.4001273200102226	steps: 525	lr: 6.4000000000000001e-
episode: 1635	score: 7.0	memory length: 403340	epsilon: 0.3993848200102179	steps: 375	lr: 6.4000000000000001e-
episode: 1636	score: 14.0	memory length: 403864	epsilon: 0.39834730001021135	steps: 524	lr: 6.4000000000000000
episode: 1637	score: 8.0	memory length: 404293	epsilon: 0.397497880010206	steps: 429	lr: 6.4000000000000001e-
episode: 1638	score: 9.0	memory length: 404773	epsilon: 0.3965474800101996	steps: 480	lr: 6.4000000000000001e-
episode: 1639	score: 13.0	memory length: 405157	epsilon: 0.39578716001019515	steps: 384	lr: 6.4000000000000000
episode: 1640	score: 9.0	memory length: 405593	epsilon: 0.3949238800101897	steps: 436	lr: 6.4000000000000001e-
episode: 1641	score: 9.0	memory length: 406084	epsilon: 0.39395170001018354	steps: 491	lr: 6.4000000000000001e-
episode: 1642	score: 9.0	memory length: 406547	epsilon: 0.39303496001017774	steps: 463	lr: 6.4000000000000001e-
episode: 1643	score: 10.0	memory length: 407054	epsilon: 0.3920311000101714	steps: 507	lr: 6.4000000000000001e-
episode: 1644	score: 11.0	memory length: 407625	epsilon: 0.39090052001016423	steps: 571	lr: 6.4000000000000000
episode: 1645	score: 7.0	memory length: 408015	epsilon: 0.39012832001015935	steps: 390	lr: 6.4000000000000001e-
episode: 1646	score: 10.0	memory length: 408548	epsilon: 0.38907298001015267	steps: 533	lr: 6.4000000000000000
episode: 1647	score: 14.0	memory length: 409036	epsilon: 0.38817674001014656	steps: 488	lr: 6.4000000000000000
episode: 1648	score: 4.0	memory length: 409333	epsilon: 0.38751868001014284	steps: 297	lr: 6.4000000000000001e-
episode: 1649	score: 8.0	memory length: 409750	epsilon: 0.3866930200101376	steps: 417	lr: 6.4000000000000001e-
episode: 1650	score: 11.0	memory length: 410138	epsilon: 0.38592478001013275	steps: 388	lr: 6.4000000000000000
episode: 1651	score: 13.0	memory length: 410637	epsilon: 0.3849367600101265	steps: 499	lr: 6.4000000000000001e-
episode: 1652	score: 5.0	memory length: 410963	epsilon: 0.3842912800101224	steps: 326	lr: 6.4000000000000001e-
episode: 1653	score: 11.0	memory length: 411505	epsilon: 0.3832181200101156	steps: 542	lr: 6.4000000000000001e-
episode: 1654	score: 9.0	memory length: 412011	epsilon: 0.3822162400101093	steps: 506	lr: 6.4000000000000001e-
episode: 1655	score: 12.0	memory length: 412570	epsilon: 0.3811094200101023	steps: 559	lr: 6.4000000000000001e-
episode: 1656	score: 8.0	memory length: 412997	epsilon: 0.38026396001009694	steps: 427	lr: 6.4000000000000001e-
episode: 1657	score: 11.0	memory length: 413597	epsilon: 0.3790759600100894	steps: 600	lr: 6.4000000000000001e-
episode: 1658	score: 5.0	memory length: 413906	epsilon: 0.37846414001008555	steps: 309	lr: 6.4000000000000001e-
episode: 1659	score: 11.0	memory length: 414399	epsilon: 0.37748800001007937	steps: 493	lr: 6.4000000000000000
episode: 1660	score: 5.0	memory length: 414707	epsilon: 0.3768781600100755	steps: 308	lr: 6.4000000000000001e-
episode: 1661	score: 7.0	memory length: 415064	epsilon: 0.37617130001007104	steps: 357	lr: 6.4000000000000001e-
episode: 1662	score: 8.0	memory length: 415474	epsilon: 0.3753595000100659	steps: 410	lr: 6.4000000000000001e-
episode: 1663	score: 4.0	memory length: 415717	epsilon: 0.37487836001006286	steps: 243	lr: 6.4000000000000001e-
episode: 1664	score: 12.0	memory length: 416247	epsilon: 0.3738289600100562	steps: 530	lr: 6.4000000000000001e-
episode: 1665	score: 11.0	memory length: 416790	epsilon: 0.3727538200100494	steps: 543	lr: 6.4000000000000001e-
episode: 1666	score: 5.0	memory length: 417102	epsilon: 0.3721360600100455	steps: 312	lr: 6.4000000000000001e-
episode: 1667	score: 7.0	memory length: 417455	epsilon: 0.3714371200100411	steps: 353	lr: 6.4000000000000001e-
episode: 1668	score: 6.0	memory length: 417757	epsilon: 0.3708391600100373	steps: 302	lr: 6.4000000000000001e-
episode: 1669	score: 8.0	memory length: 418176	epsilon: 0.37000954001003206	steps: 419	lr: 6.4000000000000001e-
episode: 1670	score: 10.0	memory length: 418691	epsilon: 0.3689989400100256	steps: 515	lr: 6.4000000000000001e-
episode: 1671	score: 5.0	memory length: 419000	epsilon: 0.36837802001002173	steps: 309	lr: 6.4000000000000001e-
episode: 1672	score: 8.0	memory length: 419435	epsilon: 0.3675167200100163	steps: 435	lr: 6.4000000000000001e-
episode: 1673	score: 15.0	memory length: 420074	epsilon: 0.3662515000100083	steps: 639	lr: 6.4000000000000001e-
episode: 1674	score: 8.0	memory length: 420504	epsilon: 0.3654001000100029	steps: 430	lr: 6.4000000000000001e-
episode: 1675	score: 15.0	memory length: 421079	epsilon: 0.3642616000099957	steps: 575	lr: 6.4000000000000001e-
episode: 1676	score: 11.0	memory length: 421650	epsilon: 0.36313102000998854	steps: 571	lr: 6.4000000000000000
episode: 1677	score: 4.0	memory length: 421890	epsilon: 0.36265582000998553	steps: 240	lr: 6.4000000000000001e-
episode: 1678	score: 8.0	memory length: 422283	epsilon: 0.3618776800099806	steps: 393	lr: 6.4000000000000001e-
episode: 1679	score: 6.0	memory length: 422677	epsilon: 0.36109756000997567	steps: 394	lr: 6.4000000000000001e-
episode: 1680	score: 10.0	memory length: 423161	epsilon: 0.3601392400099696	steps: 484	lr: 6.4000000000000001e-
episode: 1681	score: 6.0	memory length: 423508	epsilon: 0.35945218000996526	steps: 347	lr: 6.4000000000000001e-
episode: 1682	score: 14.0	memory length: 424129	epsilon: 0.3582226000099575	steps: 621	lr: 6.4000000000000001e-
episode: 1683	score: 10.0	memory length: 424554	epsilon: 0.3571831000099509	steps: 525	lr: 6.4000000000000001e-

episode:	score:	memory length:	epsilon:	steps:	lr:
episode: 1683	score: 10.0	memory length: 424054	epsilon: 0.35718031000099200	steps: 525	lr: 6.4000000000000001e-
episode: 1684	score: 6.0	memory length: 425012	epsilon: 0.35647426000099464	steps: 358	lr: 6.4000000000000001e-
episode: 1685	score: 4.0	memory length: 425295	epsilon: 0.35591392000099429	steps: 283	lr: 6.4000000000000001e-
episode: 1686	score: 11.0	memory length: 425803	epsilon: 0.35490808000099365	steps: 508	lr: 6.4000000000000001e-
episode: 1687	score: 15.0	memory length: 426478	epsilon: 0.353571580000992805	steps: 675	lr: 6.4000000000000000
episode: 1688	score: 10.0	memory length: 426948	epsilon: 0.352640980000992217	steps: 470	lr: 6.4000000000000000
episode: 1689	score: 9.0	memory length: 427369	epsilon: 0.35180740000099169	steps: 421	lr: 6.4000000000000001e-
episode: 1690	score: 5.0	memory length: 427673	epsilon: 0.35120548000099131	steps: 304	lr: 6.4000000000000001e-
episode: 1691	score: 9.0	memory length: 428141	epsilon: 0.35027884000099072	steps: 468	lr: 6.4000000000000001e-
episode: 1692	score: 11.0	memory length: 428581	epsilon: 0.34940764000099017	steps: 440	lr: 6.4000000000000001e-
episode: 1693	score: 17.0	memory length: 429084	epsilon: 0.34841170000098954	steps: 503	lr: 6.4000000000000001e-
episode: 1694	score: 6.0	memory length: 429387	epsilon: 0.34781176000098916	steps: 303	lr: 6.4000000000000001e-
episode: 1695	score: 7.0	memory length: 429776	epsilon: 0.347041540000988674	steps: 389	lr: 6.4000000000000001e-
episode: 1696	score: 10.0	memory length: 430297	epsilon: 0.34600996000098802	steps: 521	lr: 6.4000000000000001e-
episode: 1697	score: 6.0	memory length: 430658	epsilon: 0.34529518000098757	steps: 361	lr: 6.4000000000000001e-
episode: 1698	score: 7.0	memory length: 431054	epsilon: 0.344511100000987073	steps: 396	lr: 6.4000000000000001e-
episode: 1699	score: 12.0	memory length: 431580	epsilon: 0.343469620000986414	steps: 526	lr: 6.4000000000000000
episode: 1700	score: 11.0	memory length: 432009	epsilon: 0.342620200000985877	steps: 429	lr: 6.4000000000000000
episode: 1701	score: 6.0	memory length: 432388	epsilon: 0.3418697800009854	steps: 379	lr: 6.4000000000000001e-
episode: 1702	score: 7.0	memory length: 432761	epsilon: 0.341131240000984935	steps: 373	lr: 6.4000000000000001e-
episode: 1703	score: 14.0	memory length: 433381	epsilon: 0.33990364000098416	steps: 620	lr: 6.4000000000000001e-
episode: 1704	score: 13.0	memory length: 433966	epsilon: 0.338745340000983425	steps: 585	lr: 6.4000000000000000
episode: 1705	score: 4.0	memory length: 434228	epsilon: 0.338226580000983097	steps: 262	lr: 6.4000000000000001e-
episode: 1706	score: 9.0	memory length: 434686	epsilon: 0.33731974000098253	steps: 458	lr: 6.4000000000000001e-
episode: 1707	score: 10.0	memory length: 435235	epsilon: 0.336232720000981835	steps: 549	lr: 6.4000000000000000
episode: 1708	score: 6.0	memory length: 435588	epsilon: 0.335533780000981393	steps: 353	lr: 6.4000000000000001e-
episode: 1709	score: 12.0	memory length: 436145	epsilon: 0.334430920000980695	steps: 557	lr: 6.4000000000000000
episode: 1710	score: 11.0	memory length: 436587	epsilon: 0.33355760000098014	steps: 442	lr: 6.4000000000000001e-
episode: 1711	score: 10.0	memory length: 437044	epsilon: 0.33265090000097957	steps: 457	lr: 6.4000000000000001e-
episode: 1712	score: 11.0	memory length: 437575	epsilon: 0.331599520000978904	steps: 531	lr: 6.4000000000000000
episode: 1713	score: 18.0	memory length: 438172	epsilon: 0.330417460000978156	steps: 597	lr: 6.4000000000000000
episode: 1714	score: 10.0	memory length: 438546	epsilon: 0.32967694000097769	steps: 374	lr: 6.4000000000000001e-
episode: 1715	score: 10.0	memory length: 439026	epsilon: 0.328726540000977086	steps: 480	lr: 6.4000000000000000
episode: 1716	score: 10.0	memory length: 439561	epsilon: 0.327667240000976416	steps: 535	lr: 6.4000000000000000
episode: 1717	score: 21.0	memory length: 440163	epsilon: 0.32647528000097566	steps: 602	lr: 6.4000000000000001e-
episode: 1718	score: 13.0	memory length: 440699	epsilon: 0.32541400000097499	steps: 536	lr: 6.4000000000000001e-
episode: 1719	score: 7.0	memory length: 441089	epsilon: 0.3246418000009745	steps: 390	lr: 6.4000000000000001e-
episode: 1720	score: 9.0	memory length: 441579	epsilon: 0.32367160000097389	steps: 490	lr: 6.4000000000000001e-
episode: 1721	score: 7.0	memory length: 441942	epsilon: 0.322952860000973433	steps: 363	lr: 6.4000000000000001e-
episode: 1722	score: 8.0	memory length: 442374	epsilon: 0.32209750000097289	steps: 432	lr: 6.4000000000000001e-
episode: 1723	score: 6.0	memory length: 442712	epsilon: 0.32142826000097247	steps: 338	lr: 6.4000000000000001e-
episode: 1724	score: 18.0	memory length: 443314	epsilon: 0.320236300000971715	steps: 602	lr: 6.4000000000000000
episode: 1725	score: 16.0	memory length: 443934	epsilon: 0.31900870000097094	steps: 620	lr: 6.4000000000000001e-
episode: 1726	score: 11.0	memory length: 444508	epsilon: 0.31787218000097022	steps: 574	lr: 6.4000000000000001e-
episode: 1727	score: 9.0	memory length: 444977	epsilon: 0.31694356000096963	steps: 469	lr: 6.4000000000000001e-
episode: 1728	score: 14.0	memory length: 445501	epsilon: 0.315906040000968975	steps: 524	lr: 6.4000000000000000
episode: 1729	score: 15.0	memory length: 446138	epsilon: 0.314644780000968177	steps: 637	lr: 6.4000000000000000
episode: 1730	score: 7.0	memory length: 446519	epsilon: 0.3138904000009677	steps: 381	lr: 6.4000000000000001e-
episode: 1731	score: 10.0	memory length: 447033	epsilon: 0.312872680000967056	steps: 514	lr: 6.4000000000000000
episode: 1732	score: 14.0	memory length: 447545	epsilon: 0.311858920000966414	steps: 512	lr: 6.4000000000000000
episode: 1733	score: 15.0	memory length: 448046	epsilon: 0.310866940000965787	steps: 501	lr: 6.4000000000000000
episode: 1734	score: 10.0	memory length: 448512	epsilon: 0.309944260000965203	steps: 466	lr: 6.4000000000000000
episode: 1735	score: 8.0	memory length: 449004	epsilon: 0.308970100000964586	steps: 492	lr: 6.4000000000000001e-
episode: 1736	score: 11.0	memory length: 449525	epsilon: 0.307938520000963934	steps: 521	lr: 6.4000000000000000
episode: 1737	score: 9.0	memory length: 449994	epsilon: 0.307009900000963346	steps: 469	lr: 6.4000000000000001e-
episode: 1738	score: 12.0	memory length: 450586	epsilon: 0.305837740000962605	steps: 592	lr: 6.4000000000000000
episode: 1739	score: 10.0	memory length: 451076	epsilon: 0.30486754000096199	steps: 490	lr: 6.4000000000000001e-
episode: 1740	score: 9.0	memory length: 451524	epsilon: 0.30398050000096143	steps: 448	lr: 6.4000000000000001e-
episode: 1741	score: 8.0	memory length: 451915	epsilon: 0.30320632000096094	steps: 391	lr: 6.4000000000000001e-
episode: 1742	score: 13.0	memory length: 452530	epsilon: 0.30198862000096017	steps: 615	lr: 6.4000000000000001e-
episode: 1743	score: 15.0	memory length: 453226	epsilon: 0.3006105400009593	steps: 696	lr: 6.4000000000000000
episode: 1744	score: 10.0	memory length: 453734	epsilon: 0.29960470000095866	steps: 508	lr: 6.4000000000000001e-
episode: 1745	score: 9.0	memory length: 454159	epsilon: 0.29876320000095813	steps: 425	lr: 6.4000000000000001e-
episode: 1746	score: 7.0	memory length: 454507	epsilon: 0.29807416000095769	steps: 348	lr: 6.4000000000000001e-
episode: 1747	score: 12.0	memory length: 455104	epsilon: 0.296892100000956945	steps: 597	lr: 6.4000000000000000
episode: 1748	score: 10.0	memory length: 455637	epsilon: 0.295836760000956277	steps: 533	lr: 6.4000000000000000
episode: 1749	score: 8.0	memory length: 456027	epsilon: 0.29506456000095579	steps: 390	lr: 6.4000000000000001e-
episode: 1750	score: 12.0	memory length: 456608	epsilon: 0.29391418000095506	steps: 581	lr: 6.4000000000000001e-
episode: 1751	score: 9.0	memory length: 457085	epsilon: 0.292969720000954463	steps: 477	lr: 6.4000000000000001e-
episode: 1752	score: 10.0	memory length: 457607	epsilon: 0.29193616000095381	steps: 522	lr: 6.4000000000000001e-
episode: 1753	score: 14.0	memory length: 458222	epsilon: 0.29071846000095304	steps: 615	lr: 6.4000000000000001e-
episode: 1754	score: 9.0	memory length: 458695	epsilon: 0.289781920000952446	steps: 473	lr: 6.4000000000000001e-
episode: 1755	score: 7.0	memory length: 459096	epsilon: 0.288987940000951944	steps: 401	lr: 6.4000000000000001e-
episode: 1756	score: 9.0	memory length: 459552	epsilon: 0.28808506000095137	steps: 456	lr: 6.4000000000000001e-
episode: 1757	score: 12.0	memory length: 460070	epsilon: 0.287059420000950724	steps: 518	lr: 6.4000000000000000
episode: 1758	score: 17.0	memory length: 460833	epsilon: 0.28554868000094977	steps: 763	lr: 6.4000000000000001e-
episode: 1759	score: 11.0	memory length: 461339	epsilon: 0.284546800000949134	steps: 506	lr: 6.4000000000000000
episode: 1760	score: 12.0	memory length: 461917	epsilon: 0.28340236000094841	steps: 578	lr: 6.4000000000000001e-
episode: 1761	score: 10.0	memory length: 462407	epsilon: 0.282432160000947796	steps: 490	lr: 6.4000000000000000
episode: 1762	score: 18.0	memory length: 463042	epsilon: 0.281174860000947	steps: 635	lr: 6.4000000000000001e-
episode: 1763	score: 11.0	memory length: 463560	epsilon: 0.28014922000094635	steps: 518	lr: 6.4000000000000001e-
episode: 1764	score: 21.0	memory length: 464147	epsilon: 0.278986960000945616	steps: 587	lr: 6.4000000000000000
episode: 1765	score: 10.0	memory length: 464669	epsilon: 0.27795340000094496	steps: 522	lr: 6.4000000000000001e-
episode: 1766	score: 16.0	memory length: 465186	epsilon: 0.276929740000944315	steps: 517	lr: 6.4000000000000000
episode: 1767	score: 15.0	memory length: 465838	epsilon: 0.2756387800009435	steps: 652	lr: 6.4000000000000001e-

episode: 1768	score: 14.0	memory length: 466338	epsilon: 0.2746487800094287	steps: 500	lr: 6.400000000000001
episode: 1769	score: 11.0	memory length: 466842	epsilon: 0.2736508600094224	steps: 504	lr: 6.400000000000001
episode: 1770	score: 8.0	memory length: 467258	epsilon: 0.2728271800094172	steps: 416	lr: 6.400000000000001
episode: 1771	score: 7.0	memory length: 467638	epsilon: 0.27207478000941243	steps: 380	lr: 6.400000000000001
episode: 1772	score: 12.0	memory length: 468079	epsilon: 0.2712016000094069	steps: 441	lr: 6.400000000000001
episode: 1773	score: 16.0	memory length: 468783	epsilon: 0.2698076800093981	steps: 704	lr: 6.400000000000001
episode: 1774	score: 8.0	memory length: 469204	epsilon: 0.2689741000093928	steps: 421	lr: 6.400000000000001
episode: 1775	score: 10.0	memory length: 469704	epsilon: 0.26798410000938655	steps: 500	lr: 6.400000000000000
episode: 1776	score: 13.0	memory length: 470305	epsilon: 0.266794120009379	steps: 601	lr: 6.400000000000001
episode: 1777	score: 10.0	memory length: 470812	epsilon: 0.26579026000937267	steps: 507	lr: 6.400000000000000
episode: 1778	score: 12.0	memory length: 471418	epsilon: 0.2645903800093651	steps: 606	lr: 6.400000000000001
episode: 1779	score: 14.0	memory length: 472051	epsilon: 0.26333704000935715	steps: 633	lr: 6.400000000000000
episode: 1780	score: 13.0	memory length: 472652	epsilon: 0.2621470600093496	steps: 601	lr: 6.400000000000001
episode: 1781	score: 8.0	memory length: 473076	epsilon: 0.2613075400093443	steps: 424	lr: 6.400000000000001
episode: 1782	score: 11.0	memory length: 473648	epsilon: 0.26017498000933714	steps: 572	lr: 6.400000000000000
episode: 1783	score: 14.0	memory length: 474231	epsilon: 0.25902064000932984	steps: 583	lr: 6.400000000000000
episode: 1784	score: 6.0	memory length: 474569	epsilon: 0.2583514000093256	steps: 338	lr: 6.400000000000001
episode: 1785	score: 25.0	memory length: 475264	epsilon: 0.2569753000093169	steps: 695	lr: 6.400000000000001
episode: 1786	score: 9.0	memory length: 475738	epsilon: 0.25603678000931096	steps: 474	lr: 6.400000000000001
episode: 1787	score: 14.0	memory length: 476253	epsilon: 0.2550170800093045	steps: 515	lr: 6.400000000000001
episode: 1788	score: 5.0	memory length: 476542	epsilon: 0.2544448600093009	steps: 289	lr: 6.400000000000001
episode: 1789	score: 19.0	memory length: 477195	epsilon: 0.2531519200092927	steps: 653	lr: 6.400000000000001
episode: 1790	score: 14.0	memory length: 477798	epsilon: 0.25195798000928515	steps: 603	lr: 6.400000000000000
episode: 1791	score: 7.0	memory length: 478202	epsilon: 0.2511580600092801	steps: 404	lr: 6.400000000000001
episode: 1792	score: 4.0	memory length: 478483	epsilon: 0.2506016800092766	steps: 281	lr: 6.400000000000001
episode: 1793	score: 10.0	memory length: 478983	epsilon: 0.2496116800092703	steps: 500	lr: 6.400000000000001
episode: 1794	score: 14.0	memory length: 479616	epsilon: 0.24835834000926238	steps: 633	lr: 6.400000000000000
episode: 1795	score: 7.0	memory length: 479985	epsilon: 0.24762772000925776	steps: 369	lr: 6.400000000000001
episode: 1796	score: 12.0	memory length: 480463	epsilon: 0.24668128000925177	steps: 478	lr: 6.400000000000000
episode: 1797	score: 10.0	memory length: 480988	epsilon: 0.2456417800092452	steps: 525	lr: 6.400000000000001
episode: 1798	score: 5.0	memory length: 481314	epsilon: 0.2449963000092411	steps: 326	lr: 6.400000000000001
episode: 1799	score: 11.0	memory length: 481770	epsilon: 0.2440934200092354	steps: 456	lr: 6.400000000000001
episode: 1800	score: 12.0	memory length: 482337	epsilon: 0.2429707600092283	steps: 567	lr: 6.400000000000001
episode: 1801	score: 11.0	memory length: 482894	epsilon: 0.24186799000922131	steps: 557	lr: 6.400000000000000
episode: 1802	score: 7.0	memory length: 483281	epsilon: 0.24110164000921647	steps: 387	lr: 6.400000000000001
episode: 1803	score: 12.0	memory length: 483828	epsilon: 0.24001858000920961	steps: 547	lr: 6.400000000000000
episode: 1804	score: 9.0	memory length: 484305	epsilon: 0.23907412000920364	steps: 477	lr: 6.400000000000001
episode: 1805	score: 8.0	memory length: 484728	epsilon: 0.23823658000919834	steps: 423	lr: 6.400000000000001
episode: 1806	score: 16.0	memory length: 485214	epsilon: 0.23727430000919225	steps: 486	lr: 6.400000000000000
episode: 1807	score: 3.0	memory length: 485447	epsilon: 0.23681296000918933	steps: 233	lr: 6.400000000000001
episode: 1808	score: 13.0	memory length: 486028	epsilon: 0.23566258000918205	steps: 581	lr: 6.400000000000000
episode: 1809	score: 15.0	memory length: 486603	epsilon: 0.23452408000917485	steps: 575	lr: 6.400000000000000
episode: 1810	score: 10.0	memory length: 487067	epsilon: 0.23360536000916904	steps: 464	lr: 6.400000000000000
episode: 1811	score: 10.0	memory length: 487548	epsilon: 0.232652980009163	steps: 481	lr: 6.400000000000001
episode: 1812	score: 14.0	memory length: 488218	epsilon: 0.23132638000915462	steps: 670	lr: 6.400000000000000
episode: 1813	score: 9.0	memory length: 488686	epsilon: 0.23039974000914876	steps: 468	lr: 6.400000000000001
episode: 1814	score: 11.0	memory length: 489235	epsilon: 0.22931272000914188	steps: 549	lr: 6.400000000000000
episode: 1815	score: 15.0	memory length: 489883	epsilon: 0.22802968000913376	steps: 648	lr: 6.400000000000000
episode: 1816	score: 9.0	memory length: 490338	epsilon: 0.22712878000912806	steps: 455	lr: 6.400000000000001
episode: 1817	score: 8.0	memory length: 490704	epsilon: 0.22640410000912348	steps: 366	lr: 6.400000000000001
episode: 1818	score: 22.0	memory length: 491556	epsilon: 0.2247171400091128	steps: 852	lr: 6.400000000000001
episode: 1819	score: 5.0	memory length: 491879	epsilon: 0.22407760000910876	steps: 323	lr: 6.400000000000001
episode: 1820	score: 3.0	memory length: 492130	epsilon: 0.2235806200091056	steps: 251	lr: 6.400000000000001
episode: 1821	score: 11.0	memory length: 492659	epsilon: 0.22253320000909899	steps: 529	lr: 6.400000000000000
episode: 1822	score: 13.0	memory length: 493275	epsilon: 0.22131352000909127	steps: 616	lr: 6.400000000000000
episode: 1823	score: 10.0	memory length: 493821	epsilon: 0.22023244000908443	steps: 546	lr: 6.400000000000000
episode: 1824	score: 12.0	memory length: 494386	epsilon: 0.21911374000907735	steps: 565	lr: 6.400000000000000
episode: 1825	score: 15.0	memory length: 494986	epsilon: 0.21792574000906983	steps: 600	lr: 6.400000000000000
episode: 1826	score: 6.0	memory length: 495350	epsilon: 0.21720502000906527	steps: 364	lr: 6.400000000000001
episode: 1827	score: 15.0	memory length: 496022	epsilon: 0.21587446000905686	steps: 672	lr: 6.400000000000000
episode: 1828	score: 14.0	memory length: 496544	epsilon: 0.21484090000905032	steps: 522	lr: 6.400000000000000
episode: 1829	score: 12.0	memory length: 497141	epsilon: 0.21365884000904284	steps: 597	lr: 6.400000000000000
episode: 1830	score: 20.0	memory length: 497890	epsilon: 0.21217582000903346	steps: 749	lr: 6.400000000000000
episode: 1831	score: 10.0	memory length: 498376	epsilon: 0.21121354000902737	steps: 486	lr: 6.400000000000000
episode: 1832	score: 12.0	memory length: 498969	epsilon: 0.21003940000901994	steps: 593	lr: 6.400000000000000
episode: 1833	score: 16.0	memory length: 499596	epsilon: 0.20879794000901208	steps: 627	lr: 6.400000000000000
episode: 1834	score: 10.0	memory length: 500065	epsilon: 0.2078693200090062	steps: 469	lr: 2.560000000000001
episode: 1835	score: 13.0	memory length: 500652	epsilon: 0.20670706000899886	steps: 587	lr: 2.560000000000000
episode: 1836	score: 18.0	memory length: 501223	epsilon: 0.2055764800089917	steps: 571	lr: 2.560000000000001
episode: 1837	score: 14.0	memory length: 501832	epsilon: 0.20437066000898407	steps: 609	lr: 2.560000000000000
episode: 1838	score: 10.0	memory length: 502326	epsilon: 0.20339254000897788	steps: 494	lr: 2.560000000000000
episode: 1839	score: 11.0	memory length: 502895	epsilon: 0.20226592000897076	steps: 569	lr: 2.560000000000000
episode: 1840	score: 12.0	memory length: 503472	epsilon: 0.20112346000896353	steps: 577	lr: 2.560000000000000
episode: 1841	score: 15.0	memory length: 504116	epsilon: 0.19984834000895546	steps: 644	lr: 2.560000000000000
episode: 1842	score: 10.0	memory length: 504599	epsilon: 0.19889200089494	steps: 483	lr: 2.560000000000001
episode: 1843	score: 13.0	memory length: 505207	epsilon: 0.1976881600089418	steps: 608	lr: 2.560000000000001
episode: 1844	score: 9.0	memory length: 505678	epsilon: 0.1967555800089359	steps: 471	lr: 2.560000000000001
episode: 1845	score: 16.0	memory length: 506249	epsilon: 0.19562500000892874	steps: 571	lr: 2.560000000000000
episode: 1846	score: 8.0	memory length: 506703	epsilon: 0.19472608000892305	steps: 454	lr: 2.560000000000001
episode: 1847	score: 10.0	memory length: 507198	epsilon: 0.19374598000891685	steps: 495	lr: 2.560000000000000
episode: 1848	score: 12.0	memory length: 507838	epsilon: 0.19247878000890883	steps: 640	lr: 2.560000000000000
episode: 1849	score: 15.0	memory length: 508411	epsilon: 0.19134424000890166	steps: 573	lr: 2.560000000000000
episode: 1850	score: 13.0	memory length: 508931	epsilon: 0.19031464000889514	steps: 520	lr: 2.560000000000000
episode: 1851	score: 6.0	memory length: 509254	epsilon: 0.1896751000088911	steps: 323	lr: 2.560000000000001
episode: 1852	score: 16.0	memory length: 509832	epsilon: 0.18853066000888385	steps: 578	lr: 2.560000000000000

episode: 1853	score: 14.0	memory length: 510470	epsilon: 0.18726742000887586	steps: 638	lr: 2.5600000000000000
episode: 1854	score: 15.0	memory length: 511109	epsilon: 0.18600220000886786	steps: 639	lr: 2.5600000000000000
episode: 1855	score: 11.0	memory length: 511664	epsilon: 0.1849033000088609	steps: 555	lr: 2.5600000000000001
episode: 1856	score: 16.0	memory length: 512300	epsilon: 0.18364402000885294	steps: 636	lr: 2.5600000000000000
episode: 1857	score: 12.0	memory length: 512765	epsilon: 0.1827233200088471	steps: 465	lr: 2.5600000000000001
episode: 1858	score: 11.0	memory length: 513319	epsilon: 0.18162640000884017	steps: 554	lr: 2.5600000000000000
episode: 1859	score: 12.0	memory length: 513763	epsilon: 0.1807472800088346	steps: 444	lr: 2.5600000000000001
episode: 1860	score: 11.0	memory length: 514273	epsilon: 0.17973748000882822	steps: 510	lr: 2.5600000000000000
episode: 1861	score: 17.0	memory length: 514874	epsilon: 0.1785475500088207	steps: 601	lr: 2.5600000000000001
episode: 1862	score: 10.0	memory length: 515364	epsilon: 0.17757730000881455	steps: 490	lr: 2.5600000000000000
episode: 1863	score: 7.0	memory length: 515733	epsilon: 0.17684668000880993	steps: 369	lr: 2.5600000000000001
episode: 1864	score: 8.0	memory length: 516151	epsilon: 0.1760190400088047	steps: 418	lr: 2.5600000000000001e
episode: 1865	score: 12.0	memory length: 516622	epsilon: 0.1750864600087988	steps: 471	lr: 2.5600000000000001
episode: 1866	score: 13.0	memory length: 517136	epsilon: 0.17406874000879236	steps: 514	lr: 2.5600000000000000
episode: 1867	score: 11.0	memory length: 517564	epsilon: 0.173221300008787	steps: 428	lr: 2.5600000000000001e
episode: 1868	score: 12.0	memory length: 518092	epsilon: 0.17217586000878038	steps: 528	lr: 2.5600000000000000
episode: 1869	score: 19.0	memory length: 518912	epsilon: 0.1705522600087701	steps: 820	lr: 2.5600000000000001
episode: 1870	score: 12.0	memory length: 519469	epsilon: 0.16944940000876313	steps: 557	lr: 2.5600000000000000
episode: 1871	score: 21.0	memory length: 520118	epsilon: 0.168164380008755	steps: 649	lr: 2.5600000000000001e
episode: 1872	score: 11.0	memory length: 520673	epsilon: 0.16706548000874805	steps: 555	lr: 2.5600000000000000
episode: 1873	score: 17.0	memory length: 521293	epsilon: 0.16583788000874028	steps: 620	lr: 2.5600000000000000
episode: 1874	score: 11.0	memory length: 521812	epsilon: 0.16481026000873378	steps: 519	lr: 2.5600000000000000
episode: 1875	score: 10.0	memory length: 522282	epsilon: 0.1638796600087279	steps: 470	lr: 2.5600000000000001
episode: 1876	score: 17.0	memory length: 523011	epsilon: 0.16243624000871876	steps: 729	lr: 2.5600000000000000
episode: 1877	score: 13.0	memory length: 523623	epsilon: 0.1612244800087111	steps: 612	lr: 2.5600000000000001
episode: 1878	score: 8.0	memory length: 523999	epsilon: 0.16048000000870638	steps: 376	lr: 2.5600000000000001
episode: 1879	score: 11.0	memory length: 524469	epsilon: 0.1595494000087005	steps: 470	lr: 2.5600000000000001
episode: 1880	score: 8.0	memory length: 524888	epsilon: 0.15871978000869524	steps: 419	lr: 2.5600000000000001
episode: 1881	score: 7.0	memory length: 525311	epsilon: 0.15788224000868994	steps: 423	lr: 2.5600000000000001
episode: 1882	score: 9.0	memory length: 525776	epsilon: 0.15696154000868412	steps: 465	lr: 2.5600000000000001
episode: 1883	score: 7.0	memory length: 526200	epsilon: 0.1561220200086788	steps: 424	lr: 2.5600000000000001e
episode: 1884	score: 11.0	memory length: 526679	epsilon: 0.1551736000086728	steps: 479	lr: 2.5600000000000001
episode: 1885	score: 17.0	memory length: 527265	epsilon: 0.15401332000866547	steps: 586	lr: 2.5600000000000000
episode: 1886	score: 8.0	memory length: 527671	epsilon: 0.15320944000866038	steps: 406	lr: 2.5600000000000001
episode: 1887	score: 10.0	memory length: 528179	epsilon: 0.15220360000865402	steps: 508	lr: 2.5600000000000000
episode: 1888	score: 24.0	memory length: 528918	epsilon: 0.15074038000864476	steps: 739	lr: 2.5600000000000000
episode: 1889	score: 12.0	memory length: 529444	epsilon: 0.14969890000863817	steps: 526	lr: 2.5600000000000000
episode: 1890	score: 14.0	memory length: 529974	epsilon: 0.14864955000863153	steps: 530	lr: 2.5600000000000000
episode: 1891	score: 9.0	memory length: 530447	epsilon: 0.1477129600086256	steps: 473	lr: 2.5600000000000001e
episode: 1892	score: 8.0	memory length: 530855	epsilon: 0.1469051200086205	steps: 408	lr: 2.5600000000000001e
episode: 1893	score: 8.0	memory length: 531288	epsilon: 0.14604778000861507	steps: 433	lr: 2.5600000000000001
episode: 1894	score: 14.0	memory length: 531918	epsilon: 0.14480038000860718	steps: 630	lr: 2.5600000000000000
episode: 1895	score: 11.0	memory length: 532532	epsilon: 0.14358466000859949	steps: 614	lr: 2.5600000000000000
episode: 1896	score: 14.0	memory length: 533167	epsilon: 0.14232736000859153	steps: 635	lr: 2.5600000000000000
episode: 1897	score: 15.0	memory length: 533841	epsilon: 0.1409928400085831	steps: 674	lr: 2.5600000000000001
episode: 1898	score: 13.0	memory length: 534474	epsilon: 0.13973950000857516	steps: 633	lr: 2.5600000000000000
episode: 1899	score: 10.0	memory length: 534970	epsilon: 0.13875742000856894	steps: 496	lr: 2.5600000000000000
episode: 1900	score: 12.0	memory length: 535577	epsilon: 0.13755556000856134	steps: 607	lr: 2.5600000000000000
episode: 1901	score: 5.0	memory length: 535923	epsilon: 0.136870480008557	steps: 346	lr: 2.5600000000000001e
episode: 1902	score: 12.0	memory length: 536473	epsilon: 0.13578148000855012	steps: 550	lr: 2.5600000000000000
episode: 1903	score: 7.0	memory length: 536895	epsilon: 0.13494592000854483	steps: 422	lr: 2.5600000000000001
episode: 1904	score: 10.0	memory length: 537401	epsilon: 0.1339440400085385	steps: 506	lr: 2.5600000000000001
episode: 1905	score: 11.0	memory length: 537979	epsilon: 0.13279960000853125	steps: 578	lr: 2.5600000000000000
episode: 1906	score: 12.0	memory length: 538520	epsilon: 0.13172842000852447	steps: 541	lr: 2.5600000000000000
episode: 1907	score: 17.0	memory length: 539292	epsilon: 0.1301998600085148	steps: 772	lr: 2.5600000000000001
episode: 1908	score: 9.0	memory length: 539732	epsilon: 0.1293286600085093	steps: 440	lr: 2.5600000000000001e
episode: 1909	score: 8.0	memory length: 540143	epsilon: 0.12851488000850414	steps: 411	lr: 2.5600000000000001
episode: 1910	score: 9.0	memory length: 540553	epsilon: 0.127703080008499	steps: 410	lr: 2.5600000000000001e
episode: 1911	score: 13.0	memory length: 541204	epsilon: 0.12641410000849085	steps: 651	lr: 2.5600000000000000
episode: 1912	score: 14.0	memory length: 541874	epsilon: 0.12508755000848246	steps: 670	lr: 2.5600000000000000
episode: 1913	score: 9.0	memory length: 542395	epsilon: 0.12405592000848255	steps: 521	lr: 2.5600000000000001
episode: 1914	score: 21.0	memory length: 543098	epsilon: 0.1226639800084835	steps: 703	lr: 2.5600000000000001
episode: 1915	score: 15.0	memory length: 543658	epsilon: 0.12155518000848425	steps: 560	lr: 2.5600000000000000
episode: 1916	score: 9.0	memory length: 544159	epsilon: 0.12056320000848493	steps: 501	lr: 2.5600000000000001
episode: 1917	score: 11.0	memory length: 544738	epsilon: 0.11941678000848571	steps: 579	lr: 2.5600000000000000
episode: 1918	score: 10.0	memory length: 545203	epsilon: 0.11849608000848634	steps: 465	lr: 2.5600000000000000
episode: 1919	score: 18.0	memory length: 545995	epsilon: 0.11692792000848741	steps: 792	lr: 2.5600000000000000
episode: 1920	score: 23.0	memory length: 546809	epsilon: 0.11531620000848851	steps: 814	lr: 2.5600000000000000
episode: 1921	score: 10.0	memory length: 547282	epsilon: 0.11437966000848915	steps: 473	lr: 2.5600000000000000
episode: 1922	score: 9.0	memory length: 547787	epsilon: 0.11337976000848983	steps: 505	lr: 2.5600000000000001
episode: 1923	score: 14.0	memory length: 548373	epsilon: 0.11221948000849062	steps: 586	lr: 2.5600000000000000
episode: 1924	score: 14.0	memory length: 548878	epsilon: 0.1112195800084913	steps: 505	lr: 2.5600000000000001
episode: 1925	score: 10.0	memory length: 549396	epsilon: 0.110193940008492	steps: 518	lr: 2.5600000000000001e
episode: 1926	score: 16.0	memory length: 550096	epsilon: 0.10880794000849295	steps: 700	lr: 2.5600000000000000
episode: 1927	score: 10.0	memory length: 550605	epsilon: 0.10780012000849364	steps: 509	lr: 2.5600000000000000
episode: 1928	score: 12.0	memory length: 551188	epsilon: 0.10664578000849442	steps: 583	lr: 2.5600000000000000
episode: 1929	score: 13.0	memory length: 551844	epsilon: 0.10534690000849531	steps: 656	lr: 2.5600000000000000
episode: 1930	score: 10.0	memory length: 552330	epsilon: 0.10438462000849597	steps: 486	lr: 2.5600000000000000
episode: 1931	score: 12.0	memory length: 552768	epsilon: 0.10351738000849656	steps: 438	lr: 2.5600000000000000
episode: 1932	score: 16.0	memory length: 553390	epsilon: 0.1022858200084974	steps: 622	lr: 2.5600000000000001
episode: 1933	score: 9.0	memory length: 553883	epsilon: 0.10130968000849806	steps: 493	lr: 2.5600000000000001
episode: 1934	score: 11.0	memory length: 554440	epsilon: 0.10020682000849881	steps: 557	lr: 2.5600000000000000
episode: 1935	score: 16.0	memory length: 555084	epsilon: 0.09893170000849968	steps: 644	lr: 2.5600000000000000
episode: 1936	score: 13.0	memory length: 555703	epsilon: 0.09770608000850052	steps: 619	lr: 2.5600000000000000
episode: 1937	score: 14.0	memory length: 556325	epsilon: 0.09647452000850136	steps: 622	lr: 2.5600000000000000

episode: 1938	score: 12.0	memory length: 556817	epsilon: 0.09550036000850202	steps: 492	lr: 2.5600000000000000
episode: 1939	score: 11.0	memory length: 557351	epsilon: 0.09444304000850275	steps: 534	lr: 2.5600000000000000
episode: 1940	score: 11.0	memory length: 557743	epsilon: 0.09366688000850328	steps: 392	lr: 2.5600000000000000
episode: 1941	score: 12.0	memory length: 558370	epsilon: 0.09242542000850412	steps: 627	lr: 2.5600000000000000
episode: 1942	score: 14.0	memory length: 558872	epsilon: 0.0914314600085048	steps: 502	lr: 2.5600000000000001
episode: 1943	score: 10.0	memory length: 559354	epsilon: 0.09047710000850545	steps: 482	lr: 2.5600000000000000
episode: 1944	score: 22.0	memory length: 560090	epsilon: 0.08901982000850645	steps: 736	lr: 2.5600000000000000
episode: 1945	score: 11.0	memory length: 560672	epsilon: 0.08786746000850723	steps: 582	lr: 2.5600000000000000
episode: 1946	score: 5.0	memory length: 561004	epsilon: 0.08721010000850768	steps: 332	lr: 2.5600000000000001
episode: 1947	score: 14.0	memory length: 561537	epsilon: 0.0861547600085084	steps: 533	lr: 2.5600000000000001
episode: 1948	score: 11.0	memory length: 562000	epsilon: 0.08523802000850902	steps: 463	lr: 2.5600000000000000
episode: 1949	score: 18.0	memory length: 562612	epsilon: 0.08402626000850985	steps: 612	lr: 2.5600000000000000
episode: 1950	score: 8.0	memory length: 563074	epsilon: 0.08311150000851047	steps: 462	lr: 2.5600000000000001
episode: 1951	score: 11.0	memory length: 563613	epsilon: 0.0820442800085112	steps: 539	lr: 2.5600000000000001
episode: 1952	score: 16.0	memory length: 564188	epsilon: 0.08090578000851198	steps: 575	lr: 2.5600000000000000
episode: 1953	score: 16.0	memory length: 564792	epsilon: 0.0797098600085128	steps: 604	lr: 2.5600000000000001
episode: 1954	score: 12.0	memory length: 565195	epsilon: 0.07891192000851334	steps: 403	lr: 2.5600000000000000
episode: 1955	score: 17.0	memory length: 565839	epsilon: 0.0776368000851421	steps: 644	lr: 2.5600000000000000
episode: 1956	score: 12.0	memory length: 566373	epsilon: 0.07657948000851493	steps: 534	lr: 2.5600000000000000
episode: 1957	score: 16.0	memory length: 566958	epsilon: 0.07542118000851572	steps: 585	lr: 2.5600000000000000
episode: 1958	score: 10.0	memory length: 567337	epsilon: 0.07467076000851623	steps: 379	lr: 2.5600000000000000
episode: 1959	score: 12.0	memory length: 567909	epsilon: 0.073538200008517	steps: 572	lr: 2.5600000000000001e
episode: 1960	score: 14.0	memory length: 568449	epsilon: 0.0724690000851773	steps: 540	lr: 2.5600000000000000
episode: 1961	score: 15.0	memory length: 569011	epsilon: 0.07135624000851849	steps: 562	lr: 2.5600000000000000
episode: 1962	score: 12.0	memory length: 569594	epsilon: 0.0702019000851928	steps: 583	lr: 2.5600000000000000
episode: 1963	score: 15.0	memory length: 570218	epsilon: 0.06896638000852012	steps: 624	lr: 2.5600000000000000
episode: 1964	score: 13.0	memory length: 570827	epsilon: 0.06776056000852095	steps: 609	lr: 2.5600000000000000
episode: 1965	score: 22.0	memory length: 571624	epsilon: 0.0661825000852202	steps: 797	lr: 2.5600000000000000
episode: 1966	score: 12.0	memory length: 572198	epsilon: 0.0650459800085228	steps: 574	lr: 2.5600000000000001
episode: 1967	score: 12.0	memory length: 572769	epsilon: 0.0639154000852357	steps: 571	lr: 2.5600000000000000
episode: 1968	score: 16.0	memory length: 573369	epsilon: 0.0627274000852438	steps: 600	lr: 2.5600000000000000
episode: 1969	score: 20.0	memory length: 573825	epsilon: 0.061824520008524994	steps: 456	lr: 2.5600000000000000
episode: 1970	score: 14.0	memory length: 574466	epsilon: 0.06055534000852586	steps: 641	lr: 2.5600000000000000
episode: 1971	score: 11.0	memory length: 575027	epsilon: 0.05944456000852662	steps: 561	lr: 2.5600000000000000
episode: 1972	score: 13.0	memory length: 575508	epsilon: 0.05849218000852727	steps: 481	lr: 2.5600000000000000
episode: 1973	score: 9.0	memory length: 575979	epsilon: 0.057559600085279	steps: 471	lr: 2.5600000000000001e
episode: 1974	score: 10.0	memory length: 576501	epsilon: 0.05652604000852861	steps: 522	lr: 2.5600000000000000
episode: 1975	score: 12.0	memory length: 577042	epsilon: 0.05545486000852934	steps: 541	lr: 2.5600000000000000
episode: 1976	score: 7.0	memory length: 577427	epsilon: 0.05469256000852986	steps: 385	lr: 2.5600000000000001
episode: 1977	score: 11.0	memory length: 577836	epsilon: 0.05388274000853041	steps: 409	lr: 2.5600000000000000
episode: 1978	score: 13.0	memory length: 578478	epsilon: 0.05261158000853128	steps: 642	lr: 2.5600000000000000
episode: 1979	score: 17.0	memory length: 579128	epsilon: 0.051324580008532156	steps: 650	lr: 2.5600000000000000
episode: 1980	score: 15.0	memory length: 579813	epsilon: 0.04996828000853308	steps: 685	lr: 2.5600000000000000
episode: 1981	score: 11.0	memory length: 580321	epsilon: 0.04896244000853377	steps: 508	lr: 2.5600000000000000
episode: 1982	score: 10.0	memory length: 580695	epsilon: 0.04822192000853427	steps: 374	lr: 2.5600000000000000
episode: 1983	score: 9.0	memory length: 581167	epsilon: 0.04728736000853491	steps: 472	lr: 2.5600000000000001
episode: 1984	score: 8.0	memory length: 581579	epsilon: 0.04647160008535466	steps: 412	lr: 2.5600000000000000
episode: 1985	score: 14.0	memory length: 582077	epsilon: 0.04548556000853614	steps: 498	lr: 2.5600000000000000
episode: 1986	score: 13.0	memory length: 582621	epsilon: 0.04440844000853687	steps: 544	lr: 2.5600000000000000
episode: 1987	score: 17.0	memory length: 583225	epsilon: 0.04321252000853769	steps: 604	lr: 2.5600000000000000
episode: 1988	score: 13.0	memory length: 583853	epsilon: 0.04196908000853854	steps: 628	lr: 2.5600000000000000
episode: 1989	score: 14.0	memory length: 584349	epsilon: 0.0409870000853921	steps: 496	lr: 2.5600000000000000
episode: 1990	score: 13.0	memory length: 584953	epsilon: 0.03979108000854002	steps: 604	lr: 2.5600000000000000
episode: 1991	score: 21.0	memory length: 585576	epsilon: 0.038557540008540864	steps: 623	lr: 2.5600000000000000
episode: 1992	score: 18.0	memory length: 586362	epsilon: 0.037001260008541925	steps: 786	lr: 2.5600000000000000
episode: 1993	score: 11.0	memory length: 586865	epsilon: 0.036005320008542605	steps: 503	lr: 2.5600000000000000
episode: 1994	score: 14.0	memory length: 587338	epsilon: 0.03506878000854324	steps: 473	lr: 2.5600000000000000
episode: 1995	score: 13.0	memory length: 587977	epsilon: 0.033803560008544106	steps: 639	lr: 2.5600000000000000
episode: 1996	score: 15.0	memory length: 588513	epsilon: 0.03274228000854483	steps: 536	lr: 2.5600000000000000
episode: 1997	score: 17.0	memory length: 588971	epsilon: 0.03183544000854545	steps: 458	lr: 2.5600000000000000
episode: 1998	score: 15.0	memory length: 589660	epsilon: 0.03047122000854638	steps: 689	lr: 2.5600000000000000
episode: 1999	score: 10.0	memory length: 590151	epsilon: 0.029499040008547042	steps: 491	lr: 2.5600000000000000
episode: 2000	score: 17.0	memory length: 590795	epsilon: 0.028223920008547912	steps: 644	lr: 2.5600000000000000
episode: 2001	score: 9.0	memory length: 591287	epsilon: 0.027249760008548576	steps: 492	lr: 2.5600000000000000
episode: 2002	score: 11.0	memory length: 591823	epsilon: 0.0261884800085493	steps: 536	lr: 2.5600000000000001
episode: 2003	score: 9.0	memory length: 592311	epsilon: 0.02522224000854996	steps: 488	lr: 2.5600000000000001
episode: 2004	score: 12.0	memory length: 592858	epsilon: 0.024139180008550698	steps: 547	lr: 2.5600000000000000
episode: 2005	score: 13.0	memory length: 593465	epsilon: 0.022937320008551518	steps: 607	lr: 2.5600000000000000
episode: 2006	score: 10.0	memory length: 594001	epsilon: 0.02187604000855224	steps: 536	lr: 2.5600000000000000
episode: 2007	score: 13.0	memory length: 594457	epsilon: 0.020973160008552857	steps: 456	lr: 2.5600000000000000
episode: 2008	score: 13.0	memory length: 595095	epsilon: 0.01970992000855372	steps: 638	lr: 2.5600000000000000
episode: 2009	score: 14.0	memory length: 595649	epsilon: 0.01861300008554467	steps: 554	lr: 2.5600000000000000
episode: 2010	score: 21.0	memory length: 596314	epsilon: 0.01729630008555365	steps: 665	lr: 2.5600000000000000
episode: 2011	score: 13.0	memory length: 596949	epsilon: 0.01603900008556223	steps: 635	lr: 2.5600000000000000
episode: 2012	score: 5.0	memory length: 597260	epsilon: 0.015423220008556466	steps: 311	lr: 2.5600000000000000
episode: 2013	score: 13.0	memory length: 597853	epsilon: 0.014249080008556238	steps: 593	lr: 2.5600000000000000
episode: 2014	score: 16.0	memory length: 598448	epsilon: 0.01307098000855601	steps: 595	lr: 2.5600000000000000
episode: 2015	score: 10.0	memory length: 598975	epsilon: 0.012027520008555807	steps: 527	lr: 2.5600000000000000
episode: 2016	score: 19.0	memory length: 599619	epsilon: 0.0107524000855556	steps: 644	lr: 2.5600000000000000
episode: 2017	score: 13.0	memory length: 600095	epsilon: 0.009998020008555413	steps: 476	lr: 1.0240000000000000
episode: 2018	score: 15.0	memory length: 600624	epsilon: 0.009998020008555413	steps: 529	lr: 1.0240000000000000
episode: 2019	score: 16.0	memory length: 601391	epsilon: 0.009998020008555413	steps: 767	lr: 1.0240000000000000
episode: 2020	score: 19.0	memory length: 602169	epsilon: 0.009998020008555413	steps: 778	lr: 1.0240000000000000
episode: 2021	score: 12.0	memory length: 602739	epsilon: 0.009998020008555413	steps: 570	lr: 1.0240000000000000
episode: 2022	score: 23.0	memory length: 603490	epsilon: 0.009998020008555413	steps: 751	lr: 1.0240000000000000

episode: 2023	score: 11.0	memory length: 604009	epsilon: 0.009998020008555413	steps: 519	lr: 1.02400000000000
episode: 2024	score: 22.0	memory length: 604769	epsilon: 0.009998020008555413	steps: 760	lr: 1.02400000000000
episode: 2025	score: 12.0	memory length: 605339	epsilon: 0.009998020008555413	steps: 570	lr: 1.02400000000000
episode: 2026	score: 17.0	memory length: 605963	epsilon: 0.009998020008555413	steps: 624	lr: 1.02400000000000
episode: 2027	score: 15.0	memory length: 606660	epsilon: 0.009998020008555413	steps: 697	lr: 1.02400000000000
episode: 2028	score: 9.0	memory length: 607153	epsilon: 0.009998020008555413	steps: 493	lr: 1.02400000000000
episode: 2029	score: 16.0	memory length: 607862	epsilon: 0.009998020008555413	steps: 709	lr: 1.02400000000000
episode: 2030	score: 11.0	memory length: 608351	epsilon: 0.009998020008555413	steps: 489	lr: 1.02400000000000
episode: 2031	score: 14.0	memory length: 608994	epsilon: 0.009998020008555413	steps: 643	lr: 1.02400000000000
episode: 2032	score: 20.0	memory length: 609734	epsilon: 0.009998020008555413	steps: 740	lr: 1.02400000000000
episode: 2033	score: 7.0	memory length: 610156	epsilon: 0.009998020008555413	steps: 422	lr: 1.02400000000000
episode: 2034	score: 12.0	memory length: 610708	epsilon: 0.009998020008555413	steps: 552	lr: 1.02400000000000
episode: 2035	score: 12.0	memory length: 611182	epsilon: 0.009998020008555413	steps: 474	lr: 1.02400000000000
episode: 2036	score: 13.0	memory length: 611734	epsilon: 0.009998020008555413	steps: 552	lr: 1.02400000000000
episode: 2037	score: 7.0	memory length: 612121	epsilon: 0.009998020008555413	steps: 387	lr: 1.02400000000000
episode: 2038	score: 14.0	memory length: 612731	epsilon: 0.009998020008555413	steps: 610	lr: 1.02400000000000
episode: 2039	score: 15.0	memory length: 613370	epsilon: 0.009998020008555413	steps: 639	lr: 1.02400000000000
episode: 2040	score: 10.0	memory length: 613863	epsilon: 0.009998020008555413	steps: 493	lr: 1.02400000000000
episode: 2041	score: 14.0	memory length: 614490	epsilon: 0.009998020008555413	steps: 627	lr: 1.02400000000000
episode: 2042	score: 19.0	memory length: 615070	epsilon: 0.009998020008555413	steps: 580	lr: 1.02400000000000
episode: 2043	score: 14.0	memory length: 615776	epsilon: 0.009998020008555413	steps: 706	lr: 1.02400000000000
episode: 2044	score: 9.0	memory length: 616249	epsilon: 0.009998020008555413	steps: 473	lr: 1.02400000000000
episode: 2045	score: 12.0	memory length: 616821	epsilon: 0.009998020008555413	steps: 572	lr: 1.02400000000000
episode: 2046	score: 11.0	memory length: 617361	epsilon: 0.009998020008555413	steps: 540	lr: 1.02400000000000
episode: 2047	score: 11.0	memory length: 617890	epsilon: 0.009998020008555413	steps: 529	lr: 1.02400000000000
episode: 2048	score: 11.0	memory length: 618423	epsilon: 0.009998020008555413	steps: 533	lr: 1.02400000000000
episode: 2049	score: 15.0	memory length: 619118	epsilon: 0.009998020008555413	steps: 695	lr: 1.02400000000000
episode: 2050	score: 13.0	memory length: 619646	epsilon: 0.009998020008555413	steps: 528	lr: 1.02400000000000
episode: 2051	score: 28.0	memory length: 620405	epsilon: 0.009998020008555413	steps: 759	lr: 1.02400000000000
episode: 2052	score: 18.0	memory length: 620914	epsilon: 0.009998020008555413	steps: 509	lr: 1.02400000000000
episode: 2053	score: 12.0	memory length: 621496	epsilon: 0.009998020008555413	steps: 582	lr: 1.02400000000000
episode: 2054	score: 14.0	memory length: 622147	epsilon: 0.009998020008555413	steps: 651	lr: 1.02400000000000
episode: 2055	score: 9.0	memory length: 622627	epsilon: 0.009998020008555413	steps: 480	lr: 1.02400000000000
episode: 2056	score: 14.0	memory length: 623183	epsilon: 0.009998020008555413	steps: 556	lr: 1.02400000000000
episode: 2057	score: 14.0	memory length: 623811	epsilon: 0.009998020008555413	steps: 628	lr: 1.02400000000000
episode: 2058	score: 21.0	memory length: 624525	epsilon: 0.009998020008555413	steps: 714	lr: 1.02400000000000
episode: 2059	score: 23.0	memory length: 625259	epsilon: 0.009998020008555413	steps: 734	lr: 1.02400000000000
episode: 2060	score: 18.0	memory length: 625852	epsilon: 0.009998020008555413	steps: 593	lr: 1.02400000000000
episode: 2061	score: 15.0	memory length: 626421	epsilon: 0.009998020008555413	steps: 569	lr: 1.02400000000000
episode: 2062	score: 14.0	memory length: 627091	epsilon: 0.009998020008555413	steps: 670	lr: 1.02400000000000
episode: 2063	score: 15.0	memory length: 627752	epsilon: 0.009998020008555413	steps: 661	lr: 1.02400000000000
episode: 2064	score: 12.0	memory length: 628322	epsilon: 0.009998020008555413	steps: 570	lr: 1.02400000000000
episode: 2065	score: 19.0	memory length: 628858	epsilon: 0.009998020008555413	steps: 536	lr: 1.02400000000000
episode: 2066	score: 9.0	memory length: 629331	epsilon: 0.009998020008555413	steps: 473	lr: 1.02400000000000
episode: 2067	score: 13.0	memory length: 629941	epsilon: 0.009998020008555413	steps: 610	lr: 1.02400000000000
episode: 2068	score: 16.0	memory length: 630512	epsilon: 0.009998020008555413	steps: 571	lr: 1.02400000000000
episode: 2069	score: 16.0	memory length: 631116	epsilon: 0.009998020008555413	steps: 604	lr: 1.02400000000000
episode: 2070	score: 10.0	memory length: 631637	epsilon: 0.009998020008555413	steps: 521	lr: 1.02400000000000
episode: 2071	score: 12.0	memory length: 632228	epsilon: 0.009998020008555413	steps: 591	lr: 1.02400000000000
episode: 2072	score: 13.0	memory length: 632915	epsilon: 0.009998020008555413	steps: 687	lr: 1.02400000000000
episode: 2073	score: 17.0	memory length: 633420	epsilon: 0.009998020008555413	steps: 505	lr: 1.02400000000000
episode: 2074	score: 10.0	memory length: 633967	epsilon: 0.009998020008555413	steps: 547	lr: 1.02400000000000
episode: 2075	score: 10.0	memory length: 634446	epsilon: 0.009998020008555413	steps: 479	lr: 1.02400000000000
episode: 2076	score: 14.0	memory length: 635115	epsilon: 0.009998020008555413	steps: 669	lr: 1.02400000000000
episode: 2077	score: 18.0	memory length: 635667	epsilon: 0.009998020008555413	steps: 552	lr: 1.02400000000000
episode: 2078	score: 7.0	memory length: 636027	epsilon: 0.009998020008555413	steps: 360	lr: 1.02400000000000
episode: 2079	score: 20.0	memory length: 636635	epsilon: 0.009998020008555413	steps: 608	lr: 1.02400000000000
episode: 2080	score: 11.0	memory length: 637208	epsilon: 0.009998020008555413	steps: 573	lr: 1.02400000000000
episode: 2081	score: 9.0	memory length: 637636	epsilon: 0.009998020008555413	steps: 428	lr: 1.02400000000000
episode: 2082	score: 19.0	memory length: 638319	epsilon: 0.009998020008555413	steps: 683	lr: 1.02400000000000
episode: 2083	score: 20.0	memory length: 638903	epsilon: 0.009998020008555413	steps: 584	lr: 1.02400000000000
episode: 2084	score: 18.0	memory length: 639603	epsilon: 0.009998020008555413	steps: 700	lr: 1.02400000000000
episode: 2085	score: 20.0	memory length: 640267	epsilon: 0.009998020008555413	steps: 664	lr: 1.02400000000000
episode: 2086	score: 23.0	memory length: 640990	epsilon: 0.009998020008555413	steps: 723	lr: 1.02400000000000
episode: 2087	score: 11.0	memory length: 641512	epsilon: 0.009998020008555413	steps: 522	lr: 1.02400000000000
episode: 2088	score: 10.0	memory length: 642065	epsilon: 0.009998020008555413	steps: 553	lr: 1.02400000000000
episode: 2089	score: 11.0	memory length: 642651	epsilon: 0.009998020008555413	steps: 586	lr: 1.02400000000000
episode: 2090	score: 11.0	memory length: 643170	epsilon: 0.009998020008555413	steps: 519	lr: 1.02400000000000
episode: 2091	score: 11.0	memory length: 643737	epsilon: 0.009998020008555413	steps: 567	lr: 1.02400000000000
episode: 2092	score: 24.0	memory length: 644453	epsilon: 0.009998020008555413	steps: 716	lr: 1.02400000000000
episode: 2093	score: 23.0	memory length: 645065	epsilon: 0.009998020008555413	steps: 612	lr: 1.02400000000000
episode: 2094	score: 16.0	memory length: 645710	epsilon: 0.009998020008555413	steps: 645	lr: 1.02400000000000
episode: 2095	score: 14.0	memory length: 646259	epsilon: 0.009998020008555413	steps: 549	lr: 1.02400000000000
episode: 2096	score: 13.0	memory length: 646883	epsilon: 0.009998020008555413	steps: 624	lr: 1.02400000000000
episode: 2097	score: 17.0	memory length: 647550	epsilon: 0.009998020008555413	steps: 667	lr: 1.02400000000000
episode: 2098	score: 9.0	memory length: 648052	epsilon: 0.009998020008555413	steps: 502	lr: 1.02400000000000
episode: 2099	score: 18.0	memory length: 648741	epsilon: 0.009998020008555413	steps: 689	lr: 1.02400000000000
episode: 2100	score: 9.0	memory length: 649170	epsilon: 0.009998020008555413	steps: 429	lr: 1.02400000000000
episode: 2101	score: 12.0	memory length: 649734	epsilon: 0.009998020008555413	steps: 564	lr: 1.02400000000000
episode: 2102	score: 19.0	memory length: 650503	epsilon: 0.009998020008555413	steps: 769	lr: 1.02400000000000
episode: 2103	score: 15.0	memory length: 651191	epsilon: 0.009998020008555413	steps: 688	lr: 1.02400000000000
episode: 2104	score: 24.0	memory length: 651990	epsilon: 0.009998020008555413	steps: 799	lr: 1.02400000000000
episode: 2105	score: 9.0	memory length: 652418	epsilon: 0.009998020008555413	steps: 428	lr: 1.02400000000000
episode: 2106	score: 13.0	memory length: 652975	epsilon: 0.009998020008555413	steps: 557	lr: 1.02400000000000
episode: 2107	score: 16.0	memory length: 653628	epsilon: 0.009998020008555413	steps: 652	lr: 1.02400000000000

episode: 2107	score: 10.0	memory length: 655020	epsilon: 0.009998020008555413	steps: 653	lr: 1.0240000000000000
episode: 2108	score: 22.0	memory length: 654292	epsilon: 0.009998020008555413	steps: 664	lr: 1.0240000000000000
episode: 2109	score: 13.0	memory length: 654948	epsilon: 0.009998020008555413	steps: 656	lr: 1.0240000000000000
episode: 2110	score: 10.0	memory length: 655431	epsilon: 0.009998020008555413	steps: 483	lr: 1.0240000000000000
episode: 2111	score: 15.0	memory length: 656091	epsilon: 0.009998020008555413	steps: 660	lr: 1.0240000000000000
episode: 2112	score: 21.0	memory length: 656747	epsilon: 0.009998020008555413	steps: 656	lr: 1.0240000000000000
episode: 2113	score: 18.0	memory length: 657431	epsilon: 0.009998020008555413	steps: 684	lr: 1.0240000000000000
episode: 2114	score: 16.0	memory length: 658077	epsilon: 0.009998020008555413	steps: 646	lr: 1.0240000000000000
episode: 2115	score: 14.0	memory length: 658699	epsilon: 0.009998020008555413	steps: 622	lr: 1.0240000000000000
episode: 2116	score: 12.0	memory length: 659281	epsilon: 0.009998020008555413	steps: 582	lr: 1.0240000000000000
episode: 2117	score: 15.0	memory length: 659969	epsilon: 0.009998020008555413	steps: 688	lr: 1.0240000000000000
episode: 2118	score: 17.0	memory length: 660518	epsilon: 0.009998020008555413	steps: 549	lr: 1.0240000000000000
episode: 2119	score: 14.0	memory length: 661117	epsilon: 0.009998020008555413	steps: 599	lr: 1.0240000000000000
episode: 2120	score: 15.0	memory length: 661812	epsilon: 0.009998020008555413	steps: 695	lr: 1.0240000000000000
episode: 2121	score: 13.0	memory length: 662450	epsilon: 0.009998020008555413	steps: 638	lr: 1.0240000000000000
episode: 2122	score: 15.0	memory length: 662863	epsilon: 0.009998020008555413	steps: 413	lr: 1.0240000000000000
episode: 2123	score: 11.0	memory length: 663438	epsilon: 0.009998020008555413	steps: 575	lr: 1.0240000000000000
episode: 2124	score: 19.0	memory length: 664104	epsilon: 0.009998020008555413	steps: 666	lr: 1.0240000000000000
episode: 2125	score: 18.0	memory length: 664744	epsilon: 0.009998020008555413	steps: 640	lr: 1.0240000000000000
episode: 2126	score: 19.0	memory length: 665316	epsilon: 0.009998020008555413	steps: 572	lr: 1.0240000000000000
episode: 2127	score: 12.0	memory length: 665915	epsilon: 0.009998020008555413	steps: 599	lr: 1.0240000000000000
episode: 2128	score: 10.0	memory length: 666415	epsilon: 0.009998020008555413	steps: 500	lr: 1.0240000000000000
episode: 2129	score: 13.0	memory length: 667016	epsilon: 0.009998020008555413	steps: 601	lr: 1.0240000000000000
episode: 2130	score: 15.0	memory length: 667662	epsilon: 0.009998020008555413	steps: 646	lr: 1.0240000000000000
episode: 2131	score: 14.0	memory length: 668242	epsilon: 0.009998020008555413	steps: 580	lr: 1.0240000000000000
episode: 2132	score: 22.0	memory length: 668873	epsilon: 0.009998020008555413	steps: 631	lr: 1.0240000000000000
episode: 2133	score: 12.0	memory length: 669345	epsilon: 0.009998020008555413	steps: 472	lr: 1.0240000000000000
episode: 2134	score: 9.0	memory length: 669686	epsilon: 0.009998020008555413	steps: 341	lr: 1.0240000000000000
episode: 2135	score: 11.0	memory length: 670238	epsilon: 0.009998020008555413	steps: 552	lr: 1.0240000000000000
episode: 2136	score: 21.0	memory length: 670929	epsilon: 0.009998020008555413	steps: 691	lr: 1.0240000000000000
episode: 2137	score: 17.0	memory length: 671519	epsilon: 0.009998020008555413	steps: 590	lr: 1.0240000000000000
episode: 2138	score: 10.0	memory length: 671995	epsilon: 0.009998020008555413	steps: 476	lr: 1.0240000000000000
episode: 2139	score: 15.0	memory length: 672437	epsilon: 0.009998020008555413	steps: 442	lr: 1.0240000000000000
episode: 2140	score: 20.0	memory length: 673128	epsilon: 0.009998020008555413	steps: 691	lr: 1.0240000000000000
episode: 2141	score: 16.0	memory length: 673844	epsilon: 0.009998020008555413	steps: 716	lr: 1.0240000000000000
episode: 2142	score: 20.0	memory length: 674582	epsilon: 0.009998020008555413	steps: 738	lr: 1.0240000000000000
episode: 2143	score: 16.0	memory length: 675260	epsilon: 0.009998020008555413	steps: 678	lr: 1.0240000000000000
episode: 2144	score: 15.0	memory length: 675903	epsilon: 0.009998020008555413	steps: 643	lr: 1.0240000000000000
episode: 2145	score: 15.0	memory length: 676553	epsilon: 0.009998020008555413	steps: 650	lr: 1.0240000000000000
episode: 2146	score: 21.0	memory length: 677236	epsilon: 0.009998020008555413	steps: 683	lr: 1.0240000000000000
episode: 2147	score: 19.0	memory length: 677959	epsilon: 0.009998020008555413	steps: 723	lr: 1.0240000000000000
episode: 2148	score: 23.0	memory length: 678799	epsilon: 0.009998020008555413	steps: 840	lr: 1.0240000000000000
episode: 2149	score: 8.0	memory length: 679201	epsilon: 0.009998020008555413	steps: 402	lr: 1.0240000000000000
episode: 2150	score: 18.0	memory length: 679857	epsilon: 0.009998020008555413	steps: 656	lr: 1.0240000000000000
episode: 2151	score: 21.0	memory length: 680563	epsilon: 0.009998020008555413	steps: 706	lr: 1.0240000000000000
episode: 2152	score: 11.0	memory length: 681135	epsilon: 0.009998020008555413	steps: 572	lr: 1.0240000000000000
episode: 2153	score: 17.0	memory length: 681925	epsilon: 0.009998020008555413	steps: 790	lr: 1.0240000000000000
episode: 2154	score: 13.0	memory length: 682477	epsilon: 0.009998020008555413	steps: 552	lr: 1.0240000000000000
episode: 2155	score: 14.0	memory length: 683033	epsilon: 0.009998020008555413	steps: 556	lr: 1.0240000000000000
episode: 2156	score: 24.0	memory length: 683758	epsilon: 0.009998020008555413	steps: 725	lr: 1.0240000000000000
episode: 2157	score: 22.0	memory length: 684474	epsilon: 0.009998020008555413	steps: 716	lr: 1.0240000000000000
episode: 2158	score: 12.0	memory length: 684968	epsilon: 0.009998020008555413	steps: 494	lr: 1.0240000000000000
episode: 2159	score: 14.0	memory length: 685584	epsilon: 0.009998020008555413	steps: 616	lr: 1.0240000000000000
episode: 2160	score: 15.0	memory length: 686018	epsilon: 0.009998020008555413	steps: 434	lr: 1.0240000000000000
episode: 2161	score: 13.0	memory length: 686624	epsilon: 0.009998020008555413	steps: 606	lr: 1.0240000000000000
episode: 2162	score: 19.0	memory length: 687367	epsilon: 0.009998020008555413	steps: 743	lr: 1.0240000000000000
episode: 2163	score: 15.0	memory length: 687994	epsilon: 0.009998020008555413	steps: 627	lr: 1.0240000000000000
episode: 2164	score: 15.0	memory length: 688697	epsilon: 0.009998020008555413	steps: 703	lr: 1.0240000000000000
episode: 2165	score: 13.0	memory length: 689210	epsilon: 0.009998020008555413	steps: 513	lr: 1.0240000000000000
episode: 2166	score: 21.0	memory length: 689935	epsilon: 0.009998020008555413	steps: 725	lr: 1.0240000000000000
episode: 2167	score: 19.0	memory length: 690672	epsilon: 0.009998020008555413	steps: 737	lr: 1.0240000000000000
episode: 2168	score: 11.0	memory length: 691222	epsilon: 0.009998020008555413	steps: 550	lr: 1.0240000000000000
episode: 2169	score: 13.0	memory length: 691851	epsilon: 0.009998020008555413	steps: 629	lr: 1.0240000000000000
episode: 2170	score: 12.0	memory length: 692417	epsilon: 0.009998020008555413	steps: 566	lr: 1.0240000000000000
episode: 2171	score: 18.0	memory length: 692987	epsilon: 0.009998020008555413	steps: 570	lr: 1.0240000000000000
episode: 2172	score: 10.0	memory length: 693499	epsilon: 0.009998020008555413	steps: 512	lr: 1.0240000000000000
episode: 2173	score: 13.0	memory length: 694021	epsilon: 0.009998020008555413	steps: 522	lr: 1.0240000000000000
episode: 2174	score: 26.0	memory length: 694950	epsilon: 0.009998020008555413	steps: 929	lr: 1.0240000000000000
episode: 2175	score: 11.0	memory length: 695518	epsilon: 0.009998020008555413	steps: 568	lr: 1.0240000000000000
episode: 2176	score: 6.0	memory length: 695875	epsilon: 0.009998020008555413	steps: 357	lr: 1.0240000000000000
episode: 2177	score: 17.0	memory length: 696477	epsilon: 0.009998020008555413	steps: 602	lr: 1.0240000000000000
episode: 2178	score: 11.0	memory length: 696990	epsilon: 0.009998020008555413	steps: 513	lr: 1.0240000000000000
episode: 2179	score: 14.0	memory length: 697596	epsilon: 0.009998020008555413	steps: 606	lr: 1.0240000000000000
episode: 2180	score: 14.0	memory length: 698245	epsilon: 0.009998020008555413	steps: 649	lr: 1.0240000000000000
episode: 2181	score: 23.0	memory length: 698927	epsilon: 0.009998020008555413	steps: 682	lr: 1.0240000000000000
episode: 2182	score: 13.0	memory length: 699566	epsilon: 0.009998020008555413	steps: 639	lr: 1.0240000000000000
episode: 2183	score: 12.0	memory length: 700144	epsilon: 0.009998020008555413	steps: 578	lr: 4.0960000000000000
episode: 2184	score: 16.0	memory length: 700744	epsilon: 0.009998020008555413	steps: 600	lr: 4.0960000000000000
episode: 2185	score: 12.0	memory length: 701306	epsilon: 0.009998020008555413	steps: 562	lr: 4.0960000000000000
episode: 2186	score: 16.0	memory length: 701805	epsilon: 0.009998020008555413	steps: 499	lr: 4.0960000000000000
episode: 2187	score: 15.0	memory length: 702364	epsilon: 0.009998020008555413	steps: 559	lr: 4.0960000000000000
episode: 2188	score: 18.0	memory length: 703017	epsilon: 0.009998020008555413	steps: 653	lr: 4.0960000000000000
episode: 2189	score: 17.0	memory length: 703718	epsilon: 0.009998020008555413	steps: 701	lr: 4.0960000000000000
episode: 2190	score: 18.0	memory length: 704244	epsilon: 0.009998020008555413	steps: 526	lr: 4.0960000000000000
episode: 2191	score: 25.0	memory length: 705092	epsilon: 0.009998020008555413	steps: 848	lr: 4.0960000000000000

episode: 2192	score: 18.0	memory length: 705788	epsilon: 0.009998020008555413	steps: 696	lr: 4.09600000000000
episode: 2193	score: 19.0	memory length: 706456	epsilon: 0.009998020008555413	steps: 668	lr: 4.09600000000000
episode: 2194	score: 13.0	memory length: 707010	epsilon: 0.009998020008555413	steps: 554	lr: 4.09600000000000
episode: 2195	score: 15.0	memory length: 707724	epsilon: 0.009998020008555413	steps: 714	lr: 4.09600000000000
episode: 2196	score: 19.0	memory length: 708326	epsilon: 0.009998020008555413	steps: 602	lr: 4.09600000000000
episode: 2197	score: 13.0	memory length: 708927	epsilon: 0.009998020008555413	steps: 601	lr: 4.09600000000000
episode: 2198	score: 30.0	memory length: 709745	epsilon: 0.009998020008555413	steps: 818	lr: 4.09600000000000
episode: 2199	score: 16.0	memory length: 710472	epsilon: 0.009998020008555413	steps: 727	lr: 4.09600000000000
episode: 2200	score: 16.0	memory length: 711107	epsilon: 0.009998020008555413	steps: 635	lr: 4.09600000000000
episode: 2201	score: 15.0	memory length: 711640	epsilon: 0.009998020008555413	steps: 533	lr: 4.09600000000000
episode: 2202	score: 16.0	memory length: 712230	epsilon: 0.009998020008555413	steps: 590	lr: 4.09600000000000
episode: 2203	score: 14.0	memory length: 712763	epsilon: 0.009998020008555413	steps: 533	lr: 4.09600000000000
episode: 2204	score: 24.0	memory length: 713489	epsilon: 0.009998020008555413	steps: 726	lr: 4.09600000000000
episode: 2205	score: 14.0	memory length: 714152	epsilon: 0.009998020008555413	steps: 663	lr: 4.09600000000000
episode: 2206	score: 13.0	memory length: 714766	epsilon: 0.009998020008555413	steps: 614	lr: 4.09600000000000
episode: 2207	score: 16.0	memory length: 715463	epsilon: 0.009998020008555413	steps: 697	lr: 4.09600000000000
episode: 2208	score: 10.0	memory length: 715946	epsilon: 0.009998020008555413	steps: 483	lr: 4.09600000000000
episode: 2209	score: 10.0	memory length: 716429	epsilon: 0.009998020008555413	steps: 483	lr: 4.09600000000000
episode: 2210	score: 16.0	memory length: 717129	epsilon: 0.009998020008555413	steps: 700	lr: 4.09600000000000
episode: 2211	score: 18.0	memory length: 717817	epsilon: 0.009998020008555413	steps: 688	lr: 4.09600000000000
episode: 2212	score: 23.0	memory length: 718580	epsilon: 0.009998020008555413	steps: 763	lr: 4.09600000000000
episode: 2213	score: 17.0	memory length: 719188	epsilon: 0.009998020008555413	steps: 608	lr: 4.09600000000000
episode: 2214	score: 10.0	memory length: 719671	epsilon: 0.009998020008555413	steps: 483	lr: 4.09600000000000
episode: 2215	score: 16.0	memory length: 720354	epsilon: 0.009998020008555413	steps: 683	lr: 4.09600000000000
episode: 2216	score: 13.0	memory length: 720944	epsilon: 0.009998020008555413	steps: 590	lr: 4.09600000000000
episode: 2217	score: 15.0	memory length: 721616	epsilon: 0.009998020008555413	steps: 672	lr: 4.09600000000000
episode: 2218	score: 20.0	memory length: 722276	epsilon: 0.009998020008555413	steps: 660	lr: 4.09600000000000
episode: 2219	score: 13.0	memory length: 722893	epsilon: 0.009998020008555413	steps: 617	lr: 4.09600000000000
episode: 2220	score: 13.0	memory length: 723509	epsilon: 0.009998020008555413	steps: 616	lr: 4.09600000000000
episode: 2221	score: 10.0	memory length: 724051	epsilon: 0.009998020008555413	steps: 542	lr: 4.09600000000000
episode: 2222	score: 17.0	memory length: 724747	epsilon: 0.009998020008555413	steps: 696	lr: 4.09600000000000
episode: 2223	score: 21.0	memory length: 725430	epsilon: 0.009998020008555413	steps: 683	lr: 4.09600000000000
episode: 2224	score: 16.0	memory length: 726124	epsilon: 0.009998020008555413	steps: 694	lr: 4.09600000000000
episode: 2225	score: 17.0	memory length: 726818	epsilon: 0.009998020008555413	steps: 694	lr: 4.09600000000000
episode: 2226	score: 18.0	memory length: 727473	epsilon: 0.009998020008555413	steps: 655	lr: 4.09600000000000
episode: 2227	score: 9.0	memory length: 727920	epsilon: 0.009998020008555413	steps: 447	lr: 4.09600000000000
episode: 2228	score: 13.0	memory length: 728538	epsilon: 0.009998020008555413	steps: 618	lr: 4.09600000000000
episode: 2229	score: 13.0	memory length: 729153	epsilon: 0.009998020008555413	steps: 615	lr: 4.09600000000000
episode: 2230	score: 15.0	memory length: 729713	epsilon: 0.009998020008555413	steps: 560	lr: 4.09600000000000
episode: 2231	score: 15.0	memory length: 730353	epsilon: 0.009998020008555413	steps: 640	lr: 4.09600000000000
episode: 2232	score: 14.0	memory length: 730917	epsilon: 0.009998020008555413	steps: 564	lr: 4.09600000000000
episode: 2233	score: 12.0	memory length: 731505	epsilon: 0.009998020008555413	steps: 588	lr: 4.09600000000000
episode: 2234	score: 12.0	memory length: 732035	epsilon: 0.009998020008555413	steps: 530	lr: 4.09600000000000
episode: 2235	score: 11.0	memory length: 732533	epsilon: 0.009998020008555413	steps: 498	lr: 4.09600000000000
episode: 2236	score: 23.0	memory length: 733208	epsilon: 0.009998020008555413	steps: 675	lr: 4.09600000000000
episode: 2237	score: 17.0	memory length: 733894	epsilon: 0.009998020008555413	steps: 686	lr: 4.09600000000000
episode: 2238	score: 23.0	memory length: 734664	epsilon: 0.009998020008555413	steps: 770	lr: 4.09600000000000
episode: 2239	score: 10.0	memory length: 735147	epsilon: 0.009998020008555413	steps: 483	lr: 4.09600000000000
episode: 2240	score: 16.0	memory length: 735756	epsilon: 0.009998020008555413	steps: 609	lr: 4.09600000000000
episode: 2241	score: 16.0	memory length: 736485	epsilon: 0.009998020008555413	steps: 729	lr: 4.09600000000000
episode: 2242	score: 15.0	memory length: 737142	epsilon: 0.009998020008555413	steps: 657	lr: 4.09600000000000
episode: 2243	score: 17.0	memory length: 737783	epsilon: 0.009998020008555413	steps: 641	lr: 4.09600000000000
episode: 2244	score: 21.0	memory length: 738516	epsilon: 0.009998020008555413	steps: 733	lr: 4.09600000000000
episode: 2245	score: 13.0	memory length: 739111	epsilon: 0.009998020008555413	steps: 595	lr: 4.09600000000000
episode: 2246	score: 18.0	memory length: 739640	epsilon: 0.009998020008555413	steps: 529	lr: 4.09600000000000
episode: 2247	score: 11.0	memory length: 740191	epsilon: 0.009998020008555413	steps: 551	lr: 4.09600000000000
episode: 2248	score: 15.0	memory length: 740868	epsilon: 0.009998020008555413	steps: 677	lr: 4.09600000000000
episode: 2249	score: 13.0	memory length: 741466	epsilon: 0.009998020008555413	steps: 598	lr: 4.09600000000000
episode: 2250	score: 13.0	memory length: 742043	epsilon: 0.009998020008555413	steps: 577	lr: 4.09600000000000
episode: 2251	score: 17.0	memory length: 742670	epsilon: 0.009998020008555413	steps: 627	lr: 4.09600000000000
episode: 2252	score: 10.0	memory length: 743174	epsilon: 0.009998020008555413	steps: 504	lr: 4.09600000000000
episode: 2253	score: 11.0	memory length: 743681	epsilon: 0.009998020008555413	steps: 507	lr: 4.09600000000000
episode: 2254	score: 11.0	memory length: 744202	epsilon: 0.009998020008555413	steps: 521	lr: 4.09600000000000
episode: 2255	score: 11.0	memory length: 744732	epsilon: 0.009998020008555413	steps: 530	lr: 4.09600000000000
episode: 2256	score: 15.0	memory length: 745278	epsilon: 0.009998020008555413	steps: 546	lr: 4.09600000000000
episode: 2257	score: 14.0	memory length: 745835	epsilon: 0.009998020008555413	steps: 557	lr: 4.09600000000000
episode: 2258	score: 17.0	memory length: 746416	epsilon: 0.009998020008555413	steps: 581	lr: 4.09600000000000
episode: 2259	score: 12.0	memory length: 746959	epsilon: 0.009998020008555413	steps: 543	lr: 4.09600000000000
episode: 2260	score: 13.0	memory length: 747618	epsilon: 0.009998020008555413	steps: 659	lr: 4.09600000000000
episode: 2261	score: 22.0	memory length: 748369	epsilon: 0.009998020008555413	steps: 751	lr: 4.09600000000000
episode: 2262	score: 18.0	memory length: 749020	epsilon: 0.009998020008555413	steps: 651	lr: 4.09600000000000
episode: 2263	score: 15.0	memory length: 749666	epsilon: 0.009998020008555413	steps: 646	lr: 4.09600000000000
episode: 2264	score: 19.0	memory length: 750420	epsilon: 0.009998020008555413	steps: 754	lr: 4.09600000000000
episode: 2265	score: 24.0	memory length: 751273	epsilon: 0.009998020008555413	steps: 853	lr: 4.09600000000000
episode: 2266	score: 11.0	memory length: 751741	epsilon: 0.009998020008555413	steps: 468	lr: 4.09600000000000
episode: 2267	score: 14.0	memory length: 752350	epsilon: 0.009998020008555413	steps: 609	lr: 4.09600000000000
episode: 2268	score: 15.0	memory length: 752799	epsilon: 0.009998020008555413	steps: 449	lr: 4.09600000000000
episode: 2269	score: 20.0	memory length: 753450	epsilon: 0.009998020008555413	steps: 651	lr: 4.09600000000000
episode: 2270	score: 13.0	memory length: 754045	epsilon: 0.009998020008555413	steps: 595	lr: 4.09600000000000
episode: 2271	score: 18.0	memory length: 754674	epsilon: 0.009998020008555413	steps: 629	lr: 4.09600000000000
episode: 2272	score: 14.0	memory length: 755357	epsilon: 0.009998020008555413	steps: 683	lr: 4.09600000000000
episode: 2273	score: 16.0	memory length: 756036	epsilon: 0.009998020008555413	steps: 679	lr: 4.09600000000000
episode: 2274	score: 16.0	memory length: 756715	epsilon: 0.009998020008555413	steps: 679	lr: 4.09600000000000
episode: 2275	score: 13.0	memory length: 757348	epsilon: 0.009998020008555413	steps: 633	lr: 4.09600000000000
episode: 2276	score: 9.0	memory length: 757824	epsilon: 0.009998020008555413	steps: 476	lr: 4.09600000000000

episode: 2277	score: 11.0	memory length: 758384	epsilon: 0.009998020008555413	steps: 560	lr: 4.09600000000000
episode: 2278	score: 10.0	memory length: 758884	epsilon: 0.009998020008555413	steps: 500	lr: 4.09600000000000
episode: 2279	score: 18.0	memory length: 759529	epsilon: 0.009998020008555413	steps: 645	lr: 4.09600000000000
episode: 2280	score: 13.0	memory length: 760160	epsilon: 0.009998020008555413	steps: 631	lr: 4.09600000000000
episode: 2281	score: 15.0	memory length: 760727	epsilon: 0.009998020008555413	steps: 567	lr: 4.09600000000000
episode: 2282	score: 30.0	memory length: 761624	epsilon: 0.009998020008555413	steps: 897	lr: 4.09600000000000
episode: 2283	score: 17.0	memory length: 762245	epsilon: 0.009998020008555413	steps: 621	lr: 4.09600000000000
episode: 2284	score: 16.0	memory length: 762899	epsilon: 0.009998020008555413	steps: 654	lr: 4.09600000000000
episode: 2285	score: 11.0	memory length: 763484	epsilon: 0.009998020008555413	steps: 585	lr: 4.09600000000000
episode: 2286	score: 19.0	memory length: 764221	epsilon: 0.009998020008555413	steps: 737	lr: 4.09600000000000
episode: 2287	score: 12.0	memory length: 764803	epsilon: 0.009998020008555413	steps: 582	lr: 4.09600000000000
episode: 2288	score: 14.0	memory length: 765345	epsilon: 0.009998020008555413	steps: 542	lr: 4.09600000000000
episode: 2289	score: 15.0	memory length: 766026	epsilon: 0.009998020008555413	steps: 681	lr: 4.09600000000000
episode: 2290	score: 10.0	memory length: 766514	epsilon: 0.009998020008555413	steps: 488	lr: 4.09600000000000
episode: 2291	score: 16.0	memory length: 767220	epsilon: 0.009998020008555413	steps: 706	lr: 4.09600000000000
episode: 2292	score: 14.0	memory length: 767741	epsilon: 0.009998020008555413	steps: 521	lr: 4.09600000000000
episode: 2293	score: 13.0	memory length: 768323	epsilon: 0.009998020008555413	steps: 582	lr: 4.09600000000000
episode: 2294	score: 13.0	memory length: 768816	epsilon: 0.009998020008555413	steps: 493	lr: 4.09600000000000
episode: 2295	score: 19.0	memory length: 769393	epsilon: 0.009998020008555413	steps: 577	lr: 4.09600000000000
episode: 2296	score: 11.0	memory length: 769950	epsilon: 0.009998020008555413	steps: 557	lr: 4.09600000000000
episode: 2297	score: 13.0	memory length: 770566	epsilon: 0.009998020008555413	steps: 616	lr: 4.09600000000000
episode: 2298	score: 21.0	memory length: 771217	epsilon: 0.009998020008555413	steps: 651	lr: 4.09600000000000
episode: 2299	score: 9.0	memory length: 771674	epsilon: 0.009998020008555413	steps: 457	lr: 4.09600000000000
episode: 2300	score: 11.0	memory length: 772226	epsilon: 0.009998020008555413	steps: 552	lr: 4.09600000000000
episode: 2301	score: 13.0	memory length: 772839	epsilon: 0.009998020008555413	steps: 613	lr: 4.09600000000000
episode: 2302	score: 13.0	memory length: 773429	epsilon: 0.009998020008555413	steps: 590	lr: 4.09600000000000
episode: 2303	score: 18.0	memory length: 774215	epsilon: 0.009998020008555413	steps: 786	lr: 4.09600000000000
episode: 2304	score: 13.0	memory length: 774793	epsilon: 0.009998020008555413	steps: 578	lr: 4.09600000000000
episode: 2305	score: 14.0	memory length: 775427	epsilon: 0.009998020008555413	steps: 634	lr: 4.09600000000000
episode: 2306	score: 17.0	memory length: 776105	epsilon: 0.009998020008555413	steps: 678	lr: 4.09600000000000
episode: 2307	score: 17.0	memory length: 776782	epsilon: 0.009998020008555413	steps: 677	lr: 4.09600000000000
episode: 2308	score: 15.0	memory length: 777488	epsilon: 0.009998020008555413	steps: 706	lr: 4.09600000000000
episode: 2309	score: 16.0	memory length: 778215	epsilon: 0.009998020008555413	steps: 727	lr: 4.09600000000000
episode: 2310	score: 8.0	memory length: 778669	epsilon: 0.009998020008555413	steps: 454	lr: 4.09600000000000
episode: 2311	score: 11.0	memory length: 779218	epsilon: 0.009998020008555413	steps: 549	lr: 4.09600000000000
episode: 2312	score: 22.0	memory length: 779945	epsilon: 0.009998020008555413	steps: 727	lr: 4.09600000000000
episode: 2313	score: 13.0	memory length: 780527	epsilon: 0.009998020008555413	steps: 582	lr: 4.09600000000000
episode: 2314	score: 10.0	memory length: 781072	epsilon: 0.009998020008555413	steps: 545	lr: 4.09600000000000
episode: 2315	score: 12.0	memory length: 781660	epsilon: 0.009998020008555413	steps: 588	lr: 4.09600000000000
episode: 2316	score: 28.0	memory length: 782538	epsilon: 0.009998020008555413	steps: 878	lr: 4.09600000000000
episode: 2317	score: 12.0	memory length: 783112	epsilon: 0.009998020008555413	steps: 574	lr: 4.09600000000000
episode: 2318	score: 19.0	memory length: 783804	epsilon: 0.009998020008555413	steps: 692	lr: 4.09600000000000
episode: 2319	score: 8.0	memory length: 784213	epsilon: 0.009998020008555413	steps: 409	lr: 4.09600000000000
episode: 2320	score: 12.0	memory length: 784800	epsilon: 0.009998020008555413	steps: 587	lr: 4.09600000000000
episode: 2321	score: 18.0	memory length: 785538	epsilon: 0.009998020008555413	steps: 738	lr: 4.09600000000000
episode: 2322	score: 6.0	memory length: 785877	epsilon: 0.009998020008555413	steps: 339	lr: 4.09600000000000
episode: 2323	score: 13.0	memory length: 786382	epsilon: 0.009998020008555413	steps: 505	lr: 4.09600000000000
episode: 2324	score: 12.0	memory length: 786947	epsilon: 0.009998020008555413	steps: 565	lr: 4.09600000000000
episode: 2325	score: 17.0	memory length: 787584	epsilon: 0.009998020008555413	steps: 637	lr: 4.09600000000000
episode: 2326	score: 18.0	memory length: 788267	epsilon: 0.009998020008555413	steps: 683	lr: 4.09600000000000
episode: 2327	score: 17.0	memory length: 788973	epsilon: 0.009998020008555413	steps: 706	lr: 4.09600000000000
episode: 2328	score: 14.0	memory length: 789621	epsilon: 0.009998020008555413	steps: 648	lr: 4.09600000000000
episode: 2329	score: 12.0	memory length: 790198	epsilon: 0.009998020008555413	steps: 577	lr: 4.09600000000000
episode: 2330	score: 12.0	memory length: 790796	epsilon: 0.009998020008555413	steps: 598	lr: 4.09600000000000
episode: 2331	score: 14.0	memory length: 791345	epsilon: 0.009998020008555413	steps: 549	lr: 4.09600000000000
episode: 2332	score: 10.0	memory length: 791874	epsilon: 0.009998020008555413	steps: 529	lr: 4.09600000000000
episode: 2333	score: 20.0	memory length: 792494	epsilon: 0.009998020008555413	steps: 620	lr: 4.09600000000000
episode: 2334	score: 11.0	memory length: 792917	epsilon: 0.009998020008555413	steps: 423	lr: 4.09600000000000
episode: 2335	score: 16.0	memory length: 793487	epsilon: 0.009998020008555413	steps: 570	lr: 4.09600000000000
episode: 2336	score: 19.0	memory length: 794189	epsilon: 0.009998020008555413	steps: 702	lr: 4.09600000000000
episode: 2337	score: 11.0	memory length: 794736	epsilon: 0.009998020008555413	steps: 547	lr: 4.09600000000000
episode: 2338	score: 11.0	memory length: 795261	epsilon: 0.009998020008555413	steps: 525	lr: 4.09600000000000
episode: 2339	score: 13.0	memory length: 795862	epsilon: 0.009998020008555413	steps: 601	lr: 4.09600000000000
episode: 2340	score: 13.0	memory length: 796481	epsilon: 0.009998020008555413	steps: 619	lr: 4.09600000000000
episode: 2341	score: 20.0	memory length: 797194	epsilon: 0.009998020008555413	steps: 713	lr: 4.09600000000000
episode: 2342	score: 13.0	memory length: 797811	epsilon: 0.009998020008555413	steps: 617	lr: 4.09600000000000
episode: 2343	score: 13.0	memory length: 798429	epsilon: 0.009998020008555413	steps: 618	lr: 4.09600000000000
episode: 2344	score: 22.0	memory length: 799261	epsilon: 0.009998020008555413	steps: 832	lr: 4.09600000000000
episode: 2345	score: 14.0	memory length: 799895	epsilon: 0.009998020008555413	steps: 634	lr: 4.09600000000000
episode: 2346	score: 10.0	memory length: 800288	epsilon: 0.009998020008555413	steps: 393	lr: 1.63840000000000
episode: 2347	score: 16.0	memory length: 800967	epsilon: 0.009998020008555413	steps: 679	lr: 1.63840000000000
episode: 2348	score: 16.0	memory length: 801519	epsilon: 0.009998020008555413	steps: 552	lr: 1.63840000000000
episode: 2349	score: 12.0	memory length: 802157	epsilon: 0.009998020008555413	steps: 638	lr: 1.63840000000000
episode: 2350	score: 18.0	memory length: 802979	epsilon: 0.009998020008555413	steps: 822	lr: 1.63840000000000
episode: 2351	score: 15.0	memory length: 803546	epsilon: 0.009998020008555413	steps: 567	lr: 1.63840000000000
episode: 2352	score: 14.0	memory length: 804095	epsilon: 0.009998020008555413	steps: 549	lr: 1.63840000000000
episode: 2353	score: 14.0	memory length: 804669	epsilon: 0.009998020008555413	steps: 574	lr: 1.63840000000000
episode: 2354	score: 14.0	memory length: 805235	epsilon: 0.009998020008555413	steps: 566	lr: 1.63840000000000
episode: 2355	score: 12.0	memory length: 805819	epsilon: 0.009998020008555413	steps: 584	lr: 1.63840000000000
episode: 2356	score: 17.0	memory length: 806439	epsilon: 0.009998020008555413	steps: 620	lr: 1.63840000000000
episode: 2357	score: 18.0	memory length: 807121	epsilon: 0.009998020008555413	steps: 682	lr: 1.63840000000000
episode: 2358	score: 14.0	memory length: 807754	epsilon: 0.009998020008555413	steps: 633	lr: 1.63840000000000
episode: 2359	score: 23.0	memory length: 808502	epsilon: 0.009998020008555413	steps: 748	lr: 1.63840000000000
episode: 2360	score: 7.0	memory length: 808892	epsilon: 0.009998020008555413	steps: 390	lr: 1.63840000000000
episode: 2361	score: 9.0	memory length: 809379	epsilon: 0.009998020008555413	steps: 487	lr: 1.63840000000000

episode: 2362	score: 25.0	memory length: 810063	epsilon: 0.009998020008555413	steps: 684	lr: 1.6384000000000000
episode: 2363	score: 19.0	memory length: 810713	epsilon: 0.009998020008555413	steps: 650	lr: 1.6384000000000000
episode: 2364	score: 11.0	memory length: 811280	epsilon: 0.009998020008555413	steps: 567	lr: 1.6384000000000000
episode: 2365	score: 18.0	memory length: 812078	epsilon: 0.009998020008555413	steps: 798	lr: 1.6384000000000000
episode: 2366	score: 18.0	memory length: 812674	epsilon: 0.009998020008555413	steps: 596	lr: 1.6384000000000000
episode: 2367	score: 16.0	memory length: 813161	epsilon: 0.009998020008555413	steps: 487	lr: 1.6384000000000000
episode: 2368	score: 15.0	memory length: 813726	epsilon: 0.009998020008555413	steps: 565	lr: 1.6384000000000000
episode: 2369	score: 12.0	memory length: 814190	epsilon: 0.009998020008555413	steps: 464	lr: 1.6384000000000000
episode: 2370	score: 22.0	memory length: 814940	epsilon: 0.009998020008555413	steps: 750	lr: 1.6384000000000000
episode: 2371	score: 12.0	memory length: 815504	epsilon: 0.009998020008555413	steps: 564	lr: 1.6384000000000000
episode: 2372	score: 10.0	memory length: 815998	epsilon: 0.009998020008555413	steps: 494	lr: 1.6384000000000000
episode: 2373	score: 12.0	memory length: 816601	epsilon: 0.009998020008555413	steps: 603	lr: 1.6384000000000000
episode: 2374	score: 15.0	memory length: 817161	epsilon: 0.009998020008555413	steps: 560	lr: 1.6384000000000000
episode: 2375	score: 19.0	memory length: 817804	epsilon: 0.009998020008555413	steps: 643	lr: 1.6384000000000000
episode: 2376	score: 12.0	memory length: 818380	epsilon: 0.009998020008555413	steps: 576	lr: 1.6384000000000000
episode: 2377	score: 16.0	memory length: 819014	epsilon: 0.009998020008555413	steps: 634	lr: 1.6384000000000000
episode: 2378	score: 18.0	memory length: 819588	epsilon: 0.009998020008555413	steps: 574	lr: 1.6384000000000000
episode: 2379	score: 14.0	memory length: 820271	epsilon: 0.009998020008555413	steps: 683	lr: 1.6384000000000000
episode: 2380	score: 13.0	memory length: 820913	epsilon: 0.009998020008555413	steps: 642	lr: 1.6384000000000000
episode: 2381	score: 25.0	memory length: 821638	epsilon: 0.009998020008555413	steps: 725	lr: 1.6384000000000000
episode: 2382	score: 14.0	memory length: 822164	epsilon: 0.009998020008555413	steps: 526	lr: 1.6384000000000000
episode: 2383	score: 17.0	memory length: 822691	epsilon: 0.009998020008555413	steps: 527	lr: 1.6384000000000000
episode: 2384	score: 19.0	memory length: 823450	epsilon: 0.009998020008555413	steps: 759	lr: 1.6384000000000000
episode: 2385	score: 16.0	memory length: 824104	epsilon: 0.009998020008555413	steps: 654	lr: 1.6384000000000000
episode: 2386	score: 16.0	memory length: 824819	epsilon: 0.009998020008555413	steps: 715	lr: 1.6384000000000000
episode: 2387	score: 19.0	memory length: 825507	epsilon: 0.009998020008555413	steps: 688	lr: 1.6384000000000000
episode: 2388	score: 16.0	memory length: 826096	epsilon: 0.009998020008555413	steps: 589	lr: 1.6384000000000000
episode: 2389	score: 22.0	memory length: 826918	epsilon: 0.009998020008555413	steps: 822	lr: 1.6384000000000000
episode: 2390	score: 12.0	memory length: 827494	epsilon: 0.009998020008555413	steps: 576	lr: 1.6384000000000000
episode: 2391	score: 34.0	memory length: 828449	epsilon: 0.009998020008555413	steps: 955	lr: 1.6384000000000000
episode: 2392	score: 13.0	memory length: 829079	epsilon: 0.009998020008555413	steps: 630	lr: 1.6384000000000000
episode: 2393	score: 11.0	memory length: 829649	epsilon: 0.009998020008555413	steps: 570	lr: 1.6384000000000000
episode: 2394	score: 14.0	memory length: 830164	epsilon: 0.009998020008555413	steps: 515	lr: 1.6384000000000000
episode: 2395	score: 21.0	memory length: 830688	epsilon: 0.009998020008555413	steps: 524	lr: 1.6384000000000000
episode: 2396	score: 17.0	memory length: 831311	epsilon: 0.009998020008555413	steps: 623	lr: 1.6384000000000000
episode: 2397	score: 14.0	memory length: 831888	epsilon: 0.009998020008555413	steps: 577	lr: 1.6384000000000000
episode: 2398	score: 23.0	memory length: 832611	epsilon: 0.009998020008555413	steps: 723	lr: 1.6384000000000000
episode: 2399	score: 13.0	memory length: 833291	epsilon: 0.009998020008555413	steps: 680	lr: 1.6384000000000000
episode: 2400	score: 15.0	memory length: 834013	epsilon: 0.009998020008555413	steps: 722	lr: 1.6384000000000000
episode: 2401	score: 9.0	memory length: 834500	epsilon: 0.009998020008555413	steps: 487	lr: 1.6384000000000000
episode: 2402	score: 12.0	memory length: 835061	epsilon: 0.009998020008555413	steps: 561	lr: 1.6384000000000000
episode: 2403	score: 17.0	memory length: 835669	epsilon: 0.009998020008555413	steps: 608	lr: 1.6384000000000000
episode: 2404	score: 16.0	memory length: 836304	epsilon: 0.009998020008555413	steps: 635	lr: 1.6384000000000000
episode: 2405	score: 13.0	memory length: 836914	epsilon: 0.009998020008555413	steps: 610	lr: 1.6384000000000000
episode: 2406	score: 10.0	memory length: 837431	epsilon: 0.009998020008555413	steps: 517	lr: 1.6384000000000000
episode: 2407	score: 14.0	memory length: 838049	epsilon: 0.009998020008555413	steps: 618	lr: 1.6384000000000000
episode: 2408	score: 19.0	memory length: 838652	epsilon: 0.009998020008555413	steps: 603	lr: 1.6384000000000000
episode: 2409	score: 16.0	memory length: 839204	epsilon: 0.009998020008555413	steps: 552	lr: 1.6384000000000000
episode: 2410	score: 10.0	memory length: 839668	epsilon: 0.009998020008555413	steps: 464	lr: 1.6384000000000000
episode: 2411	score: 12.0	memory length: 840305	epsilon: 0.009998020008555413	steps: 637	lr: 1.6384000000000000
episode: 2412	score: 18.0	memory length: 840944	epsilon: 0.009998020008555413	steps: 639	lr: 1.6384000000000000
episode: 2413	score: 17.0	memory length: 841479	epsilon: 0.009998020008555413	steps: 535	lr: 1.6384000000000000
episode: 2414	score: 11.0	memory length: 841908	epsilon: 0.009998020008555413	steps: 429	lr: 1.6384000000000000
episode: 2415	score: 22.0	memory length: 842811	epsilon: 0.009998020008555413	steps: 903	lr: 1.6384000000000000
episode: 2416	score: 18.0	memory length: 843389	epsilon: 0.009998020008555413	steps: 578	lr: 1.6384000000000000
episode: 2417	score: 13.0	memory length: 844025	epsilon: 0.009998020008555413	steps: 636	lr: 1.6384000000000000
episode: 2418	score: 23.0	memory length: 844722	epsilon: 0.009998020008555413	steps: 697	lr: 1.6384000000000000
episode: 2419	score: 8.0	memory length: 845139	epsilon: 0.009998020008555413	steps: 417	lr: 1.6384000000000000
episode: 2420	score: 15.0	memory length: 845690	epsilon: 0.009998020008555413	steps: 551	lr: 1.6384000000000000
episode: 2421	score: 23.0	memory length: 846434	epsilon: 0.009998020008555413	steps: 744	lr: 1.6384000000000000
episode: 2422	score: 24.0	memory length: 846831	epsilon: 0.009998020008555413	steps: 397	lr: 1.6384000000000000
episode: 2423	score: 22.0	memory length: 847554	epsilon: 0.009998020008555413	steps: 723	lr: 1.6384000000000000
episode: 2424	score: 22.0	memory length: 848290	epsilon: 0.009998020008555413	steps: 736	lr: 1.6384000000000000
episode: 2425	score: 12.0	memory length: 848856	epsilon: 0.009998020008555413	steps: 566	lr: 1.6384000000000000
episode: 2426	score: 15.0	memory length: 849471	epsilon: 0.009998020008555413	steps: 615	lr: 1.6384000000000000
episode: 2427	score: 11.0	memory length: 849988	epsilon: 0.009998020008555413	steps: 517	lr: 1.6384000000000000
episode: 2428	score: 16.0	memory length: 850605	epsilon: 0.009998020008555413	steps: 617	lr: 1.6384000000000000
episode: 2429	score: 23.0	memory length: 851332	epsilon: 0.009998020008555413	steps: 727	lr: 1.6384000000000000
episode: 2430	score: 13.0	memory length: 851904	epsilon: 0.009998020008555413	steps: 572	lr: 1.6384000000000000
episode: 2431	score: 17.0	memory length: 852553	epsilon: 0.009998020008555413	steps: 649	lr: 1.6384000000000000
episode: 2432	score: 22.0	memory length: 853285	epsilon: 0.009998020008555413	steps: 732	lr: 1.6384000000000000
episode: 2433	score: 12.0	memory length: 853893	epsilon: 0.009998020008555413	steps: 608	lr: 1.6384000000000000
episode: 2434	score: 7.0	memory length: 854283	epsilon: 0.009998020008555413	steps: 390	lr: 1.6384000000000000
episode: 2435	score: 7.0	memory length: 854673	epsilon: 0.009998020008555413	steps: 390	lr: 1.6384000000000000
episode: 2436	score: 11.0	memory length: 855215	epsilon: 0.009998020008555413	steps: 542	lr: 1.6384000000000000
episode: 2437	score: 10.0	memory length: 855758	epsilon: 0.009998020008555413	steps: 543	lr: 1.6384000000000000
episode: 2438	score: 12.0	memory length: 856342	epsilon: 0.009998020008555413	steps: 584	lr: 1.6384000000000000
episode: 2439	score: 21.0	memory length: 857010	epsilon: 0.009998020008555413	steps: 668	lr: 1.6384000000000000
episode: 2440	score: 19.0	memory length: 857740	epsilon: 0.009998020008555413	steps: 730	lr: 1.6384000000000000
episode: 2441	score: 19.0	memory length: 858385	epsilon: 0.009998020008555413	steps: 645	lr: 1.6384000000000000
episode: 2442	score: 14.0	memory length: 859058	epsilon: 0.009998020008555413	steps: 673	lr: 1.6384000000000000
episode: 2443	score: 26.0	memory length: 859888	epsilon: 0.009998020008555413	steps: 830	lr: 1.6384000000000000
episode: 2444	score: 18.0	memory length: 860514	epsilon: 0.009998020008555413	steps: 626	lr: 1.6384000000000000
episode: 2445	score: 22.0	memory length: 861201	epsilon: 0.009998020008555413	steps: 687	lr: 1.6384000000000000
episode: 2446	score: 9.0	memory length: 861711	epsilon: 0.009998020008555413	steps: 510	lr: 1.6384000000000000

episode: 2447	score: 14.0	memory length: 862451	epsilon: 0.009998020008555413	steps: 740	lr: 1.6384000000000000
episode: 2448	score: 19.0	memory length: 863152	epsilon: 0.009998020008555413	steps: 701	lr: 1.6384000000000000
episode: 2449	score: 12.0	memory length: 863787	epsilon: 0.009998020008555413	steps: 635	lr: 1.6384000000000000
episode: 2450	score: 13.0	memory length: 864358	epsilon: 0.009998020008555413	steps: 571	lr: 1.6384000000000000
episode: 2451	score: 10.0	memory length: 864931	epsilon: 0.009998020008555413	steps: 573	lr: 1.6384000000000000
episode: 2452	score: 13.0	memory length: 865567	epsilon: 0.009998020008555413	steps: 636	lr: 1.6384000000000000
episode: 2453	score: 13.0	memory length: 866162	epsilon: 0.009998020008555413	steps: 595	lr: 1.6384000000000000
episode: 2454	score: 19.0	memory length: 866741	epsilon: 0.009998020008555413	steps: 579	lr: 1.6384000000000000
episode: 2455	score: 16.0	memory length: 867364	epsilon: 0.009998020008555413	steps: 623	lr: 1.6384000000000000
episode: 2456	score: 10.0	memory length: 867866	epsilon: 0.009998020008555413	steps: 502	lr: 1.6384000000000000
episode: 2457	score: 12.0	memory length: 868442	epsilon: 0.009998020008555413	steps: 576	lr: 1.6384000000000000
episode: 2458	score: 17.0	memory length: 868961	epsilon: 0.009998020008555413	steps: 519	lr: 1.6384000000000000
episode: 2459	score: 8.0	memory length: 869401	epsilon: 0.009998020008555413	steps: 440	lr: 1.6384000000000000
episode: 2460	score: 22.0	memory length: 870107	epsilon: 0.009998020008555413	steps: 706	lr: 1.6384000000000000
episode: 2461	score: 11.0	memory length: 870686	epsilon: 0.009998020008555413	steps: 579	lr: 1.6384000000000000
episode: 2462	score: 13.0	memory length: 871373	epsilon: 0.009998020008555413	steps: 687	lr: 1.6384000000000000
episode: 2463	score: 17.0	memory length: 871917	epsilon: 0.009998020008555413	steps: 544	lr: 1.6384000000000000
episode: 2464	score: 9.0	memory length: 872395	epsilon: 0.009998020008555413	steps: 478	lr: 1.6384000000000000
episode: 2465	score: 12.0	memory length: 872860	epsilon: 0.009998020008555413	steps: 465	lr: 1.6384000000000000
episode: 2466	score: 10.0	memory length: 873394	epsilon: 0.009998020008555413	steps: 534	lr: 1.6384000000000000
episode: 2467	score: 11.0	memory length: 873926	epsilon: 0.009998020008555413	steps: 532	lr: 1.6384000000000000
episode: 2468	score: 11.0	memory length: 874463	epsilon: 0.009998020008555413	steps: 537	lr: 1.6384000000000000
episode: 2469	score: 17.0	memory length: 875043	epsilon: 0.009998020008555413	steps: 580	lr: 1.6384000000000000
episode: 2470	score: 18.0	memory length: 875536	epsilon: 0.009998020008555413	steps: 493	lr: 1.6384000000000000
episode: 2471	score: 25.0	memory length: 876220	epsilon: 0.009998020008555413	steps: 684	lr: 1.6384000000000000
episode: 2472	score: 8.0	memory length: 876670	epsilon: 0.009998020008555413	steps: 450	lr: 1.6384000000000000
episode: 2473	score: 14.0	memory length: 877220	epsilon: 0.009998020008555413	steps: 550	lr: 1.6384000000000000
episode: 2474	score: 15.0	memory length: 877869	epsilon: 0.009998020008555413	steps: 649	lr: 1.6384000000000000
episode: 2475	score: 13.0	memory length: 878487	epsilon: 0.009998020008555413	steps: 618	lr: 1.6384000000000000
episode: 2476	score: 13.0	memory length: 878983	epsilon: 0.009998020008555413	steps: 496	lr: 1.6384000000000000
episode: 2477	score: 12.0	memory length: 879547	epsilon: 0.009998020008555413	steps: 564	lr: 1.6384000000000000
episode: 2478	score: 12.0	memory length: 880111	epsilon: 0.009998020008555413	steps: 564	lr: 1.6384000000000000
episode: 2479	score: 21.0	memory length: 880887	epsilon: 0.009998020008555413	steps: 776	lr: 1.6384000000000000
episode: 2480	score: 14.0	memory length: 881402	epsilon: 0.009998020008555413	steps: 515	lr: 1.6384000000000000
episode: 2481	score: 12.0	memory length: 881936	epsilon: 0.009998020008555413	steps: 534	lr: 1.6384000000000000
episode: 2482	score: 12.0	memory length: 882507	epsilon: 0.009998020008555413	steps: 571	lr: 1.6384000000000000
episode: 2483	score: 15.0	memory length: 883183	epsilon: 0.009998020008555413	steps: 676	lr: 1.6384000000000000
episode: 2484	score: 12.0	memory length: 883641	epsilon: 0.009998020008555413	steps: 458	lr: 1.6384000000000000
episode: 2485	score: 14.0	memory length: 884260	epsilon: 0.009998020008555413	steps: 619	lr: 1.6384000000000000
episode: 2486	score: 15.0	memory length: 884852	epsilon: 0.009998020008555413	steps: 592	lr: 1.6384000000000000
episode: 2487	score: 16.0	memory length: 885464	epsilon: 0.009998020008555413	steps: 612	lr: 1.6384000000000000
episode: 2488	score: 11.0	memory length: 886017	epsilon: 0.009998020008555413	steps: 553	lr: 1.6384000000000000
episode: 2489	score: 13.0	memory length: 886603	epsilon: 0.009998020008555413	steps: 586	lr: 1.6384000000000000
episode: 2490	score: 17.0	memory length: 887211	epsilon: 0.009998020008555413	steps: 608	lr: 1.6384000000000000
episode: 2491	score: 17.0	memory length: 887819	epsilon: 0.009998020008555413	steps: 608	lr: 1.6384000000000000
episode: 2492	score: 17.0	memory length: 888427	epsilon: 0.009998020008555413	steps: 608	lr: 1.6384000000000000
episode: 2493	score: 15.0	memory length: 889092	epsilon: 0.009998020008555413	steps: 665	lr: 1.6384000000000000
episode: 2494	score: 14.0	memory length: 889577	epsilon: 0.009998020008555413	steps: 485	lr: 1.6384000000000000
episode: 2495	score: 8.0	memory length: 890035	epsilon: 0.009998020008555413	steps: 458	lr: 1.6384000000000000
episode: 2496	score: 10.0	memory length: 890559	epsilon: 0.009998020008555413	steps: 524	lr: 1.6384000000000000
episode: 2497	score: 11.0	memory length: 891091	epsilon: 0.009998020008555413	steps: 532	lr: 1.6384000000000000
episode: 2498	score: 14.0	memory length: 891632	epsilon: 0.009998020008555413	steps: 541	lr: 1.6384000000000000
episode: 2499	score: 13.0	memory length: 892262	epsilon: 0.009998020008555413	steps: 630	lr: 1.6384000000000000

Episodes vs Reward

