

pa2-actor-critic-cart-pole

March 29, 2023

```
[ ]: import numpy as np
import random
import torch
import torch.nn as nn
import torch.nn.functional as F
from collections import namedtuple, deque
import torch.optim as optim
import datetime
import gym
from gym.wrappers.record_video import RecordVideo
import glob
import io
import base64
import matplotlib.pyplot as plt
from IPython.display import HTML
from pyvirtualdisplay import Display
import tensorflow as tf
from IPython import display as ipythondisplay
from PIL import Image
import tensorflow_probability as tfp
```

```
[ ]: class ActorCriticModel(tf.keras.Model):
    """
    Defining policy and value networkss
    """
    def __init__(self,
        ↪action_size,num_layers=2,num_neurons_each_layer=[1024,512]):
        super(ActorCriticModel, self).__init__()
        self.num_layers =num_layers
        self.neurons_each_layer = num_neurons_each_layer
        self.linears = [tf.keras.layers.Dense(self.neurons_each_layer[0],
        ↪activation=tf.nn.relu)]
        self.linears.extend([tf.keras.layers.Dense(self.neurons_each_layer[i],
        ↪activation=tf.nn.relu) for i in range(1, self.num_layers)])

        #Output Layer for policy
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        self.pi_out = tf.keras.layers.Dense(action_size, activation=tf.nn.
↪softmax)
        #Output Layer for state-value
        self.v_out = tf.keras.layers.Dense(1)

    def call(self, state):
        """
        Computes policy distribution and state-value for a given state
        """
        h = None
        for i in range(self.num_layers+1):
            if i == 0:
                h = tf.nn.relu(self.linears[0](state))
            elif i < self.num_layers:
                h = tf.nn.relu(self.linears[i](h))
            else:
                return self.pi_out(h), self.v_out(h)

```

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[ ]: class Agent:
    """Agent( action_size=env.action_space.n, num_layers=num_layers,
↪num_neurons_each_layer=num_neurons_each_layer, lr=LR, seed = seed)
    Agent class
    """

    def __init__(self, action_size, num_layers, num_neurons_each_layer, lr=0.
↪001, gamma=0.99, seed = 85):
        self.gamma = gamma
        self.ac_model =
↪ActorCriticModel(action_size=action_size,num_layers=num_layers,num_neurons_each_layer=num_n
        self.ac_model.compile(tf.keras.optimizers.Adam(learning_rate=lr))
        np.random.seed(seed)

    def sample_action(self, state):
        """
        Given a state, compute the policy distribution over all actions and
↪sample one action
        """
        pi,_ = self.ac_model(state)

        action_probabilities = tfp.distributions.Categorical(probs=pi)
        sample = action_probabilities.sample()

        return int(sample.numpy()[0])

    def actor_loss(self, action, pi, delta):
        """
        Compute Actor Loss
        """

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        return -tf.math.log(pi[0,action]) * delta

def critic_loss(self,delta):
    """
    Critic loss aims to minimize TD error
    """
    return delta**2

@tf.function
def learn(self, state, action, reward, next_state, done):
    """
    For a given transition (s,a,s',r) update the paramters by computing the
    gradient of the total loss
    """
    with tf.GradientTape(persistent=True) as tape:
        pi, V_s = self.ac_model(state)
        _, V_s_next = self.ac_model(next_state)

        V_s = tf.squeeze(V_s)
        V_s_next = tf.squeeze(V_s_next)

        ##### TO DO: Write the equation for delta (TD error)
        ## Write code below
        delta = reward+((self.gamma)*V_s_next) - V_s
        loss_a = self.actor_loss(action, pi, delta)
        loss_c = self.critic_loss(delta)
        loss_total = loss_a + loss_c

        gradient = tape.gradient(loss_total, self.ac_model.trainable_variables)
        self.ac_model.optimizer.apply_gradients(zip(gradient, self.ac_model.
↪trainable_variables))

```

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[ ]: import warnings
warnings.filterwarnings("ignore", category=FutureWarning)

def Actor_critic_one_step_return(num_layers, num_neurons_each_layer, ↵
↪LR,num_episodes,seed):
    env = gym.make('CartPole-v1')

    #Initializing Agent
    agent = Agent( action_size=env.action_space.n, num_layers=num_layers, ↵
↪num_neurons_each_layer=num_neurons_each_layer, lr=LR,seed = seed)
    #Number of episodes
    episodes = num_episodes
    tf.compat.v1.reset_default_graph()

```

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reward_list = []
steps = []
ep_solved = num_episodes

begin_time = datetime.datetime.now()

for ep in range(1, episodes + 1):
    state = env.reset().reshape(1,-1)
    done = False
    ep_rew = 0
    T = 0
    while not done:
        T += 1
        action = agent.sample_action(state) ##Sample Action
        next_state, reward, done, info = env.step(action) ##Take action
        next_state = next_state.reshape(1,-1)
        ep_rew += reward ##Updating episode reward
        agent.learn(state, action, reward, next_state, done) ##Update
    Parameters
        state = next_state ##Updating State
        reward_list.append(ep_rew)
        steps.append(T)

    if ep % 10 == 0:
        avg_rew = np.mean(reward_list[-10:])
        print('Episode ', ep, 'Reward %f' % ep_rew, 'Average Reward %f' %
    avg_rew)
        if ep > 1000 and (np.std(reward_list[-500:])*100/np.mean(reward_list[-500:
    ])) < 5:
            ep_solved = num_episodes
            break
    if ep % 100:
        avg_100 = np.mean(reward_list[-100:])
        if avg_100 > 195.0:
            print('Stopped at Episode ', ep-100)
            ep_solved = ep-100
            break

time_taken = datetime.datetime.now() - begin_time
print(time_taken)
return [reward_list, steps, ep_solved]

```

```

[ ]: def calculate_mean(array):
    lens = [len(i) for i in array]
    arr = np.ma.empty((np.max(lens), len(array)))
    arr.mask = True

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for idx, l in enumerate(array):
    arr[:len(l),idx] = l
return arr.mean(axis = -1), arr.std(axis=-1)

```

```

[ ]: import wandb
!wandb login --relogin

import pprint
import numpy as np

sweep_config = {
    'method': 'bayes'
}

metric = {
    'name' : 'num_episodes_tosolve_cartpole_onestep_ac',
    'goal' : 'minimize'
}
sweep_config['metric'] = metric

parameters_dict = {
    'NUM_NEURONS_EACH_LAYER' : {
        'values': [512,1024,724]
    },
    'NUM_LAYERS' : {
        'values': [2,4,8]
    },
    'NUM_EPISODES': {
        'values': [1500,1800,2000]
    }
}
sweep_config['parameters'] = parameters_dict

import math
parameters_dict.update({
    'LR': {
        'distribution': 'uniform',
        'min': (0.00001),
        'max': (0.0001)
    }
})

pprint.pprint(sweep_config)

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sweep_id = wandb.sweep(sweep_config, project="Hyper parameter tuning RL full_
↳return - v1")

def train(config = None):
    with wandb.init(config = config):
        config = wandb.config
        LR = config.LR                ## learning rate
        NUM_NEURONS_EACH_LAYER = config.NUM_NEURONS_EACH_LAYER  ##number of neurons_
↳in each hidden layer
        NUM_LAYERS = config.NUM_LAYERS                ##number of layers for the_
↳neural network
        NUM_EPISODES = config.NUM_EPISODES
        steps_over_10_runs = []
        rewards_over_10_runs = []
        episodes = []
        min_len = np.inf
        for run in range(10):
            print("Run: ",run+1,"_
↳-----")
            env = gym.make('CartPole-v1')

            seed = np.random.randint(low=0, high = 100)
            env.seed(seed)
            state_shape = env.observation_space.shape[0]
            action_shape = env.action_space.n

            begin_time = datetime.datetime.now()    #(num_layers,_
↳num_neurons_each_layer, LR,num_episodes,seed):
            rewards_each_ep, steps_each_ep, episodes_solved =_
↳Actor_critic_one_step_return(NUM_LAYERS,_
↳[NUM_NEURONS_EACH_LAYER]*NUM_LAYERS, LR,NUM_EPISODES,seed)
            steps_over_10_runs.append(steps_each_ep)
            rewards_over_10_runs.append(rewards_each_ep)
            episodes.append(episodes_solved)

            if len(rewards_each_ep) < min_len:
                min_len = len(rewards_each_ep)
            time_taken = datetime.datetime.now() - begin_time

            print(time_taken)

        rewards = np.array(rewards_over_10_runs)
        avg_episodes = int(np.array(episodes).mean())
        steps = np.array(steps_over_10_runs)

```

```

y, error_reward = calculate_mean(rewards)
plt.figure(figsize = (15,5))
plt.subplot(131)
# for i in range(len(rewards_over_10_runs)):
#     plt.plot(np.
↪arange(len(rewards_over_10_runs[i])),rewards_over_10_runs[i],label='run_
↪'+str(i))
    plt.plot(np.arange(len(y[:avg_episodes]))+1, y[:avg_episodes],
↪color='darkblue',label='average')
    plt.title("Episodes vs rewards")
    plt.xlabel("Number of episodes")
    plt.ylabel("Reward per episode")
    plt.legend()
plt.subplot(132)
y, error = calculate_mean(steps)
plt.plot(np.arange(len(y[:avg_episodes]))+1, y[:avg_episodes],
↪color='darkblue',label='average')
    plt.title("Episodes vs steps ")
    plt.xlabel("Number of episodes")
    plt.ylabel("Steps taken per episode")
    plt.legend()
plt.subplot(133)
plt.plot(np.arange(len(error_reward[:avg_episodes]))+1, error_reward[:
↪avg_episodes] , color='darkblue',label= 'Deviation of rewards') #plotting
↪the variance = std squared
    plt.title("Observing Variance per episode")
    plt.xlabel("Number of episodes")
    plt.ylabel("Observed Variance")
    plt.legend()
    plt.savefig('hyp_cartpole_ac_one_step_return'+str(NUM_EPISODES)+str(LR)+'
↪.jpg', dpi = 250)
    plt.show()

for i in range(avg_episodes):
    print("Episode: ",i+1, 'Number of steps: ',round(y[i]))
wandb.log({"num_episodes_tosolve_cartpole_onestep_ac":avg_episodes})

```

wandb: ERROR Find detailed error logs at: c:\Users\CFI
Workstation\Documents\RL\wandb\debug-cli.CFI Workstation.log
Error: api_key not configured (no-tty). call wandb login [your_api_key]

```

{'method': 'bayes',
 'metric': {'goal': 'minimize',
            'name': 'num_episodes_tosolve_cartpole_onestep_ac'},
 'parameters': {'LR': {'distribution': 'uniform', 'max': 0.0001, 'min': 1e-05},
                 'NUM_EPISODES': {'values': [1500, 1800, 2000]},

```

```
'NUM_LAYERS': {'values': [2, 4, 8]},
'NUM_NEURONS_EACH_LAYER': {'values': [512, 1024, 724]}}
```

```
C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
packages\notebook\utils.py:280: DeprecationWarning: distutils Version classes
are deprecated. Use packaging.version instead.
```

```
    return LooseVersion(v) >= LooseVersion(check)
```

```
Failed to detect the name of this notebook, you can set it manually with the
WANDB_NOTEBOOK_NAME environment variable to enable code saving.
```

```
Create sweep with ID: 2thxjnzl
```

```
Sweep URL: https://wandb.ai/me19b190/Hyper%20parameter%20tuning%20RL%20full%20re
turn%20-%20v1/sweeps/2thxjnzl
```

```
[ ]: wandb.agent(sweep_id, train, count=3)
```

```
wandb: Agent Starting Run: qmqgns9q with config:
```

```
wandb: LR: 8.827917164774734e-05
```

```
wandb: NUM_EPISODES: 1800
```

```
wandb: NUM_LAYERS: 8
```

```
wandb: NUM_NEURONS_EACH_LAYER: 724
```

```
Failed to detect the name of this notebook, you can set it manually with the
WANDB_NOTEBOOK_NAME environment variable to enable code saving.
```

```
wandb: Currently logged in as: me19b190. Use `wandb
```

```
login --relogin` to force relogin
```

```
C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
packages\wandb\sdk\lib\ipython.py:47: DeprecationWarning: Importing display from
IPython.core.display is deprecated since IPython 7.14, please import from
IPython display
```

```
    from IPython.core.display import HTML, display # type: ignore
```

```
<IPython.core.display.HTML object>
```

```
<IPython.core.display.HTML object>
```

```
<IPython.core.display.HTML object>
```

```
<IPython.core.display.HTML object>
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```
<IPython.core.display.HTML object>
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<IPython.core.display.HTML object>
```

```
C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
```



```
packages\gym\core.py:317: DeprecationWarning: WARN: Initializing wrapper in
old step API which returns one bool instead of two. It is recommended to set
`new_step_api=True` to use new step API. This will be the default behaviour in
future.
```

```
deprecation(
C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
packages\gym\wrappers\step_api_compatibility.py:39: DeprecationWarning:
WARN: Initializing environment in old step API which returns one bool
instead of two. It is recommended to set `new_step_api=True` to use new step
API. This will be the default behaviour in future.
```

```
deprecation(
C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
packages\gym\core.py:256: DeprecationWarning: WARN: Function
`env.seed(seed)` is marked as deprecated and will be removed in the future.
Please use `env.reset(seed=seed)` instead.
```

```
deprecation(
Run: 1 -----
Episode 10 Reward 21.000000 Average Reward 26.500000
Episode 20 Reward 10.000000 Average Reward 16.800000
Episode 30 Reward 10.000000 Average Reward 9.800000
Episode 40 Reward 12.000000 Average Reward 10.700000
Episode 50 Reward 12.000000 Average Reward 11.400000
Episode 60 Reward 12.000000 Average Reward 11.300000
Episode 70 Reward 16.000000 Average Reward 11.100000
Episode 80 Reward 10.000000 Average Reward 15.100000
Episode 90 Reward 10.000000 Average Reward 9.400000
Episode 100 Reward 10.000000 Average Reward 9.600000
Episode 110 Reward 9.000000 Average Reward 9.400000
Episode 120 Reward 9.000000 Average Reward 9.500000
Episode 130 Reward 9.000000 Average Reward 9.200000
Episode 140 Reward 8.000000 Average Reward 9.200000
Episode 150 Reward 9.000000 Average Reward 9.200000
Episode 160 Reward 10.000000 Average Reward 9.500000
Episode 170 Reward 10.000000 Average Reward 9.500000
Episode 180 Reward 10.000000 Average Reward 9.800000
Episode 190 Reward 9.000000 Average Reward 9.500000
Episode 200 Reward 9.000000 Average Reward 9.700000
Episode 210 Reward 9.000000 Average Reward 9.600000
Episode 220 Reward 9.000000 Average Reward 9.300000
Episode 230 Reward 9.000000 Average Reward 9.300000
Episode 240 Reward 10.000000 Average Reward 9.600000
```

Episode	250	Reward	10.000000	Average Reward	9.700000
Episode	260	Reward	9.000000	Average Reward	9.400000
Episode	270	Reward	10.000000	Average Reward	9.500000
Episode	280	Reward	9.000000	Average Reward	9.300000
Episode	290	Reward	10.000000	Average Reward	9.600000
Episode	300	Reward	9.000000	Average Reward	9.400000
Episode	310	Reward	9.000000	Average Reward	9.600000
Episode	320	Reward	10.000000	Average Reward	9.300000
Episode	330	Reward	9.000000	Average Reward	9.200000
Episode	340	Reward	9.000000	Average Reward	9.300000
Episode	350	Reward	10.000000	Average Reward	9.200000
Episode	360	Reward	13.000000	Average Reward	9.900000
Episode	370	Reward	14.000000	Average Reward	10.900000
Episode	380	Reward	13.000000	Average Reward	13.200000
Episode	390	Reward	19.000000	Average Reward	21.600000
Episode	400	Reward	41.000000	Average Reward	51.000000
Episode	410	Reward	10.000000	Average Reward	52.200000
Episode	420	Reward	10.000000	Average Reward	9.400000
Episode	430	Reward	9.000000	Average Reward	9.300000
Episode	440	Reward	8.000000	Average Reward	9.200000
Episode	450	Reward	10.000000	Average Reward	9.700000
Episode	460	Reward	8.000000	Average Reward	9.000000
Episode	470	Reward	8.000000	Average Reward	9.400000
Episode	480	Reward	10.000000	Average Reward	9.400000
Episode	490	Reward	9.000000	Average Reward	9.300000
Episode	500	Reward	10.000000	Average Reward	9.200000
Episode	510	Reward	9.000000	Average Reward	9.800000
Episode	520	Reward	10.000000	Average Reward	9.600000
Episode	530	Reward	10.000000	Average Reward	9.700000
Episode	540	Reward	11.000000	Average Reward	9.400000
Episode	550	Reward	11.000000	Average Reward	9.800000
Episode	560	Reward	10.000000	Average Reward	9.400000
Episode	570	Reward	9.000000	Average Reward	9.300000
Episode	580	Reward	10.000000	Average Reward	9.100000
Episode	590	Reward	8.000000	Average Reward	9.100000
Episode	600	Reward	10.000000	Average Reward	9.400000
Episode	610	Reward	9.000000	Average Reward	9.100000
Episode	620	Reward	10.000000	Average Reward	9.300000
Episode	630	Reward	9.000000	Average Reward	9.700000
Episode	640	Reward	9.000000	Average Reward	9.900000
Episode	650	Reward	10.000000	Average Reward	9.400000
Episode	660	Reward	10.000000	Average Reward	9.500000
Episode	670	Reward	9.000000	Average Reward	9.300000
Episode	680	Reward	9.000000	Average Reward	9.200000
Episode	690	Reward	9.000000	Average Reward	9.700000
Episode	700	Reward	10.000000	Average Reward	9.200000
Episode	710	Reward	10.000000	Average Reward	9.000000
Episode	720	Reward	10.000000	Average Reward	9.200000

Episode	730	Reward	9.000000	Average	Reward	9.100000
Episode	740	Reward	8.000000	Average	Reward	9.400000
Episode	750	Reward	8.000000	Average	Reward	9.200000
Episode	760	Reward	9.000000	Average	Reward	9.300000
Episode	770	Reward	9.000000	Average	Reward	9.000000
Episode	780	Reward	9.000000	Average	Reward	9.700000
Episode	790	Reward	8.000000	Average	Reward	9.100000
Episode	800	Reward	8.000000	Average	Reward	9.200000
Episode	810	Reward	8.000000	Average	Reward	9.300000
Episode	820	Reward	15.000000	Average	Reward	10.400000
Episode	830	Reward	20.000000	Average	Reward	19.500000
Episode	840	Reward	26.000000	Average	Reward	19.400000
Episode	850	Reward	11.000000	Average	Reward	19.300000
Episode	860	Reward	24.000000	Average	Reward	26.500000
Episode	870	Reward	13.000000	Average	Reward	25.000000
Episode	880	Reward	10.000000	Average	Reward	15.600000
Episode	890	Reward	169.000000	Average	Reward	41.200000
Episode	900	Reward	120.000000	Average	Reward	138.500000
Episode	910	Reward	10.000000	Average	Reward	108.700000
Episode	920	Reward	8.000000	Average	Reward	9.200000
Episode	930	Reward	10.000000	Average	Reward	9.500000
Episode	940	Reward	8.000000	Average	Reward	9.000000
Episode	950	Reward	10.000000	Average	Reward	9.500000
Episode	960	Reward	9.000000	Average	Reward	9.000000
Episode	970	Reward	11.000000	Average	Reward	9.300000
Episode	980	Reward	10.000000	Average	Reward	9.400000
Episode	990	Reward	9.000000	Average	Reward	9.300000
Episode	1000	Reward	10.000000	Average	Reward	9.400000
Episode	1010	Reward	9.000000	Average	Reward	9.300000
Episode	1020	Reward	9.000000	Average	Reward	9.400000
Episode	1030	Reward	10.000000	Average	Reward	9.500000
Episode	1040	Reward	10.000000	Average	Reward	9.600000
Episode	1050	Reward	10.000000	Average	Reward	9.300000
Episode	1060	Reward	10.000000	Average	Reward	9.400000
Episode	1070	Reward	9.000000	Average	Reward	9.800000
Episode	1080	Reward	10.000000	Average	Reward	9.400000
Episode	1090	Reward	10.000000	Average	Reward	9.500000
Episode	1100	Reward	8.000000	Average	Reward	9.500000
Episode	1110	Reward	8.000000	Average	Reward	9.300000
Episode	1120	Reward	10.000000	Average	Reward	9.700000
Episode	1130	Reward	9.000000	Average	Reward	9.100000
Episode	1140	Reward	10.000000	Average	Reward	9.200000
Episode	1150	Reward	10.000000	Average	Reward	9.400000
Episode	1160	Reward	10.000000	Average	Reward	9.600000
Episode	1170	Reward	10.000000	Average	Reward	9.800000
Episode	1180	Reward	10.000000	Average	Reward	9.500000
Episode	1190	Reward	8.000000	Average	Reward	9.200000
Episode	1200	Reward	9.000000	Average	Reward	9.500000

Episode	1210	Reward	9.000000	Average Reward	9.200000
Episode	1220	Reward	10.000000	Average Reward	9.800000
Episode	1230	Reward	11.000000	Average Reward	9.700000
Episode	1240	Reward	11.000000	Average Reward	9.500000
Episode	1250	Reward	10.000000	Average Reward	9.400000
Episode	1260	Reward	10.000000	Average Reward	9.600000
Episode	1270	Reward	10.000000	Average Reward	9.500000
Episode	1280	Reward	9.000000	Average Reward	9.700000
Episode	1290	Reward	9.000000	Average Reward	9.100000
Episode	1300	Reward	9.000000	Average Reward	9.300000
Episode	1310	Reward	9.000000	Average Reward	9.300000
Episode	1320	Reward	10.000000	Average Reward	9.600000
Episode	1330	Reward	11.000000	Average Reward	9.300000
Episode	1340	Reward	10.000000	Average Reward	9.600000
Episode	1350	Reward	10.000000	Average Reward	9.700000
Episode	1360	Reward	10.000000	Average Reward	9.400000
Episode	1370	Reward	9.000000	Average Reward	9.400000
Episode	1380	Reward	10.000000	Average Reward	9.300000
Episode	1390	Reward	10.000000	Average Reward	9.200000
Episode	1400	Reward	8.000000	Average Reward	9.300000
Episode	1410	Reward	9.000000	Average Reward	9.000000
Episode	1420	Reward	8.000000	Average Reward	9.000000
Episode	1430	Reward	10.000000	Average Reward	9.300000
Episode	1440	Reward	10.000000	Average Reward	9.700000
Episode	1450	Reward	9.000000	Average Reward	9.500000
Episode	1460	Reward	10.000000	Average Reward	9.300000
Episode	1470	Reward	10.000000	Average Reward	9.400000
Episode	1480	Reward	10.000000	Average Reward	9.300000
Episode	1490	Reward	10.000000	Average Reward	9.400000
Episode	1500	Reward	10.000000	Average Reward	9.700000
Episode	1510	Reward	9.000000	Average Reward	9.400000
Episode	1520	Reward	10.000000	Average Reward	9.100000
Episode	1530	Reward	11.000000	Average Reward	9.500000
Episode	1540	Reward	9.000000	Average Reward	9.200000
Episode	1550	Reward	8.000000	Average Reward	9.100000
Episode	1560	Reward	9.000000	Average Reward	9.200000
Episode	1570	Reward	10.000000	Average Reward	9.300000
Episode	1580	Reward	9.000000	Average Reward	9.400000
Episode	1590	Reward	10.000000	Average Reward	9.200000
Episode	1600	Reward	9.000000	Average Reward	9.500000
Episode	1610	Reward	10.000000	Average Reward	9.600000
Episode	1620	Reward	8.000000	Average Reward	9.500000
Episode	1630	Reward	11.000000	Average Reward	9.300000
Episode	1640	Reward	8.000000	Average Reward	8.900000
Episode	1650	Reward	9.000000	Average Reward	9.300000
Episode	1660	Reward	10.000000	Average Reward	9.300000
Episode	1670	Reward	9.000000	Average Reward	9.500000
Episode	1680	Reward	9.000000	Average Reward	9.600000

Episode 1690 Reward 8.000000 Average Reward 9.200000
Episode 1700 Reward 8.000000 Average Reward 9.200000
Episode 1710 Reward 9.000000 Average Reward 9.200000
Episode 1720 Reward 10.000000 Average Reward 9.600000
Episode 1730 Reward 9.000000 Average Reward 9.200000
Episode 1740 Reward 9.000000 Average Reward 9.600000
Episode 1750 Reward 9.000000 Average Reward 9.100000
Episode 1760 Reward 8.000000 Average Reward 9.400000
Episode 1770 Reward 10.000000 Average Reward 9.600000
Episode 1780 Reward 9.000000 Average Reward 9.300000
Episode 1790 Reward 9.000000 Average Reward 9.600000
Episode 1800 Reward 9.000000 Average Reward 9.400000

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0:09:40.533754

Run: 2 -----

Episode 10 Reward 36.000000 Average Reward 23.600000
Episode 20 Reward 54.000000 Average Reward 30.700000
Episode 30 Reward 71.000000 Average Reward 88.300000
Episode 40 Reward 9.000000 Average Reward 58.800000
Episode 50 Reward 10.000000 Average Reward 9.200000
Episode 60 Reward 9.000000 Average Reward 9.500000
Episode 70 Reward 9.000000 Average Reward 9.500000
Episode 80 Reward 10.000000 Average Reward 9.300000
Episode 90 Reward 9.000000 Average Reward 9.500000
Episode 100 Reward 10.000000 Average Reward 9.600000
Episode 110 Reward 10.000000 Average Reward 9.300000
Episode 120 Reward 9.000000 Average Reward 9.400000
Episode 130 Reward 10.000000 Average Reward 9.600000
Episode 140 Reward 8.000000 Average Reward 9.300000
Episode 150 Reward 9.000000 Average Reward 9.200000
Episode 160 Reward 10.000000 Average Reward 9.300000
Episode 170 Reward 9.000000 Average Reward 9.600000
Episode 180 Reward 10.000000 Average Reward 9.100000
Episode 190 Reward 9.000000 Average Reward 9.500000
Episode 200 Reward 9.000000 Average Reward 9.600000
Episode 210 Reward 8.000000 Average Reward 9.400000
Episode 220 Reward 9.000000 Average Reward 9.500000
Episode 230 Reward 10.000000 Average Reward 9.400000
Episode 240 Reward 10.000000 Average Reward 9.300000
Episode 250 Reward 10.000000 Average Reward 9.300000
Episode 260 Reward 10.000000 Average Reward 9.500000
Episode 270 Reward 9.000000 Average Reward 9.400000
Episode 280 Reward 9.000000 Average Reward 9.400000
Episode 290 Reward 8.000000 Average Reward 9.000000
Episode 300 Reward 9.000000 Average Reward 9.100000
Episode 310 Reward 8.000000 Average Reward 9.700000
Episode 320 Reward 11.000000 Average Reward 9.300000
Episode 330 Reward 9.000000 Average Reward 9.300000

Episode	340	Reward	8.000000	Average	Reward	9.300000
Episode	350	Reward	9.000000	Average	Reward	9.400000
Episode	360	Reward	8.000000	Average	Reward	9.500000
Episode	370	Reward	10.000000	Average	Reward	9.600000
Episode	380	Reward	8.000000	Average	Reward	9.300000
Episode	390	Reward	8.000000	Average	Reward	9.300000
Episode	400	Reward	9.000000	Average	Reward	9.200000
Episode	410	Reward	10.000000	Average	Reward	9.500000
Episode	420	Reward	10.000000	Average	Reward	9.400000
Episode	430	Reward	9.000000	Average	Reward	9.100000
Episode	440	Reward	8.000000	Average	Reward	9.300000
Episode	450	Reward	9.000000	Average	Reward	9.400000
Episode	460	Reward	10.000000	Average	Reward	9.100000
Episode	470	Reward	10.000000	Average	Reward	9.600000
Episode	480	Reward	10.000000	Average	Reward	9.200000
Episode	490	Reward	10.000000	Average	Reward	9.400000
Episode	500	Reward	8.000000	Average	Reward	9.300000
Episode	510	Reward	10.000000	Average	Reward	9.200000
Episode	520	Reward	10.000000	Average	Reward	9.300000
Episode	530	Reward	9.000000	Average	Reward	9.600000
Episode	540	Reward	9.000000	Average	Reward	9.200000
Episode	550	Reward	10.000000	Average	Reward	9.300000
Episode	560	Reward	10.000000	Average	Reward	9.300000
Episode	570	Reward	9.000000	Average	Reward	9.400000
Episode	580	Reward	10.000000	Average	Reward	9.400000
Episode	590	Reward	9.000000	Average	Reward	9.400000
Episode	600	Reward	9.000000	Average	Reward	9.200000
Episode	610	Reward	9.000000	Average	Reward	9.200000
Episode	620	Reward	10.000000	Average	Reward	9.200000
Episode	630	Reward	8.000000	Average	Reward	9.300000
Episode	640	Reward	8.000000	Average	Reward	9.000000
Episode	650	Reward	9.000000	Average	Reward	9.400000
Episode	660	Reward	9.000000	Average	Reward	9.400000
Episode	670	Reward	9.000000	Average	Reward	9.000000
Episode	680	Reward	8.000000	Average	Reward	9.300000
Episode	690	Reward	10.000000	Average	Reward	9.600000
Episode	700	Reward	10.000000	Average	Reward	9.400000
Episode	710	Reward	10.000000	Average	Reward	9.200000
Episode	720	Reward	11.000000	Average	Reward	9.300000
Episode	730	Reward	9.000000	Average	Reward	9.300000
Episode	740	Reward	9.000000	Average	Reward	9.000000
Episode	750	Reward	10.000000	Average	Reward	9.300000
Episode	760	Reward	9.000000	Average	Reward	9.300000
Episode	770	Reward	10.000000	Average	Reward	9.500000
Episode	780	Reward	9.000000	Average	Reward	9.800000
Episode	790	Reward	9.000000	Average	Reward	9.100000
Episode	800	Reward	10.000000	Average	Reward	9.400000
Episode	810	Reward	10.000000	Average	Reward	9.300000

Episode 820 Reward 10.000000 Average Reward 9.500000
Episode 830 Reward 9.000000 Average Reward 9.300000
Episode 840 Reward 10.000000 Average Reward 9.500000
Episode 850 Reward 9.000000 Average Reward 9.100000
Episode 860 Reward 9.000000 Average Reward 9.300000
Episode 870 Reward 10.000000 Average Reward 9.600000
Episode 880 Reward 10.000000 Average Reward 9.500000
Episode 890 Reward 10.000000 Average Reward 9.300000
Episode 900 Reward 10.000000 Average Reward 9.500000
Episode 910 Reward 9.000000 Average Reward 9.200000
Episode 920 Reward 10.000000 Average Reward 9.400000
Episode 930 Reward 10.000000 Average Reward 9.400000
Episode 940 Reward 10.000000 Average Reward 9.700000
Episode 950 Reward 8.000000 Average Reward 9.400000
Episode 960 Reward 10.000000 Average Reward 9.300000
Episode 970 Reward 10.000000 Average Reward 9.500000
Episode 980 Reward 10.000000 Average Reward 9.200000
Episode 990 Reward 9.000000 Average Reward 9.300000
Episode 1000 Reward 9.000000 Average Reward 9.400000
Episode 1010 Reward 8.000000 Average Reward 9.100000
Episode 1020 Reward 10.000000 Average Reward 9.700000
Episode 1030 Reward 10.000000 Average Reward 9.500000
Episode 1040 Reward 9.000000 Average Reward 9.300000
Episode 1050 Reward 10.000000 Average Reward 9.000000
Episode 1060 Reward 8.000000 Average Reward 9.300000
Episode 1070 Reward 9.000000 Average Reward 9.000000
Episode 1080 Reward 8.000000 Average Reward 8.900000
Episode 1090 Reward 8.000000 Average Reward 9.600000
Episode 1100 Reward 10.000000 Average Reward 9.400000
Episode 1110 Reward 10.000000 Average Reward 9.700000
Episode 1120 Reward 10.000000 Average Reward 9.100000
Episode 1130 Reward 10.000000 Average Reward 9.500000
Episode 1140 Reward 9.000000 Average Reward 9.300000
Episode 1150 Reward 10.000000 Average Reward 9.200000
Episode 1160 Reward 10.000000 Average Reward 9.400000
Episode 1170 Reward 10.000000 Average Reward 9.400000
Episode 1180 Reward 8.000000 Average Reward 9.300000
Episode 1190 Reward 8.000000 Average Reward 9.200000
Episode 1200 Reward 8.000000 Average Reward 9.300000
Episode 1210 Reward 10.000000 Average Reward 9.700000
Episode 1220 Reward 9.000000 Average Reward 9.300000
Episode 1230 Reward 9.000000 Average Reward 9.300000
Episode 1240 Reward 9.000000 Average Reward 9.400000
Episode 1250 Reward 8.000000 Average Reward 8.900000
Episode 1260 Reward 9.000000 Average Reward 9.000000
Episode 1270 Reward 9.000000 Average Reward 9.400000
Episode 1280 Reward 10.000000 Average Reward 9.600000
Episode 1290 Reward 10.000000 Average Reward 9.700000

Episode	1300	Reward	9.000000	Average	Reward	9.400000
Episode	1310	Reward	9.000000	Average	Reward	9.300000
Episode	1320	Reward	9.000000	Average	Reward	9.200000
Episode	1330	Reward	10.000000	Average	Reward	9.100000
Episode	1340	Reward	9.000000	Average	Reward	9.400000
Episode	1350	Reward	10.000000	Average	Reward	9.400000
Episode	1360	Reward	9.000000	Average	Reward	9.100000
Episode	1370	Reward	10.000000	Average	Reward	9.200000
Episode	1380	Reward	9.000000	Average	Reward	9.000000
Episode	1390	Reward	9.000000	Average	Reward	9.500000
Episode	1400	Reward	10.000000	Average	Reward	9.400000
Episode	1410	Reward	10.000000	Average	Reward	9.300000
Episode	1420	Reward	10.000000	Average	Reward	9.800000
Episode	1430	Reward	10.000000	Average	Reward	9.700000
Episode	1440	Reward	9.000000	Average	Reward	9.800000
Episode	1450	Reward	8.000000	Average	Reward	9.400000
Episode	1460	Reward	9.000000	Average	Reward	9.300000
Episode	1470	Reward	9.000000	Average	Reward	9.700000
Episode	1480	Reward	9.000000	Average	Reward	9.200000
Episode	1490	Reward	9.000000	Average	Reward	8.800000
Episode	1500	Reward	10.000000	Average	Reward	9.200000
Episode	1510	Reward	9.000000	Average	Reward	9.500000
Episode	1520	Reward	11.000000	Average	Reward	9.300000
Episode	1530	Reward	10.000000	Average	Reward	9.400000
Episode	1540	Reward	10.000000	Average	Reward	9.000000
Episode	1550	Reward	10.000000	Average	Reward	9.500000
Episode	1560	Reward	9.000000	Average	Reward	9.200000
Episode	1570	Reward	10.000000	Average	Reward	9.200000
Episode	1580	Reward	10.000000	Average	Reward	9.600000
Episode	1590	Reward	9.000000	Average	Reward	9.400000
Episode	1600	Reward	9.000000	Average	Reward	9.100000
Episode	1610	Reward	8.000000	Average	Reward	9.000000
Episode	1620	Reward	10.000000	Average	Reward	9.900000
Episode	1630	Reward	10.000000	Average	Reward	9.700000
Episode	1640	Reward	10.000000	Average	Reward	9.300000
Episode	1650	Reward	9.000000	Average	Reward	9.200000
Episode	1660	Reward	9.000000	Average	Reward	9.600000
Episode	1670	Reward	9.000000	Average	Reward	9.400000
Episode	1680	Reward	9.000000	Average	Reward	9.100000
Episode	1690	Reward	10.000000	Average	Reward	9.300000
Episode	1700	Reward	8.000000	Average	Reward	9.200000
Episode	1710	Reward	9.000000	Average	Reward	9.500000
Episode	1720	Reward	8.000000	Average	Reward	9.200000
Episode	1730	Reward	9.000000	Average	Reward	9.000000
Episode	1740	Reward	8.000000	Average	Reward	9.200000
Episode	1750	Reward	9.000000	Average	Reward	9.100000
Episode	1760	Reward	9.000000	Average	Reward	9.200000
Episode	1770	Reward	8.000000	Average	Reward	9.000000

Episode 1780 Reward 10.000000 Average Reward 9.300000
Episode 1790 Reward 9.000000 Average Reward 9.600000
Episode 1800 Reward 8.000000 Average Reward 9.400000
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0:08:02.123425

Run: 3 -----
Episode 10 Reward 12.000000 Average Reward 21.100000
Episode 20 Reward 53.000000 Average Reward 27.100000
Episode 30 Reward 39.000000 Average Reward 104.500000
Episode 40 Reward 9.000000 Average Reward 13.300000
Episode 50 Reward 9.000000 Average Reward 9.300000
Episode 60 Reward 8.000000 Average Reward 9.200000
Episode 70 Reward 10.000000 Average Reward 9.200000
Episode 80 Reward 10.000000 Average Reward 9.200000
Episode 90 Reward 9.000000 Average Reward 9.000000
Episode 100 Reward 9.000000 Average Reward 9.400000
Episode 110 Reward 10.000000 Average Reward 9.500000
Episode 120 Reward 8.000000 Average Reward 9.300000
Episode 130 Reward 8.000000 Average Reward 9.000000
Episode 140 Reward 10.000000 Average Reward 9.200000
Episode 150 Reward 10.000000 Average Reward 9.400000
Episode 160 Reward 9.000000 Average Reward 9.000000
Episode 170 Reward 10.000000 Average Reward 9.200000
Episode 180 Reward 10.000000 Average Reward 9.200000
Episode 190 Reward 8.000000 Average Reward 9.500000
Episode 200 Reward 11.000000 Average Reward 9.600000
Episode 210 Reward 9.000000 Average Reward 10.300000
Episode 220 Reward 12.000000 Average Reward 15.700000
Episode 230 Reward 10.000000 Average Reward 13.900000
Episode 240 Reward 9.000000 Average Reward 9.400000
Episode 250 Reward 9.000000 Average Reward 9.100000
Episode 260 Reward 10.000000 Average Reward 9.400000
Episode 270 Reward 9.000000 Average Reward 9.400000
Episode 280 Reward 10.000000 Average Reward 9.100000
Episode 290 Reward 8.000000 Average Reward 9.400000
Episode 300 Reward 10.000000 Average Reward 9.400000
Episode 310 Reward 10.000000 Average Reward 9.500000
Episode 320 Reward 10.000000 Average Reward 9.500000
Episode 330 Reward 10.000000 Average Reward 9.200000
Episode 340 Reward 9.000000 Average Reward 9.200000
Episode 350 Reward 10.000000 Average Reward 9.300000
Episode 360 Reward 9.000000 Average Reward 9.400000
Episode 370 Reward 10.000000 Average Reward 9.600000
Episode 380 Reward 9.000000 Average Reward 9.600000
Episode 390 Reward 10.000000 Average Reward 9.300000
Episode 400 Reward 10.000000 Average Reward 9.400000
Episode 410 Reward 10.000000 Average Reward 9.100000
Episode 420 Reward 10.000000 Average Reward 9.300000

Episode	430	Reward	9.000000	Average	Reward	9.300000
Episode	440	Reward	9.000000	Average	Reward	9.300000
Episode	450	Reward	9.000000	Average	Reward	9.600000
Episode	460	Reward	9.000000	Average	Reward	9.500000
Episode	470	Reward	9.000000	Average	Reward	9.300000
Episode	480	Reward	9.000000	Average	Reward	9.700000
Episode	490	Reward	10.000000	Average	Reward	9.200000
Episode	500	Reward	9.000000	Average	Reward	9.100000
Episode	510	Reward	10.000000	Average	Reward	9.400000
Episode	520	Reward	10.000000	Average	Reward	9.300000
Episode	530	Reward	9.000000	Average	Reward	9.600000
Episode	540	Reward	8.000000	Average	Reward	9.100000
Episode	550	Reward	9.000000	Average	Reward	9.400000
Episode	560	Reward	10.000000	Average	Reward	9.100000
Episode	570	Reward	9.000000	Average	Reward	9.400000
Episode	580	Reward	10.000000	Average	Reward	9.900000
Episode	590	Reward	10.000000	Average	Reward	9.600000
Episode	600	Reward	9.000000	Average	Reward	9.200000
Episode	610	Reward	9.000000	Average	Reward	9.100000
Episode	620	Reward	9.000000	Average	Reward	9.500000
Episode	630	Reward	9.000000	Average	Reward	9.200000
Episode	640	Reward	10.000000	Average	Reward	9.500000
Episode	650	Reward	9.000000	Average	Reward	9.300000
Episode	660	Reward	9.000000	Average	Reward	8.800000
Episode	670	Reward	8.000000	Average	Reward	9.100000
Episode	680	Reward	10.000000	Average	Reward	9.300000
Episode	690	Reward	10.000000	Average	Reward	9.400000
Episode	700	Reward	8.000000	Average	Reward	9.100000
Episode	710	Reward	9.000000	Average	Reward	9.700000
Episode	720	Reward	9.000000	Average	Reward	9.300000
Episode	730	Reward	10.000000	Average	Reward	9.400000
Episode	740	Reward	9.000000	Average	Reward	9.100000
Episode	750	Reward	8.000000	Average	Reward	9.300000
Episode	760	Reward	10.000000	Average	Reward	9.600000
Episode	770	Reward	9.000000	Average	Reward	9.400000
Episode	780	Reward	9.000000	Average	Reward	9.400000
Episode	790	Reward	10.000000	Average	Reward	10.000000
Episode	800	Reward	10.000000	Average	Reward	9.200000
Episode	810	Reward	10.000000	Average	Reward	9.300000
Episode	820	Reward	9.000000	Average	Reward	9.500000
Episode	830	Reward	9.000000	Average	Reward	9.400000
Episode	840	Reward	9.000000	Average	Reward	9.400000
Episode	850	Reward	10.000000	Average	Reward	9.700000
Episode	860	Reward	9.000000	Average	Reward	9.300000
Episode	870	Reward	10.000000	Average	Reward	9.400000
Episode	880	Reward	10.000000	Average	Reward	9.300000
Episode	890	Reward	11.000000	Average	Reward	9.400000
Episode	900	Reward	9.000000	Average	Reward	9.300000

Episode 910 Reward 9.000000 Average Reward 9.200000
Episode 920 Reward 10.000000 Average Reward 9.200000
Episode 930 Reward 9.000000 Average Reward 9.500000
Episode 940 Reward 9.000000 Average Reward 9.500000
Episode 950 Reward 10.000000 Average Reward 9.300000
Episode 960 Reward 9.000000 Average Reward 9.000000
Episode 970 Reward 8.000000 Average Reward 9.600000
Episode 980 Reward 9.000000 Average Reward 9.600000
Episode 990 Reward 10.000000 Average Reward 9.100000
Episode 1000 Reward 9.000000 Average Reward 9.000000
Episode 1010 Reward 10.000000 Average Reward 9.100000
Episode 1020 Reward 8.000000 Average Reward 9.500000
Episode 1030 Reward 9.000000 Average Reward 10.000000
Episode 1040 Reward 9.000000 Average Reward 9.400000
Episode 1050 Reward 10.000000 Average Reward 9.800000
Episode 1060 Reward 32.000000 Average Reward 16.800000
Episode 1070 Reward 45.000000 Average Reward 92.500000
Episode 1080 Reward 8.000000 Average Reward 107.600000
Episode 1090 Reward 9.000000 Average Reward 9.300000
Episode 1100 Reward 9.000000 Average Reward 9.500000
Episode 1110 Reward 9.000000 Average Reward 9.400000
Episode 1120 Reward 9.000000 Average Reward 9.500000
Episode 1130 Reward 10.000000 Average Reward 9.600000
Episode 1140 Reward 8.000000 Average Reward 9.300000
Episode 1150 Reward 8.000000 Average Reward 9.500000
Episode 1160 Reward 8.000000 Average Reward 8.900000
Episode 1170 Reward 9.000000 Average Reward 9.400000
Episode 1180 Reward 9.000000 Average Reward 9.300000
Episode 1190 Reward 10.000000 Average Reward 9.300000
Episode 1200 Reward 10.000000 Average Reward 9.200000
Episode 1210 Reward 10.000000 Average Reward 9.200000
Episode 1220 Reward 9.000000 Average Reward 9.400000
Episode 1230 Reward 9.000000 Average Reward 9.300000
Episode 1240 Reward 11.000000 Average Reward 9.300000
Episode 1250 Reward 10.000000 Average Reward 9.300000
Episode 1260 Reward 10.000000 Average Reward 9.300000
Episode 1270 Reward 10.000000 Average Reward 9.800000
Episode 1280 Reward 10.000000 Average Reward 9.000000
Episode 1290 Reward 9.000000 Average Reward 9.100000
Episode 1300 Reward 11.000000 Average Reward 9.600000
Episode 1310 Reward 10.000000 Average Reward 9.700000
Episode 1320 Reward 9.000000 Average Reward 9.000000
Episode 1330 Reward 10.000000 Average Reward 9.300000
Episode 1340 Reward 9.000000 Average Reward 9.300000
Episode 1350 Reward 9.000000 Average Reward 9.400000
Episode 1360 Reward 9.000000 Average Reward 9.800000
Episode 1370 Reward 10.000000 Average Reward 9.400000
Episode 1380 Reward 9.000000 Average Reward 9.300000

Episode 1390 Reward 9.000000 Average Reward 9.100000
 Episode 1400 Reward 9.000000 Average Reward 9.400000
 Episode 1410 Reward 10.000000 Average Reward 9.700000
 Episode 1420 Reward 9.000000 Average Reward 9.000000
 Episode 1430 Reward 9.000000 Average Reward 9.300000
 Episode 1440 Reward 9.000000 Average Reward 9.400000
 Episode 1450 Reward 9.000000 Average Reward 9.400000
 Episode 1460 Reward 9.000000 Average Reward 9.500000
 Episode 1470 Reward 9.000000 Average Reward 9.400000
 Episode 1480 Reward 10.000000 Average Reward 9.500000
 Episode 1490 Reward 9.000000 Average Reward 9.400000
 Episode 1500 Reward 9.000000 Average Reward 9.300000
 Episode 1510 Reward 9.000000 Average Reward 9.500000
 Episode 1520 Reward 9.000000 Average Reward 9.400000
 Episode 1530 Reward 8.000000 Average Reward 9.300000
 Episode 1540 Reward 10.000000 Average Reward 9.500000
 Episode 1550 Reward 9.000000 Average Reward 9.100000
 Episode 1560 Reward 10.000000 Average Reward 9.000000
 Episode 1570 Reward 10.000000 Average Reward 9.100000
 Episode 1580 Reward 10.000000 Average Reward 9.400000
 Episode 1590 Reward 9.000000 Average Reward 9.300000
 Episode 1600 Reward 8.000000 Average Reward 9.300000
 Episode 1610 Reward 9.000000 Average Reward 9.300000
 Episode 1620 Reward 8.000000 Average Reward 9.800000
 Episode 1630 Reward 8.000000 Average Reward 9.200000
 Episode 1640 Reward 9.000000 Average Reward 9.500000
 Episode 1650 Reward 10.000000 Average Reward 9.400000
 Episode 1660 Reward 9.000000 Average Reward 9.200000
 Episode 1670 Reward 8.000000 Average Reward 9.400000
 Episode 1680 Reward 9.000000 Average Reward 9.400000
 Episode 1690 Reward 10.000000 Average Reward 9.700000
 Episode 1700 Reward 9.000000 Average Reward 9.300000
 Episode 1710 Reward 10.000000 Average Reward 9.500000
 Episode 1720 Reward 10.000000 Average Reward 9.500000
 Episode 1730 Reward 8.000000 Average Reward 9.200000
 Episode 1740 Reward 9.000000 Average Reward 9.300000
 Episode 1750 Reward 8.000000 Average Reward 8.700000
 Episode 1760 Reward 10.000000 Average Reward 9.000000
 Episode 1770 Reward 9.000000 Average Reward 9.400000
 Episode 1780 Reward 9.000000 Average Reward 9.300000
 Episode 1790 Reward 10.000000 Average Reward 9.600000
 Episode 1800 Reward 10.000000 Average Reward 9.500000

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Run: 4 -----

Episode 10 Reward 12.000000 Average Reward 15.300000
 Episode 20 Reward 44.000000 Average Reward 23.200000
 Episode 30 Reward 12.000000 Average Reward 22.500000

Episode 40 Reward 53.000000 Average Reward 52.700000
Episode 50 Reward 9.000000 Average Reward 9.000000
Episode 60 Reward 10.000000 Average Reward 9.400000
Episode 70 Reward 10.000000 Average Reward 10.000000
Episode 80 Reward 9.000000 Average Reward 10.000000
Episode 90 Reward 10.000000 Average Reward 9.500000
Episode 100 Reward 9.000000 Average Reward 10.400000
Episode 110 Reward 9.000000 Average Reward 10.100000
Episode 120 Reward 11.000000 Average Reward 9.700000
Episode 130 Reward 30.000000 Average Reward 19.800000
Episode 140 Reward 55.000000 Average Reward 33.800000
Episode 150 Reward 27.000000 Average Reward 26.600000
Episode 160 Reward 36.000000 Average Reward 19.600000
Episode 170 Reward 23.000000 Average Reward 20.300000
Episode 180 Reward 10.000000 Average Reward 15.400000
Episode 190 Reward 23.000000 Average Reward 19.400000
Episode 200 Reward 8.000000 Average Reward 18.500000
Episode 210 Reward 9.000000 Average Reward 9.300000
Episode 220 Reward 10.000000 Average Reward 9.200000
Episode 230 Reward 9.000000 Average Reward 9.400000
Episode 240 Reward 10.000000 Average Reward 9.600000
Episode 250 Reward 9.000000 Average Reward 9.300000
Episode 260 Reward 10.000000 Average Reward 9.700000
Episode 270 Reward 9.000000 Average Reward 9.500000
Episode 280 Reward 10.000000 Average Reward 9.200000
Episode 290 Reward 9.000000 Average Reward 9.500000
Episode 300 Reward 10.000000 Average Reward 9.200000
Episode 310 Reward 10.000000 Average Reward 9.500000
Episode 320 Reward 10.000000 Average Reward 9.400000
Episode 330 Reward 10.000000 Average Reward 9.100000
Episode 340 Reward 8.000000 Average Reward 9.400000
Episode 350 Reward 8.000000 Average Reward 9.300000
Episode 360 Reward 8.000000 Average Reward 9.200000
Episode 370 Reward 9.000000 Average Reward 9.300000
Episode 380 Reward 10.000000 Average Reward 9.400000
Episode 390 Reward 10.000000 Average Reward 9.100000
Episode 400 Reward 10.000000 Average Reward 8.900000
Episode 410 Reward 10.000000 Average Reward 9.300000
Episode 420 Reward 10.000000 Average Reward 9.900000
Episode 430 Reward 10.000000 Average Reward 9.600000
Episode 440 Reward 9.000000 Average Reward 9.400000
Episode 450 Reward 9.000000 Average Reward 8.900000
Episode 460 Reward 9.000000 Average Reward 9.300000
Episode 470 Reward 10.000000 Average Reward 9.700000
Episode 480 Reward 10.000000 Average Reward 9.200000
Episode 490 Reward 10.000000 Average Reward 9.300000
Episode 500 Reward 9.000000 Average Reward 9.500000
Episode 510 Reward 10.000000 Average Reward 9.500000

Episode	520	Reward	10.000000	Average	Reward	9.200000
Episode	530	Reward	11.000000	Average	Reward	9.400000
Episode	540	Reward	11.000000	Average	Reward	9.700000
Episode	550	Reward	9.000000	Average	Reward	9.800000
Episode	560	Reward	10.000000	Average	Reward	9.900000
Episode	570	Reward	10.000000	Average	Reward	9.100000
Episode	580	Reward	9.000000	Average	Reward	9.500000
Episode	590	Reward	10.000000	Average	Reward	9.600000
Episode	600	Reward	9.000000	Average	Reward	9.100000
Episode	610	Reward	9.000000	Average	Reward	9.400000
Episode	620	Reward	8.000000	Average	Reward	9.400000
Episode	630	Reward	9.000000	Average	Reward	9.100000
Episode	640	Reward	10.000000	Average	Reward	9.700000
Episode	650	Reward	11.000000	Average	Reward	9.200000
Episode	660	Reward	9.000000	Average	Reward	8.900000
Episode	670	Reward	10.000000	Average	Reward	9.600000
Episode	680	Reward	9.000000	Average	Reward	9.000000
Episode	690	Reward	10.000000	Average	Reward	9.700000
Episode	700	Reward	9.000000	Average	Reward	9.000000
Episode	710	Reward	9.000000	Average	Reward	9.100000
Episode	720	Reward	8.000000	Average	Reward	9.200000
Episode	730	Reward	9.000000	Average	Reward	9.100000
Episode	740	Reward	9.000000	Average	Reward	9.200000
Episode	750	Reward	8.000000	Average	Reward	9.800000
Episode	760	Reward	10.000000	Average	Reward	9.600000
Episode	770	Reward	8.000000	Average	Reward	9.200000
Episode	780	Reward	9.000000	Average	Reward	9.200000
Episode	790	Reward	8.000000	Average	Reward	9.000000
Episode	800	Reward	9.000000	Average	Reward	9.400000
Episode	810	Reward	10.000000	Average	Reward	9.100000
Episode	820	Reward	8.000000	Average	Reward	9.500000
Episode	830	Reward	10.000000	Average	Reward	9.500000
Episode	840	Reward	9.000000	Average	Reward	9.600000
Episode	850	Reward	10.000000	Average	Reward	9.400000
Episode	860	Reward	10.000000	Average	Reward	9.200000
Episode	870	Reward	11.000000	Average	Reward	9.700000
Episode	880	Reward	10.000000	Average	Reward	9.400000
Episode	890	Reward	10.000000	Average	Reward	9.200000
Episode	900	Reward	9.000000	Average	Reward	8.800000
Episode	910	Reward	9.000000	Average	Reward	9.400000
Episode	920	Reward	10.000000	Average	Reward	8.900000
Episode	930	Reward	8.000000	Average	Reward	9.100000
Episode	940	Reward	9.000000	Average	Reward	9.600000
Episode	950	Reward	10.000000	Average	Reward	9.500000
Episode	960	Reward	10.000000	Average	Reward	9.600000
Episode	970	Reward	9.000000	Average	Reward	9.700000
Episode	980	Reward	9.000000	Average	Reward	9.200000
Episode	990	Reward	10.000000	Average	Reward	9.700000

Episode	1000	Reward	9.000000	Average	Reward	9.400000
Episode	1010	Reward	8.000000	Average	Reward	9.500000
Episode	1020	Reward	10.000000	Average	Reward	9.300000
Episode	1030	Reward	10.000000	Average	Reward	9.200000
Episode	1040	Reward	8.000000	Average	Reward	9.300000
Episode	1050	Reward	11.000000	Average	Reward	9.200000
Episode	1060	Reward	9.000000	Average	Reward	9.200000
Episode	1070	Reward	9.000000	Average	Reward	9.100000
Episode	1080	Reward	10.000000	Average	Reward	9.100000
Episode	1090	Reward	8.000000	Average	Reward	9.100000
Episode	1100	Reward	9.000000	Average	Reward	9.900000
Episode	1110	Reward	10.000000	Average	Reward	9.600000
Episode	1120	Reward	8.000000	Average	Reward	9.000000
Episode	1130	Reward	9.000000	Average	Reward	9.200000
Episode	1140	Reward	9.000000	Average	Reward	9.400000
Episode	1150	Reward	9.000000	Average	Reward	9.200000
Episode	1160	Reward	10.000000	Average	Reward	9.700000
Episode	1170	Reward	9.000000	Average	Reward	9.100000
Episode	1180	Reward	9.000000	Average	Reward	9.500000
Episode	1190	Reward	8.000000	Average	Reward	9.000000
Episode	1200	Reward	9.000000	Average	Reward	9.000000
Episode	1210	Reward	9.000000	Average	Reward	9.000000
Episode	1220	Reward	9.000000	Average	Reward	9.200000
Episode	1230	Reward	10.000000	Average	Reward	9.200000
Episode	1240	Reward	9.000000	Average	Reward	9.300000
Episode	1250	Reward	8.000000	Average	Reward	9.200000
Episode	1260	Reward	9.000000	Average	Reward	8.900000
Episode	1270	Reward	10.000000	Average	Reward	9.500000
Episode	1280	Reward	10.000000	Average	Reward	9.300000
Episode	1290	Reward	9.000000	Average	Reward	9.200000
Episode	1300	Reward	10.000000	Average	Reward	9.300000
Episode	1310	Reward	9.000000	Average	Reward	8.900000
Episode	1320	Reward	9.000000	Average	Reward	9.700000
Episode	1330	Reward	9.000000	Average	Reward	9.800000
Episode	1340	Reward	9.000000	Average	Reward	9.200000
Episode	1350	Reward	9.000000	Average	Reward	9.400000
Episode	1360	Reward	8.000000	Average	Reward	9.300000
Episode	1370	Reward	10.000000	Average	Reward	9.400000
Episode	1380	Reward	10.000000	Average	Reward	9.200000
Episode	1390	Reward	10.000000	Average	Reward	9.500000
Episode	1400	Reward	9.000000	Average	Reward	9.100000
Episode	1410	Reward	9.000000	Average	Reward	9.000000
Episode	1420	Reward	9.000000	Average	Reward	9.500000
Episode	1430	Reward	10.000000	Average	Reward	9.300000
Episode	1440	Reward	9.000000	Average	Reward	9.500000
Episode	1450	Reward	9.000000	Average	Reward	9.100000
Episode	1460	Reward	9.000000	Average	Reward	9.600000
Episode	1470	Reward	10.000000	Average	Reward	9.600000

Episode 1480 Reward 9.000000 Average Reward 9.500000
 Episode 1490 Reward 11.000000 Average Reward 9.500000
 Episode 1500 Reward 9.000000 Average Reward 9.300000
 Episode 1510 Reward 10.000000 Average Reward 9.400000
 Episode 1520 Reward 8.000000 Average Reward 9.400000
 Episode 1530 Reward 9.000000 Average Reward 9.600000
 Episode 1540 Reward 8.000000 Average Reward 9.000000
 Episode 1550 Reward 10.000000 Average Reward 9.600000
 Episode 1560 Reward 9.000000 Average Reward 9.800000
 Episode 1570 Reward 9.000000 Average Reward 9.600000
 Episode 1580 Reward 9.000000 Average Reward 9.400000
 Episode 1590 Reward 8.000000 Average Reward 9.100000
 Episode 1600 Reward 10.000000 Average Reward 9.800000
 Episode 1610 Reward 8.000000 Average Reward 9.400000
 Episode 1620 Reward 9.000000 Average Reward 9.300000
 Episode 1630 Reward 8.000000 Average Reward 9.200000
 Episode 1640 Reward 9.000000 Average Reward 9.300000
 Episode 1650 Reward 9.000000 Average Reward 9.600000
 Episode 1660 Reward 9.000000 Average Reward 9.600000
 Episode 1670 Reward 10.000000 Average Reward 9.300000
 Episode 1680 Reward 10.000000 Average Reward 9.300000
 Episode 1690 Reward 10.000000 Average Reward 9.700000
 Episode 1700 Reward 10.000000 Average Reward 9.200000
 Episode 1710 Reward 10.000000 Average Reward 9.800000
 Episode 1720 Reward 8.000000 Average Reward 9.000000
 Episode 1730 Reward 10.000000 Average Reward 9.500000
 Episode 1740 Reward 8.000000 Average Reward 9.100000
 Episode 1750 Reward 9.000000 Average Reward 9.700000
 Episode 1760 Reward 9.000000 Average Reward 9.200000
 Episode 1770 Reward 11.000000 Average Reward 9.300000
 Episode 1780 Reward 9.000000 Average Reward 9.100000
 Episode 1790 Reward 9.000000 Average Reward 9.200000
 Episode 1800 Reward 8.000000 Average Reward 9.200000

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Run: 5 -----

Episode 10 Reward 17.000000 Average Reward 22.000000
 Episode 20 Reward 12.000000 Average Reward 29.500000
 Episode 30 Reward 9.000000 Average Reward 17.100000
 Episode 40 Reward 23.000000 Average Reward 16.100000
 Episode 50 Reward 22.000000 Average Reward 25.200000
 Episode 60 Reward 13.000000 Average Reward 17.700000
 Episode 70 Reward 48.000000 Average Reward 28.200000
 Episode 80 Reward 48.000000 Average Reward 29.100000
 Episode 90 Reward 9.000000 Average Reward 25.700000
 Episode 100 Reward 16.000000 Average Reward 13.900000
 Episode 110 Reward 17.000000 Average Reward 20.200000
 Episode 120 Reward 15.000000 Average Reward 22.300000

Episode	130	Reward	19.000000	Average	Reward	30.000000
Episode	140	Reward	46.000000	Average	Reward	25.400000
Episode	150	Reward	17.000000	Average	Reward	27.700000
Episode	160	Reward	10.000000	Average	Reward	21.100000
Episode	170	Reward	48.000000	Average	Reward	26.400000
Episode	180	Reward	22.000000	Average	Reward	23.600000
Episode	190	Reward	23.000000	Average	Reward	18.700000
Episode	200	Reward	20.000000	Average	Reward	20.000000
Episode	210	Reward	38.000000	Average	Reward	33.300000
Episode	220	Reward	11.000000	Average	Reward	25.300000
Episode	230	Reward	15.000000	Average	Reward	26.200000
Episode	240	Reward	12.000000	Average	Reward	18.500000
Episode	250	Reward	19.000000	Average	Reward	16.200000
Episode	260	Reward	24.000000	Average	Reward	20.200000
Episode	270	Reward	15.000000	Average	Reward	18.900000
Episode	280	Reward	14.000000	Average	Reward	35.000000
Episode	290	Reward	11.000000	Average	Reward	10.400000
Episode	300	Reward	30.000000	Average	Reward	14.900000
Episode	310	Reward	10.000000	Average	Reward	15.800000
Episode	320	Reward	10.000000	Average	Reward	13.900000
Episode	330	Reward	8.000000	Average	Reward	11.500000
Episode	340	Reward	8.000000	Average	Reward	11.600000
Episode	350	Reward	9.000000	Average	Reward	9.900000
Episode	360	Reward	17.000000	Average	Reward	23.000000
Episode	370	Reward	14.000000	Average	Reward	25.300000
Episode	380	Reward	15.000000	Average	Reward	17.800000
Episode	390	Reward	25.000000	Average	Reward	24.800000
Episode	400	Reward	29.000000	Average	Reward	26.000000
Episode	410	Reward	10.000000	Average	Reward	23.100000
Episode	420	Reward	12.000000	Average	Reward	15.600000
Episode	430	Reward	36.000000	Average	Reward	20.800000
Episode	440	Reward	11.000000	Average	Reward	22.300000
Episode	450	Reward	40.000000	Average	Reward	25.600000
Episode	460	Reward	28.000000	Average	Reward	20.700000
Episode	470	Reward	88.000000	Average	Reward	29.500000
Episode	480	Reward	38.000000	Average	Reward	64.900000
Episode	490	Reward	11.000000	Average	Reward	31.100000
Episode	500	Reward	29.000000	Average	Reward	35.300000
Episode	510	Reward	12.000000	Average	Reward	83.500000
Episode	520	Reward	9.000000	Average	Reward	19.300000
Episode	530	Reward	40.000000	Average	Reward	19.500000
Episode	540	Reward	47.000000	Average	Reward	92.100000
Episode	550	Reward	10.000000	Average	Reward	9.800000
Episode	560	Reward	10.000000	Average	Reward	9.800000
Episode	570	Reward	53.000000	Average	Reward	21.900000
Episode	580	Reward	84.000000	Average	Reward	113.700000
Episode	590	Reward	75.000000	Average	Reward	61.800000
Episode	600	Reward	8.000000	Average	Reward	53.400000

Episode	610	Reward	9.000000	Average Reward	12.300000
Episode	620	Reward	8.000000	Average Reward	9.300000
Episode	630	Reward	9.000000	Average Reward	9.400000
Episode	640	Reward	10.000000	Average Reward	9.400000
Episode	650	Reward	9.000000	Average Reward	9.200000
Episode	660	Reward	9.000000	Average Reward	9.600000
Episode	670	Reward	10.000000	Average Reward	9.200000
Episode	680	Reward	8.000000	Average Reward	9.300000
Episode	690	Reward	10.000000	Average Reward	9.300000
Episode	700	Reward	10.000000	Average Reward	9.600000
Episode	710	Reward	10.000000	Average Reward	9.200000
Episode	720	Reward	10.000000	Average Reward	9.700000
Episode	730	Reward	10.000000	Average Reward	9.200000
Episode	740	Reward	10.000000	Average Reward	9.400000
Episode	750	Reward	9.000000	Average Reward	9.100000
Episode	760	Reward	10.000000	Average Reward	9.100000
Episode	770	Reward	10.000000	Average Reward	9.300000
Episode	780	Reward	10.000000	Average Reward	9.300000
Episode	790	Reward	9.000000	Average Reward	9.700000
Episode	800	Reward	9.000000	Average Reward	9.200000
Episode	810	Reward	11.000000	Average Reward	9.200000
Episode	820	Reward	10.000000	Average Reward	9.400000
Episode	830	Reward	9.000000	Average Reward	9.200000
Episode	840	Reward	10.000000	Average Reward	9.200000
Episode	850	Reward	10.000000	Average Reward	9.700000
Episode	860	Reward	8.000000	Average Reward	8.900000
Episode	870	Reward	9.000000	Average Reward	9.200000
Episode	880	Reward	9.000000	Average Reward	9.500000
Episode	890	Reward	9.000000	Average Reward	9.600000
Episode	900	Reward	9.000000	Average Reward	9.200000
Episode	910	Reward	10.000000	Average Reward	9.700000
Episode	920	Reward	9.000000	Average Reward	9.300000
Episode	930	Reward	9.000000	Average Reward	9.400000
Episode	940	Reward	8.000000	Average Reward	9.200000
Episode	950	Reward	9.000000	Average Reward	9.200000
Episode	960	Reward	10.000000	Average Reward	9.500000
Episode	970	Reward	10.000000	Average Reward	9.500000
Episode	980	Reward	8.000000	Average Reward	9.500000
Episode	990	Reward	9.000000	Average Reward	9.500000
Episode	1000	Reward	9.000000	Average Reward	9.300000
Episode	1010	Reward	10.000000	Average Reward	9.400000
Episode	1020	Reward	10.000000	Average Reward	9.400000
Episode	1030	Reward	10.000000	Average Reward	9.700000
Episode	1040	Reward	8.000000	Average Reward	9.300000
Episode	1050	Reward	10.000000	Average Reward	9.200000
Episode	1060	Reward	9.000000	Average Reward	9.000000
Episode	1070	Reward	9.000000	Average Reward	9.300000
Episode	1080	Reward	10.000000	Average Reward	9.700000

Episode	1090	Reward	10.000000	Average Reward	9.100000
Episode	1100	Reward	8.000000	Average Reward	9.200000
Episode	1110	Reward	9.000000	Average Reward	9.700000
Episode	1120	Reward	9.000000	Average Reward	9.700000
Episode	1130	Reward	10.000000	Average Reward	9.300000
Episode	1140	Reward	10.000000	Average Reward	9.100000
Episode	1150	Reward	9.000000	Average Reward	9.100000
Episode	1160	Reward	9.000000	Average Reward	9.400000
Episode	1170	Reward	10.000000	Average Reward	8.900000
Episode	1180	Reward	9.000000	Average Reward	9.100000
Episode	1190	Reward	9.000000	Average Reward	9.500000
Episode	1200	Reward	9.000000	Average Reward	9.200000
Episode	1210	Reward	9.000000	Average Reward	9.200000
Episode	1220	Reward	10.000000	Average Reward	9.300000
Episode	1230	Reward	10.000000	Average Reward	9.400000
Episode	1240	Reward	10.000000	Average Reward	9.600000
Episode	1250	Reward	8.000000	Average Reward	9.000000
Episode	1260	Reward	10.000000	Average Reward	9.500000
Episode	1270	Reward	10.000000	Average Reward	9.400000
Episode	1280	Reward	10.000000	Average Reward	10.000000
Episode	1290	Reward	9.000000	Average Reward	9.000000
Episode	1300	Reward	10.000000	Average Reward	9.300000
Episode	1310	Reward	10.000000	Average Reward	9.000000
Episode	1320	Reward	10.000000	Average Reward	9.400000
Episode	1330	Reward	9.000000	Average Reward	9.100000
Episode	1340	Reward	9.000000	Average Reward	9.300000
Episode	1350	Reward	9.000000	Average Reward	9.400000
Episode	1360	Reward	9.000000	Average Reward	9.200000
Episode	1370	Reward	10.000000	Average Reward	9.500000
Episode	1380	Reward	9.000000	Average Reward	9.200000
Episode	1390	Reward	9.000000	Average Reward	9.000000
Episode	1400	Reward	10.000000	Average Reward	9.100000
Episode	1410	Reward	10.000000	Average Reward	9.500000
Episode	1420	Reward	11.000000	Average Reward	10.300000
Episode	1430	Reward	9.000000	Average Reward	17.000000
Episode	1440	Reward	68.000000	Average Reward	21.400000
Episode	1450	Reward	20.000000	Average Reward	19.700000
Episode	1460	Reward	40.000000	Average Reward	33.300000
Episode	1470	Reward	10.000000	Average Reward	26.500000
Episode	1480	Reward	11.000000	Average Reward	107.900000
Episode	1490	Reward	22.000000	Average Reward	20.900000
Episode	1500	Reward	15.000000	Average Reward	50.500000
Episode	1510	Reward	8.000000	Average Reward	9.200000
Episode	1520	Reward	9.000000	Average Reward	9.500000
Episode	1530	Reward	10.000000	Average Reward	9.300000
Episode	1540	Reward	9.000000	Average Reward	9.200000
Episode	1550	Reward	9.000000	Average Reward	9.200000
Episode	1560	Reward	9.000000	Average Reward	9.100000

Episode 1570 Reward 9.000000 Average Reward 9.500000
 Episode 1580 Reward 10.000000 Average Reward 9.700000
 Episode 1590 Reward 10.000000 Average Reward 9.600000
 Episode 1600 Reward 10.000000 Average Reward 9.500000
 Episode 1610 Reward 9.000000 Average Reward 9.400000
 Episode 1620 Reward 8.000000 Average Reward 9.200000
 Episode 1630 Reward 9.000000 Average Reward 9.300000
 Episode 1640 Reward 10.000000 Average Reward 9.900000
 Episode 1650 Reward 9.000000 Average Reward 9.200000
 Episode 1660 Reward 10.000000 Average Reward 9.200000
 Episode 1670 Reward 9.000000 Average Reward 9.400000
 Episode 1680 Reward 9.000000 Average Reward 9.500000
 Episode 1690 Reward 9.000000 Average Reward 9.300000
 Episode 1700 Reward 9.000000 Average Reward 9.300000
 Episode 1710 Reward 9.000000 Average Reward 9.500000
 Episode 1720 Reward 10.000000 Average Reward 9.400000
 Episode 1730 Reward 10.000000 Average Reward 9.600000
 Episode 1740 Reward 9.000000 Average Reward 9.200000
 Episode 1750 Reward 9.000000 Average Reward 9.500000
 Episode 1760 Reward 8.000000 Average Reward 9.000000
 Episode 1770 Reward 9.000000 Average Reward 9.100000
 Episode 1780 Reward 8.000000 Average Reward 8.800000
 Episode 1790 Reward 9.000000 Average Reward 9.300000
 Episode 1800 Reward 10.000000 Average Reward 9.500000

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Run: 6 -----

Episode 10 Reward 33.000000 Average Reward 28.000000
 Episode 20 Reward 13.000000 Average Reward 24.100000
 Episode 30 Reward 46.000000 Average Reward 31.600000
 Episode 40 Reward 9.000000 Average Reward 55.500000
 Episode 50 Reward 9.000000 Average Reward 11.600000
 Episode 60 Reward 10.000000 Average Reward 10.400000
 Episode 70 Reward 9.000000 Average Reward 11.600000
 Episode 80 Reward 14.000000 Average Reward 12.700000
 Episode 90 Reward 12.000000 Average Reward 15.300000
 Episode 100 Reward 11.000000 Average Reward 11.500000
 Episode 110 Reward 9.000000 Average Reward 14.500000
 Episode 120 Reward 17.000000 Average Reward 12.800000
 Episode 130 Reward 12.000000 Average Reward 18.100000
 Episode 140 Reward 9.000000 Average Reward 18.300000
 Episode 150 Reward 30.000000 Average Reward 20.000000
 Episode 160 Reward 90.000000 Average Reward 59.100000
 Episode 170 Reward 16.000000 Average Reward 150.700000
 Episode 180 Reward 43.000000 Average Reward 48.300000
 Episode 190 Reward 63.000000 Average Reward 37.600000
 Episode 200 Reward 32.000000 Average Reward 46.000000
 Episode 210 Reward 49.000000 Average Reward 47.100000

Episode	220	Reward	46.000000	Average Reward	45.000000
Episode	230	Reward	302.000000	Average Reward	95.500000
Episode	240	Reward	9.000000	Average Reward	31.400000
Episode	250	Reward	10.000000	Average Reward	9.400000
Episode	260	Reward	8.000000	Average Reward	9.200000
Episode	270	Reward	9.000000	Average Reward	9.100000
Episode	280	Reward	9.000000	Average Reward	9.300000
Episode	290	Reward	9.000000	Average Reward	9.500000
Episode	300	Reward	9.000000	Average Reward	9.200000
Episode	310	Reward	9.000000	Average Reward	9.000000
Episode	320	Reward	10.000000	Average Reward	9.300000
Episode	330	Reward	9.000000	Average Reward	9.600000
Episode	340	Reward	9.000000	Average Reward	9.400000
Episode	350	Reward	10.000000	Average Reward	9.100000
Episode	360	Reward	10.000000	Average Reward	9.100000
Episode	370	Reward	10.000000	Average Reward	9.500000
Episode	380	Reward	9.000000	Average Reward	9.200000
Episode	390	Reward	9.000000	Average Reward	9.100000
Episode	400	Reward	10.000000	Average Reward	9.600000
Episode	410	Reward	9.000000	Average Reward	9.700000
Episode	420	Reward	9.000000	Average Reward	9.100000
Episode	430	Reward	9.000000	Average Reward	9.500000
Episode	440	Reward	8.000000	Average Reward	9.300000
Episode	450	Reward	10.000000	Average Reward	9.500000
Episode	460	Reward	9.000000	Average Reward	9.400000
Episode	470	Reward	10.000000	Average Reward	9.300000
Episode	480	Reward	9.000000	Average Reward	9.100000
Episode	490	Reward	11.000000	Average Reward	9.700000
Episode	500	Reward	8.000000	Average Reward	9.500000
Episode	510	Reward	10.000000	Average Reward	9.200000
Episode	520	Reward	9.000000	Average Reward	9.000000
Episode	530	Reward	10.000000	Average Reward	9.200000
Episode	540	Reward	10.000000	Average Reward	9.400000
Episode	550	Reward	9.000000	Average Reward	9.100000
Episode	560	Reward	9.000000	Average Reward	9.200000
Episode	570	Reward	8.000000	Average Reward	9.400000
Episode	580	Reward	10.000000	Average Reward	9.600000
Episode	590	Reward	10.000000	Average Reward	9.000000
Episode	600	Reward	10.000000	Average Reward	9.700000
Episode	610	Reward	9.000000	Average Reward	9.100000
Episode	620	Reward	9.000000	Average Reward	9.300000
Episode	630	Reward	9.000000	Average Reward	9.300000
Episode	640	Reward	9.000000	Average Reward	9.600000
Episode	650	Reward	10.000000	Average Reward	9.600000
Episode	660	Reward	10.000000	Average Reward	9.800000
Episode	670	Reward	10.000000	Average Reward	9.300000
Episode	680	Reward	9.000000	Average Reward	9.300000
Episode	690	Reward	9.000000	Average Reward	9.300000

Episode	700	Reward	9.000000	Average Reward	9.300000
Episode	710	Reward	10.000000	Average Reward	9.400000
Episode	720	Reward	9.000000	Average Reward	9.100000
Episode	730	Reward	8.000000	Average Reward	9.300000
Episode	740	Reward	10.000000	Average Reward	9.300000
Episode	750	Reward	10.000000	Average Reward	9.400000
Episode	760	Reward	10.000000	Average Reward	9.700000
Episode	770	Reward	9.000000	Average Reward	9.000000
Episode	780	Reward	9.000000	Average Reward	9.600000
Episode	790	Reward	10.000000	Average Reward	9.200000
Episode	800	Reward	10.000000	Average Reward	9.400000
Episode	810	Reward	10.000000	Average Reward	9.600000
Episode	820	Reward	9.000000	Average Reward	9.600000
Episode	830	Reward	9.000000	Average Reward	9.300000
Episode	840	Reward	10.000000	Average Reward	9.300000
Episode	850	Reward	8.000000	Average Reward	9.400000
Episode	860	Reward	10.000000	Average Reward	9.500000
Episode	870	Reward	9.000000	Average Reward	9.200000
Episode	880	Reward	9.000000	Average Reward	9.500000
Episode	890	Reward	10.000000	Average Reward	9.600000
Episode	900	Reward	11.000000	Average Reward	9.900000
Episode	910	Reward	10.000000	Average Reward	9.400000
Episode	920	Reward	9.000000	Average Reward	9.000000
Episode	930	Reward	10.000000	Average Reward	9.500000
Episode	940	Reward	11.000000	Average Reward	9.700000
Episode	950	Reward	10.000000	Average Reward	9.500000
Episode	960	Reward	10.000000	Average Reward	9.300000
Episode	970	Reward	9.000000	Average Reward	9.000000
Episode	980	Reward	9.000000	Average Reward	8.900000
Episode	990	Reward	9.000000	Average Reward	9.100000
Episode	1000	Reward	9.000000	Average Reward	9.300000
Episode	1010	Reward	10.000000	Average Reward	9.600000
Episode	1020	Reward	10.000000	Average Reward	9.500000
Episode	1030	Reward	10.000000	Average Reward	9.700000
Episode	1040	Reward	8.000000	Average Reward	9.200000
Episode	1050	Reward	9.000000	Average Reward	9.200000
Episode	1060	Reward	8.000000	Average Reward	9.700000
Episode	1070	Reward	10.000000	Average Reward	8.900000
Episode	1080	Reward	9.000000	Average Reward	9.200000
Episode	1090	Reward	13.000000	Average Reward	9.900000
Episode	1100	Reward	10.000000	Average Reward	20.200000
Episode	1110	Reward	10.000000	Average Reward	10.100000
Episode	1120	Reward	11.000000	Average Reward	10.400000
Episode	1130	Reward	30.000000	Average Reward	25.800000
Episode	1140	Reward	61.000000	Average Reward	86.200000
Episode	1150	Reward	10.000000	Average Reward	78.600000
Episode	1160	Reward	10.000000	Average Reward	9.500000
Episode	1170	Reward	88.000000	Average Reward	25.500000

Episode	1180	Reward	98.000000	Average Reward	155.700000
Episode	1190	Reward	140.000000	Average Reward	129.300000
Episode	1200	Reward	130.000000	Average Reward	85.500000
Episode	1210	Reward	94.000000	Average Reward	88.800000
Episode	1220	Reward	9.000000	Average Reward	216.700000
Episode	1230	Reward	10.000000	Average Reward	15.400000
Episode	1240	Reward	10.000000	Average Reward	28.500000
Episode	1250	Reward	9.000000	Average Reward	13.600000
Episode	1260	Reward	10.000000	Average Reward	9.800000
Episode	1270	Reward	10.000000	Average Reward	9.800000
Episode	1280	Reward	10.000000	Average Reward	9.200000
Episode	1290	Reward	11.000000	Average Reward	9.500000
Episode	1300	Reward	9.000000	Average Reward	9.100000
Episode	1310	Reward	9.000000	Average Reward	9.100000
Episode	1320	Reward	10.000000	Average Reward	9.800000
Episode	1330	Reward	11.000000	Average Reward	9.400000
Episode	1340	Reward	9.000000	Average Reward	9.200000
Episode	1350	Reward	11.000000	Average Reward	9.200000
Episode	1360	Reward	10.000000	Average Reward	9.300000
Episode	1370	Reward	10.000000	Average Reward	9.600000
Episode	1380	Reward	9.000000	Average Reward	9.800000
Episode	1390	Reward	9.000000	Average Reward	9.500000
Episode	1400	Reward	9.000000	Average Reward	9.500000
Episode	1410	Reward	10.000000	Average Reward	9.500000
Episode	1420	Reward	9.000000	Average Reward	9.200000
Episode	1430	Reward	9.000000	Average Reward	9.700000
Episode	1440	Reward	10.000000	Average Reward	9.700000
Episode	1450	Reward	10.000000	Average Reward	9.800000
Episode	1460	Reward	8.000000	Average Reward	8.700000
Episode	1470	Reward	9.000000	Average Reward	14.300000
Episode	1480	Reward	10.000000	Average Reward	9.700000
Episode	1490	Reward	9.000000	Average Reward	9.800000
Episode	1500	Reward	10.000000	Average Reward	9.200000
Episode	1510	Reward	24.000000	Average Reward	14.000000
Episode	1520	Reward	28.000000	Average Reward	22.400000
Episode	1530	Reward	17.000000	Average Reward	19.400000
Episode	1540	Reward	30.000000	Average Reward	22.100000
Episode	1550	Reward	32.000000	Average Reward	21.000000
Episode	1560	Reward	17.000000	Average Reward	20.100000
Episode	1570	Reward	24.000000	Average Reward	23.400000
Episode	1580	Reward	23.000000	Average Reward	23.700000
Episode	1590	Reward	14.000000	Average Reward	20.500000
Episode	1600	Reward	16.000000	Average Reward	19.100000
Episode	1610	Reward	21.000000	Average Reward	14.800000
Episode	1620	Reward	500.000000	Average Reward	142.500000
Episode	1630	Reward	500.000000	Average Reward	165.900000
Episode	1640	Reward	10.000000	Average Reward	353.000000
Episode	1650	Reward	43.000000	Average Reward	144.700000

Episode 1660 Reward 21.000000 Average Reward 103.500000
 Episode 1670 Reward 19.000000 Average Reward 23.100000
 Episode 1680 Reward 24.000000 Average Reward 22.700000
 Episode 1690 Reward 20.000000 Average Reward 20.900000
 Episode 1700 Reward 19.000000 Average Reward 21.600000
 Episode 1710 Reward 23.000000 Average Reward 22.200000
 Episode 1720 Reward 28.000000 Average Reward 22.100000
 Episode 1730 Reward 30.000000 Average Reward 34.000000
 Episode 1740 Reward 20.000000 Average Reward 39.800000
 Episode 1750 Reward 91.000000 Average Reward 37.900000
 Episode 1760 Reward 76.000000 Average Reward 51.000000
 Episode 1770 Reward 24.000000 Average Reward 56.400000
 Episode 1780 Reward 10.000000 Average Reward 38.700000
 Episode 1790 Reward 8.000000 Average Reward 9.000000
 Episode 1800 Reward 9.000000 Average Reward 9.400000

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Run: 7 -----

Episode 10 Reward 25.000000 Average Reward 22.700000
 Episode 20 Reward 102.000000 Average Reward 39.900000
 Episode 30 Reward 150.000000 Average Reward 73.500000
 Episode 40 Reward 63.000000 Average Reward 43.500000
 Episode 50 Reward 10.000000 Average Reward 12.400000
 Episode 60 Reward 9.000000 Average Reward 9.300000
 Episode 70 Reward 9.000000 Average Reward 9.600000
 Episode 80 Reward 8.000000 Average Reward 9.600000
 Episode 90 Reward 8.000000 Average Reward 9.900000
 Episode 100 Reward 10.000000 Average Reward 11.100000
 Episode 110 Reward 15.000000 Average Reward 10.300000
 Episode 120 Reward 15.000000 Average Reward 21.300000
 Episode 130 Reward 15.000000 Average Reward 15.900000
 Episode 140 Reward 28.000000 Average Reward 22.700000
 Episode 150 Reward 22.000000 Average Reward 32.200000
 Episode 160 Reward 183.000000 Average Reward 65.800000
 Episode 170 Reward 39.000000 Average Reward 66.300000
 Episode 180 Reward 45.000000 Average Reward 32.300000
 Episode 190 Reward 18.000000 Average Reward 20.300000
 Episode 200 Reward 29.000000 Average Reward 32.400000
 Episode 210 Reward 38.000000 Average Reward 37.100000
 Episode 220 Reward 90.000000 Average Reward 40.800000
 Episode 230 Reward 68.000000 Average Reward 55.400000
 Episode 240 Reward 48.000000 Average Reward 31.200000
 Episode 250 Reward 121.000000 Average Reward 50.200000
 Episode 260 Reward 89.000000 Average Reward 39.800000
 Episode 270 Reward 44.000000 Average Reward 30.900000
 Episode 280 Reward 15.000000 Average Reward 20.300000
 Episode 290 Reward 29.000000 Average Reward 31.100000
 Episode 300 Reward 10.000000 Average Reward 51.100000

Episode	310	Reward	10.000000	Average	Reward	9.500000
Episode	320	Reward	10.000000	Average	Reward	9.300000
Episode	330	Reward	10.000000	Average	Reward	9.200000
Episode	340	Reward	10.000000	Average	Reward	9.400000
Episode	350	Reward	8.000000	Average	Reward	9.100000
Episode	360	Reward	10.000000	Average	Reward	9.300000
Episode	370	Reward	9.000000	Average	Reward	9.500000
Episode	380	Reward	10.000000	Average	Reward	9.600000
Episode	390	Reward	8.000000	Average	Reward	9.000000
Episode	400	Reward	8.000000	Average	Reward	8.900000
Episode	410	Reward	9.000000	Average	Reward	9.400000
Episode	420	Reward	10.000000	Average	Reward	9.800000
Episode	430	Reward	9.000000	Average	Reward	9.300000
Episode	440	Reward	9.000000	Average	Reward	8.900000
Episode	450	Reward	10.000000	Average	Reward	9.600000
Episode	460	Reward	10.000000	Average	Reward	9.400000
Episode	470	Reward	10.000000	Average	Reward	9.500000
Episode	480	Reward	10.000000	Average	Reward	9.400000
Episode	490	Reward	9.000000	Average	Reward	9.600000
Episode	500	Reward	10.000000	Average	Reward	9.600000
Episode	510	Reward	10.000000	Average	Reward	9.400000
Episode	520	Reward	10.000000	Average	Reward	9.700000
Episode	530	Reward	10.000000	Average	Reward	9.600000
Episode	540	Reward	9.000000	Average	Reward	9.500000
Episode	550	Reward	10.000000	Average	Reward	9.500000
Episode	560	Reward	8.000000	Average	Reward	9.300000
Episode	570	Reward	10.000000	Average	Reward	9.300000
Episode	580	Reward	41.000000	Average	Reward	22.600000
Episode	590	Reward	42.000000	Average	Reward	42.400000
Episode	600	Reward	36.000000	Average	Reward	39.500000
Episode	610	Reward	24.000000	Average	Reward	32.000000
Episode	620	Reward	25.000000	Average	Reward	21.100000
Episode	630	Reward	18.000000	Average	Reward	17.100000
Episode	640	Reward	17.000000	Average	Reward	20.600000
Episode	650	Reward	18.000000	Average	Reward	16.900000
Episode	660	Reward	22.000000	Average	Reward	21.000000
Episode	670	Reward	19.000000	Average	Reward	15.600000
Episode	680	Reward	16.000000	Average	Reward	13.000000
Episode	690	Reward	12.000000	Average	Reward	15.400000
Episode	700	Reward	15.000000	Average	Reward	15.500000
Episode	710	Reward	15.000000	Average	Reward	14.800000
Episode	720	Reward	15.000000	Average	Reward	13.600000
Episode	730	Reward	16.000000	Average	Reward	14.600000
Episode	740	Reward	25.000000	Average	Reward	16.400000
Episode	750	Reward	17.000000	Average	Reward	18.000000
Episode	760	Reward	27.000000	Average	Reward	21.500000
Episode	770	Reward	17.000000	Average	Reward	60.100000
Episode	780	Reward	10.000000	Average	Reward	9.400000

Episode 790 Reward 10.000000 Average Reward 9.600000
Episode 800 Reward 8.000000 Average Reward 9.200000
Episode 810 Reward 9.000000 Average Reward 9.300000
Episode 820 Reward 8.000000 Average Reward 9.300000
Episode 830 Reward 8.000000 Average Reward 9.400000
Episode 840 Reward 11.000000 Average Reward 9.200000
Episode 850 Reward 10.000000 Average Reward 8.900000
Episode 860 Reward 9.000000 Average Reward 9.500000
Episode 870 Reward 9.000000 Average Reward 9.500000
Episode 880 Reward 8.000000 Average Reward 8.900000
Episode 890 Reward 8.000000 Average Reward 9.300000
Episode 900 Reward 9.000000 Average Reward 9.600000
Episode 910 Reward 9.000000 Average Reward 9.500000
Episode 920 Reward 9.000000 Average Reward 9.300000
Episode 930 Reward 10.000000 Average Reward 9.400000
Episode 940 Reward 10.000000 Average Reward 9.300000
Episode 950 Reward 10.000000 Average Reward 9.700000
Episode 960 Reward 9.000000 Average Reward 9.400000
Episode 970 Reward 10.000000 Average Reward 9.500000
Episode 980 Reward 9.000000 Average Reward 9.300000
Episode 990 Reward 9.000000 Average Reward 9.500000
Episode 1000 Reward 9.000000 Average Reward 9.500000
Episode 1010 Reward 8.000000 Average Reward 9.000000
Episode 1020 Reward 9.000000 Average Reward 9.500000
Episode 1030 Reward 10.000000 Average Reward 9.500000
Episode 1040 Reward 9.000000 Average Reward 9.400000
Episode 1050 Reward 10.000000 Average Reward 9.500000
Episode 1060 Reward 8.000000 Average Reward 9.400000
Episode 1070 Reward 10.000000 Average Reward 9.700000
Episode 1080 Reward 9.000000 Average Reward 9.200000
Episode 1090 Reward 9.000000 Average Reward 9.300000
Episode 1100 Reward 9.000000 Average Reward 9.200000
Episode 1110 Reward 10.000000 Average Reward 9.600000
Episode 1120 Reward 9.000000 Average Reward 9.000000
Episode 1130 Reward 9.000000 Average Reward 9.000000
Episode 1140 Reward 10.000000 Average Reward 9.500000
Episode 1150 Reward 10.000000 Average Reward 9.000000
Episode 1160 Reward 10.000000 Average Reward 9.400000
Episode 1170 Reward 9.000000 Average Reward 9.000000
Episode 1180 Reward 10.000000 Average Reward 9.500000
Episode 1190 Reward 10.000000 Average Reward 8.700000
Episode 1200 Reward 9.000000 Average Reward 9.500000
Episode 1210 Reward 10.000000 Average Reward 9.200000
Episode 1220 Reward 9.000000 Average Reward 9.800000
Episode 1230 Reward 10.000000 Average Reward 9.900000
Episode 1240 Reward 8.000000 Average Reward 9.000000
Episode 1250 Reward 8.000000 Average Reward 9.100000
Episode 1260 Reward 10.000000 Average Reward 9.100000

Episode	1270	Reward	9.000000	Average	Reward	9.500000
Episode	1280	Reward	9.000000	Average	Reward	9.500000
Episode	1290	Reward	10.000000	Average	Reward	9.000000
Episode	1300	Reward	9.000000	Average	Reward	9.300000
Episode	1310	Reward	9.000000	Average	Reward	9.500000
Episode	1320	Reward	10.000000	Average	Reward	10.000000
Episode	1330	Reward	9.000000	Average	Reward	8.900000
Episode	1340	Reward	10.000000	Average	Reward	9.300000
Episode	1350	Reward	8.000000	Average	Reward	9.200000
Episode	1360	Reward	10.000000	Average	Reward	9.700000
Episode	1370	Reward	10.000000	Average	Reward	9.300000
Episode	1380	Reward	8.000000	Average	Reward	9.500000
Episode	1390	Reward	9.000000	Average	Reward	9.300000
Episode	1400	Reward	9.000000	Average	Reward	9.400000
Episode	1410	Reward	8.000000	Average	Reward	9.300000
Episode	1420	Reward	10.000000	Average	Reward	9.300000
Episode	1430	Reward	11.000000	Average	Reward	9.500000
Episode	1440	Reward	9.000000	Average	Reward	9.200000
Episode	1450	Reward	10.000000	Average	Reward	9.100000
Episode	1460	Reward	10.000000	Average	Reward	9.600000
Episode	1470	Reward	10.000000	Average	Reward	9.500000
Episode	1480	Reward	9.000000	Average	Reward	9.500000
Episode	1490	Reward	9.000000	Average	Reward	9.100000
Episode	1500	Reward	10.000000	Average	Reward	9.600000
Episode	1510	Reward	10.000000	Average	Reward	9.900000
Episode	1520	Reward	10.000000	Average	Reward	9.400000
Episode	1530	Reward	8.000000	Average	Reward	9.000000
Episode	1540	Reward	8.000000	Average	Reward	9.200000
Episode	1550	Reward	10.000000	Average	Reward	9.800000
Episode	1560	Reward	11.000000	Average	Reward	9.600000
Episode	1570	Reward	9.000000	Average	Reward	9.400000
Episode	1580	Reward	10.000000	Average	Reward	9.500000
Episode	1590	Reward	10.000000	Average	Reward	9.200000
Episode	1600	Reward	9.000000	Average	Reward	9.200000
Episode	1610	Reward	10.000000	Average	Reward	9.400000
Episode	1620	Reward	10.000000	Average	Reward	9.800000
Episode	1630	Reward	10.000000	Average	Reward	9.400000
Episode	1640	Reward	10.000000	Average	Reward	9.300000
Episode	1650	Reward	8.000000	Average	Reward	9.000000
Episode	1660	Reward	10.000000	Average	Reward	9.400000
Episode	1670	Reward	9.000000	Average	Reward	9.400000
Episode	1680	Reward	10.000000	Average	Reward	9.500000
Episode	1690	Reward	10.000000	Average	Reward	9.200000
Episode	1700	Reward	11.000000	Average	Reward	9.300000
Episode	1710	Reward	10.000000	Average	Reward	9.900000
Episode	1720	Reward	9.000000	Average	Reward	9.100000
Episode	1730	Reward	10.000000	Average	Reward	9.400000
Episode	1740	Reward	9.000000	Average	Reward	9.500000

Episode 1750 Reward 10.000000 Average Reward 9.400000
Episode 1760 Reward 8.000000 Average Reward 9.300000
Episode 1770 Reward 11.000000 Average Reward 9.300000
Episode 1780 Reward 9.000000 Average Reward 9.100000
Episode 1790 Reward 10.000000 Average Reward 9.700000
Episode 1800 Reward 9.000000 Average Reward 9.000000
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Run: 8 -----

Episode 10 Reward 12.000000 Average Reward 17.700000
Episode 20 Reward 9.000000 Average Reward 26.700000
Episode 30 Reward 13.000000 Average Reward 10.900000
Episode 40 Reward 16.000000 Average Reward 19.400000
Episode 50 Reward 101.000000 Average Reward 69.500000
Episode 60 Reward 52.000000 Average Reward 83.700000
Episode 70 Reward 9.000000 Average Reward 20.700000
Episode 80 Reward 9.000000 Average Reward 9.600000
Episode 90 Reward 9.000000 Average Reward 9.400000
Episode 100 Reward 9.000000 Average Reward 9.400000
Episode 110 Reward 10.000000 Average Reward 9.900000
Episode 120 Reward 10.000000 Average Reward 9.500000
Episode 130 Reward 10.000000 Average Reward 9.600000
Episode 140 Reward 10.000000 Average Reward 9.600000
Episode 150 Reward 10.000000 Average Reward 9.600000
Episode 160 Reward 9.000000 Average Reward 9.800000
Episode 170 Reward 10.000000 Average Reward 9.600000
Episode 180 Reward 9.000000 Average Reward 9.300000
Episode 190 Reward 9.000000 Average Reward 9.100000
Episode 200 Reward 10.000000 Average Reward 9.700000
Episode 210 Reward 9.000000 Average Reward 9.000000
Episode 220 Reward 9.000000 Average Reward 9.600000
Episode 230 Reward 10.000000 Average Reward 9.400000
Episode 240 Reward 10.000000 Average Reward 9.600000
Episode 250 Reward 10.000000 Average Reward 9.700000
Episode 260 Reward 9.000000 Average Reward 9.600000
Episode 270 Reward 8.000000 Average Reward 9.100000
Episode 280 Reward 10.000000 Average Reward 9.300000
Episode 290 Reward 10.000000 Average Reward 9.600000
Episode 300 Reward 9.000000 Average Reward 9.400000
Episode 310 Reward 10.000000 Average Reward 9.400000
Episode 320 Reward 13.000000 Average Reward 10.200000
Episode 330 Reward 9.000000 Average Reward 10.100000
Episode 340 Reward 33.000000 Average Reward 13.200000
Episode 350 Reward 9.000000 Average Reward 21.000000
Episode 360 Reward 19.000000 Average Reward 12.900000
Episode 370 Reward 39.000000 Average Reward 25.800000
Episode 380 Reward 27.000000 Average Reward 30.200000
Episode 390 Reward 10.000000 Average Reward 21.000000

Episode	400	Reward	26.000000	Average Reward	18.700000
Episode	410	Reward	10.000000	Average Reward	13.000000
Episode	420	Reward	9.000000	Average Reward	9.300000
Episode	430	Reward	10.000000	Average Reward	9.000000
Episode	440	Reward	9.000000	Average Reward	9.700000
Episode	450	Reward	10.000000	Average Reward	9.500000
Episode	460	Reward	10.000000	Average Reward	9.000000
Episode	470	Reward	9.000000	Average Reward	9.300000
Episode	480	Reward	10.000000	Average Reward	9.300000
Episode	490	Reward	10.000000	Average Reward	9.400000
Episode	500	Reward	10.000000	Average Reward	9.500000
Episode	510	Reward	10.000000	Average Reward	9.400000
Episode	520	Reward	10.000000	Average Reward	9.500000
Episode	530	Reward	10.000000	Average Reward	9.500000
Episode	540	Reward	9.000000	Average Reward	9.400000
Episode	550	Reward	9.000000	Average Reward	9.300000
Episode	560	Reward	10.000000	Average Reward	9.200000
Episode	570	Reward	9.000000	Average Reward	9.400000
Episode	580	Reward	10.000000	Average Reward	9.100000
Episode	590	Reward	9.000000	Average Reward	9.700000
Episode	600	Reward	11.000000	Average Reward	9.900000
Episode	610	Reward	9.000000	Average Reward	9.200000
Episode	620	Reward	9.000000	Average Reward	9.400000
Episode	630	Reward	9.000000	Average Reward	9.200000
Episode	640	Reward	9.000000	Average Reward	9.400000
Episode	650	Reward	9.000000	Average Reward	9.300000
Episode	660	Reward	8.000000	Average Reward	9.100000
Episode	670	Reward	10.000000	Average Reward	9.400000
Episode	680	Reward	11.000000	Average Reward	9.400000
Episode	690	Reward	10.000000	Average Reward	9.500000
Episode	700	Reward	9.000000	Average Reward	9.400000
Episode	710	Reward	9.000000	Average Reward	8.900000
Episode	720	Reward	9.000000	Average Reward	9.600000
Episode	730	Reward	8.000000	Average Reward	8.800000
Episode	740	Reward	11.000000	Average Reward	9.700000
Episode	750	Reward	9.000000	Average Reward	9.400000
Episode	760	Reward	10.000000	Average Reward	8.800000
Episode	770	Reward	9.000000	Average Reward	9.600000
Episode	780	Reward	10.000000	Average Reward	9.200000
Episode	790	Reward	9.000000	Average Reward	9.600000
Episode	800	Reward	8.000000	Average Reward	9.300000
Episode	810	Reward	10.000000	Average Reward	9.500000
Episode	820	Reward	9.000000	Average Reward	9.100000
Episode	830	Reward	9.000000	Average Reward	9.300000
Episode	840	Reward	9.000000	Average Reward	8.900000
Episode	850	Reward	8.000000	Average Reward	9.200000
Episode	860	Reward	9.000000	Average Reward	9.200000
Episode	870	Reward	10.000000	Average Reward	9.300000

Episode 880 Reward 8.000000 Average Reward 8.900000
 Episode 890 Reward 9.000000 Average Reward 9.300000
 Episode 900 Reward 9.000000 Average Reward 9.400000
 Episode 910 Reward 10.000000 Average Reward 9.300000
 Episode 920 Reward 9.000000 Average Reward 8.700000
 Episode 930 Reward 9.000000 Average Reward 9.100000
 Episode 940 Reward 10.000000 Average Reward 9.400000
 Episode 950 Reward 9.000000 Average Reward 9.300000
 Episode 960 Reward 10.000000 Average Reward 9.400000
 Episode 970 Reward 9.000000 Average Reward 9.400000
 Episode 980 Reward 9.000000 Average Reward 8.900000
 Episode 990 Reward 10.000000 Average Reward 9.700000
 Episode 1000 Reward 9.000000 Average Reward 9.300000
 Episode 1010 Reward 10.000000 Average Reward 9.700000
 Episode 1020 Reward 9.000000 Average Reward 9.300000
 Episode 1030 Reward 9.000000 Average Reward 9.400000
 Episode 1040 Reward 9.000000 Average Reward 8.900000
 Episode 1050 Reward 10.000000 Average Reward 9.500000
 Episode 1060 Reward 8.000000 Average Reward 9.100000
 Episode 1070 Reward 9.000000 Average Reward 9.300000
 Episode 1080 Reward 9.000000 Average Reward 9.100000
 Episode 1090 Reward 10.000000 Average Reward 9.600000
 Episode 1100 Reward 10.000000 Average Reward 9.300000
 Episode 1110 Reward 9.000000 Average Reward 9.600000
 Episode 1120 Reward 11.000000 Average Reward 9.200000
 Episode 1130 Reward 10.000000 Average Reward 9.600000
 Episode 1140 Reward 10.000000 Average Reward 9.100000
 Episode 1150 Reward 9.000000 Average Reward 9.400000
 Episode 1160 Reward 10.000000 Average Reward 9.100000
 Episode 1170 Reward 10.000000 Average Reward 9.400000
 Episode 1180 Reward 8.000000 Average Reward 9.000000
 Episode 1190 Reward 10.000000 Average Reward 9.500000
 Episode 1200 Reward 10.000000 Average Reward 9.500000
 Episode 1210 Reward 10.000000 Average Reward 9.400000
 Episode 1220 Reward 10.000000 Average Reward 9.200000
 Episode 1230 Reward 10.000000 Average Reward 9.300000
 Episode 1240 Reward 8.000000 Average Reward 9.200000
 Episode 1250 Reward 9.000000 Average Reward 9.200000
 Episode 1260 Reward 9.000000 Average Reward 9.400000
 Episode 1270 Reward 8.000000 Average Reward 8.900000
 Episode 1280 Reward 10.000000 Average Reward 9.300000
 Episode 1290 Reward 10.000000 Average Reward 9.100000
 Episode 1300 Reward 9.000000 Average Reward 9.300000
 Episode 1310 Reward 10.000000 Average Reward 9.300000
 Episode 1320 Reward 9.000000 Average Reward 9.500000
 Episode 1330 Reward 10.000000 Average Reward 9.400000
 Episode 1340 Reward 9.000000 Average Reward 9.100000
 Episode 1350 Reward 9.000000 Average Reward 9.200000

Episode	1360	Reward	10.000000	Average	Reward	9.500000
Episode	1370	Reward	10.000000	Average	Reward	9.200000
Episode	1380	Reward	10.000000	Average	Reward	9.700000
Episode	1390	Reward	10.000000	Average	Reward	9.200000
Episode	1400	Reward	9.000000	Average	Reward	9.300000
Episode	1410	Reward	10.000000	Average	Reward	9.700000
Episode	1420	Reward	9.000000	Average	Reward	9.400000
Episode	1430	Reward	9.000000	Average	Reward	9.300000
Episode	1440	Reward	9.000000	Average	Reward	9.500000
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Episode	1460	Reward	9.000000	Average	Reward	9.500000
Episode	1470	Reward	10.000000	Average	Reward	9.200000
Episode	1480	Reward	10.000000	Average	Reward	9.400000
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Episode	1500	Reward	10.000000	Average	Reward	9.600000
Episode	1510	Reward	9.000000	Average	Reward	9.200000
Episode	1520	Reward	8.000000	Average	Reward	8.800000
Episode	1530	Reward	9.000000	Average	Reward	9.400000
Episode	1540	Reward	10.000000	Average	Reward	9.600000
Episode	1550	Reward	10.000000	Average	Reward	9.300000
Episode	1560	Reward	9.000000	Average	Reward	9.200000
Episode	1570	Reward	10.000000	Average	Reward	9.200000
Episode	1580	Reward	9.000000	Average	Reward	9.100000
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Episode	1640	Reward	9.000000	Average	Reward	9.700000
Episode	1650	Reward	9.000000	Average	Reward	9.100000
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Episode	1670	Reward	9.000000	Average	Reward	9.400000
Episode	1680	Reward	10.000000	Average	Reward	9.300000
Episode	1690	Reward	9.000000	Average	Reward	9.400000
Episode	1700	Reward	9.000000	Average	Reward	9.200000
Episode	1710	Reward	10.000000	Average	Reward	9.300000
Episode	1720	Reward	9.000000	Average	Reward	9.500000
Episode	1730	Reward	9.000000	Average	Reward	9.500000
Episode	1740	Reward	9.000000	Average	Reward	9.400000
Episode	1750	Reward	9.000000	Average	Reward	9.100000
Episode	1760	Reward	8.000000	Average	Reward	9.200000
Episode	1770	Reward	9.000000	Average	Reward	9.400000
Episode	1780	Reward	8.000000	Average	Reward	9.300000
Episode	1790	Reward	10.000000	Average	Reward	9.700000
Episode	1800	Reward	8.000000	Average	Reward	9.400000

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Run: 9 -----

Episode	10	Reward	15.000000	Average	Reward	21.700000
Episode	20	Reward	31.000000	Average	Reward	22.000000
Episode	30	Reward	37.000000	Average	Reward	35.200000
Episode	40	Reward	11.000000	Average	Reward	27.700000
Episode	50	Reward	8.000000	Average	Reward	9.600000
Episode	60	Reward	10.000000	Average	Reward	9.800000
Episode	70	Reward	10.000000	Average	Reward	9.300000
Episode	80	Reward	22.000000	Average	Reward	11.000000
Episode	90	Reward	9.000000	Average	Reward	12.500000
Episode	100	Reward	66.000000	Average	Reward	20.000000
Episode	110	Reward	12.000000	Average	Reward	12.300000
Episode	120	Reward	14.000000	Average	Reward	10.500000
Episode	130	Reward	15.000000	Average	Reward	12.700000
Episode	140	Reward	11.000000	Average	Reward	11.600000
Episode	150	Reward	16.000000	Average	Reward	15.900000
Episode	160	Reward	40.000000	Average	Reward	49.100000
Episode	170	Reward	45.000000	Average	Reward	62.700000
Episode	180	Reward	57.000000	Average	Reward	61.100000
Episode	190	Reward	9.000000	Average	Reward	43.500000
Episode	200	Reward	20.000000	Average	Reward	42.600000
Episode	210	Reward	21.000000	Average	Reward	24.800000
Episode	220	Reward	12.000000	Average	Reward	21.500000
Episode	230	Reward	17.000000	Average	Reward	26.900000
Episode	240	Reward	20.000000	Average	Reward	21.900000
Episode	250	Reward	25.000000	Average	Reward	30.200000
Episode	260	Reward	18.000000	Average	Reward	32.300000
Episode	270	Reward	100.000000	Average	Reward	91.900000
Episode	280	Reward	137.000000	Average	Reward	229.300000
Episode	290	Reward	473.000000	Average	Reward	318.300000
Episode	300	Reward	208.000000	Average	Reward	298.900000
Episode	310	Reward	15.000000	Average	Reward	196.700000
Episode	320	Reward	31.000000	Average	Reward	24.800000
Episode	330	Reward	36.000000	Average	Reward	28.500000
Episode	340	Reward	9.000000	Average	Reward	21.900000
Episode	350	Reward	9.000000	Average	Reward	8.900000
Episode	360	Reward	10.000000	Average	Reward	9.200000
Episode	370	Reward	10.000000	Average	Reward	9.300000
Episode	380	Reward	10.000000	Average	Reward	9.200000
Episode	390	Reward	8.000000	Average	Reward	9.300000
Episode	400	Reward	10.000000	Average	Reward	9.500000
Episode	410	Reward	8.000000	Average	Reward	9.500000
Episode	420	Reward	10.000000	Average	Reward	9.200000
Episode	430	Reward	10.000000	Average	Reward	9.300000
Episode	440	Reward	9.000000	Average	Reward	8.800000
Episode	450	Reward	9.000000	Average	Reward	9.500000
Episode	460	Reward	10.000000	Average	Reward	9.300000
Episode	470	Reward	9.000000	Average	Reward	9.600000
Episode	480	Reward	10.000000	Average	Reward	9.400000

Episode	490	Reward	9.000000	Average	Reward	9.500000
Episode	500	Reward	9.000000	Average	Reward	9.400000
Episode	510	Reward	9.000000	Average	Reward	9.000000
Episode	520	Reward	11.000000	Average	Reward	9.600000
Episode	530	Reward	9.000000	Average	Reward	9.000000
Episode	540	Reward	9.000000	Average	Reward	9.700000
Episode	550	Reward	10.000000	Average	Reward	9.100000
Episode	560	Reward	10.000000	Average	Reward	9.700000
Episode	570	Reward	9.000000	Average	Reward	9.600000
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Episode	590	Reward	10.000000	Average	Reward	9.300000
Episode	600	Reward	8.000000	Average	Reward	9.600000
Episode	610	Reward	9.000000	Average	Reward	9.300000
Episode	620	Reward	9.000000	Average	Reward	9.300000
Episode	630	Reward	8.000000	Average	Reward	9.400000
Episode	640	Reward	10.000000	Average	Reward	9.600000
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Episode	660	Reward	10.000000	Average	Reward	9.300000
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Episode	690	Reward	8.000000	Average	Reward	8.700000
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Episode	800	Reward	8.000000	Average	Reward	9.200000
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Episode	860	Reward	10.000000	Average	Reward	9.100000
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Episode	880	Reward	9.000000	Average	Reward	9.200000
Episode	890	Reward	8.000000	Average	Reward	9.100000
Episode	900	Reward	9.000000	Average	Reward	9.300000
Episode	910	Reward	10.000000	Average	Reward	9.000000
Episode	920	Reward	10.000000	Average	Reward	9.400000
Episode	930	Reward	9.000000	Average	Reward	9.500000
Episode	940	Reward	9.000000	Average	Reward	9.300000
Episode	950	Reward	10.000000	Average	Reward	9.600000
Episode	960	Reward	9.000000	Average	Reward	9.200000

Episode 970 Reward 9.000000 Average Reward 9.200000
Episode 980 Reward 9.000000 Average Reward 9.200000
Episode 990 Reward 9.000000 Average Reward 9.400000
Episode 1000 Reward 10.000000 Average Reward 9.400000
Episode 1010 Reward 9.000000 Average Reward 9.100000
Episode 1020 Reward 10.000000 Average Reward 9.100000
Episode 1030 Reward 10.000000 Average Reward 9.000000
Episode 1040 Reward 10.000000 Average Reward 9.400000
Episode 1050 Reward 9.000000 Average Reward 9.500000
Episode 1060 Reward 9.000000 Average Reward 9.100000
Episode 1070 Reward 9.000000 Average Reward 9.200000
Episode 1080 Reward 9.000000 Average Reward 9.200000
Episode 1090 Reward 10.000000 Average Reward 9.000000
Episode 1100 Reward 9.000000 Average Reward 9.500000
Episode 1110 Reward 9.000000 Average Reward 9.400000
Episode 1120 Reward 9.000000 Average Reward 9.300000
Episode 1130 Reward 10.000000 Average Reward 9.400000
Episode 1140 Reward 10.000000 Average Reward 9.600000
Episode 1150 Reward 9.000000 Average Reward 9.400000
Episode 1160 Reward 9.000000 Average Reward 9.100000
Episode 1170 Reward 10.000000 Average Reward 9.200000
Episode 1180 Reward 8.000000 Average Reward 9.400000
Episode 1190 Reward 9.000000 Average Reward 9.600000
Episode 1200 Reward 10.000000 Average Reward 9.300000
Episode 1210 Reward 10.000000 Average Reward 9.500000
Episode 1220 Reward 9.000000 Average Reward 9.200000
Episode 1230 Reward 10.000000 Average Reward 9.500000
Episode 1240 Reward 10.000000 Average Reward 9.200000
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Episode 1260 Reward 10.000000 Average Reward 9.600000
Episode 1270 Reward 10.000000 Average Reward 9.600000
Episode 1280 Reward 10.000000 Average Reward 9.500000
Episode 1290 Reward 8.000000 Average Reward 9.200000
Episode 1300 Reward 9.000000 Average Reward 9.400000
Episode 1310 Reward 10.000000 Average Reward 9.600000
Episode 1320 Reward 9.000000 Average Reward 9.100000
Episode 1330 Reward 9.000000 Average Reward 9.600000
Episode 1340 Reward 9.000000 Average Reward 9.000000
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Episode 1360 Reward 9.000000 Average Reward 9.900000
Episode 1370 Reward 10.000000 Average Reward 9.600000
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Episode 1390 Reward 10.000000 Average Reward 9.500000
Episode 1400 Reward 9.000000 Average Reward 9.200000
Episode 1410 Reward 9.000000 Average Reward 9.100000
Episode 1420 Reward 9.000000 Average Reward 9.300000
Episode 1430 Reward 9.000000 Average Reward 9.300000
Episode 1440 Reward 9.000000 Average Reward 9.200000

Episode 1450 Reward 10.000000 Average Reward 9.400000
 Episode 1460 Reward 9.000000 Average Reward 9.200000
 Episode 1470 Reward 9.000000 Average Reward 9.400000
 Episode 1480 Reward 10.000000 Average Reward 9.300000
 Episode 1490 Reward 10.000000 Average Reward 9.400000
 Episode 1500 Reward 9.000000 Average Reward 9.000000
 Episode 1510 Reward 10.000000 Average Reward 9.200000
 Episode 1520 Reward 9.000000 Average Reward 9.400000
 Episode 1530 Reward 9.000000 Average Reward 9.200000
 Episode 1540 Reward 9.000000 Average Reward 9.300000
 Episode 1550 Reward 9.000000 Average Reward 9.200000
 Episode 1560 Reward 8.000000 Average Reward 9.400000
 Episode 1570 Reward 9.000000 Average Reward 9.400000
 Episode 1580 Reward 10.000000 Average Reward 9.300000
 Episode 1590 Reward 10.000000 Average Reward 9.200000
 Episode 1600 Reward 9.000000 Average Reward 9.200000
 Episode 1610 Reward 9.000000 Average Reward 9.300000
 Episode 1620 Reward 9.000000 Average Reward 9.400000
 Episode 1630 Reward 9.000000 Average Reward 9.600000
 Episode 1640 Reward 8.000000 Average Reward 9.300000
 Episode 1650 Reward 9.000000 Average Reward 9.300000
 Episode 1660 Reward 10.000000 Average Reward 9.500000
 Episode 1670 Reward 9.000000 Average Reward 9.600000
 Episode 1680 Reward 9.000000 Average Reward 9.000000
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 Episode 1710 Reward 9.000000 Average Reward 9.300000
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 Episode 1740 Reward 10.000000 Average Reward 9.600000
 Episode 1750 Reward 9.000000 Average Reward 9.500000
 Episode 1760 Reward 10.000000 Average Reward 9.900000
 Episode 1770 Reward 9.000000 Average Reward 9.700000
 Episode 1780 Reward 9.000000 Average Reward 9.500000
 Episode 1790 Reward 10.000000 Average Reward 9.300000
 Episode 1800 Reward 10.000000 Average Reward 8.700000

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Run: 10 -----

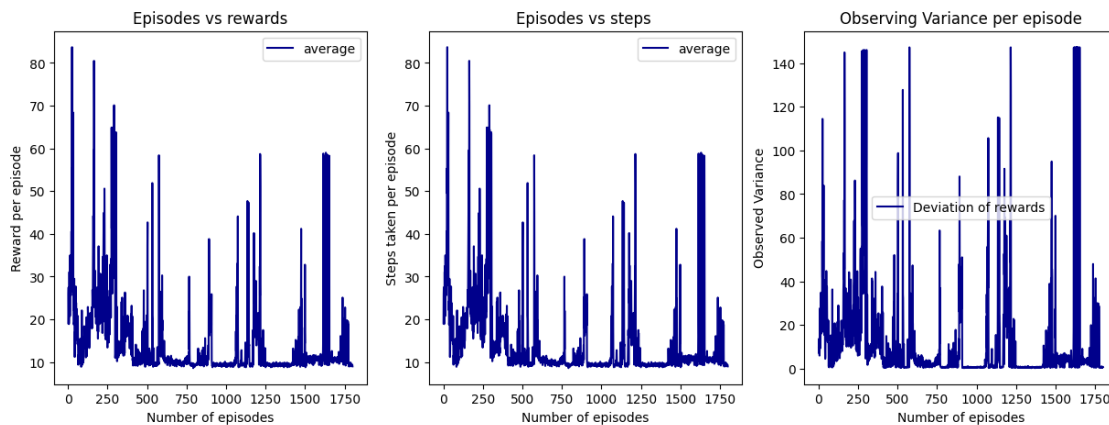
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 Episode 20 Reward 28.000000 Average Reward 65.700000
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 Episode 50 Reward 9.000000 Average Reward 9.300000
 Episode 60 Reward 9.000000 Average Reward 9.300000
 Episode 70 Reward 10.000000 Average Reward 9.100000
 Episode 80 Reward 9.000000 Average Reward 9.800000
 Episode 90 Reward 10.000000 Average Reward 9.600000

Episode	100	Reward	10.000000	Average	Reward	9.600000
Episode	110	Reward	31.000000	Average	Reward	41.900000
Episode	120	Reward	83.000000	Average	Reward	39.700000
Episode	130	Reward	29.000000	Average	Reward	48.800000
Episode	140	Reward	30.000000	Average	Reward	23.900000
Episode	150	Reward	29.000000	Average	Reward	37.700000
Episode	160	Reward	35.000000	Average	Reward	45.800000
Episode	170	Reward	22.000000	Average	Reward	43.400000
Episode	180	Reward	25.000000	Average	Reward	21.000000
Episode	190	Reward	25.000000	Average	Reward	52.700000
Episode	200	Reward	92.000000	Average	Reward	43.000000
Episode	210	Reward	25.000000	Average	Reward	48.200000
Episode	220	Reward	74.000000	Average	Reward	60.900000
Episode	230	Reward	56.000000	Average	Reward	58.900000
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Episode	250	Reward	29.000000	Average	Reward	50.300000
Episode	260	Reward	52.000000	Average	Reward	33.300000
Episode	270	Reward	48.000000	Average	Reward	43.100000
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Episode	290	Reward	44.000000	Average	Reward	50.400000
Episode	300	Reward	23.000000	Average	Reward	46.000000
Episode	310	Reward	11.000000	Average	Reward	46.500000
Episode	320	Reward	28.000000	Average	Reward	30.300000
Episode	330	Reward	39.000000	Average	Reward	25.400000
Episode	340	Reward	44.000000	Average	Reward	42.500000
Episode	350	Reward	33.000000	Average	Reward	63.600000
Episode	360	Reward	159.000000	Average	Reward	42.700000
Episode	370	Reward	62.000000	Average	Reward	56.200000
Episode	380	Reward	58.000000	Average	Reward	66.700000
Episode	390	Reward	25.000000	Average	Reward	43.000000
Episode	400	Reward	9.000000	Average	Reward	9.700000
Episode	410	Reward	9.000000	Average	Reward	9.400000
Episode	420	Reward	10.000000	Average	Reward	9.500000
Episode	430	Reward	9.000000	Average	Reward	9.500000
Episode	440	Reward	11.000000	Average	Reward	9.500000
Episode	450	Reward	8.000000	Average	Reward	9.300000
Episode	460	Reward	10.000000	Average	Reward	9.100000
Episode	470	Reward	10.000000	Average	Reward	9.200000
Episode	480	Reward	8.000000	Average	Reward	9.100000
Episode	490	Reward	9.000000	Average	Reward	9.200000
Episode	500	Reward	9.000000	Average	Reward	9.100000
Episode	510	Reward	8.000000	Average	Reward	8.900000
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Episode	530	Reward	10.000000	Average	Reward	9.600000
Episode	540	Reward	10.000000	Average	Reward	9.300000
Episode	550	Reward	9.000000	Average	Reward	9.600000
Episode	560	Reward	10.000000	Average	Reward	9.600000
Episode	570	Reward	8.000000	Average	Reward	9.500000

Episode	580	Reward	10.000000	Average Reward	9.700000
Episode	590	Reward	9.000000	Average Reward	9.600000
Episode	600	Reward	10.000000	Average Reward	9.600000
Episode	610	Reward	9.000000	Average Reward	9.300000
Episode	620	Reward	10.000000	Average Reward	9.400000
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Episode	640	Reward	10.000000	Average Reward	9.700000
Episode	650	Reward	10.000000	Average Reward	9.400000
Episode	660	Reward	8.000000	Average Reward	9.300000
Episode	670	Reward	10.000000	Average Reward	9.400000
Episode	680	Reward	11.000000	Average Reward	9.500000
Episode	690	Reward	10.000000	Average Reward	9.300000
Episode	700	Reward	10.000000	Average Reward	9.700000
Episode	710	Reward	10.000000	Average Reward	9.300000
Episode	720	Reward	8.000000	Average Reward	9.100000
Episode	730	Reward	9.000000	Average Reward	9.300000
Episode	740	Reward	10.000000	Average Reward	9.400000
Episode	750	Reward	8.000000	Average Reward	9.300000
Episode	760	Reward	9.000000	Average Reward	9.200000
Episode	770	Reward	9.000000	Average Reward	9.200000
Episode	780	Reward	9.000000	Average Reward	9.200000
Episode	790	Reward	8.000000	Average Reward	9.300000
Episode	800	Reward	10.000000	Average Reward	9.000000
Episode	810	Reward	8.000000	Average Reward	9.100000
Episode	820	Reward	9.000000	Average Reward	9.500000
Episode	830	Reward	10.000000	Average Reward	9.500000
Episode	840	Reward	10.000000	Average Reward	9.300000
Episode	850	Reward	9.000000	Average Reward	9.300000
Episode	860	Reward	9.000000	Average Reward	9.600000
Episode	870	Reward	10.000000	Average Reward	9.200000
Episode	880	Reward	10.000000	Average Reward	10.100000
Episode	890	Reward	8.000000	Average Reward	9.100000
Episode	900	Reward	10.000000	Average Reward	9.500000
Episode	910	Reward	9.000000	Average Reward	9.600000
Episode	920	Reward	8.000000	Average Reward	9.100000
Episode	930	Reward	9.000000	Average Reward	9.500000
Episode	940	Reward	10.000000	Average Reward	9.700000
Episode	950	Reward	9.000000	Average Reward	9.300000
Episode	960	Reward	11.000000	Average Reward	9.900000
Episode	970	Reward	9.000000	Average Reward	9.300000
Episode	980	Reward	10.000000	Average Reward	9.500000
Episode	990	Reward	11.000000	Average Reward	9.600000
Episode	1000	Reward	9.000000	Average Reward	9.600000
Episode	1010	Reward	9.000000	Average Reward	8.700000
Episode	1020	Reward	8.000000	Average Reward	9.100000
Episode	1030	Reward	10.000000	Average Reward	9.500000
Episode	1040	Reward	10.000000	Average Reward	9.300000
Episode	1050	Reward	10.000000	Average Reward	9.400000

Episode	1060	Reward	10.000000	Average Reward	9.500000
Episode	1070	Reward	9.000000	Average Reward	9.300000
Episode	1080	Reward	11.000000	Average Reward	9.600000
Episode	1090	Reward	9.000000	Average Reward	9.100000
Episode	1100	Reward	9.000000	Average Reward	9.100000
Episode	1110	Reward	10.000000	Average Reward	9.300000
Episode	1120	Reward	8.000000	Average Reward	9.400000
Episode	1130	Reward	9.000000	Average Reward	9.500000
Episode	1140	Reward	10.000000	Average Reward	9.100000
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Episode	1160	Reward	10.000000	Average Reward	9.400000
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Episode	1180	Reward	9.000000	Average Reward	9.500000
Episode	1190	Reward	8.000000	Average Reward	9.400000
Episode	1200	Reward	10.000000	Average Reward	9.700000
Episode	1210	Reward	10.000000	Average Reward	9.600000
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Episode 1540 Reward 10.000000 Average Reward 9.600000
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C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
packages\wandb\sdk\lib\ipython.py:47: DeprecationWarning: Importing display from
IPython.core.display is deprecated since IPython 7.14, please import from
IPython display

```

```

    from IPython.core.display import HTML, display # type: ignore

```

```

<IPython.core.display.HTML object>

```

```

<IPython.core.display.HTML object>

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```

<IPython.core.display.HTML object>

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```

<IPython.core.display.HTML object>

```

```

wandb: Agent Starting Run: hfqvs3yx with config:

```

```

wandb:     LR: 8.628097296464201e-05

```

```

wandb:     NUM_EPISODES: 2000

```

```

wandb:     NUM_LAYERS: 2

```

```

wandb:     NUM_NEURONS_EACH_LAYER: 724

```

```

Failed to detect the name of this notebook, you can set it manually with the
WANDB_NOTEBOOK_NAME environment variable to enable code saving.

```

```

C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
packages\wandb\sdk\lib\ipython.py:47: DeprecationWarning: Importing display from
IPython.core.display is deprecated since IPython 7.14, please import from
IPython display

```

```

    from IPython.core.display import HTML, display # type: ignore

```

```

<IPython.core.display.HTML object>
<IPython.core.display.HTML object>
<IPython.core.display.HTML object>
<IPython.core.display.HTML object>
<IPython.core.display.HTML object>
<IPython.core.display.HTML object>

C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
packages\gym\core.py:317: DeprecationWarning: WARN: Initializing wrapper in
old step API which returns one bool instead of two. It is recommended to set
`new_step_api=True` to use new step API. This will be the default behaviour in
future.
    deprecation(
C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
packages\gym\wrappers\step_api_compatibility.py:39: DeprecationWarning:
WARN: Initializing environment in old step API which returns one bool
instead of two. It is recommended to set `new_step_api=True` to use new step
API. This will be the default behaviour in future.
    deprecation(
C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
packages\gym\core.py:256: DeprecationWarning: WARN: Function
`env.seed(seed)` is marked as deprecated and will be removed in the future.
Please use `env.reset(seed=seed)` instead.
    deprecation(

Run:  1  -----
Episode  10 Reward 13.000000 Average Reward 17.600000
Episode  20 Reward 54.000000 Average Reward 39.500000
Episode  30 Reward 98.000000 Average Reward 63.800000
Episode  40 Reward 91.000000 Average Reward 82.300000
Episode  50 Reward 136.000000 Average Reward 143.100000
Episode  60 Reward 99.000000 Average Reward 89.700000
Episode  70 Reward 92.000000 Average Reward 107.800000
Episode  80 Reward 89.000000 Average Reward 128.500000
Episode  90 Reward 156.000000 Average Reward 93.900000
Episode 100 Reward 67.000000 Average Reward 104.600000
Episode 110 Reward 85.000000 Average Reward 102.900000
Episode 120 Reward 57.000000 Average Reward 87.600000
Episode 130 Reward 57.000000 Average Reward 112.200000

```

Episode 140 Reward 73.000000 Average Reward 86.600000
 Episode 150 Reward 58.000000 Average Reward 109.900000
 Episode 160 Reward 88.000000 Average Reward 78.700000
 Episode 170 Reward 68.000000 Average Reward 80.700000
 Episode 180 Reward 272.000000 Average Reward 159.700000
 Episode 190 Reward 164.000000 Average Reward 233.000000
 Episode 200 Reward 174.000000 Average Reward 199.800000
 Episode 210 Reward 94.000000 Average Reward 148.500000
 Episode 220 Reward 76.000000 Average Reward 109.200000
 Episode 230 Reward 76.000000 Average Reward 92.600000
 Episode 240 Reward 189.000000 Average Reward 97.000000
 Episode 250 Reward 47.000000 Average Reward 73.200000
 Episode 260 Reward 54.000000 Average Reward 70.800000
 Episode 270 Reward 86.000000 Average Reward 64.900000
 Episode 280 Reward 51.000000 Average Reward 77.000000
 Episode 290 Reward 74.000000 Average Reward 76.200000
 Episode 300 Reward 304.000000 Average Reward 180.300000
 Episode 310 Reward 434.000000 Average Reward 255.000000
 Episode 320 Reward 500.000000 Average Reward 382.500000
 Episode 330 Reward 225.000000 Average Reward 417.600000
 Episode 340 Reward 240.000000 Average Reward 224.600000

Stopped at Episode 249

0:06:29.022593

0:06:29.053599

Run: 2 -----
 Episode 10 Reward 48.000000 Average Reward 25.900000
 Episode 20 Reward 69.000000 Average Reward 44.800000
 Episode 30 Reward 114.000000 Average Reward 66.300000
 Episode 40 Reward 79.000000 Average Reward 69.500000
 Episode 50 Reward 63.000000 Average Reward 78.700000
 Episode 60 Reward 41.000000 Average Reward 72.000000
 Episode 70 Reward 138.000000 Average Reward 89.400000
 Episode 80 Reward 332.000000 Average Reward 135.000000
 Episode 90 Reward 41.000000 Average Reward 82.700000
 Episode 100 Reward 63.000000 Average Reward 75.300000
 Episode 110 Reward 115.000000 Average Reward 77.600000
 Episode 120 Reward 138.000000 Average Reward 158.300000
 Episode 130 Reward 273.000000 Average Reward 196.600000
 Episode 140 Reward 125.000000 Average Reward 138.900000
 Episode 150 Reward 115.000000 Average Reward 157.100000
 Episode 160 Reward 500.000000 Average Reward 191.000000
 Episode 170 Reward 138.000000 Average Reward 149.000000
 Episode 180 Reward 107.000000 Average Reward 173.000000
 Episode 190 Reward 156.000000 Average Reward 201.600000
 Episode 200 Reward 74.000000 Average Reward 76.400000
 Episode 210 Reward 77.000000 Average Reward 76.300000
 Episode 220 Reward 88.000000 Average Reward 72.800000
 Episode 230 Reward 46.000000 Average Reward 70.000000

Episode 240 Reward 50.000000 Average Reward 59.100000
Episode 250 Reward 49.000000 Average Reward 75.900000
Episode 260 Reward 67.000000 Average Reward 82.700000
Episode 270 Reward 57.000000 Average Reward 95.100000
Episode 280 Reward 78.000000 Average Reward 61.000000
Episode 290 Reward 214.000000 Average Reward 169.000000
Episode 300 Reward 471.000000 Average Reward 249.100000
Episode 310 Reward 500.000000 Average Reward 427.600000
Episode 320 Reward 500.000000 Average Reward 392.900000
Stopped at Episode 227

0:06:31.112242

0:06:31.142248

Run: 3 -----

Episode 10 Reward 38.000000 Average Reward 22.000000
Episode 20 Reward 65.000000 Average Reward 33.700000
Episode 30 Reward 75.000000 Average Reward 60.300000
Episode 40 Reward 121.000000 Average Reward 74.400000
Episode 50 Reward 95.000000 Average Reward 90.800000
Episode 60 Reward 266.000000 Average Reward 115.400000
Episode 70 Reward 83.000000 Average Reward 89.100000
Episode 80 Reward 65.000000 Average Reward 69.500000
Episode 90 Reward 82.000000 Average Reward 78.500000
Episode 100 Reward 80.000000 Average Reward 67.700000
Episode 110 Reward 48.000000 Average Reward 63.100000
Episode 120 Reward 48.000000 Average Reward 59.500000
Episode 130 Reward 65.000000 Average Reward 63.200000
Episode 140 Reward 52.000000 Average Reward 60.500000
Episode 150 Reward 99.000000 Average Reward 69.500000
Episode 160 Reward 67.000000 Average Reward 166.100000
Episode 170 Reward 95.000000 Average Reward 81.300000
Episode 180 Reward 56.000000 Average Reward 97.800000
Episode 190 Reward 182.000000 Average Reward 128.500000
Episode 200 Reward 207.000000 Average Reward 217.400000
Episode 210 Reward 116.000000 Average Reward 197.200000
Episode 220 Reward 313.000000 Average Reward 190.700000
Episode 230 Reward 97.000000 Average Reward 123.000000
Episode 240 Reward 60.000000 Average Reward 107.200000
Episode 250 Reward 138.000000 Average Reward 131.800000
Episode 260 Reward 128.000000 Average Reward 121.400000
Episode 270 Reward 129.000000 Average Reward 96.200000
Episode 280 Reward 193.000000 Average Reward 151.000000
Episode 290 Reward 77.000000 Average Reward 112.100000
Episode 300 Reward 135.000000 Average Reward 130.400000
Episode 310 Reward 99.000000 Average Reward 203.900000
Episode 320 Reward 171.000000 Average Reward 204.000000
Episode 330 Reward 237.000000 Average Reward 410.400000
Episode 340 Reward 231.000000 Average Reward 303.000000
Stopped at Episode 244

0:06:19.734445

0:06:19.764452

Run: 4 -----

Episode	10	Reward	11.000000	Average	Reward	21.300000
Episode	20	Reward	12.000000	Average	Reward	23.700000
Episode	30	Reward	37.000000	Average	Reward	44.200000
Episode	40	Reward	61.000000	Average	Reward	61.600000
Episode	50	Reward	76.000000	Average	Reward	83.100000
Episode	60	Reward	65.000000	Average	Reward	78.200000
Episode	70	Reward	227.000000	Average	Reward	88.600000
Episode	80	Reward	59.000000	Average	Reward	109.800000
Episode	90	Reward	94.000000	Average	Reward	85.700000
Episode	100	Reward	71.000000	Average	Reward	124.800000
Episode	110	Reward	86.000000	Average	Reward	99.000000
Episode	120	Reward	190.000000	Average	Reward	125.200000
Episode	130	Reward	85.000000	Average	Reward	150.000000
Episode	140	Reward	93.000000	Average	Reward	126.100000
Episode	150	Reward	146.000000	Average	Reward	112.800000
Episode	160	Reward	185.000000	Average	Reward	145.700000
Episode	170	Reward	94.000000	Average	Reward	116.500000
Episode	180	Reward	61.000000	Average	Reward	84.900000
Episode	190	Reward	87.000000	Average	Reward	65.700000
Episode	200	Reward	79.000000	Average	Reward	79.800000
Episode	210	Reward	83.000000	Average	Reward	91.800000
Episode	220	Reward	73.000000	Average	Reward	84.700000
Episode	230	Reward	131.000000	Average	Reward	136.800000
Episode	240	Reward	161.000000	Average	Reward	164.600000
Episode	250	Reward	111.000000	Average	Reward	133.600000
Episode	260	Reward	207.000000	Average	Reward	147.400000
Episode	270	Reward	111.000000	Average	Reward	133.000000
Episode	280	Reward	71.000000	Average	Reward	174.900000
Episode	290	Reward	138.000000	Average	Reward	91.200000
Episode	300	Reward	186.000000	Average	Reward	144.700000
Episode	310	Reward	160.000000	Average	Reward	160.700000
Episode	320	Reward	208.000000	Average	Reward	277.800000
Episode	330	Reward	225.000000	Average	Reward	261.300000
Episode	340	Reward	164.000000	Average	Reward	225.700000
Episode	350	Reward	191.000000	Average	Reward	295.900000

Stopped at Episode 252

0:06:29.185118

0:06:29.215124

Run: 5 -----

Episode	10	Reward	16.000000	Average	Reward	27.300000
Episode	20	Reward	72.000000	Average	Reward	42.600000
Episode	30	Reward	37.000000	Average	Reward	64.100000
Episode	40	Reward	51.000000	Average	Reward	62.400000
Episode	50	Reward	69.000000	Average	Reward	85.300000
Episode	60	Reward	83.000000	Average	Reward	95.400000

```

Episode 70 Reward 205.000000 Average Reward 106.700000
Episode 80 Reward 142.000000 Average Reward 87.400000
Episode 90 Reward 169.000000 Average Reward 107.100000
Episode 100 Reward 67.000000 Average Reward 92.400000
Episode 110 Reward 187.000000 Average Reward 123.800000
Episode 120 Reward 90.000000 Average Reward 112.300000
Episode 130 Reward 77.000000 Average Reward 88.700000
Episode 140 Reward 49.000000 Average Reward 82.800000
Episode 150 Reward 51.000000 Average Reward 59.500000
Episode 160 Reward 164.000000 Average Reward 95.900000
Episode 170 Reward 72.000000 Average Reward 75.300000
Episode 180 Reward 63.000000 Average Reward 82.900000
Episode 190 Reward 52.000000 Average Reward 72.600000
Episode 200 Reward 44.000000 Average Reward 60.000000
Episode 210 Reward 106.000000 Average Reward 67.500000
Episode 220 Reward 127.000000 Average Reward 95.000000
Episode 230 Reward 75.000000 Average Reward 114.200000
Episode 240 Reward 188.000000 Average Reward 83.800000
Episode 250 Reward 114.000000 Average Reward 119.700000
Episode 260 Reward 103.000000 Average Reward 125.000000
Episode 270 Reward 165.000000 Average Reward 90.000000
Episode 280 Reward 132.000000 Average Reward 135.000000
Episode 290 Reward 133.000000 Average Reward 93.100000
Episode 300 Reward 132.000000 Average Reward 88.800000
Episode 310 Reward 145.000000 Average Reward 160.300000
Episode 320 Reward 60.000000 Average Reward 106.300000
Episode 330 Reward 105.000000 Average Reward 113.500000
Episode 340 Reward 91.000000 Average Reward 124.000000
Episode 350 Reward 230.000000 Average Reward 169.200000
Episode 360 Reward 310.000000 Average Reward 320.600000
Episode 370 Reward 216.000000 Average Reward 274.500000
Episode 380 Reward 174.000000 Average Reward 176.900000
Episode 390 Reward 254.000000 Average Reward 208.900000

```

Stopped at Episode 298

0:06:25.490989

0:06:25.517994

```

Run: 6 -----
Episode 10 Reward 19.000000 Average Reward 26.700000
Episode 20 Reward 38.000000 Average Reward 31.400000
Episode 30 Reward 81.000000 Average Reward 81.800000
Episode 40 Reward 117.000000 Average Reward 81.300000
Episode 50 Reward 164.000000 Average Reward 85.300000
Episode 60 Reward 162.000000 Average Reward 97.100000
Episode 70 Reward 110.000000 Average Reward 100.000000
Episode 80 Reward 246.000000 Average Reward 130.100000
Episode 90 Reward 111.000000 Average Reward 100.100000
Episode 100 Reward 86.000000 Average Reward 95.500000
Episode 110 Reward 75.000000 Average Reward 79.400000

```

Episode 120 Reward 74.000000 Average Reward 91.000000
 Episode 130 Reward 129.000000 Average Reward 107.600000
 Episode 140 Reward 61.000000 Average Reward 79.500000
 Episode 150 Reward 93.000000 Average Reward 109.300000
 Episode 160 Reward 141.000000 Average Reward 130.000000
 Episode 170 Reward 99.000000 Average Reward 150.000000
 Episode 180 Reward 53.000000 Average Reward 109.400000
 Episode 190 Reward 56.000000 Average Reward 55.400000
 Episode 200 Reward 55.000000 Average Reward 74.400000
 Episode 210 Reward 50.000000 Average Reward 65.100000
 Episode 220 Reward 49.000000 Average Reward 52.600000
 Episode 230 Reward 48.000000 Average Reward 68.500000
 Episode 240 Reward 38.000000 Average Reward 67.400000
 Episode 250 Reward 149.000000 Average Reward 78.300000
 Episode 260 Reward 41.000000 Average Reward 87.300000
 Episode 270 Reward 52.000000 Average Reward 49.600000
 Episode 280 Reward 61.000000 Average Reward 81.800000
 Episode 290 Reward 198.000000 Average Reward 126.400000
 Episode 300 Reward 156.000000 Average Reward 212.900000
 Episode 310 Reward 146.000000 Average Reward 137.900000
 Episode 320 Reward 73.000000 Average Reward 74.900000
 Episode 330 Reward 78.000000 Average Reward 104.500000
 Episode 340 Reward 500.000000 Average Reward 171.400000
 Episode 350 Reward 157.000000 Average Reward 244.600000
 Episode 360 Reward 222.000000 Average Reward 168.500000
 Episode 370 Reward 197.000000 Average Reward 191.000000
 Episode 380 Reward 154.000000 Average Reward 203.500000
 Episode 390 Reward 221.000000 Average Reward 329.900000
 Episode 400 Reward 105.000000 Average Reward 261.900000
 Episode 410 Reward 299.000000 Average Reward 153.900000

Stopped at Episode 313

0:06:58.342906

0:06:58.368911

Run: 7 -----
 Episode 10 Reward 35.000000 Average Reward 26.300000
 Episode 20 Reward 71.000000 Average Reward 65.300000
 Episode 30 Reward 64.000000 Average Reward 70.100000
 Episode 40 Reward 40.000000 Average Reward 65.400000
 Episode 50 Reward 63.000000 Average Reward 69.300000
 Episode 60 Reward 78.000000 Average Reward 78.000000
 Episode 70 Reward 50.000000 Average Reward 89.200000
 Episode 80 Reward 59.000000 Average Reward 73.900000
 Episode 90 Reward 149.000000 Average Reward 79.500000
 Episode 100 Reward 84.000000 Average Reward 93.000000
 Episode 110 Reward 155.000000 Average Reward 110.800000
 Episode 120 Reward 74.000000 Average Reward 134.500000
 Episode 130 Reward 101.000000 Average Reward 145.500000
 Episode 140 Reward 166.000000 Average Reward 121.400000

```

Episode 150 Reward 131.000000 Average Reward 132.800000
Episode 160 Reward 117.000000 Average Reward 146.000000
Episode 170 Reward 122.000000 Average Reward 146.400000
Episode 180 Reward 85.000000 Average Reward 177.900000
Episode 190 Reward 123.000000 Average Reward 131.300000
Episode 200 Reward 61.000000 Average Reward 77.300000
Episode 210 Reward 42.000000 Average Reward 57.700000
Episode 220 Reward 107.000000 Average Reward 72.200000
Episode 230 Reward 65.000000 Average Reward 73.100000
Episode 240 Reward 46.000000 Average Reward 80.500000
Episode 250 Reward 68.000000 Average Reward 76.700000
Episode 260 Reward 74.000000 Average Reward 95.000000
Episode 270 Reward 59.000000 Average Reward 59.600000
Episode 280 Reward 144.000000 Average Reward 93.400000
Episode 290 Reward 244.000000 Average Reward 144.300000
Episode 300 Reward 142.000000 Average Reward 157.500000
Episode 310 Reward 84.000000 Average Reward 136.400000
Episode 320 Reward 83.000000 Average Reward 205.500000
Episode 330 Reward 142.000000 Average Reward 162.700000
Episode 340 Reward 242.000000 Average Reward 162.000000
Episode 350 Reward 80.000000 Average Reward 146.100000
Episode 360 Reward 128.000000 Average Reward 100.600000
Episode 370 Reward 206.000000 Average Reward 231.800000
Episode 380 Reward 170.000000 Average Reward 318.400000
Episode 390 Reward 180.000000 Average Reward 201.100000
Episode 400 Reward 180.000000 Average Reward 173.200000
Stopped at Episode 308
0:06:54.971780
0:06:54.998786

```

```

Run: 8 -----
Episode 10 Reward 15.000000 Average Reward 23.300000
Episode 20 Reward 34.000000 Average Reward 39.300000
Episode 30 Reward 58.000000 Average Reward 59.800000
Episode 40 Reward 109.000000 Average Reward 99.700000
Episode 50 Reward 89.000000 Average Reward 124.400000
Episode 60 Reward 76.000000 Average Reward 92.100000
Episode 70 Reward 57.000000 Average Reward 99.200000
Episode 80 Reward 98.000000 Average Reward 97.700000
Episode 90 Reward 69.000000 Average Reward 59.200000
Episode 100 Reward 75.000000 Average Reward 71.300000
Episode 110 Reward 120.000000 Average Reward 86.700000
Episode 120 Reward 85.000000 Average Reward 166.000000
Episode 130 Reward 244.000000 Average Reward 181.500000
Episode 140 Reward 62.000000 Average Reward 106.100000
Episode 150 Reward 50.000000 Average Reward 72.100000
Episode 160 Reward 79.000000 Average Reward 87.200000
Episode 170 Reward 121.000000 Average Reward 147.900000
Episode 180 Reward 151.000000 Average Reward 269.600000

```

Episode 190 Reward 147.000000 Average Reward 182.200000
Episode 200 Reward 159.000000 Average Reward 290.700000
Episode 210 Reward 275.000000 Average Reward 185.800000
Episode 220 Reward 500.000000 Average Reward 394.600000
Stopped at Episode 122

0:04:05.718439

0:04:05.745444

Run: 9 -----

Episode 10 Reward 19.000000 Average Reward 31.000000
Episode 20 Reward 13.000000 Average Reward 33.000000
Episode 30 Reward 45.000000 Average Reward 65.600000
Episode 40 Reward 108.000000 Average Reward 86.400000
Episode 50 Reward 46.000000 Average Reward 81.300000
Episode 60 Reward 79.000000 Average Reward 73.600000
Episode 70 Reward 55.000000 Average Reward 71.600000
Episode 80 Reward 79.000000 Average Reward 81.700000
Episode 90 Reward 52.000000 Average Reward 102.500000
Episode 100 Reward 76.000000 Average Reward 64.800000
Episode 110 Reward 125.000000 Average Reward 86.500000
Episode 120 Reward 115.000000 Average Reward 94.300000
Episode 130 Reward 96.000000 Average Reward 103.500000
Episode 140 Reward 430.000000 Average Reward 173.200000
Episode 150 Reward 309.000000 Average Reward 189.600000
Episode 160 Reward 198.000000 Average Reward 227.300000
Episode 170 Reward 141.000000 Average Reward 162.700000
Episode 180 Reward 202.000000 Average Reward 317.200000
Episode 190 Reward 322.000000 Average Reward 315.500000
Episode 200 Reward 473.000000 Average Reward 301.300000
Stopped at Episode 101

0:03:48.935652

0:03:48.967659

Run: 10 -----

Episode 10 Reward 13.000000 Average Reward 31.900000
Episode 20 Reward 25.000000 Average Reward 26.800000
Episode 30 Reward 42.000000 Average Reward 43.300000
Episode 40 Reward 48.000000 Average Reward 59.100000
Episode 50 Reward 64.000000 Average Reward 69.500000
Episode 60 Reward 69.000000 Average Reward 83.500000
Episode 70 Reward 73.000000 Average Reward 74.500000
Episode 80 Reward 72.000000 Average Reward 78.500000
Episode 90 Reward 55.000000 Average Reward 58.400000
Episode 100 Reward 64.000000 Average Reward 104.800000
Episode 110 Reward 240.000000 Average Reward 89.300000
Episode 120 Reward 82.000000 Average Reward 68.900000
Episode 130 Reward 103.000000 Average Reward 77.100000
Episode 140 Reward 73.000000 Average Reward 76.100000
Episode 150 Reward 84.000000 Average Reward 126.800000
Episode 160 Reward 129.000000 Average Reward 157.200000

```

Episode 170 Reward 102.000000 Average Reward 136.800000
Episode 180 Reward 95.000000 Average Reward 134.100000
Episode 190 Reward 69.000000 Average Reward 70.400000
Episode 200 Reward 114.000000 Average Reward 88.000000
Episode 210 Reward 55.000000 Average Reward 64.200000
Episode 220 Reward 99.000000 Average Reward 62.900000
Episode 230 Reward 79.000000 Average Reward 76.400000
Episode 240 Reward 52.000000 Average Reward 68.100000
Episode 250 Reward 202.000000 Average Reward 118.700000
Episode 260 Reward 171.000000 Average Reward 194.300000
Episode 270 Reward 165.000000 Average Reward 163.300000
Episode 280 Reward 309.000000 Average Reward 310.800000
Episode 290 Reward 500.000000 Average Reward 500.000000
Stopped at Episode 198
0:05:14.292910
0:05:14.319916

```

```

C:\Users\CFI Workstation\AppData\Local\Temp\ipykernel_18816\4175739595.py:89:
VisibleDeprecationWarning: Creating an ndarray from ragged nested sequences
(which is a list-or-tuple of lists-or-tuples-or ndarrays with different lengths
or shapes) is deprecated. If you meant to do this, you must specify
'dtype=object' when creating the ndarray.

```

```

    rewards = np.array(rewards_over_10_runs)

```

```

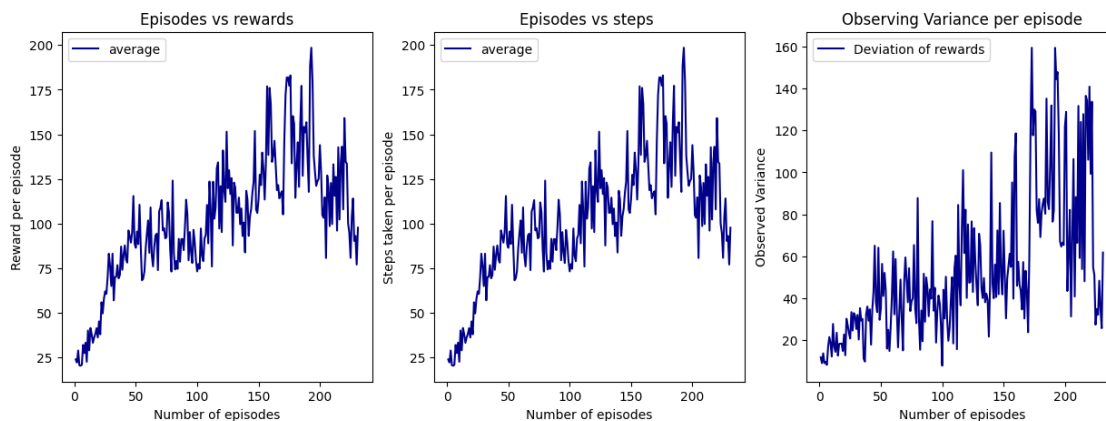
C:\Users\CFI Workstation\AppData\Local\Temp\ipykernel_18816\4175739595.py:91:
VisibleDeprecationWarning: Creating an ndarray from ragged nested sequences
(which is a list-or-tuple of lists-or-tuples-or ndarrays with different lengths
or shapes) is deprecated. If you meant to do this, you must specify
'dtype=object' when creating the ndarray.

```

```

    steps = np.array(steps_over_10_runs)

```



```

Episode: 1 Number of steps: 24
Episode: 2 Number of steps: 22
Episode: 3 Number of steps: 29

```

Episode: 4 Number of steps: 21
Episode: 5 Number of steps: 20
Episode: 6 Number of steps: 21
Episode: 7 Number of steps: 32
Episode: 8 Number of steps: 28
Episode: 9 Number of steps: 33
Episode: 10 Number of steps: 23
Episode: 11 Number of steps: 40
Episode: 12 Number of steps: 29
Episode: 13 Number of steps: 42
Episode: 14 Number of steps: 38
Episode: 15 Number of steps: 33
Episode: 16 Number of steps: 36
Episode: 17 Number of steps: 38
Episode: 18 Number of steps: 42
Episode: 19 Number of steps: 36
Episode: 20 Number of steps: 45
Episode: 21 Number of steps: 38
Episode: 22 Number of steps: 56
Episode: 23 Number of steps: 50
Episode: 24 Number of steps: 58
Episode: 25 Number of steps: 62
Episode: 26 Number of steps: 61
Episode: 27 Number of steps: 70
Episode: 28 Number of steps: 83
Episode: 29 Number of steps: 76
Episode: 30 Number of steps: 65
Episode: 31 Number of steps: 83
Episode: 32 Number of steps: 57
Episode: 33 Number of steps: 70
Episode: 34 Number of steps: 70
Episode: 35 Number of steps: 77
Episode: 36 Number of steps: 69
Episode: 37 Number of steps: 71
Episode: 38 Number of steps: 87
Episode: 39 Number of steps: 74
Episode: 40 Number of steps: 82
Episode: 41 Number of steps: 88
Episode: 42 Number of steps: 80
Episode: 43 Number of steps: 78
Episode: 44 Number of steps: 96
Episode: 45 Number of steps: 93
Episode: 46 Number of steps: 89
Episode: 47 Number of steps: 95
Episode: 48 Number of steps: 116
Episode: 49 Number of steps: 89
Episode: 50 Number of steps: 86
Episode: 51 Number of steps: 96

Episode: 52 Number of steps: 89
Episode: 53 Number of steps: 111
Episode: 54 Number of steps: 87
Episode: 55 Number of steps: 68
Episode: 56 Number of steps: 69
Episode: 57 Number of steps: 73
Episode: 58 Number of steps: 86
Episode: 59 Number of steps: 94
Episode: 60 Number of steps: 102
Episode: 61 Number of steps: 84
Episode: 62 Number of steps: 109
Episode: 63 Number of steps: 82
Episode: 64 Number of steps: 76
Episode: 65 Number of steps: 87
Episode: 66 Number of steps: 94
Episode: 67 Number of steps: 94
Episode: 68 Number of steps: 74
Episode: 69 Number of steps: 107
Episode: 70 Number of steps: 109
Episode: 71 Number of steps: 113
Episode: 72 Number of steps: 96
Episode: 73 Number of steps: 98
Episode: 74 Number of steps: 92
Episode: 75 Number of steps: 92
Episode: 76 Number of steps: 112
Episode: 77 Number of steps: 106
Episode: 78 Number of steps: 85
Episode: 79 Number of steps: 73
Episode: 80 Number of steps: 124
Episode: 81 Number of steps: 84
Episode: 82 Number of steps: 74
Episode: 83 Number of steps: 79
Episode: 84 Number of steps: 75
Episode: 85 Number of steps: 92
Episode: 86 Number of steps: 79
Episode: 87 Number of steps: 91
Episode: 88 Number of steps: 91
Episode: 89 Number of steps: 85
Episode: 90 Number of steps: 98
Episode: 91 Number of steps: 113
Episode: 92 Number of steps: 105
Episode: 93 Number of steps: 80
Episode: 94 Number of steps: 95
Episode: 95 Number of steps: 84
Episode: 96 Number of steps: 78
Episode: 97 Number of steps: 96
Episode: 98 Number of steps: 90
Episode: 99 Number of steps: 79

Episode: 100 Number of steps: 73
Episode: 101 Number of steps: 77
Episode: 102 Number of steps: 75
Episode: 103 Number of steps: 97
Episode: 104 Number of steps: 82
Episode: 105 Number of steps: 79
Episode: 106 Number of steps: 92
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Episode: 109 Number of steps: 89
Episode: 110 Number of steps: 124
Episode: 111 Number of steps: 108
Episode: 112 Number of steps: 76
Episode: 113 Number of steps: 124
Episode: 114 Number of steps: 103
Episode: 115 Number of steps: 109
Episode: 116 Number of steps: 131
Episode: 117 Number of steps: 134
Episode: 118 Number of steps: 97
Episode: 119 Number of steps: 121
Episode: 120 Number of steps: 95
Episode: 121 Number of steps: 141
Episode: 122 Number of steps: 119
Episode: 123 Number of steps: 112
Episode: 124 Number of steps: 152
Episode: 125 Number of steps: 120
Episode: 126 Number of steps: 130
Episode: 127 Number of steps: 117
Episode: 128 Number of steps: 126
Episode: 129 Number of steps: 88
Episode: 130 Number of steps: 123
Episode: 131 Number of steps: 120
Episode: 132 Number of steps: 106
Episode: 133 Number of steps: 106
Episode: 134 Number of steps: 115
Episode: 135 Number of steps: 100
Episode: 136 Number of steps: 108
Episode: 137 Number of steps: 93
Episode: 138 Number of steps: 101
Episode: 139 Number of steps: 84
Episode: 140 Number of steps: 118
Episode: 141 Number of steps: 113
Episode: 142 Number of steps: 93
Episode: 143 Number of steps: 104
Episode: 144 Number of steps: 108
Episode: 145 Number of steps: 117
Episode: 146 Number of steps: 124
Episode: 147 Number of steps: 152

Episode: 148 Number of steps: 108
Episode: 149 Number of steps: 106
Episode: 150 Number of steps: 114
Episode: 151 Number of steps: 127
Episode: 152 Number of steps: 122
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Episode: 154 Number of steps: 131
Episode: 155 Number of steps: 114
Episode: 156 Number of steps: 134
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Episode: 158 Number of steps: 138
Episode: 159 Number of steps: 176
Episode: 160 Number of steps: 167
Episode: 161 Number of steps: 135
Episode: 162 Number of steps: 138
Episode: 163 Number of steps: 146
Episode: 164 Number of steps: 133
Episode: 165 Number of steps: 119
Episode: 166 Number of steps: 122
Episode: 167 Number of steps: 114
Episode: 168 Number of steps: 117
Episode: 169 Number of steps: 118
Episode: 170 Number of steps: 105
Episode: 171 Number of steps: 146
Episode: 172 Number of steps: 172
Episode: 173 Number of steps: 182
Episode: 174 Number of steps: 182
Episode: 175 Number of steps: 177
Episode: 176 Number of steps: 183
Episode: 177 Number of steps: 134
Episode: 178 Number of steps: 160
Episode: 179 Number of steps: 156
Episode: 180 Number of steps: 114
Episode: 181 Number of steps: 133
Episode: 182 Number of steps: 146
Episode: 183 Number of steps: 121
Episode: 184 Number of steps: 156
Episode: 185 Number of steps: 177
Episode: 186 Number of steps: 127
Episode: 187 Number of steps: 154
Episode: 188 Number of steps: 151
Episode: 189 Number of steps: 157
Episode: 190 Number of steps: 136
Episode: 191 Number of steps: 118
Episode: 192 Number of steps: 188
Episode: 193 Number of steps: 198
Episode: 194 Number of steps: 180
Episode: 195 Number of steps: 138

```

Episode: 196 Number of steps: 129
Episode: 197 Number of steps: 121
Episode: 198 Number of steps: 124
Episode: 199 Number of steps: 125
Episode: 200 Number of steps: 144
Episode: 201 Number of steps: 129
Episode: 202 Number of steps: 105
Episode: 203 Number of steps: 103
Episode: 204 Number of steps: 115
Episode: 205 Number of steps: 81
Episode: 206 Number of steps: 127
Episode: 207 Number of steps: 121
Episode: 208 Number of steps: 99
Episode: 209 Number of steps: 123
Episode: 210 Number of steps: 100
Episode: 211 Number of steps: 133
Episode: 212 Number of steps: 116
Episode: 213 Number of steps: 126
Episode: 214 Number of steps: 96
Episode: 215 Number of steps: 143
Episode: 216 Number of steps: 102
Episode: 217 Number of steps: 134
Episode: 218 Number of steps: 143
Episode: 219 Number of steps: 108
Episode: 220 Number of steps: 159
Episode: 221 Number of steps: 135
Episode: 222 Number of steps: 134
Episode: 223 Number of steps: 100
Episode: 224 Number of steps: 95
Episode: 225 Number of steps: 81
Episode: 226 Number of steps: 104
Episode: 227 Number of steps: 114
Episode: 228 Number of steps: 90
Episode: 229 Number of steps: 93
Episode: 230 Number of steps: 77
Episode: 231 Number of steps: 98

```

```

C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
packages\wandb\sdk\lib\ipython.py:47: DeprecationWarning: Importing display from
IPython.core.display is deprecated since IPython 7.14, please import from
IPython display

```

```

    from IPython.core.display import HTML, display # type: ignore

```

```

<IPython.core.display.HTML object>

```

```

<IPython.core.display.HTML object>

```

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<IPython.core.display.HTML object>

```

```

<IPython.core.display.HTML object>

wandb: Agent Starting Run: m51ms2um with config:
wandb:      LR: 4.663016680730309e-05
wandb:      NUM_EPISODES: 1800
wandb:      NUM_LAYERS: 8
wandb:      NUM_NEURONS_EACH_LAYER: 724
Failed to detect the name of this notebook, you can set it manually with the
WANDB_NOTEBOOK_NAME environment variable to enable code saving.
C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
packages\wandb\sdk\lib\ipython.py:47: DeprecationWarning: Importing display from
IPython.core.display is deprecated since IPython 7.14, please import from
IPython display
    from IPython.core.display import HTML, display # type: ignore

<IPython.core.display.HTML object>

<IPython.core.display.HTML object>

<IPython.core.display.HTML object>

<IPython.core.display.HTML object>

<IPython.core.display.HTML object>

<IPython.core.display.HTML object>

C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
packages\gym\core.py:317: DeprecationWarning: WARN: Initializing wrapper in
old step API which returns one bool instead of two. It is recommended to set
`new_step_api=True` to use new step API. This will be the default behaviour in
future.
    deprecation(
C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
packages\gym\wrappers\step_api_compatibility.py:39: DeprecationWarning:
WARN: Initializing environment in old step API which returns one bool
instead of two. It is recommended to set `new_step_api=True` to use new step
API. This will be the default behaviour in future.
    deprecation(
C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-
packages\gym\core.py:256: DeprecationWarning: WARN: Function
`env.seed(seed)` is marked as deprecated and will be removed in the future.
Please use `env.reset(seed=seed)` instead.
    deprecation(

```

```

Run: 1 -----
Episode 10 Reward 40.000000 Average Reward 28.300000
Episode 20 Reward 38.000000 Average Reward 50.400000
Episode 30 Reward 9.000000 Average Reward 41.900000
Episode 40 Reward 9.000000 Average Reward 8.800000
Episode 50 Reward 9.000000 Average Reward 9.500000
Episode 60 Reward 10.000000 Average Reward 9.600000
Episode 70 Reward 8.000000 Average Reward 9.800000
Episode 80 Reward 10.000000 Average Reward 9.700000
Episode 90 Reward 9.000000 Average Reward 9.300000
Episode 100 Reward 9.000000 Average Reward 9.500000
Episode 110 Reward 9.000000 Average Reward 9.800000
Episode 120 Reward 12.000000 Average Reward 10.500000
Episode 130 Reward 51.000000 Average Reward 60.000000
Episode 140 Reward 57.000000 Average Reward 88.800000
Episode 150 Reward 50.000000 Average Reward 70.000000
Episode 160 Reward 36.000000 Average Reward 46.700000
Episode 170 Reward 27.000000 Average Reward 38.700000
Episode 180 Reward 10.000000 Average Reward 29.700000
Episode 190 Reward 10.000000 Average Reward 9.800000
Episode 200 Reward 78.000000 Average Reward 27.200000
Episode 210 Reward 60.000000 Average Reward 101.800000
Episode 220 Reward 78.000000 Average Reward 52.500000
Episode 230 Reward 30.000000 Average Reward 29.300000
Episode 240 Reward 47.000000 Average Reward 59.200000
Episode 250 Reward 34.000000 Average Reward 70.600000
Episode 260 Reward 160.000000 Average Reward 45.600000
Episode 270 Reward 35.000000 Average Reward 105.100000
Episode 280 Reward 52.000000 Average Reward 127.700000
Episode 290 Reward 49.000000 Average Reward 81.000000
Episode 300 Reward 10.000000 Average Reward 21.500000
Episode 310 Reward 10.000000 Average Reward 9.600000
Episode 320 Reward 8.000000 Average Reward 9.300000
Episode 330 Reward 10.000000 Average Reward 9.400000
Episode 340 Reward 11.000000 Average Reward 10.100000
Episode 350 Reward 10.000000 Average Reward 9.900000
Episode 360 Reward 10.000000 Average Reward 9.500000
Episode 370 Reward 10.000000 Average Reward 9.500000
Episode 380 Reward 10.000000 Average Reward 9.500000
Episode 390 Reward 9.000000 Average Reward 9.100000
Episode 400 Reward 8.000000 Average Reward 9.200000
Episode 410 Reward 10.000000 Average Reward 9.200000
Episode 420 Reward 9.000000 Average Reward 9.000000
Episode 430 Reward 9.000000 Average Reward 9.600000
Episode 440 Reward 10.000000 Average Reward 9.400000
Episode 450 Reward 9.000000 Average Reward 9.500000
Episode 460 Reward 9.000000 Average Reward 9.600000
Episode 470 Reward 10.000000 Average Reward 9.800000

```

Episode	480	Reward	10.000000	Average Reward	9.600000
Episode	490	Reward	8.000000	Average Reward	9.100000
Episode	500	Reward	10.000000	Average Reward	9.500000
Episode	510	Reward	9.000000	Average Reward	8.700000
Episode	520	Reward	9.000000	Average Reward	9.600000
Episode	530	Reward	10.000000	Average Reward	9.800000
Episode	540	Reward	10.000000	Average Reward	9.300000
Episode	550	Reward	10.000000	Average Reward	9.500000
Episode	560	Reward	10.000000	Average Reward	9.300000
Episode	570	Reward	9.000000	Average Reward	8.900000
Episode	580	Reward	10.000000	Average Reward	9.800000
Episode	590	Reward	10.000000	Average Reward	10.000000
Episode	600	Reward	9.000000	Average Reward	8.900000
Episode	610	Reward	10.000000	Average Reward	9.500000
Episode	620	Reward	8.000000	Average Reward	9.300000
Episode	630	Reward	10.000000	Average Reward	9.200000
Episode	640	Reward	9.000000	Average Reward	9.200000
Episode	650	Reward	9.000000	Average Reward	9.500000
Episode	660	Reward	10.000000	Average Reward	10.000000
Episode	670	Reward	10.000000	Average Reward	9.100000
Episode	680	Reward	9.000000	Average Reward	9.400000
Episode	690	Reward	10.000000	Average Reward	9.500000
Episode	700	Reward	9.000000	Average Reward	9.100000
Episode	710	Reward	9.000000	Average Reward	9.300000
Episode	720	Reward	10.000000	Average Reward	9.400000
Episode	730	Reward	9.000000	Average Reward	9.500000
Episode	740	Reward	10.000000	Average Reward	9.400000
Episode	750	Reward	8.000000	Average Reward	9.300000
Episode	760	Reward	8.000000	Average Reward	9.200000
Episode	770	Reward	10.000000	Average Reward	9.400000
Episode	780	Reward	10.000000	Average Reward	9.200000
Episode	790	Reward	10.000000	Average Reward	9.500000
Episode	800	Reward	10.000000	Average Reward	9.300000
Episode	810	Reward	9.000000	Average Reward	9.100000
Episode	820	Reward	9.000000	Average Reward	9.600000
Episode	830	Reward	9.000000	Average Reward	9.200000
Episode	840	Reward	9.000000	Average Reward	9.200000
Episode	850	Reward	9.000000	Average Reward	9.600000
Episode	860	Reward	9.000000	Average Reward	9.600000
Episode	870	Reward	9.000000	Average Reward	9.100000
Episode	880	Reward	8.000000	Average Reward	9.300000
Episode	890	Reward	9.000000	Average Reward	9.000000
Episode	900	Reward	9.000000	Average Reward	9.300000
Episode	910	Reward	10.000000	Average Reward	9.500000
Episode	920	Reward	9.000000	Average Reward	8.900000
Episode	930	Reward	10.000000	Average Reward	9.400000
Episode	940	Reward	10.000000	Average Reward	9.700000
Episode	950	Reward	10.000000	Average Reward	9.100000

Episode	960	Reward	10.000000	Average	Reward	9.200000
Episode	970	Reward	10.000000	Average	Reward	9.600000
Episode	980	Reward	9.000000	Average	Reward	9.300000
Episode	990	Reward	9.000000	Average	Reward	9.400000
Episode	1000	Reward	8.000000	Average	Reward	9.100000
Episode	1010	Reward	9.000000	Average	Reward	9.400000
Episode	1020	Reward	9.000000	Average	Reward	9.100000
Episode	1030	Reward	9.000000	Average	Reward	9.600000
Episode	1040	Reward	8.000000	Average	Reward	9.200000
Episode	1050	Reward	10.000000	Average	Reward	9.000000
Episode	1060	Reward	10.000000	Average	Reward	9.400000
Episode	1070	Reward	8.000000	Average	Reward	9.500000
Episode	1080	Reward	10.000000	Average	Reward	9.200000
Episode	1090	Reward	9.000000	Average	Reward	9.000000
Episode	1100	Reward	9.000000	Average	Reward	9.200000
Episode	1110	Reward	9.000000	Average	Reward	9.800000
Episode	1120	Reward	10.000000	Average	Reward	9.300000
Episode	1130	Reward	10.000000	Average	Reward	9.000000
Episode	1140	Reward	9.000000	Average	Reward	9.100000
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Episode	1220	Reward	11.000000	Average	Reward	9.300000
Episode	1230	Reward	10.000000	Average	Reward	9.500000
Episode	1240	Reward	10.000000	Average	Reward	9.600000
Episode	1250	Reward	10.000000	Average	Reward	9.100000
Episode	1260	Reward	10.000000	Average	Reward	9.600000
Episode	1270	Reward	8.000000	Average	Reward	9.100000
Episode	1280	Reward	8.000000	Average	Reward	9.300000
Episode	1290	Reward	8.000000	Average	Reward	9.100000
Episode	1300	Reward	9.000000	Average	Reward	9.400000
Episode	1310	Reward	10.000000	Average	Reward	9.500000
Episode	1320	Reward	9.000000	Average	Reward	9.300000
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Episode	1340	Reward	9.000000	Average	Reward	9.900000
Episode	1350	Reward	10.000000	Average	Reward	9.400000
Episode	1360	Reward	10.000000	Average	Reward	9.500000
Episode	1370	Reward	11.000000	Average	Reward	9.200000
Episode	1380	Reward	9.000000	Average	Reward	8.900000
Episode	1390	Reward	8.000000	Average	Reward	9.300000
Episode	1400	Reward	10.000000	Average	Reward	9.200000
Episode	1410	Reward	10.000000	Average	Reward	9.200000
Episode	1420	Reward	9.000000	Average	Reward	9.500000
Episode	1430	Reward	8.000000	Average	Reward	9.300000

Episode 1440 Reward 9.000000 Average Reward 9.600000
 Episode 1450 Reward 8.000000 Average Reward 9.300000
 Episode 1460 Reward 8.000000 Average Reward 9.300000
 Episode 1470 Reward 10.000000 Average Reward 9.100000
 Episode 1480 Reward 8.000000 Average Reward 9.300000
 Episode 1490 Reward 8.000000 Average Reward 8.900000
 Episode 1500 Reward 8.000000 Average Reward 9.400000
 Episode 1510 Reward 8.000000 Average Reward 9.300000
 Episode 1520 Reward 9.000000 Average Reward 9.400000
 Episode 1530 Reward 9.000000 Average Reward 9.100000
 Episode 1540 Reward 9.000000 Average Reward 9.500000
 Episode 1550 Reward 10.000000 Average Reward 9.200000
 Episode 1560 Reward 8.000000 Average Reward 9.100000
 Episode 1570 Reward 10.000000 Average Reward 9.300000
 Episode 1580 Reward 10.000000 Average Reward 9.600000
 Episode 1590 Reward 9.000000 Average Reward 9.500000
 Episode 1600 Reward 10.000000 Average Reward 9.500000
 Episode 1610 Reward 10.000000 Average Reward 9.500000
 Episode 1620 Reward 9.000000 Average Reward 9.300000
 Episode 1630 Reward 8.000000 Average Reward 9.400000
 Episode 1640 Reward 8.000000 Average Reward 8.600000
 Episode 1650 Reward 10.000000 Average Reward 9.500000
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 Episode 1670 Reward 8.000000 Average Reward 9.300000
 Episode 1680 Reward 10.000000 Average Reward 9.300000
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 Episode 1730 Reward 10.000000 Average Reward 9.300000
 Episode 1740 Reward 10.000000 Average Reward 9.600000
 Episode 1750 Reward 9.000000 Average Reward 9.400000
 Episode 1760 Reward 11.000000 Average Reward 9.400000
 Episode 1770 Reward 8.000000 Average Reward 9.500000
 Episode 1780 Reward 10.000000 Average Reward 9.500000
 Episode 1790 Reward 10.000000 Average Reward 9.700000
 Episode 1800 Reward 10.000000 Average Reward 9.200000

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0:11:55.491804

Run: 2 -----

Episode 10 Reward 13.000000 Average Reward 18.400000
 Episode 20 Reward 22.000000 Average Reward 26.300000
 Episode 30 Reward 122.000000 Average Reward 59.400000
 Episode 40 Reward 208.000000 Average Reward 120.800000
 Episode 50 Reward 142.000000 Average Reward 89.900000
 Episode 60 Reward 122.000000 Average Reward 188.100000
 Episode 70 Reward 65.000000 Average Reward 181.100000
 Episode 80 Reward 103.000000 Average Reward 137.200000

Episode 90 Reward 44.000000 Average Reward 57.400000
 Episode 100 Reward 26.000000 Average Reward 69.400000
 Episode 110 Reward 500.000000 Average Reward 161.700000
 Episode 120 Reward 71.000000 Average Reward 108.800000
 Episode 130 Reward 110.000000 Average Reward 97.100000
 Episode 140 Reward 26.000000 Average Reward 60.700000
 Episode 150 Reward 45.000000 Average Reward 35.700000
 Episode 160 Reward 53.000000 Average Reward 82.300000
 Episode 170 Reward 51.000000 Average Reward 89.700000
 Episode 180 Reward 43.000000 Average Reward 65.100000
 Episode 190 Reward 100.000000 Average Reward 60.900000
 Episode 200 Reward 49.000000 Average Reward 351.700000
 Episode 210 Reward 28.000000 Average Reward 73.600000
 Episode 220 Reward 47.000000 Average Reward 39.100000
 Episode 230 Reward 67.000000 Average Reward 57.300000
 Episode 240 Reward 29.000000 Average Reward 48.100000
 Episode 250 Reward 33.000000 Average Reward 45.800000
 Episode 260 Reward 68.000000 Average Reward 37.600000
 Episode 270 Reward 50.000000 Average Reward 50.200000
 Episode 280 Reward 34.000000 Average Reward 56.500000
 Episode 290 Reward 329.000000 Average Reward 202.100000
 Episode 300 Reward 53.000000 Average Reward 111.800000
 Episode 310 Reward 53.000000 Average Reward 65.200000
 Episode 320 Reward 45.000000 Average Reward 105.900000
 Episode 330 Reward 95.000000 Average Reward 123.600000
 Episode 340 Reward 53.000000 Average Reward 168.300000
 Episode 350 Reward 33.000000 Average Reward 58.300000
 Episode 360 Reward 50.000000 Average Reward 32.500000
 Episode 370 Reward 32.000000 Average Reward 39.700000
 Episode 380 Reward 48.000000 Average Reward 55.000000
 Episode 390 Reward 16.000000 Average Reward 200.600000
 Episode 400 Reward 45.000000 Average Reward 22.800000
 Episode 410 Reward 46.000000 Average Reward 112.700000
 Episode 420 Reward 10.000000 Average Reward 9.500000
 Episode 430 Reward 10.000000 Average Reward 9.900000
 Episode 440 Reward 8.000000 Average Reward 9.200000
 Episode 450 Reward 9.000000 Average Reward 9.100000
 Episode 460 Reward 10.000000 Average Reward 9.300000
 Episode 470 Reward 9.000000 Average Reward 9.300000
 Episode 480 Reward 10.000000 Average Reward 9.400000
 Episode 490 Reward 11.000000 Average Reward 9.900000
 Episode 500 Reward 9.000000 Average Reward 9.700000
 Episode 510 Reward 9.000000 Average Reward 9.500000
 Episode 520 Reward 10.000000 Average Reward 9.500000
 Episode 530 Reward 9.000000 Average Reward 9.200000
 Episode 540 Reward 10.000000 Average Reward 9.400000
 Episode 550 Reward 10.000000 Average Reward 9.400000
 Episode 560 Reward 10.000000 Average Reward 9.200000

Episode 570 Reward 10.000000 Average Reward 9.100000
 Episode 580 Reward 9.000000 Average Reward 9.500000
 Episode 590 Reward 10.000000 Average Reward 9.500000
 Episode 600 Reward 10.000000 Average Reward 9.200000
 Episode 610 Reward 9.000000 Average Reward 9.300000
 Episode 620 Reward 9.000000 Average Reward 9.600000
 Episode 630 Reward 8.000000 Average Reward 8.900000
 Episode 640 Reward 10.000000 Average Reward 9.300000
 Episode 650 Reward 10.000000 Average Reward 9.100000
 Episode 660 Reward 10.000000 Average Reward 9.300000
 Episode 670 Reward 10.000000 Average Reward 9.400000
 Episode 680 Reward 10.000000 Average Reward 9.500000
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 Episode 710 Reward 10.000000 Average Reward 9.200000
 Episode 720 Reward 9.000000 Average Reward 9.500000
 Episode 730 Reward 10.000000 Average Reward 9.600000
 Episode 740 Reward 10.000000 Average Reward 9.600000
 Episode 750 Reward 9.000000 Average Reward 9.900000
 Episode 760 Reward 9.000000 Average Reward 9.000000
 Episode 770 Reward 10.000000 Average Reward 9.400000
 Episode 780 Reward 9.000000 Average Reward 9.100000
 Episode 790 Reward 9.000000 Average Reward 9.100000
 Episode 800 Reward 10.000000 Average Reward 9.700000
 Episode 810 Reward 9.000000 Average Reward 9.300000
 Episode 820 Reward 10.000000 Average Reward 9.000000
 Episode 830 Reward 11.000000 Average Reward 9.200000
 Episode 840 Reward 10.000000 Average Reward 9.200000
 Episode 850 Reward 9.000000 Average Reward 9.500000
 Episode 860 Reward 10.000000 Average Reward 9.700000
 Episode 870 Reward 9.000000 Average Reward 9.100000
 Episode 880 Reward 9.000000 Average Reward 9.200000
 Episode 890 Reward 9.000000 Average Reward 9.700000
 Episode 900 Reward 9.000000 Average Reward 9.700000
 Episode 910 Reward 10.000000 Average Reward 9.600000
 Episode 920 Reward 10.000000 Average Reward 9.800000
 Episode 930 Reward 9.000000 Average Reward 9.400000
 Episode 940 Reward 10.000000 Average Reward 9.400000
 Episode 950 Reward 11.000000 Average Reward 9.400000
 Episode 960 Reward 10.000000 Average Reward 9.600000
 Episode 970 Reward 8.000000 Average Reward 8.700000
 Episode 980 Reward 8.000000 Average Reward 9.400000
 Episode 990 Reward 11.000000 Average Reward 9.400000
 Episode 1000 Reward 10.000000 Average Reward 9.500000
 Episode 1010 Reward 10.000000 Average Reward 9.300000
 Episode 1020 Reward 10.000000 Average Reward 9.700000
 Episode 1030 Reward 9.000000 Average Reward 9.200000
 Episode 1040 Reward 10.000000 Average Reward 9.700000

Episode	1050	Reward	8.000000	Average Reward	9.500000
Episode	1060	Reward	10.000000	Average Reward	9.700000
Episode	1070	Reward	9.000000	Average Reward	9.000000
Episode	1080	Reward	9.000000	Average Reward	9.400000
Episode	1090	Reward	10.000000	Average Reward	9.400000
Episode	1100	Reward	9.000000	Average Reward	9.300000
Episode	1110	Reward	10.000000	Average Reward	9.000000
Episode	1120	Reward	9.000000	Average Reward	9.100000
Episode	1130	Reward	10.000000	Average Reward	8.900000
Episode	1140	Reward	10.000000	Average Reward	9.800000
Episode	1150	Reward	10.000000	Average Reward	9.500000
Episode	1160	Reward	10.000000	Average Reward	9.600000
Episode	1170	Reward	9.000000	Average Reward	9.100000
Episode	1180	Reward	10.000000	Average Reward	9.100000
Episode	1190	Reward	10.000000	Average Reward	9.500000
Episode	1200	Reward	11.000000	Average Reward	9.400000
Episode	1210	Reward	10.000000	Average Reward	9.200000
Episode	1220	Reward	9.000000	Average Reward	9.400000
Episode	1230	Reward	10.000000	Average Reward	9.200000
Episode	1240	Reward	10.000000	Average Reward	9.700000
Episode	1250	Reward	10.000000	Average Reward	9.200000
Episode	1260	Reward	10.000000	Average Reward	9.800000
Episode	1270	Reward	9.000000	Average Reward	9.500000
Episode	1280	Reward	10.000000	Average Reward	9.600000
Episode	1290	Reward	8.000000	Average Reward	9.200000
Episode	1300	Reward	9.000000	Average Reward	9.600000
Episode	1310	Reward	10.000000	Average Reward	9.600000
Episode	1320	Reward	9.000000	Average Reward	9.100000
Episode	1330	Reward	9.000000	Average Reward	9.200000
Episode	1340	Reward	8.000000	Average Reward	8.900000
Episode	1350	Reward	10.000000	Average Reward	8.900000
Episode	1360	Reward	9.000000	Average Reward	9.100000
Episode	1370	Reward	9.000000	Average Reward	9.100000
Episode	1380	Reward	9.000000	Average Reward	9.300000
Episode	1390	Reward	9.000000	Average Reward	9.300000
Episode	1400	Reward	11.000000	Average Reward	9.500000
Episode	1410	Reward	9.000000	Average Reward	9.700000
Episode	1420	Reward	9.000000	Average Reward	9.300000
Episode	1430	Reward	9.000000	Average Reward	9.300000
Episode	1440	Reward	10.000000	Average Reward	9.600000
Episode	1450	Reward	9.000000	Average Reward	9.300000
Episode	1460	Reward	10.000000	Average Reward	9.300000
Episode	1470	Reward	9.000000	Average Reward	9.200000
Episode	1480	Reward	10.000000	Average Reward	9.500000
Episode	1490	Reward	8.000000	Average Reward	9.000000
Episode	1500	Reward	9.000000	Average Reward	8.900000
Episode	1510	Reward	9.000000	Average Reward	9.200000
Episode	1520	Reward	9.000000	Average Reward	9.400000

Episode 1530 Reward 8.000000 Average Reward 9.300000
 Episode 1540 Reward 10.000000 Average Reward 9.300000
 Episode 1550 Reward 9.000000 Average Reward 9.400000
 Episode 1560 Reward 8.000000 Average Reward 9.300000
 Episode 1570 Reward 11.000000 Average Reward 9.400000
 Episode 1580 Reward 10.000000 Average Reward 9.900000
 Episode 1590 Reward 9.000000 Average Reward 9.900000
 Episode 1600 Reward 11.000000 Average Reward 9.500000
 Episode 1610 Reward 9.000000 Average Reward 9.300000
 Episode 1620 Reward 9.000000 Average Reward 9.600000
 Episode 1630 Reward 10.000000 Average Reward 9.200000
 Episode 1640 Reward 9.000000 Average Reward 9.800000
 Episode 1650 Reward 9.000000 Average Reward 9.500000
 Episode 1660 Reward 9.000000 Average Reward 9.400000
 Episode 1670 Reward 10.000000 Average Reward 9.500000
 Episode 1680 Reward 9.000000 Average Reward 9.700000
 Episode 1690 Reward 9.000000 Average Reward 9.300000
 Episode 1700 Reward 10.000000 Average Reward 9.800000
 Episode 1710 Reward 8.000000 Average Reward 9.100000
 Episode 1720 Reward 10.000000 Average Reward 9.700000
 Episode 1730 Reward 9.000000 Average Reward 9.400000
 Episode 1740 Reward 10.000000 Average Reward 9.400000
 Episode 1750 Reward 9.000000 Average Reward 9.600000
 Episode 1760 Reward 8.000000 Average Reward 9.600000
 Episode 1770 Reward 9.000000 Average Reward 9.300000
 Episode 1780 Reward 10.000000 Average Reward 9.300000
 Episode 1790 Reward 9.000000 Average Reward 9.600000
 Episode 1800 Reward 10.000000 Average Reward 9.200000

0:22:15.375491

0:22:15.445506

Run: 3 -----

Episode 10 Reward 30.000000 Average Reward 25.400000
 Episode 20 Reward 58.000000 Average Reward 37.400000
 Episode 30 Reward 51.000000 Average Reward 48.700000
 Episode 40 Reward 39.000000 Average Reward 51.100000
 Episode 50 Reward 9.000000 Average Reward 21.400000
 Episode 60 Reward 9.000000 Average Reward 9.500000
 Episode 70 Reward 9.000000 Average Reward 9.300000
 Episode 80 Reward 8.000000 Average Reward 9.000000
 Episode 90 Reward 9.000000 Average Reward 9.700000
 Episode 100 Reward 8.000000 Average Reward 9.400000
 Episode 110 Reward 9.000000 Average Reward 9.200000
 Episode 120 Reward 8.000000 Average Reward 9.300000
 Episode 130 Reward 9.000000 Average Reward 9.200000
 Episode 140 Reward 65.000000 Average Reward 34.800000
 Episode 150 Reward 27.000000 Average Reward 39.400000
 Episode 160 Reward 35.000000 Average Reward 40.800000
 Episode 170 Reward 20.000000 Average Reward 62.900000

Episode	180	Reward	50.000000	Average	Reward	25.100000
Episode	190	Reward	65.000000	Average	Reward	53.600000
Episode	200	Reward	35.000000	Average	Reward	74.500000
Episode	210	Reward	18.000000	Average	Reward	35.700000
Episode	220	Reward	39.000000	Average	Reward	33.700000
Episode	230	Reward	41.000000	Average	Reward	46.000000
Episode	240	Reward	24.000000	Average	Reward	44.900000
Episode	250	Reward	25.000000	Average	Reward	32.700000
Episode	260	Reward	56.000000	Average	Reward	43.400000
Episode	270	Reward	24.000000	Average	Reward	26.800000
Episode	280	Reward	80.000000	Average	Reward	48.600000
Episode	290	Reward	8.000000	Average	Reward	34.300000
Episode	300	Reward	10.000000	Average	Reward	9.300000
Episode	310	Reward	9.000000	Average	Reward	9.700000
Episode	320	Reward	10.000000	Average	Reward	9.900000
Episode	330	Reward	10.000000	Average	Reward	9.900000
Episode	340	Reward	10.000000	Average	Reward	10.100000
Episode	350	Reward	9.000000	Average	Reward	9.200000
Episode	360	Reward	9.000000	Average	Reward	9.800000
Episode	370	Reward	9.000000	Average	Reward	9.300000
Episode	380	Reward	10.000000	Average	Reward	9.800000
Episode	390	Reward	9.000000	Average	Reward	10.100000
Episode	400	Reward	11.000000	Average	Reward	10.000000
Episode	410	Reward	9.000000	Average	Reward	10.100000
Episode	420	Reward	9.000000	Average	Reward	12.600000
Episode	430	Reward	10.000000	Average	Reward	10.500000
Episode	440	Reward	10.000000	Average	Reward	13.900000
Episode	450	Reward	18.000000	Average	Reward	17.200000
Episode	460	Reward	36.000000	Average	Reward	23.600000
Episode	470	Reward	12.000000	Average	Reward	27.800000
Episode	480	Reward	8.000000	Average	Reward	9.800000
Episode	490	Reward	8.000000	Average	Reward	8.900000
Episode	500	Reward	9.000000	Average	Reward	9.600000
Episode	510	Reward	10.000000	Average	Reward	9.800000
Episode	520	Reward	9.000000	Average	Reward	9.400000
Episode	530	Reward	9.000000	Average	Reward	9.000000
Episode	540	Reward	9.000000	Average	Reward	8.900000
Episode	550	Reward	9.000000	Average	Reward	9.200000
Episode	560	Reward	9.000000	Average	Reward	9.700000
Episode	570	Reward	9.000000	Average	Reward	9.400000
Episode	580	Reward	9.000000	Average	Reward	9.700000
Episode	590	Reward	9.000000	Average	Reward	9.500000
Episode	600	Reward	10.000000	Average	Reward	9.400000
Episode	610	Reward	10.000000	Average	Reward	9.600000
Episode	620	Reward	10.000000	Average	Reward	8.800000
Episode	630	Reward	10.000000	Average	Reward	9.100000
Episode	640	Reward	10.000000	Average	Reward	9.400000
Episode	650	Reward	9.000000	Average	Reward	9.500000

Episode	660	Reward	8.000000	Average Reward	9.200000
Episode	670	Reward	9.000000	Average Reward	9.300000
Episode	680	Reward	10.000000	Average Reward	9.800000
Episode	690	Reward	9.000000	Average Reward	9.500000
Episode	700	Reward	10.000000	Average Reward	9.500000
Episode	710	Reward	10.000000	Average Reward	9.500000
Episode	720	Reward	10.000000	Average Reward	10.000000
Episode	730	Reward	10.000000	Average Reward	9.600000
Episode	740	Reward	9.000000	Average Reward	9.600000
Episode	750	Reward	9.000000	Average Reward	9.600000
Episode	760	Reward	9.000000	Average Reward	9.100000
Episode	770	Reward	9.000000	Average Reward	9.400000
Episode	780	Reward	10.000000	Average Reward	9.700000
Episode	790	Reward	9.000000	Average Reward	9.300000
Episode	800	Reward	10.000000	Average Reward	9.500000
Episode	810	Reward	10.000000	Average Reward	9.500000
Episode	820	Reward	9.000000	Average Reward	9.400000
Episode	830	Reward	10.000000	Average Reward	9.100000
Episode	840	Reward	10.000000	Average Reward	9.500000
Episode	850	Reward	10.000000	Average Reward	9.700000
Episode	860	Reward	8.000000	Average Reward	9.300000
Episode	870	Reward	11.000000	Average Reward	9.500000
Episode	880	Reward	10.000000	Average Reward	9.400000
Episode	890	Reward	8.000000	Average Reward	9.100000
Episode	900	Reward	11.000000	Average Reward	9.500000
Episode	910	Reward	9.000000	Average Reward	9.000000
Episode	920	Reward	10.000000	Average Reward	9.600000
Episode	930	Reward	8.000000	Average Reward	9.100000
Episode	940	Reward	10.000000	Average Reward	9.400000
Episode	950	Reward	9.000000	Average Reward	9.400000
Episode	960	Reward	10.000000	Average Reward	9.700000
Episode	970	Reward	10.000000	Average Reward	9.600000
Episode	980	Reward	9.000000	Average Reward	9.200000
Episode	990	Reward	9.000000	Average Reward	9.700000
Episode	1000	Reward	10.000000	Average Reward	9.400000
Episode	1010	Reward	9.000000	Average Reward	9.800000
Episode	1020	Reward	9.000000	Average Reward	9.800000
Episode	1030	Reward	12.000000	Average Reward	10.100000
Episode	1040	Reward	10.000000	Average Reward	10.200000
Episode	1050	Reward	13.000000	Average Reward	10.400000
Episode	1060	Reward	9.000000	Average Reward	10.700000
Episode	1070	Reward	11.000000	Average Reward	13.400000
Episode	1080	Reward	10.000000	Average Reward	14.400000
Episode	1090	Reward	10.000000	Average Reward	9.500000
Episode	1100	Reward	10.000000	Average Reward	11.900000
Episode	1110	Reward	19.000000	Average Reward	13.500000
Episode	1120	Reward	42.000000	Average Reward	14.200000
Episode	1130	Reward	36.000000	Average Reward	32.900000

Episode	1140	Reward	12.000000	Average Reward	42.300000
Episode	1150	Reward	9.000000	Average Reward	9.300000
Episode	1160	Reward	10.000000	Average Reward	9.000000
Episode	1170	Reward	10.000000	Average Reward	9.600000
Episode	1180	Reward	9.000000	Average Reward	9.700000
Episode	1190	Reward	9.000000	Average Reward	9.700000
Episode	1200	Reward	10.000000	Average Reward	9.400000
Episode	1210	Reward	10.000000	Average Reward	9.400000
Episode	1220	Reward	10.000000	Average Reward	10.200000
Episode	1230	Reward	10.000000	Average Reward	9.200000
Episode	1240	Reward	12.000000	Average Reward	10.300000
Episode	1250	Reward	10.000000	Average Reward	10.500000
Episode	1260	Reward	75.000000	Average Reward	50.600000
Episode	1270	Reward	126.000000	Average Reward	65.500000
Episode	1280	Reward	24.000000	Average Reward	64.300000
Episode	1290	Reward	43.000000	Average Reward	52.800000
Episode	1300	Reward	70.000000	Average Reward	61.000000
Episode	1310	Reward	30.000000	Average Reward	42.900000
Episode	1320	Reward	52.000000	Average Reward	56.100000
Episode	1330	Reward	54.000000	Average Reward	63.900000
Episode	1340	Reward	32.000000	Average Reward	48.400000
Episode	1350	Reward	40.000000	Average Reward	52.700000
Episode	1360	Reward	50.000000	Average Reward	80.100000
Episode	1370	Reward	89.000000	Average Reward	91.900000
Episode	1380	Reward	71.000000	Average Reward	74.000000
Episode	1390	Reward	38.000000	Average Reward	65.000000
Episode	1400	Reward	80.000000	Average Reward	72.800000
Episode	1410	Reward	75.000000	Average Reward	109.700000
Episode	1420	Reward	49.000000	Average Reward	53.600000
Episode	1430	Reward	35.000000	Average Reward	36.800000
Episode	1440	Reward	38.000000	Average Reward	52.400000
Episode	1450	Reward	49.000000	Average Reward	86.200000
Episode	1460	Reward	93.000000	Average Reward	58.000000
Episode	1470	Reward	47.000000	Average Reward	87.700000
Episode	1480	Reward	52.000000	Average Reward	77.500000
Episode	1490	Reward	47.000000	Average Reward	58.000000
Episode	1500	Reward	32.000000	Average Reward	38.700000
Episode	1510	Reward	22.000000	Average Reward	41.100000
Episode	1520	Reward	42.000000	Average Reward	60.700000
Episode	1530	Reward	104.000000	Average Reward	87.100000
Episode	1540	Reward	29.000000	Average Reward	96.800000
Episode	1550	Reward	304.000000	Average Reward	117.500000
Episode	1560	Reward	31.000000	Average Reward	105.200000
Episode	1570	Reward	24.000000	Average Reward	24.600000
Episode	1580	Reward	9.000000	Average Reward	29.600000
Episode	1590	Reward	10.000000	Average Reward	9.100000
Episode	1600	Reward	10.000000	Average Reward	9.100000
Episode	1610	Reward	10.000000	Average Reward	9.500000

Episode 1620 Reward 10.000000 Average Reward 9.300000
 Episode 1630 Reward 8.000000 Average Reward 8.700000
 Episode 1640 Reward 9.000000 Average Reward 9.400000
 Episode 1650 Reward 10.000000 Average Reward 9.300000
 Episode 1660 Reward 25.000000 Average Reward 14.500000
 Episode 1670 Reward 22.000000 Average Reward 47.600000
 Episode 1680 Reward 26.000000 Average Reward 27.900000
 Episode 1690 Reward 21.000000 Average Reward 24.700000
 Episode 1700 Reward 24.000000 Average Reward 24.700000
 Episode 1710 Reward 20.000000 Average Reward 27.500000
 Episode 1720 Reward 25.000000 Average Reward 29.400000
 Episode 1730 Reward 14.000000 Average Reward 67.300000
 Episode 1740 Reward 48.000000 Average Reward 79.700000
 Episode 1750 Reward 51.000000 Average Reward 23.200000
 Episode 1760 Reward 78.000000 Average Reward 210.400000
 Episode 1770 Reward 11.000000 Average Reward 11.100000
 Episode 1780 Reward 79.000000 Average Reward 56.100000
 Episode 1790 Reward 14.000000 Average Reward 18.100000
 Episode 1800 Reward 8.000000 Average Reward 118.900000

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Run: 4 -----

Episode 10 Reward 24.000000 Average Reward 26.500000
 Episode 20 Reward 83.000000 Average Reward 60.300000
 Episode 30 Reward 377.000000 Average Reward 133.600000
 Episode 40 Reward 10.000000 Average Reward 10.200000
 Episode 50 Reward 10.000000 Average Reward 9.400000
 Episode 60 Reward 9.000000 Average Reward 9.300000
 Episode 70 Reward 12.000000 Average Reward 9.500000
 Episode 80 Reward 10.000000 Average Reward 9.100000
 Episode 90 Reward 9.000000 Average Reward 9.800000
 Episode 100 Reward 11.000000 Average Reward 9.200000
 Episode 110 Reward 9.000000 Average Reward 8.900000
 Episode 120 Reward 10.000000 Average Reward 9.300000
 Episode 130 Reward 10.000000 Average Reward 9.400000
 Episode 140 Reward 9.000000 Average Reward 9.400000
 Episode 150 Reward 8.000000 Average Reward 9.500000
 Episode 160 Reward 10.000000 Average Reward 9.600000
 Episode 170 Reward 8.000000 Average Reward 9.400000
 Episode 180 Reward 10.000000 Average Reward 10.000000
 Episode 190 Reward 10.000000 Average Reward 10.400000
 Episode 200 Reward 12.000000 Average Reward 11.800000
 Episode 210 Reward 13.000000 Average Reward 19.700000
 Episode 220 Reward 15.000000 Average Reward 13.900000
 Episode 230 Reward 9.000000 Average Reward 23.600000
 Episode 240 Reward 12.000000 Average Reward 9.600000
 Episode 250 Reward 9.000000 Average Reward 10.000000
 Episode 260 Reward 9.000000 Average Reward 9.200000

Episode	270	Reward	10.000000	Average Reward	9.300000
Episode	280	Reward	9.000000	Average Reward	9.100000
Episode	290	Reward	10.000000	Average Reward	9.200000
Episode	300	Reward	10.000000	Average Reward	9.400000
Episode	310	Reward	11.000000	Average Reward	9.700000
Episode	320	Reward	8.000000	Average Reward	9.700000
Episode	330	Reward	10.000000	Average Reward	9.100000
Episode	340	Reward	10.000000	Average Reward	8.900000
Episode	350	Reward	9.000000	Average Reward	9.400000
Episode	360	Reward	10.000000	Average Reward	9.700000
Episode	370	Reward	10.000000	Average Reward	9.600000
Episode	380	Reward	9.000000	Average Reward	8.900000
Episode	390	Reward	10.000000	Average Reward	9.200000
Episode	400	Reward	10.000000	Average Reward	9.500000
Episode	410	Reward	8.000000	Average Reward	9.100000
Episode	420	Reward	8.000000	Average Reward	9.400000
Episode	430	Reward	10.000000	Average Reward	9.500000
Episode	440	Reward	9.000000	Average Reward	9.400000
Episode	450	Reward	9.000000	Average Reward	9.400000
Episode	460	Reward	9.000000	Average Reward	9.200000
Episode	470	Reward	9.000000	Average Reward	9.300000
Episode	480	Reward	10.000000	Average Reward	9.900000
Episode	490	Reward	9.000000	Average Reward	9.100000
Episode	500	Reward	9.000000	Average Reward	9.300000
Episode	510	Reward	10.000000	Average Reward	9.700000
Episode	520	Reward	9.000000	Average Reward	9.300000
Episode	530	Reward	10.000000	Average Reward	9.800000
Episode	540	Reward	10.000000	Average Reward	9.800000
Episode	550	Reward	9.000000	Average Reward	9.400000
Episode	560	Reward	9.000000	Average Reward	9.400000
Episode	570	Reward	10.000000	Average Reward	9.600000
Episode	580	Reward	8.000000	Average Reward	9.200000
Episode	590	Reward	9.000000	Average Reward	9.500000
Episode	600	Reward	9.000000	Average Reward	9.400000
Episode	610	Reward	9.000000	Average Reward	9.300000
Episode	620	Reward	8.000000	Average Reward	8.900000
Episode	630	Reward	10.000000	Average Reward	9.000000
Episode	640	Reward	9.000000	Average Reward	9.200000
Episode	650	Reward	9.000000	Average Reward	9.400000
Episode	660	Reward	9.000000	Average Reward	9.600000
Episode	670	Reward	9.000000	Average Reward	9.300000
Episode	680	Reward	10.000000	Average Reward	9.700000
Episode	690	Reward	9.000000	Average Reward	9.600000
Episode	700	Reward	9.000000	Average Reward	9.200000
Episode	710	Reward	10.000000	Average Reward	9.200000
Episode	720	Reward	8.000000	Average Reward	9.400000
Episode	730	Reward	10.000000	Average Reward	9.500000
Episode	740	Reward	11.000000	Average Reward	9.500000

Episode 750 Reward 10.000000 Average Reward 9.300000
 Episode 760 Reward 9.000000 Average Reward 9.500000
 Episode 770 Reward 9.000000 Average Reward 9.600000
 Episode 780 Reward 9.000000 Average Reward 9.300000
 Episode 790 Reward 10.000000 Average Reward 9.500000
 Episode 800 Reward 10.000000 Average Reward 9.500000
 Episode 810 Reward 10.000000 Average Reward 9.600000
 Episode 820 Reward 9.000000 Average Reward 9.200000
 Episode 830 Reward 10.000000 Average Reward 9.200000
 Episode 840 Reward 10.000000 Average Reward 9.500000
 Episode 850 Reward 9.000000 Average Reward 9.200000
 Episode 860 Reward 9.000000 Average Reward 9.100000
 Episode 870 Reward 9.000000 Average Reward 9.600000
 Episode 880 Reward 8.000000 Average Reward 9.200000
 Episode 890 Reward 8.000000 Average Reward 9.100000
 Episode 900 Reward 9.000000 Average Reward 9.200000
 Episode 910 Reward 9.000000 Average Reward 8.800000
 Episode 920 Reward 9.000000 Average Reward 9.300000
 Episode 930 Reward 9.000000 Average Reward 8.900000
 Episode 940 Reward 9.000000 Average Reward 9.500000
 Episode 950 Reward 8.000000 Average Reward 9.000000
 Episode 960 Reward 11.000000 Average Reward 9.900000
 Episode 970 Reward 9.000000 Average Reward 8.900000
 Episode 980 Reward 9.000000 Average Reward 9.400000
 Episode 990 Reward 8.000000 Average Reward 9.000000
 Episode 1000 Reward 9.000000 Average Reward 9.200000
 Episode 1010 Reward 9.000000 Average Reward 9.500000
 Episode 1020 Reward 10.000000 Average Reward 9.200000
 Episode 1030 Reward 9.000000 Average Reward 9.000000
 Episode 1040 Reward 8.000000 Average Reward 8.800000
 Episode 1050 Reward 10.000000 Average Reward 9.800000
 Episode 1060 Reward 9.000000 Average Reward 9.200000
 Episode 1070 Reward 10.000000 Average Reward 9.300000
 Episode 1080 Reward 8.000000 Average Reward 9.400000
 Episode 1090 Reward 11.000000 Average Reward 9.100000
 Episode 1100 Reward 9.000000 Average Reward 9.400000
 Episode 1110 Reward 8.000000 Average Reward 9.100000
 Episode 1120 Reward 10.000000 Average Reward 9.100000
 Episode 1130 Reward 10.000000 Average Reward 9.700000
 Episode 1140 Reward 9.000000 Average Reward 9.100000
 Episode 1150 Reward 9.000000 Average Reward 9.400000
 Episode 1160 Reward 10.000000 Average Reward 9.000000
 Episode 1170 Reward 9.000000 Average Reward 9.200000
 Episode 1180 Reward 9.000000 Average Reward 9.800000
 Episode 1190 Reward 9.000000 Average Reward 9.100000
 Episode 1200 Reward 9.000000 Average Reward 9.300000
 Episode 1210 Reward 9.000000 Average Reward 9.200000
 Episode 1220 Reward 10.000000 Average Reward 9.800000

Episode	1230	Reward	9.000000	Average Reward	9.200000
Episode	1240	Reward	10.000000	Average Reward	9.500000
Episode	1250	Reward	11.000000	Average Reward	9.200000
Episode	1260	Reward	10.000000	Average Reward	9.800000
Episode	1270	Reward	9.000000	Average Reward	9.300000
Episode	1280	Reward	10.000000	Average Reward	9.200000
Episode	1290	Reward	10.000000	Average Reward	9.400000
Episode	1300	Reward	10.000000	Average Reward	9.700000
Episode	1310	Reward	9.000000	Average Reward	9.400000
Episode	1320	Reward	9.000000	Average Reward	9.200000
Episode	1330	Reward	9.000000	Average Reward	9.300000
Episode	1340	Reward	10.000000	Average Reward	9.400000
Episode	1350	Reward	10.000000	Average Reward	9.500000
Episode	1360	Reward	9.000000	Average Reward	9.700000
Episode	1370	Reward	9.000000	Average Reward	9.400000
Episode	1380	Reward	8.000000	Average Reward	9.100000
Episode	1390	Reward	8.000000	Average Reward	9.400000
Episode	1400	Reward	10.000000	Average Reward	9.200000
Episode	1410	Reward	9.000000	Average Reward	9.300000
Episode	1420	Reward	10.000000	Average Reward	9.400000
Episode	1430	Reward	10.000000	Average Reward	9.200000
Episode	1440	Reward	10.000000	Average Reward	9.500000
Episode	1450	Reward	9.000000	Average Reward	9.300000
Episode	1460	Reward	10.000000	Average Reward	8.900000
Episode	1470	Reward	10.000000	Average Reward	9.100000
Episode	1480	Reward	8.000000	Average Reward	9.000000
Episode	1490	Reward	10.000000	Average Reward	9.300000
Episode	1500	Reward	10.000000	Average Reward	9.200000
Episode	1510	Reward	10.000000	Average Reward	9.800000
Episode	1520	Reward	9.000000	Average Reward	9.400000
Episode	1530	Reward	9.000000	Average Reward	9.100000
Episode	1540	Reward	8.000000	Average Reward	8.700000
Episode	1550	Reward	12.000000	Average Reward	10.200000
Episode	1560	Reward	10.000000	Average Reward	9.800000
Episode	1570	Reward	9.000000	Average Reward	9.700000
Episode	1580	Reward	9.000000	Average Reward	9.400000
Episode	1590	Reward	9.000000	Average Reward	9.400000
Episode	1600	Reward	8.000000	Average Reward	16.000000
Episode	1610	Reward	69.000000	Average Reward	39.100000
Episode	1620	Reward	44.000000	Average Reward	67.200000
Episode	1630	Reward	56.000000	Average Reward	45.200000
Episode	1640	Reward	35.000000	Average Reward	78.200000
Episode	1650	Reward	46.000000	Average Reward	65.600000
Episode	1660	Reward	22.000000	Average Reward	26.200000
Episode	1670	Reward	46.000000	Average Reward	49.700000
Episode	1680	Reward	96.000000	Average Reward	102.300000
Episode	1690	Reward	55.000000	Average Reward	124.500000
Episode	1700	Reward	68.000000	Average Reward	89.400000

Episode 1710 Reward 49.000000 Average Reward 50.600000
 Episode 1720 Reward 50.000000 Average Reward 43.900000
 Episode 1730 Reward 44.000000 Average Reward 35.700000
 Episode 1740 Reward 185.000000 Average Reward 72.400000
 Episode 1750 Reward 36.000000 Average Reward 70.300000
 Episode 1760 Reward 124.000000 Average Reward 191.300000
 Episode 1770 Reward 18.000000 Average Reward 75.100000
 Episode 1780 Reward 9.000000 Average Reward 16.300000
 Episode 1790 Reward 10.000000 Average Reward 9.800000
 Episode 1800 Reward 11.000000 Average Reward 10.700000

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Run: 5 -----

Episode 10 Reward 17.000000 Average Reward 18.600000
 Episode 20 Reward 39.000000 Average Reward 27.900000
 Episode 30 Reward 115.000000 Average Reward 84.900000
 Episode 40 Reward 48.000000 Average Reward 158.000000
 Episode 50 Reward 64.000000 Average Reward 68.500000
 Episode 60 Reward 88.000000 Average Reward 63.100000
 Episode 70 Reward 34.000000 Average Reward 106.400000
 Episode 80 Reward 69.000000 Average Reward 103.600000
 Episode 90 Reward 188.000000 Average Reward 94.900000
 Episode 100 Reward 50.000000 Average Reward 118.600000
 Episode 110 Reward 304.000000 Average Reward 107.900000
 Episode 120 Reward 75.000000 Average Reward 113.500000
 Episode 130 Reward 103.000000 Average Reward 70.100000
 Episode 140 Reward 41.000000 Average Reward 81.000000
 Episode 150 Reward 226.000000 Average Reward 77.200000
 Episode 160 Reward 35.000000 Average Reward 79.000000
 Episode 170 Reward 94.000000 Average Reward 118.600000
 Episode 180 Reward 66.000000 Average Reward 160.300000
 Episode 190 Reward 58.000000 Average Reward 106.800000
 Episode 200 Reward 75.000000 Average Reward 64.900000
 Episode 210 Reward 10.000000 Average Reward 201.000000
 Episode 220 Reward 58.000000 Average Reward 49.700000
 Episode 230 Reward 67.000000 Average Reward 62.500000
 Episode 240 Reward 25.000000 Average Reward 35.300000
 Episode 250 Reward 15.000000 Average Reward 25.000000
 Episode 260 Reward 43.000000 Average Reward 70.200000
 Episode 270 Reward 36.000000 Average Reward 44.800000
 Episode 280 Reward 47.000000 Average Reward 49.800000
 Episode 290 Reward 29.000000 Average Reward 62.100000
 Episode 300 Reward 244.000000 Average Reward 164.200000
 Episode 310 Reward 122.000000 Average Reward 157.500000
 Episode 320 Reward 121.000000 Average Reward 139.300000
 Episode 330 Reward 143.000000 Average Reward 142.200000
 Episode 340 Reward 59.000000 Average Reward 169.400000
 Episode 350 Reward 23.000000 Average Reward 33.800000

Episode	360	Reward	144.000000	Average Reward	152.900000
Episode	370	Reward	248.000000	Average Reward	132.200000
Episode	380	Reward	121.000000	Average Reward	140.600000
Episode	390	Reward	28.000000	Average Reward	149.100000
Episode	400	Reward	10.000000	Average Reward	20.500000
Episode	410	Reward	9.000000	Average Reward	10.300000
Episode	420	Reward	8.000000	Average Reward	9.600000
Episode	430	Reward	11.000000	Average Reward	10.500000
Episode	440	Reward	10.000000	Average Reward	9.600000
Episode	450	Reward	10.000000	Average Reward	9.600000
Episode	460	Reward	10.000000	Average Reward	9.700000
Episode	470	Reward	9.000000	Average Reward	8.900000
Episode	480	Reward	10.000000	Average Reward	9.700000
Episode	490	Reward	10.000000	Average Reward	9.700000
Episode	500	Reward	10.000000	Average Reward	9.400000
Episode	510	Reward	9.000000	Average Reward	9.600000
Episode	520	Reward	11.000000	Average Reward	9.600000
Episode	530	Reward	10.000000	Average Reward	10.700000
Episode	540	Reward	9.000000	Average Reward	12.500000
Episode	550	Reward	25.000000	Average Reward	19.500000
Episode	560	Reward	21.000000	Average Reward	17.700000
Episode	570	Reward	22.000000	Average Reward	24.100000
Episode	580	Reward	30.000000	Average Reward	24.000000
Episode	590	Reward	10.000000	Average Reward	33.100000
Episode	600	Reward	9.000000	Average Reward	9.600000
Episode	610	Reward	9.000000	Average Reward	9.500000
Episode	620	Reward	10.000000	Average Reward	9.900000
Episode	630	Reward	9.000000	Average Reward	9.100000
Episode	640	Reward	9.000000	Average Reward	9.700000
Episode	650	Reward	9.000000	Average Reward	9.300000
Episode	660	Reward	9.000000	Average Reward	9.300000
Episode	670	Reward	9.000000	Average Reward	9.200000
Episode	680	Reward	9.000000	Average Reward	9.400000
Episode	690	Reward	9.000000	Average Reward	9.100000
Episode	700	Reward	9.000000	Average Reward	9.500000
Episode	710	Reward	9.000000	Average Reward	8.900000
Episode	720	Reward	10.000000	Average Reward	9.300000
Episode	730	Reward	9.000000	Average Reward	9.400000
Episode	740	Reward	11.000000	Average Reward	9.600000
Episode	750	Reward	10.000000	Average Reward	9.300000
Episode	760	Reward	9.000000	Average Reward	9.300000
Episode	770	Reward	11.000000	Average Reward	9.600000
Episode	780	Reward	10.000000	Average Reward	9.200000
Episode	790	Reward	10.000000	Average Reward	9.600000
Episode	800	Reward	10.000000	Average Reward	9.600000
Episode	810	Reward	10.000000	Average Reward	9.300000
Episode	820	Reward	10.000000	Average Reward	9.500000
Episode	830	Reward	9.000000	Average Reward	9.300000

Episode 840 Reward 9.000000 Average Reward 9.100000
Episode 850 Reward 9.000000 Average Reward 9.200000
Episode 860 Reward 8.000000 Average Reward 8.900000
Episode 870 Reward 10.000000 Average Reward 9.700000
Episode 880 Reward 8.000000 Average Reward 8.700000
Episode 890 Reward 11.000000 Average Reward 9.300000
Episode 900 Reward 8.000000 Average Reward 9.500000
Episode 910 Reward 10.000000 Average Reward 9.200000
Episode 920 Reward 10.000000 Average Reward 9.400000
Episode 930 Reward 9.000000 Average Reward 8.800000
Episode 940 Reward 9.000000 Average Reward 9.300000
Episode 950 Reward 10.000000 Average Reward 9.600000
Episode 960 Reward 8.000000 Average Reward 9.600000
Episode 970 Reward 9.000000 Average Reward 9.600000
Episode 980 Reward 10.000000 Average Reward 9.500000
Episode 990 Reward 10.000000 Average Reward 9.500000
Episode 1000 Reward 10.000000 Average Reward 9.300000
Episode 1010 Reward 9.000000 Average Reward 9.100000
Episode 1020 Reward 10.000000 Average Reward 9.500000
Episode 1030 Reward 10.000000 Average Reward 9.400000
Episode 1040 Reward 9.000000 Average Reward 9.500000
Episode 1050 Reward 8.000000 Average Reward 9.300000
Episode 1060 Reward 9.000000 Average Reward 9.300000
Episode 1070 Reward 8.000000 Average Reward 9.300000
Episode 1080 Reward 10.000000 Average Reward 9.500000
Episode 1090 Reward 8.000000 Average Reward 8.700000
Episode 1100 Reward 8.000000 Average Reward 9.400000
Episode 1110 Reward 9.000000 Average Reward 9.400000
Episode 1120 Reward 10.000000 Average Reward 9.600000
Episode 1130 Reward 9.000000 Average Reward 9.800000
Episode 1140 Reward 9.000000 Average Reward 9.400000
Episode 1150 Reward 9.000000 Average Reward 9.100000
Episode 1160 Reward 9.000000 Average Reward 9.400000
Episode 1170 Reward 10.000000 Average Reward 9.700000
Episode 1180 Reward 10.000000 Average Reward 9.200000
Episode 1190 Reward 9.000000 Average Reward 8.900000
Episode 1200 Reward 10.000000 Average Reward 9.600000
Episode 1210 Reward 9.000000 Average Reward 9.000000
Episode 1220 Reward 10.000000 Average Reward 9.600000
Episode 1230 Reward 10.000000 Average Reward 9.400000
Episode 1240 Reward 10.000000 Average Reward 9.300000
Episode 1250 Reward 9.000000 Average Reward 9.000000
Episode 1260 Reward 10.000000 Average Reward 9.700000
Episode 1270 Reward 10.000000 Average Reward 9.500000
Episode 1280 Reward 9.000000 Average Reward 9.700000
Episode 1290 Reward 10.000000 Average Reward 9.500000
Episode 1300 Reward 8.000000 Average Reward 9.500000
Episode 1310 Reward 10.000000 Average Reward 9.600000

Episode	1320	Reward	10.000000	Average	Reward	9.700000
Episode	1330	Reward	10.000000	Average	Reward	9.200000
Episode	1340	Reward	9.000000	Average	Reward	9.100000
Episode	1350	Reward	11.000000	Average	Reward	9.600000
Episode	1360	Reward	11.000000	Average	Reward	9.600000
Episode	1370	Reward	9.000000	Average	Reward	9.000000
Episode	1380	Reward	9.000000	Average	Reward	9.200000
Episode	1390	Reward	9.000000	Average	Reward	9.400000
Episode	1400	Reward	10.000000	Average	Reward	9.800000
Episode	1410	Reward	9.000000	Average	Reward	9.700000
Episode	1420	Reward	9.000000	Average	Reward	9.100000
Episode	1430	Reward	10.000000	Average	Reward	9.500000
Episode	1440	Reward	9.000000	Average	Reward	9.600000
Episode	1450	Reward	9.000000	Average	Reward	9.400000
Episode	1460	Reward	8.000000	Average	Reward	9.000000
Episode	1470	Reward	9.000000	Average	Reward	9.300000
Episode	1480	Reward	9.000000	Average	Reward	9.700000
Episode	1490	Reward	11.000000	Average	Reward	9.100000
Episode	1500	Reward	9.000000	Average	Reward	9.200000
Episode	1510	Reward	9.000000	Average	Reward	9.600000
Episode	1520	Reward	10.000000	Average	Reward	9.500000
Episode	1530	Reward	9.000000	Average	Reward	9.700000
Episode	1540	Reward	10.000000	Average	Reward	9.300000
Episode	1550	Reward	9.000000	Average	Reward	9.500000
Episode	1560	Reward	9.000000	Average	Reward	9.400000
Episode	1570	Reward	8.000000	Average	Reward	9.500000
Episode	1580	Reward	8.000000	Average	Reward	9.600000
Episode	1590	Reward	10.000000	Average	Reward	9.300000
Episode	1600	Reward	8.000000	Average	Reward	8.800000
Episode	1610	Reward	10.000000	Average	Reward	9.500000
Episode	1620	Reward	10.000000	Average	Reward	9.600000
Episode	1630	Reward	9.000000	Average	Reward	9.000000
Episode	1640	Reward	9.000000	Average	Reward	9.500000
Episode	1650	Reward	10.000000	Average	Reward	9.600000
Episode	1660	Reward	9.000000	Average	Reward	9.600000
Episode	1670	Reward	10.000000	Average	Reward	9.300000
Episode	1680	Reward	10.000000	Average	Reward	9.300000
Episode	1690	Reward	9.000000	Average	Reward	9.000000
Episode	1700	Reward	10.000000	Average	Reward	9.200000
Episode	1710	Reward	10.000000	Average	Reward	10.000000
Episode	1720	Reward	9.000000	Average	Reward	9.300000
Episode	1730	Reward	9.000000	Average	Reward	9.400000
Episode	1740	Reward	9.000000	Average	Reward	8.900000
Episode	1750	Reward	10.000000	Average	Reward	9.400000
Episode	1760	Reward	9.000000	Average	Reward	9.200000
Episode	1770	Reward	9.000000	Average	Reward	9.400000
Episode	1780	Reward	9.000000	Average	Reward	9.100000
Episode	1790	Reward	10.000000	Average	Reward	9.100000

Episode 1800 Reward 10.000000 Average Reward 9.500000

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Run: 6 -----

Episode	10	Reward	14.000000	Average Reward	22.300000
Episode	20	Reward	28.000000	Average Reward	38.000000
Episode	30	Reward	33.000000	Average Reward	64.000000
Episode	40	Reward	30.000000	Average Reward	38.400000
Episode	50	Reward	21.000000	Average Reward	27.400000
Episode	60	Reward	28.000000	Average Reward	70.800000
Episode	70	Reward	35.000000	Average Reward	90.100000
Episode	80	Reward	75.000000	Average Reward	57.000000
Episode	90	Reward	352.000000	Average Reward	101.300000
Episode	100	Reward	15.000000	Average Reward	158.000000
Episode	110	Reward	10.000000	Average Reward	22.300000
Episode	120	Reward	101.000000	Average Reward	19.200000
Episode	130	Reward	10.000000	Average Reward	10.600000
Episode	140	Reward	9.000000	Average Reward	11.900000
Episode	150	Reward	10.000000	Average Reward	12.400000
Episode	160	Reward	10.000000	Average Reward	28.100000
Episode	170	Reward	10.000000	Average Reward	11.200000
Episode	180	Reward	10.000000	Average Reward	10.300000
Episode	190	Reward	14.000000	Average Reward	12.000000
Episode	200	Reward	16.000000	Average Reward	13.800000
Episode	210	Reward	10.000000	Average Reward	15.300000
Episode	220	Reward	12.000000	Average Reward	10.400000
Episode	230	Reward	15.000000	Average Reward	13.700000
Episode	240	Reward	12.000000	Average Reward	10.600000
Episode	250	Reward	27.000000	Average Reward	13.400000
Episode	260	Reward	22.000000	Average Reward	18.600000
Episode	270	Reward	9.000000	Average Reward	21.900000
Episode	280	Reward	10.000000	Average Reward	9.500000
Episode	290	Reward	9.000000	Average Reward	9.200000
Episode	300	Reward	8.000000	Average Reward	9.200000
Episode	310	Reward	8.000000	Average Reward	8.900000
Episode	320	Reward	9.000000	Average Reward	9.500000
Episode	330	Reward	9.000000	Average Reward	9.100000
Episode	340	Reward	9.000000	Average Reward	9.300000
Episode	350	Reward	8.000000	Average Reward	9.100000
Episode	360	Reward	9.000000	Average Reward	9.500000
Episode	370	Reward	8.000000	Average Reward	9.200000
Episode	380	Reward	9.000000	Average Reward	9.300000
Episode	390	Reward	8.000000	Average Reward	9.300000
Episode	400	Reward	10.000000	Average Reward	9.500000
Episode	410	Reward	10.000000	Average Reward	9.100000
Episode	420	Reward	9.000000	Average Reward	9.500000
Episode	430	Reward	9.000000	Average Reward	9.200000
Episode	440	Reward	10.000000	Average Reward	9.200000

Episode	450	Reward	10.000000	Average Reward	9.500000
Episode	460	Reward	9.000000	Average Reward	9.300000
Episode	470	Reward	10.000000	Average Reward	8.900000
Episode	480	Reward	8.000000	Average Reward	9.200000
Episode	490	Reward	9.000000	Average Reward	9.600000
Episode	500	Reward	10.000000	Average Reward	9.400000
Episode	510	Reward	9.000000	Average Reward	9.900000
Episode	520	Reward	9.000000	Average Reward	9.600000
Episode	530	Reward	9.000000	Average Reward	9.000000
Episode	540	Reward	9.000000	Average Reward	9.600000
Episode	550	Reward	10.000000	Average Reward	9.300000
Episode	560	Reward	31.000000	Average Reward	22.000000
Episode	570	Reward	10.000000	Average Reward	28.600000
Episode	580	Reward	10.000000	Average Reward	9.600000
Episode	590	Reward	20.000000	Average Reward	26.500000
Episode	600	Reward	57.000000	Average Reward	35.200000
Episode	610	Reward	18.000000	Average Reward	36.300000
Episode	620	Reward	55.000000	Average Reward	40.800000
Episode	630	Reward	28.000000	Average Reward	21.900000
Episode	640	Reward	264.000000	Average Reward	73.100000
Episode	650	Reward	81.000000	Average Reward	44.100000
Episode	660	Reward	500.000000	Average Reward	206.100000
Episode	670	Reward	10.000000	Average Reward	35.000000
Episode	680	Reward	10.000000	Average Reward	9.500000
Episode	690	Reward	9.000000	Average Reward	9.400000
Episode	700	Reward	8.000000	Average Reward	9.400000
Episode	710	Reward	9.000000	Average Reward	9.300000
Episode	720	Reward	10.000000	Average Reward	9.400000
Episode	730	Reward	9.000000	Average Reward	9.100000
Episode	740	Reward	10.000000	Average Reward	9.400000
Episode	750	Reward	8.000000	Average Reward	8.600000
Episode	760	Reward	10.000000	Average Reward	9.300000
Episode	770	Reward	9.000000	Average Reward	9.300000
Episode	780	Reward	10.000000	Average Reward	9.500000
Episode	790	Reward	9.000000	Average Reward	9.200000
Episode	800	Reward	9.000000	Average Reward	9.600000
Episode	810	Reward	9.000000	Average Reward	9.500000
Episode	820	Reward	10.000000	Average Reward	9.500000
Episode	830	Reward	10.000000	Average Reward	9.300000
Episode	840	Reward	8.000000	Average Reward	9.000000
Episode	850	Reward	10.000000	Average Reward	9.600000
Episode	860	Reward	8.000000	Average Reward	9.000000
Episode	870	Reward	9.000000	Average Reward	9.300000
Episode	880	Reward	10.000000	Average Reward	9.600000
Episode	890	Reward	10.000000	Average Reward	9.300000
Episode	900	Reward	9.000000	Average Reward	9.500000
Episode	910	Reward	10.000000	Average Reward	9.100000
Episode	920	Reward	10.000000	Average Reward	9.600000

Episode	930	Reward	9.000000	Average Reward	9.500000
Episode	940	Reward	8.000000	Average Reward	9.900000
Episode	950	Reward	10.000000	Average Reward	9.500000
Episode	960	Reward	9.000000	Average Reward	9.700000
Episode	970	Reward	10.000000	Average Reward	9.200000
Episode	980	Reward	9.000000	Average Reward	9.300000
Episode	990	Reward	8.000000	Average Reward	9.200000
Episode	1000	Reward	10.000000	Average Reward	9.400000
Episode	1010	Reward	10.000000	Average Reward	9.700000
Episode	1020	Reward	10.000000	Average Reward	9.300000
Episode	1030	Reward	10.000000	Average Reward	9.300000
Episode	1040	Reward	9.000000	Average Reward	9.200000
Episode	1050	Reward	10.000000	Average Reward	9.100000
Episode	1060	Reward	10.000000	Average Reward	9.300000
Episode	1070	Reward	9.000000	Average Reward	9.400000
Episode	1080	Reward	9.000000	Average Reward	9.800000
Episode	1090	Reward	9.000000	Average Reward	9.300000
Episode	1100	Reward	9.000000	Average Reward	9.200000
Episode	1110	Reward	8.000000	Average Reward	9.200000
Episode	1120	Reward	10.000000	Average Reward	9.200000
Episode	1130	Reward	10.000000	Average Reward	9.200000
Episode	1140	Reward	9.000000	Average Reward	9.400000
Episode	1150	Reward	10.000000	Average Reward	9.700000
Episode	1160	Reward	8.000000	Average Reward	9.100000
Episode	1170	Reward	8.000000	Average Reward	9.000000
Episode	1180	Reward	10.000000	Average Reward	9.200000
Episode	1190	Reward	9.000000	Average Reward	9.500000
Episode	1200	Reward	8.000000	Average Reward	9.500000
Episode	1210	Reward	10.000000	Average Reward	9.200000
Episode	1220	Reward	8.000000	Average Reward	8.900000
Episode	1230	Reward	11.000000	Average Reward	9.800000
Episode	1240	Reward	11.000000	Average Reward	10.200000
Episode	1250	Reward	13.000000	Average Reward	15.500000
Episode	1260	Reward	22.000000	Average Reward	27.300000
Episode	1270	Reward	24.000000	Average Reward	26.700000
Episode	1280	Reward	41.000000	Average Reward	35.500000
Episode	1290	Reward	24.000000	Average Reward	31.700000
Episode	1300	Reward	30.000000	Average Reward	28.400000
Episode	1310	Reward	37.000000	Average Reward	35.100000
Episode	1320	Reward	44.000000	Average Reward	46.200000
Episode	1330	Reward	10.000000	Average Reward	17.900000
Episode	1340	Reward	52.000000	Average Reward	21.700000
Episode	1350	Reward	23.000000	Average Reward	25.500000
Episode	1360	Reward	43.000000	Average Reward	44.600000
Episode	1370	Reward	25.000000	Average Reward	42.900000
Episode	1380	Reward	26.000000	Average Reward	39.200000
Episode	1390	Reward	21.000000	Average Reward	26.500000
Episode	1400	Reward	32.000000	Average Reward	33.600000

Episode 1410 Reward 70.000000 Average Reward 70.300000
 Episode 1420 Reward 40.000000 Average Reward 56.800000
 Episode 1430 Reward 39.000000 Average Reward 37.100000
 Episode 1440 Reward 30.000000 Average Reward 61.000000
 Episode 1450 Reward 33.000000 Average Reward 35.700000
 Episode 1460 Reward 52.000000 Average Reward 53.000000
 Episode 1470 Reward 8.000000 Average Reward 42.200000
 Episode 1480 Reward 10.000000 Average Reward 9.500000
 Episode 1490 Reward 10.000000 Average Reward 9.000000
 Episode 1500 Reward 8.000000 Average Reward 9.000000
 Episode 1510 Reward 9.000000 Average Reward 9.400000
 Episode 1520 Reward 9.000000 Average Reward 9.400000
 Episode 1530 Reward 8.000000 Average Reward 9.300000
 Episode 1540 Reward 9.000000 Average Reward 9.200000
 Episode 1550 Reward 9.000000 Average Reward 9.100000
 Episode 1560 Reward 10.000000 Average Reward 9.700000
 Episode 1570 Reward 9.000000 Average Reward 9.000000
 Episode 1580 Reward 10.000000 Average Reward 9.000000
 Episode 1590 Reward 10.000000 Average Reward 9.300000
 Episode 1600 Reward 10.000000 Average Reward 9.500000
 Episode 1610 Reward 10.000000 Average Reward 10.100000
 Episode 1620 Reward 10.000000 Average Reward 9.300000
 Episode 1630 Reward 8.000000 Average Reward 9.200000
 Episode 1640 Reward 8.000000 Average Reward 9.200000
 Episode 1650 Reward 10.000000 Average Reward 9.400000
 Episode 1660 Reward 9.000000 Average Reward 9.100000
 Episode 1670 Reward 10.000000 Average Reward 9.400000
 Episode 1680 Reward 9.000000 Average Reward 9.000000
 Episode 1690 Reward 8.000000 Average Reward 9.000000
 Episode 1700 Reward 10.000000 Average Reward 9.400000
 Episode 1710 Reward 10.000000 Average Reward 9.400000
 Episode 1720 Reward 9.000000 Average Reward 9.300000
 Episode 1730 Reward 10.000000 Average Reward 9.100000
 Episode 1740 Reward 9.000000 Average Reward 9.400000
 Episode 1750 Reward 10.000000 Average Reward 9.300000
 Episode 1760 Reward 9.000000 Average Reward 9.400000
 Episode 1770 Reward 10.000000 Average Reward 9.400000
 Episode 1780 Reward 10.000000 Average Reward 9.800000
 Episode 1790 Reward 9.000000 Average Reward 9.400000
 Episode 1800 Reward 10.000000 Average Reward 9.500000

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Run: 7 -----

Episode 10 Reward 26.000000 Average Reward 23.800000
 Episode 20 Reward 26.000000 Average Reward 27.500000
 Episode 30 Reward 46.000000 Average Reward 100.000000
 Episode 40 Reward 27.000000 Average Reward 32.200000
 Episode 50 Reward 121.000000 Average Reward 73.800000

Episode	60	Reward	31.000000	Average	Reward	52.400000
Episode	70	Reward	58.000000	Average	Reward	54.200000
Episode	80	Reward	83.000000	Average	Reward	66.000000
Episode	90	Reward	60.000000	Average	Reward	71.400000
Episode	100	Reward	32.000000	Average	Reward	53.700000
Episode	110	Reward	84.000000	Average	Reward	48.900000
Episode	120	Reward	61.000000	Average	Reward	110.700000
Episode	130	Reward	99.000000	Average	Reward	116.200000
Episode	140	Reward	84.000000	Average	Reward	57.300000
Episode	150	Reward	89.000000	Average	Reward	100.000000
Episode	160	Reward	46.000000	Average	Reward	62.200000
Episode	170	Reward	24.000000	Average	Reward	27.000000
Episode	180	Reward	15.000000	Average	Reward	32.700000
Episode	190	Reward	41.000000	Average	Reward	33.100000
Episode	200	Reward	24.000000	Average	Reward	25.500000
Episode	210	Reward	26.000000	Average	Reward	35.700000
Episode	220	Reward	39.000000	Average	Reward	36.500000
Episode	230	Reward	25.000000	Average	Reward	19.500000
Episode	240	Reward	18.000000	Average	Reward	23.000000
Episode	250	Reward	18.000000	Average	Reward	17.800000
Episode	260	Reward	13.000000	Average	Reward	29.600000
Episode	270	Reward	37.000000	Average	Reward	21.100000
Episode	280	Reward	37.000000	Average	Reward	26.500000
Episode	290	Reward	73.000000	Average	Reward	40.500000
Episode	300	Reward	74.000000	Average	Reward	67.600000
Episode	310	Reward	175.000000	Average	Reward	179.400000
Episode	320	Reward	122.000000	Average	Reward	157.700000
Episode	330	Reward	61.000000	Average	Reward	55.300000
Episode	340	Reward	33.000000	Average	Reward	51.500000
Episode	350	Reward	33.000000	Average	Reward	34.200000
Episode	360	Reward	113.000000	Average	Reward	113.400000
Episode	370	Reward	83.000000	Average	Reward	66.800000
Episode	380	Reward	109.000000	Average	Reward	90.600000
Episode	390	Reward	48.000000	Average	Reward	68.200000
Episode	400	Reward	86.000000	Average	Reward	73.600000
Episode	410	Reward	79.000000	Average	Reward	81.900000
Episode	420	Reward	135.000000	Average	Reward	122.200000
Episode	430	Reward	25.000000	Average	Reward	94.800000
Episode	440	Reward	16.000000	Average	Reward	20.300000
Episode	450	Reward	15.000000	Average	Reward	22.200000
Episode	460	Reward	26.000000	Average	Reward	27.700000
Episode	470	Reward	31.000000	Average	Reward	38.900000
Episode	480	Reward	30.000000	Average	Reward	51.200000
Episode	490	Reward	27.000000	Average	Reward	27.400000
Episode	500	Reward	26.000000	Average	Reward	28.400000
Episode	510	Reward	28.000000	Average	Reward	30.300000
Episode	520	Reward	28.000000	Average	Reward	26.500000
Episode	530	Reward	173.000000	Average	Reward	100.800000

Episode 540 Reward 25.000000 Average Reward 118.200000
 Episode 550 Reward 9.000000 Average Reward 17.000000
 Episode 560 Reward 11.000000 Average Reward 9.200000
 Episode 570 Reward 10.000000 Average Reward 9.300000
 Episode 580 Reward 9.000000 Average Reward 9.300000
 Episode 590 Reward 10.000000 Average Reward 8.900000
 Episode 600 Reward 9.000000 Average Reward 9.300000
 Episode 610 Reward 10.000000 Average Reward 9.200000
 Episode 620 Reward 10.000000 Average Reward 9.400000
 Episode 630 Reward 9.000000 Average Reward 9.200000
 Episode 640 Reward 8.000000 Average Reward 9.500000
 Episode 650 Reward 8.000000 Average Reward 9.100000
 Episode 660 Reward 10.000000 Average Reward 9.300000
 Episode 670 Reward 10.000000 Average Reward 9.400000
 Episode 680 Reward 9.000000 Average Reward 9.100000
 Episode 690 Reward 10.000000 Average Reward 9.600000
 Episode 700 Reward 11.000000 Average Reward 9.700000
 Episode 710 Reward 10.000000 Average Reward 9.400000
 Episode 720 Reward 10.000000 Average Reward 9.400000
 Episode 730 Reward 10.000000 Average Reward 9.200000
 Episode 740 Reward 9.000000 Average Reward 9.400000
 Episode 750 Reward 8.000000 Average Reward 9.200000
 Episode 760 Reward 10.000000 Average Reward 9.200000
 Episode 770 Reward 9.000000 Average Reward 9.300000
 Episode 780 Reward 9.000000 Average Reward 9.100000
 Episode 790 Reward 9.000000 Average Reward 9.500000
 Episode 800 Reward 10.000000 Average Reward 9.100000
 Episode 810 Reward 9.000000 Average Reward 9.300000
 Episode 820 Reward 9.000000 Average Reward 9.000000
 Episode 830 Reward 9.000000 Average Reward 9.000000
 Episode 840 Reward 10.000000 Average Reward 9.400000
 Episode 850 Reward 9.000000 Average Reward 9.300000
 Episode 860 Reward 10.000000 Average Reward 9.700000
 Episode 870 Reward 10.000000 Average Reward 9.600000
 Episode 880 Reward 9.000000 Average Reward 9.400000
 Episode 890 Reward 8.000000 Average Reward 9.200000
 Episode 900 Reward 10.000000 Average Reward 9.400000
 Episode 910 Reward 9.000000 Average Reward 9.600000
 Episode 920 Reward 10.000000 Average Reward 9.500000
 Episode 930 Reward 9.000000 Average Reward 9.600000
 Episode 940 Reward 10.000000 Average Reward 9.500000
 Episode 950 Reward 9.000000 Average Reward 9.500000
 Episode 960 Reward 9.000000 Average Reward 9.100000
 Episode 970 Reward 9.000000 Average Reward 9.400000
 Episode 980 Reward 9.000000 Average Reward 9.300000
 Episode 990 Reward 8.000000 Average Reward 9.300000
 Episode 1000 Reward 10.000000 Average Reward 9.200000
 Episode 1010 Reward 10.000000 Average Reward 9.500000

Episode	1020	Reward	10.000000	Average	Reward	9.400000
Episode	1030	Reward	8.000000	Average	Reward	9.500000
Episode	1040	Reward	10.000000	Average	Reward	9.200000
Episode	1050	Reward	10.000000	Average	Reward	9.200000
Episode	1060	Reward	10.000000	Average	Reward	9.500000
Episode	1070	Reward	10.000000	Average	Reward	9.700000
Episode	1080	Reward	10.000000	Average	Reward	9.200000
Episode	1090	Reward	10.000000	Average	Reward	9.200000
Episode	1100	Reward	10.000000	Average	Reward	9.400000
Episode	1110	Reward	10.000000	Average	Reward	9.100000
Episode	1120	Reward	10.000000	Average	Reward	9.800000
Episode	1130	Reward	9.000000	Average	Reward	9.600000
Episode	1140	Reward	9.000000	Average	Reward	9.200000
Episode	1150	Reward	10.000000	Average	Reward	9.400000
Episode	1160	Reward	9.000000	Average	Reward	9.300000
Episode	1170	Reward	8.000000	Average	Reward	8.900000
Episode	1180	Reward	9.000000	Average	Reward	9.500000
Episode	1190	Reward	9.000000	Average	Reward	9.100000
Episode	1200	Reward	9.000000	Average	Reward	9.300000
Episode	1210	Reward	9.000000	Average	Reward	9.200000
Episode	1220	Reward	9.000000	Average	Reward	8.700000
Episode	1230	Reward	10.000000	Average	Reward	9.100000
Episode	1240	Reward	10.000000	Average	Reward	9.300000
Episode	1250	Reward	9.000000	Average	Reward	9.100000
Episode	1260	Reward	10.000000	Average	Reward	9.500000
Episode	1270	Reward	9.000000	Average	Reward	9.400000
Episode	1280	Reward	10.000000	Average	Reward	9.600000
Episode	1290	Reward	10.000000	Average	Reward	9.000000
Episode	1300	Reward	9.000000	Average	Reward	9.400000
Episode	1310	Reward	9.000000	Average	Reward	9.200000
Episode	1320	Reward	10.000000	Average	Reward	9.400000
Episode	1330	Reward	8.000000	Average	Reward	9.100000
Episode	1340	Reward	9.000000	Average	Reward	9.300000
Episode	1350	Reward	10.000000	Average	Reward	9.700000
Episode	1360	Reward	10.000000	Average	Reward	9.300000
Episode	1370	Reward	9.000000	Average	Reward	9.400000
Episode	1380	Reward	10.000000	Average	Reward	9.500000
Episode	1390	Reward	9.000000	Average	Reward	9.100000
Episode	1400	Reward	9.000000	Average	Reward	9.600000
Episode	1410	Reward	10.000000	Average	Reward	9.300000
Episode	1420	Reward	10.000000	Average	Reward	9.500000
Episode	1430	Reward	10.000000	Average	Reward	9.100000
Episode	1440	Reward	9.000000	Average	Reward	9.100000
Episode	1450	Reward	10.000000	Average	Reward	9.000000
Episode	1460	Reward	9.000000	Average	Reward	9.500000
Episode	1470	Reward	11.000000	Average	Reward	9.300000
Episode	1480	Reward	10.000000	Average	Reward	9.600000
Episode	1490	Reward	10.000000	Average	Reward	9.200000

Episode 1500 Reward 9.000000 Average Reward 9.800000
 Episode 1510 Reward 9.000000 Average Reward 9.400000
 Episode 1520 Reward 9.000000 Average Reward 9.200000
 Episode 1530 Reward 9.000000 Average Reward 9.300000
 Episode 1540 Reward 11.000000 Average Reward 9.500000
 Episode 1550 Reward 10.000000 Average Reward 9.800000
 Episode 1560 Reward 10.000000 Average Reward 9.600000
 Episode 1570 Reward 9.000000 Average Reward 9.500000
 Episode 1580 Reward 9.000000 Average Reward 9.800000
 Episode 1590 Reward 9.000000 Average Reward 10.200000
 Episode 1600 Reward 9.000000 Average Reward 9.300000
 Episode 1610 Reward 9.000000 Average Reward 10.200000
 Episode 1620 Reward 8.000000 Average Reward 10.800000
 Episode 1630 Reward 11.000000 Average Reward 13.300000
 Episode 1640 Reward 22.000000 Average Reward 14.600000
 Episode 1650 Reward 23.000000 Average Reward 20.000000
 Episode 1660 Reward 18.000000 Average Reward 22.600000
 Episode 1670 Reward 17.000000 Average Reward 20.400000
 Episode 1680 Reward 19.000000 Average Reward 18.100000
 Episode 1690 Reward 18.000000 Average Reward 15.500000
 Episode 1700 Reward 12.000000 Average Reward 16.500000
 Episode 1710 Reward 15.000000 Average Reward 14.800000
 Episode 1720 Reward 17.000000 Average Reward 12.200000
 Episode 1730 Reward 10.000000 Average Reward 13.100000
 Episode 1740 Reward 10.000000 Average Reward 9.700000
 Episode 1750 Reward 10.000000 Average Reward 9.900000
 Episode 1760 Reward 12.000000 Average Reward 13.100000
 Episode 1770 Reward 9.000000 Average Reward 11.600000
 Episode 1780 Reward 20.000000 Average Reward 21.100000
 Episode 1790 Reward 10.000000 Average Reward 15.600000
 Episode 1800 Reward 32.000000 Average Reward 58.900000

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Run: 8 -----
 Episode 10 Reward 31.000000 Average Reward 30.800000
 Episode 20 Reward 57.000000 Average Reward 59.400000
 Episode 30 Reward 26.000000 Average Reward 44.400000
 Episode 40 Reward 9.000000 Average Reward 13.900000
 Episode 50 Reward 8.000000 Average Reward 9.000000
 Episode 60 Reward 11.000000 Average Reward 9.800000
 Episode 70 Reward 9.000000 Average Reward 9.500000
 Episode 80 Reward 9.000000 Average Reward 9.200000
 Episode 90 Reward 9.000000 Average Reward 9.400000
 Episode 100 Reward 10.000000 Average Reward 9.000000
 Episode 110 Reward 11.000000 Average Reward 9.800000
 Episode 120 Reward 10.000000 Average Reward 9.500000
 Episode 130 Reward 9.000000 Average Reward 9.600000
 Episode 140 Reward 9.000000 Average Reward 9.200000

Episode	150	Reward	10.000000	Average Reward	9.100000
Episode	160	Reward	8.000000	Average Reward	9.100000
Episode	170	Reward	10.000000	Average Reward	9.400000
Episode	180	Reward	10.000000	Average Reward	9.600000
Episode	190	Reward	11.000000	Average Reward	9.600000
Episode	200	Reward	9.000000	Average Reward	9.400000
Episode	210	Reward	9.000000	Average Reward	9.300000
Episode	220	Reward	10.000000	Average Reward	10.100000
Episode	230	Reward	92.000000	Average Reward	56.300000
Episode	240	Reward	59.000000	Average Reward	41.900000
Episode	250	Reward	48.000000	Average Reward	32.100000
Episode	260	Reward	56.000000	Average Reward	41.400000
Episode	270	Reward	63.000000	Average Reward	40.400000
Episode	280	Reward	36.000000	Average Reward	41.500000
Episode	290	Reward	9.000000	Average Reward	12.400000
Episode	300	Reward	10.000000	Average Reward	9.500000
Episode	310	Reward	8.000000	Average Reward	9.000000
Episode	320	Reward	9.000000	Average Reward	9.400000
Episode	330	Reward	10.000000	Average Reward	9.300000
Episode	340	Reward	9.000000	Average Reward	9.200000
Episode	350	Reward	8.000000	Average Reward	9.500000
Episode	360	Reward	9.000000	Average Reward	9.200000
Episode	370	Reward	8.000000	Average Reward	9.300000
Episode	380	Reward	8.000000	Average Reward	9.500000
Episode	390	Reward	9.000000	Average Reward	9.500000
Episode	400	Reward	10.000000	Average Reward	9.400000
Episode	410	Reward	11.000000	Average Reward	9.600000
Episode	420	Reward	9.000000	Average Reward	9.300000
Episode	430	Reward	9.000000	Average Reward	9.500000
Episode	440	Reward	9.000000	Average Reward	9.200000
Episode	450	Reward	10.000000	Average Reward	9.000000
Episode	460	Reward	9.000000	Average Reward	9.200000
Episode	470	Reward	9.000000	Average Reward	8.800000
Episode	480	Reward	10.000000	Average Reward	9.100000
Episode	490	Reward	8.000000	Average Reward	9.200000
Episode	500	Reward	9.000000	Average Reward	9.400000
Episode	510	Reward	8.000000	Average Reward	9.400000
Episode	520	Reward	9.000000	Average Reward	9.900000
Episode	530	Reward	10.000000	Average Reward	9.200000
Episode	540	Reward	10.000000	Average Reward	9.800000
Episode	550	Reward	9.000000	Average Reward	9.400000
Episode	560	Reward	10.000000	Average Reward	9.400000
Episode	570	Reward	10.000000	Average Reward	9.600000
Episode	580	Reward	9.000000	Average Reward	9.000000
Episode	590	Reward	70.000000	Average Reward	57.900000
Episode	600	Reward	50.000000	Average Reward	76.300000
Episode	610	Reward	28.000000	Average Reward	64.600000
Episode	620	Reward	44.000000	Average Reward	38.700000

Episode	630	Reward	21.000000	Average	Reward	41.500000
Episode	640	Reward	135.000000	Average	Reward	54.300000
Episode	650	Reward	24.000000	Average	Reward	46.400000
Episode	660	Reward	20.000000	Average	Reward	36.700000
Episode	670	Reward	22.000000	Average	Reward	37.500000
Episode	680	Reward	17.000000	Average	Reward	36.000000
Episode	690	Reward	55.000000	Average	Reward	58.300000
Episode	700	Reward	31.000000	Average	Reward	61.700000
Episode	710	Reward	51.000000	Average	Reward	67.400000
Episode	720	Reward	42.000000	Average	Reward	43.100000
Episode	730	Reward	38.000000	Average	Reward	37.000000
Episode	740	Reward	35.000000	Average	Reward	43.800000
Episode	750	Reward	45.000000	Average	Reward	60.000000
Episode	760	Reward	41.000000	Average	Reward	50.300000
Episode	770	Reward	37.000000	Average	Reward	78.200000
Episode	780	Reward	54.000000	Average	Reward	65.000000
Episode	790	Reward	27.000000	Average	Reward	38.300000
Episode	800	Reward	37.000000	Average	Reward	52.800000
Episode	810	Reward	26.000000	Average	Reward	48.100000
Episode	820	Reward	47.000000	Average	Reward	68.800000
Episode	830	Reward	110.000000	Average	Reward	125.700000
Episode	840	Reward	109.000000	Average	Reward	98.700000
Episode	850	Reward	121.000000	Average	Reward	126.700000
Episode	860	Reward	48.000000	Average	Reward	110.400000
Episode	870	Reward	83.000000	Average	Reward	48.900000
Episode	880	Reward	188.000000	Average	Reward	83.800000
Episode	890	Reward	34.000000	Average	Reward	39.200000
Episode	900	Reward	33.000000	Average	Reward	32.500000
Episode	910	Reward	77.000000	Average	Reward	59.800000
Episode	920	Reward	28.000000	Average	Reward	67.900000
Episode	930	Reward	37.000000	Average	Reward	49.700000
Episode	940	Reward	43.000000	Average	Reward	34.900000
Episode	950	Reward	24.000000	Average	Reward	35.100000
Episode	960	Reward	63.000000	Average	Reward	62.500000
Episode	970	Reward	118.000000	Average	Reward	57.700000
Episode	980	Reward	54.000000	Average	Reward	55.600000
Episode	990	Reward	29.000000	Average	Reward	52.400000
Episode	1000	Reward	263.000000	Average	Reward	81.500000
Episode	1010	Reward	46.000000	Average	Reward	73.400000
Episode	1020	Reward	16.000000	Average	Reward	27.000000
Episode	1030	Reward	30.000000	Average	Reward	22.900000
Episode	1040	Reward	146.000000	Average	Reward	91.300000
Episode	1050	Reward	10.000000	Average	Reward	73.900000
Episode	1060	Reward	9.000000	Average	Reward	79.300000
Episode	1070	Reward	83.000000	Average	Reward	53.500000
Episode	1080	Reward	84.000000	Average	Reward	105.400000
Episode	1090	Reward	28.000000	Average	Reward	48.400000
Episode	1100	Reward	80.000000	Average	Reward	95.500000

Episode	1110	Reward	81.000000	Average Reward	73.400000
Episode	1120	Reward	71.000000	Average Reward	48.900000
Episode	1130	Reward	142.000000	Average Reward	100.800000
Episode	1140	Reward	87.000000	Average Reward	100.000000
Episode	1150	Reward	121.000000	Average Reward	114.900000
Episode	1160	Reward	10.000000	Average Reward	87.800000
Episode	1170	Reward	10.000000	Average Reward	9.200000
Episode	1180	Reward	10.000000	Average Reward	9.200000
Episode	1190	Reward	10.000000	Average Reward	9.700000
Episode	1200	Reward	9.000000	Average Reward	9.500000
Episode	1210	Reward	10.000000	Average Reward	9.500000
Episode	1220	Reward	10.000000	Average Reward	9.600000
Episode	1230	Reward	10.000000	Average Reward	9.400000
Episode	1240	Reward	8.000000	Average Reward	9.000000
Episode	1250	Reward	9.000000	Average Reward	9.500000
Episode	1260	Reward	8.000000	Average Reward	9.200000
Episode	1270	Reward	10.000000	Average Reward	9.500000
Episode	1280	Reward	10.000000	Average Reward	9.600000
Episode	1290	Reward	10.000000	Average Reward	9.600000
Episode	1300	Reward	10.000000	Average Reward	9.600000
Episode	1310	Reward	10.000000	Average Reward	9.600000
Episode	1320	Reward	8.000000	Average Reward	9.200000
Episode	1330	Reward	10.000000	Average Reward	9.500000
Episode	1340	Reward	9.000000	Average Reward	9.400000
Episode	1350	Reward	8.000000	Average Reward	8.800000
Episode	1360	Reward	10.000000	Average Reward	9.600000
Episode	1370	Reward	10.000000	Average Reward	8.900000
Episode	1380	Reward	8.000000	Average Reward	9.500000
Episode	1390	Reward	8.000000	Average Reward	9.000000
Episode	1400	Reward	9.000000	Average Reward	9.600000
Episode	1410	Reward	8.000000	Average Reward	9.300000
Episode	1420	Reward	10.000000	Average Reward	9.200000
Episode	1430	Reward	21.000000	Average Reward	20.600000
Episode	1440	Reward	19.000000	Average Reward	18.300000
Episode	1450	Reward	21.000000	Average Reward	19.100000
Episode	1460	Reward	20.000000	Average Reward	19.900000
Episode	1470	Reward	15.000000	Average Reward	16.800000
Episode	1480	Reward	27.000000	Average Reward	19.600000
Episode	1490	Reward	19.000000	Average Reward	18.400000
Episode	1500	Reward	10.000000	Average Reward	34.000000
Episode	1510	Reward	55.000000	Average Reward	14.000000
Episode	1520	Reward	25.000000	Average Reward	83.100000
Episode	1530	Reward	15.000000	Average Reward	32.900000
Episode	1540	Reward	8.000000	Average Reward	9.300000
Episode	1550	Reward	30.000000	Average Reward	23.300000
Episode	1560	Reward	86.000000	Average Reward	45.300000
Episode	1570	Reward	9.000000	Average Reward	32.300000
Episode	1580	Reward	10.000000	Average Reward	9.300000

Episode 1590 Reward 10.000000 Average Reward 9.700000
 Episode 1600 Reward 10.000000 Average Reward 9.100000
 Episode 1610 Reward 10.000000 Average Reward 9.600000
 Episode 1620 Reward 10.000000 Average Reward 9.500000
 Episode 1630 Reward 9.000000 Average Reward 9.000000
 Episode 1640 Reward 9.000000 Average Reward 8.900000
 Episode 1650 Reward 9.000000 Average Reward 9.800000
 Episode 1660 Reward 9.000000 Average Reward 9.400000
 Episode 1670 Reward 11.000000 Average Reward 9.500000
 Episode 1680 Reward 10.000000 Average Reward 9.300000
 Episode 1690 Reward 8.000000 Average Reward 9.100000
 Episode 1700 Reward 8.000000 Average Reward 9.400000
 Episode 1710 Reward 9.000000 Average Reward 9.300000
 Episode 1720 Reward 10.000000 Average Reward 9.400000
 Episode 1730 Reward 9.000000 Average Reward 9.400000
 Episode 1740 Reward 8.000000 Average Reward 9.300000
 Episode 1750 Reward 9.000000 Average Reward 9.600000
 Episode 1760 Reward 10.000000 Average Reward 9.200000
 Episode 1770 Reward 9.000000 Average Reward 9.500000
 Episode 1780 Reward 9.000000 Average Reward 9.100000
 Episode 1790 Reward 8.000000 Average Reward 8.800000
 Episode 1800 Reward 9.000000 Average Reward 9.100000

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Run: 9 -----

Episode 10 Reward 14.000000 Average Reward 17.100000
 Episode 20 Reward 21.000000 Average Reward 16.400000
 Episode 30 Reward 31.000000 Average Reward 25.400000
 Episode 40 Reward 23.000000 Average Reward 51.300000
 Episode 50 Reward 26.000000 Average Reward 62.300000
 Episode 60 Reward 60.000000 Average Reward 38.200000
 Episode 70 Reward 57.000000 Average Reward 89.700000
 Episode 80 Reward 70.000000 Average Reward 63.900000
 Episode 90 Reward 53.000000 Average Reward 133.900000
 Episode 100 Reward 11.000000 Average Reward 79.300000
 Episode 110 Reward 10.000000 Average Reward 10.800000
 Episode 120 Reward 10.000000 Average Reward 9.000000
 Episode 130 Reward 10.000000 Average Reward 9.500000
 Episode 140 Reward 12.000000 Average Reward 10.400000
 Episode 150 Reward 8.000000 Average Reward 10.900000
 Episode 160 Reward 11.000000 Average Reward 11.600000
 Episode 170 Reward 11.000000 Average Reward 10.100000
 Episode 180 Reward 11.000000 Average Reward 9.700000
 Episode 190 Reward 15.000000 Average Reward 12.000000
 Episode 200 Reward 10.000000 Average Reward 10.100000
 Episode 210 Reward 10.000000 Average Reward 10.700000
 Episode 220 Reward 8.000000 Average Reward 11.400000
 Episode 230 Reward 10.000000 Average Reward 10.000000

Episode	240	Reward	15.000000	Average	Reward	10.500000
Episode	250	Reward	13.000000	Average	Reward	11.600000
Episode	260	Reward	8.000000	Average	Reward	12.800000
Episode	270	Reward	44.000000	Average	Reward	23.900000
Episode	280	Reward	20.000000	Average	Reward	15.500000
Episode	290	Reward	19.000000	Average	Reward	16.300000
Episode	300	Reward	13.000000	Average	Reward	23.300000
Episode	310	Reward	104.000000	Average	Reward	34.300000
Episode	320	Reward	54.000000	Average	Reward	46.000000
Episode	330	Reward	27.000000	Average	Reward	32.200000
Episode	340	Reward	28.000000	Average	Reward	83.100000
Episode	350	Reward	121.000000	Average	Reward	172.600000
Episode	360	Reward	9.000000	Average	Reward	126.700000
Episode	370	Reward	17.000000	Average	Reward	20.000000
Episode	380	Reward	12.000000	Average	Reward	16.000000
Episode	390	Reward	26.000000	Average	Reward	18.900000
Episode	400	Reward	27.000000	Average	Reward	20.300000
Episode	410	Reward	17.000000	Average	Reward	22.900000
Episode	420	Reward	12.000000	Average	Reward	19.500000
Episode	430	Reward	25.000000	Average	Reward	21.200000
Episode	440	Reward	27.000000	Average	Reward	26.000000
Episode	450	Reward	10.000000	Average	Reward	20.200000
Episode	460	Reward	9.000000	Average	Reward	9.500000
Episode	470	Reward	9.000000	Average	Reward	9.900000
Episode	480	Reward	9.000000	Average	Reward	9.200000
Episode	490	Reward	9.000000	Average	Reward	9.600000
Episode	500	Reward	9.000000	Average	Reward	9.700000
Episode	510	Reward	10.000000	Average	Reward	9.900000
Episode	520	Reward	9.000000	Average	Reward	8.900000
Episode	530	Reward	9.000000	Average	Reward	9.600000
Episode	540	Reward	9.000000	Average	Reward	9.200000
Episode	550	Reward	9.000000	Average	Reward	9.300000
Episode	560	Reward	10.000000	Average	Reward	9.700000
Episode	570	Reward	9.000000	Average	Reward	9.200000
Episode	580	Reward	10.000000	Average	Reward	9.700000
Episode	590	Reward	39.000000	Average	Reward	16.200000
Episode	600	Reward	65.000000	Average	Reward	46.400000
Episode	610	Reward	30.000000	Average	Reward	40.700000
Episode	620	Reward	144.000000	Average	Reward	90.500000
Episode	630	Reward	208.000000	Average	Reward	238.500000
Episode	640	Reward	61.000000	Average	Reward	78.100000
Episode	650	Reward	71.000000	Average	Reward	60.400000
Episode	660	Reward	80.000000	Average	Reward	66.700000
Episode	670	Reward	56.000000	Average	Reward	80.500000
Episode	680	Reward	8.000000	Average	Reward	13.900000
Episode	690	Reward	10.000000	Average	Reward	9.300000
Episode	700	Reward	9.000000	Average	Reward	9.300000
Episode	710	Reward	9.000000	Average	Reward	9.400000

Episode 720 Reward 9.000000 Average Reward 9.600000
Episode 730 Reward 10.000000 Average Reward 9.900000
Episode 740 Reward 9.000000 Average Reward 9.300000
Episode 750 Reward 10.000000 Average Reward 9.600000
Episode 760 Reward 8.000000 Average Reward 9.600000
Episode 770 Reward 8.000000 Average Reward 8.900000
Episode 780 Reward 10.000000 Average Reward 9.200000
Episode 790 Reward 10.000000 Average Reward 8.900000
Episode 800 Reward 10.000000 Average Reward 9.600000
Episode 810 Reward 9.000000 Average Reward 9.200000
Episode 820 Reward 9.000000 Average Reward 9.200000
Episode 830 Reward 10.000000 Average Reward 9.100000
Episode 840 Reward 9.000000 Average Reward 9.300000
Episode 850 Reward 8.000000 Average Reward 8.800000
Episode 860 Reward 9.000000 Average Reward 9.200000
Episode 870 Reward 9.000000 Average Reward 9.200000
Episode 880 Reward 8.000000 Average Reward 9.300000
Episode 890 Reward 9.000000 Average Reward 9.800000
Episode 900 Reward 9.000000 Average Reward 9.300000
Episode 910 Reward 9.000000 Average Reward 9.200000
Episode 920 Reward 9.000000 Average Reward 9.500000
Episode 930 Reward 10.000000 Average Reward 9.300000
Episode 940 Reward 10.000000 Average Reward 9.300000
Episode 950 Reward 9.000000 Average Reward 9.600000
Episode 960 Reward 11.000000 Average Reward 9.300000
Episode 970 Reward 29.000000 Average Reward 23.100000
Episode 980 Reward 9.000000 Average Reward 42.500000
Episode 990 Reward 11.000000 Average Reward 9.200000
Episode 1000 Reward 8.000000 Average Reward 9.200000
Episode 1010 Reward 9.000000 Average Reward 9.300000
Episode 1020 Reward 10.000000 Average Reward 9.500000
Episode 1030 Reward 10.000000 Average Reward 9.400000
Episode 1040 Reward 9.000000 Average Reward 9.500000
Episode 1050 Reward 11.000000 Average Reward 9.700000
Episode 1060 Reward 8.000000 Average Reward 9.600000
Episode 1070 Reward 9.000000 Average Reward 9.400000
Episode 1080 Reward 9.000000 Average Reward 9.300000
Episode 1090 Reward 11.000000 Average Reward 9.300000
Episode 1100 Reward 10.000000 Average Reward 9.600000
Episode 1110 Reward 8.000000 Average Reward 9.400000
Episode 1120 Reward 9.000000 Average Reward 9.400000
Episode 1130 Reward 9.000000 Average Reward 9.400000
Episode 1140 Reward 9.000000 Average Reward 8.900000
Episode 1150 Reward 10.000000 Average Reward 9.600000
Episode 1160 Reward 8.000000 Average Reward 9.200000
Episode 1170 Reward 11.000000 Average Reward 9.200000
Episode 1180 Reward 9.000000 Average Reward 9.600000
Episode 1190 Reward 10.000000 Average Reward 9.200000

Episode	1200	Reward	9.000000	Average Reward	9.200000
Episode	1210	Reward	10.000000	Average Reward	9.300000
Episode	1220	Reward	9.000000	Average Reward	9.500000
Episode	1230	Reward	10.000000	Average Reward	9.500000
Episode	1240	Reward	10.000000	Average Reward	9.300000
Episode	1250	Reward	9.000000	Average Reward	9.100000
Episode	1260	Reward	10.000000	Average Reward	9.200000
Episode	1270	Reward	10.000000	Average Reward	9.600000
Episode	1280	Reward	9.000000	Average Reward	9.300000
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Episode 1680 Reward 9.000000 Average Reward 9.800000
Episode 1690 Reward 10.000000 Average Reward 9.600000
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Episode 1760 Reward 9.000000 Average Reward 9.600000
Episode 1770 Reward 10.000000 Average Reward 9.500000
Episode 1780 Reward 9.000000 Average Reward 9.200000
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Episode 1800 Reward 9.000000 Average Reward 9.000000

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Run: 10 -----

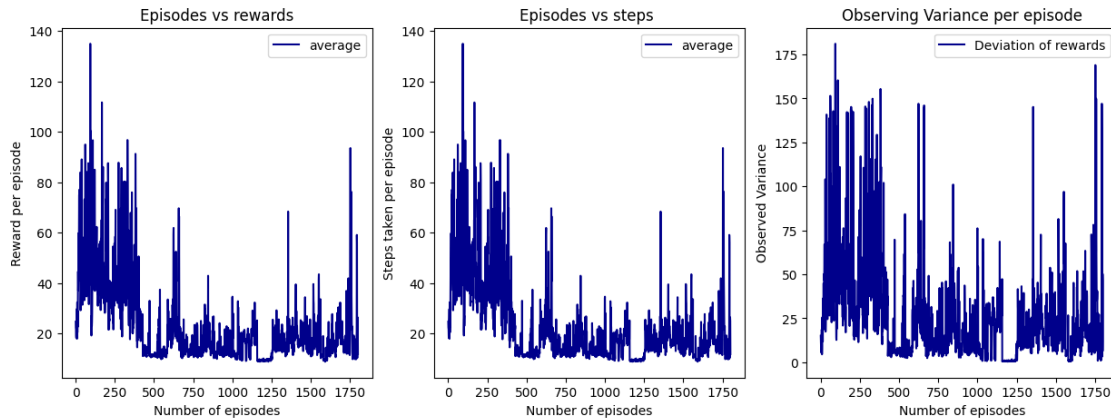
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Episode 80 Reward 34.000000 Average Reward 89.800000
Episode 90 Reward 58.000000 Average Reward 50.500000
Episode 100 Reward 38.000000 Average Reward 127.200000
Episode 110 Reward 21.000000 Average Reward 45.000000
Episode 120 Reward 27.000000 Average Reward 104.100000
Episode 130 Reward 185.000000 Average Reward 146.800000
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Episode 170 Reward 220.000000 Average Reward 189.800000
Episode 180 Reward 240.000000 Average Reward 234.600000
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Episode 210 Reward 31.000000 Average Reward 27.400000
Episode 220 Reward 17.000000 Average Reward 38.400000
Episode 230 Reward 45.000000 Average Reward 30.400000
Episode 240 Reward 259.000000 Average Reward 81.300000
Episode 250 Reward 237.000000 Average Reward 112.300000
Episode 260 Reward 8.000000 Average Reward 168.000000
Episode 270 Reward 50.000000 Average Reward 47.700000
Episode 280 Reward 57.000000 Average Reward 123.400000
Episode 290 Reward 9.000000 Average Reward 9.100000
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Episode 320 Reward 10.000000 Average Reward 9.700000

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Episode	670	Reward	9.000000	Average Reward	9.200000
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Episode: 1799 Number of steps: 25
Episode: 1800 Number of steps: 12

C:\Users\CFI Workstation\AppData\Local\Packages\PythonSoftwareFoundation.Python.


```
3.10_qbz5n2kfra8p0\LocalCache\local-packages\Python310\site-  
packages\wandb\sdk\lib\ipython.py:47: DeprecationWarning: Importing display from  
IPython.core.display is deprecated since IPython 7.14, please import from  
IPython display  
    from IPython.core.display import HTML, display # type: ignore  
<IPython.core.display.HTML object>  
<IPython.core.display.HTML object>  
<IPython.core.display.HTML object>  
<IPython.core.display.HTML object>
```