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
```

```
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:</pre>
           h = tf.nn.relu(self.linears[i](h))
        else:
           return self.pi_out(h), self.v_out(h)
  """Agent( action_size=env.action space.n, num_layers=num_layers,_
⇒num_neurons_each_layer=num_neurons_each_layer, lr=LR, seed = seed)
```

```
[]: class Agent:
         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 \Box
      ⇒sample one action
             n n n
             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
```

```
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 parameters 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))
[]: 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,_u
```

anum_neurons_each_layer=num_neurons_each_layer, lr=LR,seed = seed)

#Number of episodes
episodes = num_episodes

tf.compat.v1.reset_default_graph()

```
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_
\rightarrowParameters
           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' %L
→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
```

```
for idx, 1 in enumerate(array):
    arr[:len(1),idx] = 1
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)
```

```
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:</pre>
       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_
  \hookrightarrow '+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)+'.
  \rightarrowjpg', 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]}}}
```

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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: 2thxjmzl

Sweep URL: https://wandb.ai/me19b190/Hyper%20parameter%20tuning%20RL%20full%20return%20-%20v1/sweeps/2thxjmzl

[]: 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

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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>

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```
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\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python310\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python320\\site-packages\\Python3
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(
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
                230 Reward 9.000000 Average Reward 9.300000
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Episode
                 240 Reward 10.000000 Average Reward 9.600000
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250 Reward 10.000000 Average Reward 9.700000
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Episode
         260 Reward 9.000000 Average Reward 9.400000
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         270 Reward 10.000000 Average Reward 9.500000
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         280 Reward 9.000000 Average Reward 9.300000
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         330 Reward 9.000000 Average Reward 9.200000
         340 Reward 9.000000 Average Reward 9.300000
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         350 Reward 10.000000 Average Reward 9.200000
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         360 Reward 13.000000 Average Reward 9.900000
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         370 Reward 14.000000 Average Reward 10.900000
         380 Reward 13.000000 Average Reward 13.200000
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         390 Reward 19.000000 Average Reward 21.600000
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         400 Reward 41.000000 Average Reward 51.000000
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         410 Reward 10.000000 Average Reward 52.200000
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         420 Reward 10.000000 Average Reward 9.400000
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         430 Reward 9.000000 Average Reward 9.300000
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         440 Reward 8.000000 Average Reward 9.200000
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         450 Reward 10.000000 Average Reward 9.700000
         460 Reward 8.000000 Average Reward 9.000000
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         470 Reward 8.000000 Average Reward 9.400000
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         480 Reward 10.000000 Average Reward 9.400000
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         490 Reward 9.000000 Average Reward 9.300000
         500 Reward 10.000000 Average Reward 9.200000
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         510 Reward 9.000000 Average Reward 9.800000
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         520 Reward 10.000000 Average Reward 9.600000
         530 Reward 10.000000 Average Reward 9.700000
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         540 Reward 11.000000 Average Reward 9.400000
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         560 Reward 10.000000 Average Reward 9.400000
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         570 Reward 9.000000 Average Reward 9.300000
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         580 Reward 10.000000 Average Reward 9.100000
         590 Reward 8.000000 Average Reward 9.100000
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         610 Reward 9.000000 Average Reward 9.100000
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         760 Reward 9.000000 Average Reward 9.300000
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        820 Reward 15.000000 Average Reward 10.400000
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        830 Reward 20.000000 Average Reward 19.500000
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         840 Reward 26.000000 Average Reward 19.400000
Episode
        850 Reward 11.000000 Average Reward 19.300000
         860 Reward 24.000000 Average Reward 26.500000
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         870 Reward 13.000000 Average Reward 25.000000
         880 Reward 10.000000 Average Reward 15.600000
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         890 Reward 169.000000 Average Reward 41.200000
         900 Reward 120.000000 Average Reward 138.500000
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         910 Reward 10.000000 Average Reward 108.700000
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         920 Reward 8.000000 Average Reward 9.200000
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         930 Reward 10.000000 Average Reward 9.500000
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         1270 Reward 10.000000 Average Reward 9.500000
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         1490 Reward 10.000000 Average Reward 9.400000
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         1520 Reward 10.000000 Average Reward 9.100000
Episode
         1530 Reward 11.000000 Average Reward 9.500000
         1540 Reward 9.000000 Average Reward 9.200000
Episode
         1550 Reward 8.000000 Average Reward 9.100000
Episode
Episode
         1560 Reward 9.000000 Average Reward 9.200000
         1570 Reward 10.000000 Average Reward 9.300000
Episode
Episode
         1580 Reward 9.000000 Average Reward 9.400000
Episode
         1590 Reward 10.000000 Average Reward 9.200000
         1600 Reward 9.000000 Average Reward 9.500000
Episode
Episode
         1610 Reward 10.000000 Average Reward 9.600000
         1620 Reward 8.000000 Average Reward 9.500000
Episode
Episode
         1630 Reward 11.000000 Average Reward 9.300000
         1640 Reward 8.000000 Average Reward 8.900000
Episode
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
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1690 Reward 8.000000 Average Reward 9.200000
Episode
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
         1730 Reward 9.000000 Average Reward 9.200000
Episode
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
        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
Episode
         1800 Reward 9.000000 Average Reward 9.400000
0:09:40.450735
0:09:40.533754
Run:
         10 Reward 36.000000 Average Reward 23.600000
Episode
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
        70 Reward 9.000000 Average Reward 9.500000
Episode
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
        110 Reward 10.000000 Average Reward 9.300000
Episode
        120 Reward 9.000000 Average Reward 9.400000
Episode
Episode
        130 Reward 10.000000 Average Reward 9.600000
        140 Reward 8.000000 Average Reward 9.300000
Episode
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
         190 Reward 9.000000 Average Reward 9.500000
Episode
Episode
         200 Reward 9.000000 Average Reward 9.600000
Episode
         210 Reward 8.000000 Average Reward 9.400000
         220 Reward 9.000000 Average Reward 9.500000
Episode
Episode
         230 Reward 10.000000 Average Reward 9.400000
Episode
         240 Reward 10.000000 Average Reward 9.300000
         250 Reward 10.000000 Average Reward 9.300000
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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
         290 Reward 8.000000 Average Reward 9.000000
Episode
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
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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
         550 Reward 10.000000 Average Reward 9.300000
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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
         590 Reward 9.000000 Average Reward 9.400000
Episode
         600 Reward 9.000000 Average Reward 9.200000
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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
         700 Reward 10.000000 Average Reward 9.400000
Episode
Episode
         710 Reward 10.000000 Average Reward 9.200000
Episode
         720 Reward 11.000000 Average Reward 9.300000
         730 Reward 9.000000 Average Reward 9.300000
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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
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820 Reward 10.000000 Average Reward 9.500000
Episode
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
         860 Reward 9.000000 Average Reward 9.300000
Episode
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
         910 Reward 9.000000 Average Reward 9.200000
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         920 Reward 10.000000 Average Reward 9.400000
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Episode
         930 Reward 10.000000 Average Reward 9.400000
Episode
         940 Reward 10.000000 Average Reward 9.700000
         950 Reward 8.000000 Average Reward 9.400000
Episode
Episode
         960 Reward 10.000000 Average Reward 9.300000
         970 Reward 10.000000 Average Reward 9.500000
Episode
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
         1030 Reward 10.000000 Average Reward 9.500000
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Episode
         1040 Reward 9.000000 Average Reward 9.300000
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         1050 Reward 10.000000 Average Reward 9.000000
Episode
         1060 Reward 8.000000 Average Reward 9.300000
         1070 Reward 9.000000 Average Reward 9.000000
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         1080 Reward 8.000000 Average Reward 8.900000
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Episode
         1090 Reward 8.000000 Average Reward 9.600000
         1100 Reward 10.000000 Average Reward 9.400000
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Episode
         1110 Reward 10.000000 Average Reward 9.700000
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         1120 Reward 10.000000 Average Reward 9.100000
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         1130 Reward 10.000000 Average Reward 9.500000
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         1140 Reward 9.000000 Average Reward 9.300000
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         1150 Reward 10.000000 Average Reward 9.200000
         1160 Reward 10.000000 Average Reward 9.400000
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Episode
         1170 Reward 10.000000 Average Reward 9.400000
         1180 Reward 8.000000 Average Reward 9.300000
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Episode
         1190 Reward 8.000000 Average Reward 9.200000
         1200 Reward 8.000000 Average Reward 9.300000
Episode
         1210 Reward 10.000000 Average Reward 9.700000
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Episode
         1220 Reward 9.000000 Average Reward 9.300000
         1230 Reward 9.000000 Average Reward 9.300000
Episode
Episode
         1240 Reward 9.000000 Average Reward 9.400000
         1250 Reward 8.000000 Average Reward 8.900000
Episode
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
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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
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         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
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         1380 Reward 9.000000 Average Reward 9.000000
         1390 Reward 9.000000 Average Reward 9.500000
Episode
         1400 Reward 10.000000 Average Reward 9.400000
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Episode
         1410 Reward 10.000000 Average Reward 9.300000
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         1420 Reward 10.000000 Average Reward 9.800000
         1430 Reward 10.000000 Average Reward 9.700000
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Episode
         1440 Reward 9.000000 Average Reward 9.800000
         1450 Reward 8.000000 Average Reward 9.400000
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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
         1550 Reward 10.000000 Average Reward 9.500000
Episode
         1560 Reward 9.000000 Average Reward 9.200000
Episode
Episode
         1570 Reward 10.000000 Average Reward 9.200000
         1580 Reward 10.000000 Average Reward 9.600000
Episode
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
         1690 Reward 10.000000 Average Reward 9.300000
Episode
Episode
         1700 Reward 8.000000 Average Reward 9.200000
         1710 Reward 9.000000 Average Reward 9.500000
Episode
Episode
         1720 Reward 8.000000 Average Reward 9.200000
         1730 Reward 9.000000 Average Reward 9.000000
Episode
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
```

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1780 Reward 10.000000 Average Reward 9.300000
Episode
        1790 Reward 9.000000 Average Reward 9.600000
Episode
Episode
         1800 Reward 8.000000 Average Reward 9.400000
0:08:02.049409
0:08:02.123425
     3
Run:
Episode
        10 Reward 12.000000 Average Reward 21.100000
Episode
        20 Reward 53.000000 Average Reward 27.100000
        30 Reward 39.000000 Average Reward 104.500000
Episode
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
        80 Reward 10.000000 Average Reward 9.200000
Episode
Episode
        90 Reward 9.000000 Average Reward 9.000000
        100 Reward 9.000000 Average Reward 9.400000
Episode
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
        200 Reward 11.000000 Average Reward 9.600000
Episode
         210 Reward 9.000000 Average Reward 10.300000
Episode
Episode
        220 Reward 12.000000 Average Reward 15.700000
         230 Reward 10.000000 Average Reward 13.900000
Episode
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
         340 Reward 9.000000 Average Reward 9.200000
Episode
Episode
        350 Reward 10.000000 Average Reward 9.300000
         360 Reward 9.000000 Average Reward 9.400000
Episode
Episode
         370 Reward 10.000000 Average Reward 9.600000
         380 Reward 9.000000 Average Reward 9.600000
Episode
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
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430 Reward 9.000000 Average Reward 9.300000
Episode
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
         520 Reward 10.000000 Average Reward 9.300000
Episode
         530 Reward 9.000000 Average Reward 9.600000
Episode
Episode
         540 Reward 8.000000 Average Reward 9.100000
Episode
         550 Reward 9.000000 Average Reward 9.400000
         560 Reward 10.000000 Average Reward 9.100000
Episode
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
         640 Reward 10.000000 Average Reward 9.500000
Episode
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
         680 Reward 10.000000 Average Reward 9.300000
Episode
         690 Reward 10.000000 Average Reward 9.400000
Episode
Episode
         700 Reward 8.000000 Average Reward 9.100000
         710 Reward 9.000000 Average Reward 9.700000
Episode
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
         770 Reward 9.000000 Average Reward 9.400000
Episode
Episode
         780 Reward 9.000000 Average Reward 9.400000
         790 Reward 10.000000 Average Reward 10.000000
Episode
Episode
         800 Reward 10.000000 Average Reward 9.200000
         810 Reward 10.000000 Average Reward 9.300000
Episode
         820 Reward 9.000000 Average Reward 9.500000
Episode
Episode
         830 Reward 9.000000 Average Reward 9.400000
         840 Reward 9.000000 Average Reward 9.400000
Episode
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
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910 Reward 9.000000 Average Reward 9.200000
Episode
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
         950 Reward 10.000000 Average Reward 9.300000
Episode
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
         1010 Reward 10.000000 Average Reward 9.100000
Episode
Episode
         1020 Reward 8.000000 Average Reward 9.500000
Episode
         1030 Reward 9.000000 Average Reward 10.000000
         1040 Reward 9.000000 Average Reward 9.400000
Episode
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
         1080 Reward 8.000000 Average Reward 107.600000
Episode
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
         1120 Reward 9.000000 Average Reward 9.500000
Episode
Episode
         1130 Reward 10.000000 Average Reward 9.600000
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         1140 Reward 8.000000 Average Reward 9.300000
Episode
         1150 Reward 8.000000 Average Reward 9.500000
         1160 Reward 8.000000 Average Reward 8.900000
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         1170 Reward 9.000000 Average Reward 9.400000
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Episode
         1180 Reward 9.000000 Average Reward 9.300000
         1190 Reward 10.000000 Average Reward 9.300000
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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
         1250 Reward 10.000000 Average Reward 9.300000
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Episode
         1260 Reward 10.000000 Average Reward 9.300000
         1270 Reward 10.000000 Average Reward 9.800000
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Episode
         1280 Reward 10.000000 Average Reward 9.000000
         1290 Reward 9.000000 Average Reward 9.100000
Episode
         1300 Reward 11.000000 Average Reward 9.600000
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Episode
         1310 Reward 10.000000 Average Reward 9.700000
         1320 Reward 9.000000 Average Reward 9.000000
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         1330 Reward 10.000000 Average Reward 9.300000
         1340 Reward 9.000000 Average Reward 9.300000
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Episode
         1350 Reward 9.000000 Average Reward 9.400000
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         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
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1390 Reward 9.000000 Average Reward 9.100000
Episode
         1400 Reward 9.000000 Average Reward 9.400000
Episode
Episode
        1410 Reward 10.000000 Average Reward 9.700000
Episode
         1420 Reward 9.000000 Average Reward 9.000000
         1430 Reward 9.000000 Average Reward 9.300000
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Episode
         1440 Reward 9.000000 Average Reward 9.400000
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         1450 Reward 9.000000 Average Reward 9.400000
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         1460 Reward 9.000000 Average Reward 9.500000
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         1470 Reward 9.000000 Average Reward 9.400000
         1480 Reward 10.000000 Average Reward 9.500000
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         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
Episode
        1530 Reward 8.000000 Average Reward 9.300000
        1540 Reward 10.000000 Average Reward 9.500000
Episode
Episode
         1550 Reward 9.000000 Average Reward 9.100000
         1560 Reward 10.000000 Average Reward 9.000000
Episode
Episode
         1570 Reward 10.000000 Average Reward 9.100000
Episode
         1580 Reward 10.000000 Average Reward 9.400000
         1590 Reward 9.000000 Average Reward 9.300000
Episode
         1600 Reward 8.000000 Average Reward 9.300000
Episode
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
        1640 Reward 9.000000 Average Reward 9.500000
Episode
        1650 Reward 10.000000 Average Reward 9.400000
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Episode
         1660 Reward 9.000000 Average Reward 9.200000
         1670 Reward 8.000000 Average Reward 9.400000
Episode
Episode
         1680 Reward 9.000000 Average Reward 9.400000
        1690 Reward 10.000000 Average Reward 9.700000
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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
         1730 Reward 8.000000 Average Reward 9.200000
Episode
Episode
         1740 Reward 9.000000 Average Reward 9.300000
         1750 Reward 8.000000 Average Reward 8.700000
Episode
Episode
        1760 Reward 10.000000 Average Reward 9.000000
         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
Episode
0:08:47.788322
0:08:47.857337
Run:
Episode
        10 Reward 12.000000 Average Reward 15.300000
Episode
        20 Reward 44.000000 Average Reward 23.200000
        30 Reward 12.000000 Average Reward 22.500000
Episode
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40 Reward 53.000000 Average Reward 52.700000
Episode
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
         130 Reward 30.000000 Average Reward 19.800000
Episode
         140 Reward 55.000000 Average Reward 33.800000
Episode
Episode
         150 Reward 27.000000 Average Reward 26.600000
Episode
         160 Reward 36.000000 Average Reward 19.600000
         170 Reward 23.000000 Average Reward 20.300000
Episode
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
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         230 Reward 9.000000 Average Reward 9.400000
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         240 Reward 10.000000 Average Reward 9.600000
         250 Reward 9.000000 Average Reward 9.300000
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         260 Reward 10.000000 Average Reward 9.700000
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         270 Reward 9.000000 Average Reward 9.500000
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         280 Reward 10.000000 Average Reward 9.200000
         290 Reward 9.000000 Average Reward 9.500000
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         300 Reward 10.000000 Average Reward 9.200000
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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
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         340 Reward 8.000000 Average Reward 9.400000
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         350 Reward 8.000000 Average Reward 9.300000
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         360 Reward 8.000000 Average Reward 9.200000
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         370 Reward 9.000000 Average Reward 9.300000
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         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
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         410 Reward 10.000000 Average Reward 9.300000
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         420 Reward 10.000000 Average Reward 9.900000
         430 Reward 10.000000 Average Reward 9.600000
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         440 Reward 9.000000 Average Reward 9.400000
         450 Reward 9.000000 Average Reward 8.900000
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         460 Reward 9.000000 Average Reward 9.300000
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         470 Reward 10.000000 Average Reward 9.700000
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         480 Reward 10.000000 Average Reward 9.200000
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         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
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520 Reward 10.000000 Average Reward 9.200000
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Episode
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         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
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Episode
         620 Reward 8.000000 Average Reward 9.400000
Episode
         630 Reward 9.000000 Average Reward 9.100000
Episode
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         650 Reward 11.000000 Average Reward 9.200000
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Episode
         660 Reward 9.000000 Average Reward 8.900000
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         670 Reward 10.000000 Average Reward 9.600000
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         680 Reward 9.000000 Average Reward 9.000000
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         690 Reward 10.000000 Average Reward 9.700000
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         710 Reward 9.000000 Average Reward 9.100000
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         730 Reward 9.000000 Average Reward 9.100000
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Episode
         740 Reward 9.000000 Average Reward 9.200000
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         750 Reward 8.000000 Average Reward 9.800000
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         760 Reward 10.000000 Average Reward 9.600000
         770 Reward 8.000000 Average Reward 9.200000
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         780 Reward 9.000000 Average Reward 9.200000
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         790 Reward 8.000000 Average Reward 9.000000
         800 Reward 9.000000 Average Reward 9.400000
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Episode
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         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
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         850 Reward 10.000000 Average Reward 9.400000
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         860 Reward 10.000000 Average Reward 9.200000
Episode
         870 Reward 11.000000 Average Reward 9.700000
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         880 Reward 10.000000 Average Reward 9.400000
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         890 Reward 10.000000 Average Reward 9.200000
         900 Reward 9.000000 Average Reward 8.800000
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         910 Reward 9.000000 Average Reward 9.400000
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Episode
         920 Reward 10.000000 Average Reward 8.900000
         930 Reward 8.000000 Average Reward 9.100000
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Episode
         940 Reward 9.000000 Average Reward 9.600000
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         950 Reward 10.000000 Average Reward 9.500000
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         960 Reward 10.000000 Average Reward 9.600000
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         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
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Episode
         1000 Reward 9.000000 Average Reward 9.400000
Episode
         1010 Reward 8.000000 Average Reward 9.500000
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         1020 Reward 10.000000 Average Reward 9.300000
Episode
         1030 Reward 10.000000 Average Reward 9.200000
         1040 Reward 8.000000 Average Reward 9.300000
Episode
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
         1090 Reward 8.000000 Average Reward 9.100000
Episode
         1100 Reward 9.000000 Average Reward 9.900000
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Episode
         1110 Reward 10.000000 Average Reward 9.600000
Episode
         1120 Reward 8.000000 Average Reward 9.000000
         1130 Reward 9.000000 Average Reward 9.200000
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Episode
         1140 Reward 9.000000 Average Reward 9.400000
         1150 Reward 9.000000 Average Reward 9.200000
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         1160 Reward 10.000000 Average Reward 9.700000
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         1170 Reward 9.000000 Average Reward 9.100000
Episode
         1180 Reward 9.000000 Average Reward 9.500000
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         1260 Reward 9.000000 Average Reward 8.900000
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         1280 Reward 10.000000 Average Reward 9.300000
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Episode
         1290 Reward 9.000000 Average Reward 9.200000
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         1300 Reward 10.000000 Average Reward 9.300000
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         1310 Reward 9.000000 Average Reward 8.900000
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         1320 Reward 9.000000 Average Reward 9.700000
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         1330 Reward 9.000000 Average Reward 9.800000
         1340 Reward 9.000000 Average Reward 9.200000
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         1350 Reward 9.000000 Average Reward 9.400000
         1360 Reward 8.000000 Average Reward 9.300000
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Episode
         1370 Reward 10.000000 Average Reward 9.400000
         1380 Reward 10.000000 Average Reward 9.200000
Episode
         1390 Reward 10.000000 Average Reward 9.500000
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Episode
         1400 Reward 9.000000 Average Reward 9.100000
         1410 Reward 9.000000 Average Reward 9.000000
Episode
Episode
         1420 Reward 9.000000 Average Reward 9.500000
         1430 Reward 10.000000 Average Reward 9.300000
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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
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1480 Reward 9.000000 Average Reward 9.500000
Episode
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
         1520 Reward 8.000000 Average Reward 9.400000
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Episode
         1530 Reward 9.000000 Average Reward 9.600000
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         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
         1570 Reward 9.000000 Average Reward 9.600000
Episode
         1580 Reward 9.000000 Average Reward 9.400000
Episode
Episode
         1590 Reward 8.000000 Average Reward 9.100000
Episode
        1600 Reward 10.000000 Average Reward 9.800000
         1610 Reward 8.000000 Average Reward 9.400000
Episode
Episode
         1620 Reward 9.000000 Average Reward 9.300000
        1630 Reward 8.000000 Average Reward 9.200000
Episode
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
         1690 Reward 10.000000 Average Reward 9.700000
Episode
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
        1730 Reward 10.000000 Average Reward 9.500000
Episode
        1740 Reward 8.000000 Average Reward 9.100000
Episode
Episode
         1750 Reward 9.000000 Average Reward 9.700000
         1760 Reward 9.000000 Average Reward 9.200000
Episode
Episode
         1770 Reward 11.000000 Average Reward 9.300000
         1780 Reward 9.000000 Average Reward 9.100000
Episode
         1790 Reward 9.000000 Average Reward 9.200000
Episode
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Run: 5
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Episode
        30 Reward 9.000000 Average Reward 17.100000
        40 Reward 23.000000 Average Reward 16.100000
Episode
Episode
        50 Reward 22.000000 Average Reward 25.200000
        60 Reward 13.000000 Average Reward 17.700000
Episode
Episode
        70 Reward 48.000000 Average Reward 28.200000
         80 Reward 48.000000 Average Reward 29.100000
Episode
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
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130 Reward 19.000000 Average Reward 30.000000
Episode
Episode
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Episode
         150 Reward 17.000000 Average Reward 27.700000
         160 Reward 10.000000 Average Reward 21.100000
Episode
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
         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
Episode
         270 Reward 15.000000 Average Reward 18.900000
         280 Reward 14.000000 Average Reward 35.000000
Episode
Episode
         290 Reward 11.000000 Average Reward 10.400000
         300 Reward 30.000000 Average Reward 14.900000
Episode
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
         390 Reward 25.000000 Average Reward 24.800000
Episode
Episode
         400 Reward 29.000000 Average Reward 26.000000
         410 Reward 10.000000 Average Reward 23.100000
Episode
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
         470 Reward 88.000000 Average Reward 29.500000
Episode
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
         510 Reward 12.000000 Average Reward 83.500000
Episode
Episode
         520 Reward 9.000000 Average Reward 19.300000
         530 Reward 40.000000 Average Reward 19.500000
Episode
         540 Reward 47.000000 Average Reward 92.100000
Episode
Episode
         550 Reward 10.000000 Average Reward 9.800000
         560 Reward 10.000000 Average Reward 9.800000
Episode
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
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610 Reward 9.000000 Average Reward 12.300000
Episode
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
         690 Reward 10.000000 Average Reward 9.300000
Episode
Episode
         700 Reward 10.000000 Average Reward 9.600000
         710 Reward 10.000000 Average Reward 9.200000
Episode
Episode
         720 Reward 10.000000 Average Reward 9.700000
Episode
         730 Reward 10.000000 Average Reward 9.200000
         740 Reward 10.000000 Average Reward 9.400000
Episode
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
         820 Reward 10.000000 Average Reward 9.400000
Episode
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
         860 Reward 8.000000 Average Reward 8.900000
Episode
         870 Reward 9.000000 Average Reward 9.200000
Episode
Episode
         880 Reward 9.000000 Average Reward 9.500000
         890 Reward 9.000000 Average Reward 9.600000
Episode
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
         950 Reward 9.000000 Average Reward 9.200000
Episode
Episode
         960 Reward 10.000000 Average Reward 9.500000
         970 Reward 10.000000 Average Reward 9.500000
Episode
Episode
         980 Reward 8.000000 Average Reward 9.500000
         990 Reward 9.000000 Average Reward 9.500000
Episode
         1000 Reward 9.000000 Average Reward 9.300000
Episode
Episode
         1010 Reward 10.000000 Average Reward 9.400000
         1020 Reward 10.000000 Average Reward 9.400000
Episode
Episode
         1030 Reward 10.000000 Average Reward 9.700000
         1040 Reward 8.000000 Average Reward 9.300000
Episode
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
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Episode
         1090 Reward 10.000000 Average Reward 9.100000
         1100 Reward 8.000000 Average Reward 9.200000
Episode
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
         1180 Reward 9.000000 Average Reward 9.100000
Episode
         1190 Reward 9.000000 Average Reward 9.500000
Episode
Episode
         1200 Reward 9.000000 Average Reward 9.200000
Episode
         1210 Reward 9.000000 Average Reward 9.200000
         1220 Reward 10.000000 Average Reward 9.300000
Episode
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
         1340 Reward 9.000000 Average Reward 9.300000
Episode
         1350 Reward 9.000000 Average Reward 9.400000
Episode
Episode
         1360 Reward 9.000000 Average Reward 9.200000
         1370 Reward 10.000000 Average Reward 9.500000
Episode
Episode
         1380 Reward 9.000000 Average Reward 9.200000
Episode
         1390 Reward 9.000000 Average Reward 9.000000
         1400 Reward 10.000000 Average Reward 9.100000
Episode
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
         1480 Reward 11.000000 Average Reward 107.900000
Episode
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
         1520 Reward 9.000000 Average Reward 9.500000
Episode
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
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1570 Reward 9.000000 Average Reward 9.500000
Episode
Episode
         1580 Reward 10.000000 Average Reward 9.700000
Episode
         1590 Reward 10.000000 Average Reward 9.600000
         1600 Reward 10.000000 Average Reward 9.500000
Episode
         1610 Reward 9.000000 Average Reward 9.400000
Episode
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
         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
Episode
        1710 Reward 9.000000 Average Reward 9.500000
        1720 Reward 10.000000 Average Reward 9.400000
Episode
Episode
        1730 Reward 10.000000 Average Reward 9.600000
         1740 Reward 9.000000 Average Reward 9.200000
Episode
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
         1780 Reward 8.000000 Average Reward 8.800000
Episode
Episode
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Run: 6
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Episode
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        40 Reward 9.000000 Average Reward 55.500000
Episode
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
        80 Reward 14.000000 Average Reward 12.700000
Episode
Episode
        90 Reward 12.000000 Average Reward 15.300000
         100 Reward 11.000000 Average Reward 11.500000
Episode
Episode
        110 Reward 9.000000 Average Reward 14.500000
        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
Episode
         160 Reward 90.000000 Average Reward 59.100000
         170 Reward 16.000000 Average Reward 150.700000
Episode
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
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220 Reward 46.000000 Average Reward 45.000000
Episode
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
         310 Reward 9.000000 Average Reward 9.000000
Episode
         320 Reward 10.000000 Average Reward 9.300000
Episode
Episode
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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
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         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
         430 Reward 9.000000 Average Reward 9.500000
Episode
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
         470 Reward 10.000000 Average Reward 9.300000
Episode
         480 Reward 9.000000 Average Reward 9.100000
Episode
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
         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
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         630 Reward 9.000000 Average Reward 9.300000
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         640 Reward 9.000000 Average Reward 9.600000
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         650 Reward 10.000000 Average Reward 9.600000
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         660 Reward 10.000000 Average Reward 9.800000
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         670 Reward 10.000000 Average Reward 9.300000
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         680 Reward 9.000000 Average Reward 9.300000
Episode
         690 Reward 9.000000 Average Reward 9.300000
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700 Reward 9.000000 Average Reward 9.300000
Episode
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
         740 Reward 10.000000 Average Reward 9.300000
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Episode
         750 Reward 10.000000 Average Reward 9.400000
Episode
         760 Reward 10.000000 Average Reward 9.700000
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        770 Reward 9.000000 Average Reward 9.000000
Episode
         780 Reward 9.000000 Average Reward 9.600000
         790 Reward 10.000000 Average Reward 9.200000
Episode
         800 Reward 10.000000 Average Reward 9.400000
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Episode
         810 Reward 10.000000 Average Reward 9.600000
Episode
        820 Reward 9.000000 Average Reward 9.600000
         830 Reward 9.000000 Average Reward 9.300000
Episode
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
         870 Reward 9.000000 Average Reward 9.200000
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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
         910 Reward 10.000000 Average Reward 9.400000
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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
         950 Reward 10.000000 Average Reward 9.500000
Episode
         960 Reward 10.000000 Average Reward 9.300000
Episode
Episode
         970 Reward 9.000000 Average Reward 9.000000
         980 Reward 9.000000 Average Reward 8.900000
Episode
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
         1040 Reward 8.000000 Average Reward 9.200000
Episode
Episode
         1050 Reward 9.000000 Average Reward 9.200000
         1060 Reward 8.000000 Average Reward 9.700000
Episode
Episode
         1070 Reward 10.000000 Average Reward 8.900000
         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
Episode
         1120 Reward 11.000000 Average Reward 10.400000
         1130 Reward 30.000000 Average Reward 25.800000
Episode
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
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1180 Reward 98.000000 Average Reward 155.700000
Episode
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
         1280 Reward 10.000000 Average Reward 9.200000
Episode
Episode
         1290 Reward 11.000000 Average Reward 9.500000
Episode
         1300 Reward 9.000000 Average Reward 9.100000
         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
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Episode
         1340 Reward 9.000000 Average Reward 9.200000
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         1350 Reward 11.000000 Average Reward 9.200000
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         1360 Reward 10.000000 Average Reward 9.300000
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         1370 Reward 10.000000 Average Reward 9.600000
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         1380 Reward 9.000000 Average Reward 9.800000
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         1390 Reward 9.000000 Average Reward 9.500000
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         1400 Reward 9.000000 Average Reward 9.500000
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         1410 Reward 10.000000 Average Reward 9.500000
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         1420 Reward 9.000000 Average Reward 9.200000
         1430 Reward 9.000000 Average Reward 9.700000
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         1440 Reward 10.000000 Average Reward 9.700000
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Episode
         1450 Reward 10.000000 Average Reward 9.800000
         1460 Reward 8.000000 Average Reward 8.700000
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Episode
         1470 Reward 9.000000 Average Reward 14.300000
Episode
         1480 Reward 10.000000 Average Reward 9.700000
         1490 Reward 9.000000 Average Reward 9.800000
Episode
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
         1540 Reward 30.000000 Average Reward 22.100000
Episode
Episode
         1550 Reward 32.000000 Average Reward 21.000000
Episode
         1560 Reward 17.000000 Average Reward 20.100000
         1570 Reward 24.000000 Average Reward 23.400000
Episode
Episode
         1580 Reward 23.000000 Average Reward 23.700000
         1590 Reward 14.000000 Average Reward 20.500000
Episode
Episode
         1600 Reward 16.000000 Average Reward 19.100000
         1610 Reward 21.000000 Average Reward 14.800000
Episode
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
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1660 Reward 21.000000 Average Reward 103.500000
Episode
        1670 Reward 19.000000 Average Reward 23.100000
Episode
Episode
        1680 Reward 24.000000 Average Reward 22.700000
Episode
         1690 Reward 20.000000 Average Reward 20.900000
         1700 Reward 19.000000 Average Reward 21.600000
Episode
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
        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
Episode
        1800 Reward 9.000000 Average Reward 9.400000
0:19:14.142602
0:19:14.209618
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
        40 Reward 63.000000 Average Reward 43.500000
Episode
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
        80 Reward 8.000000 Average Reward 9.600000
Episode
        90 Reward 8.000000 Average Reward 9.900000
Episode
Episode
        100 Reward 10.000000 Average Reward 11.100000
        110 Reward 15.000000 Average Reward 10.300000
Episode
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
        190 Reward 18.000000 Average Reward 20.300000
Episode
Episode
        200 Reward 29.000000 Average Reward 32.400000
Episode
        210 Reward 38.000000 Average Reward 37.100000
        220 Reward 90.000000 Average Reward 40.800000
Episode
Episode
        230 Reward 68.000000 Average Reward 55.400000
        240 Reward 48.000000 Average Reward 31.200000
Episode
Episode
         250 Reward 121.000000 Average Reward 50.200000
         260 Reward 89.000000 Average Reward 39.800000
Episode
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
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310 Reward 10.000000 Average Reward 9.500000
Episode
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
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         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
         440 Reward 9.000000 Average Reward 8.900000
Episode
Episode
         450 Reward 10.000000 Average Reward 9.600000
         460 Reward 10.000000 Average Reward 9.400000
Episode
Episode
         470 Reward 10.000000 Average Reward 9.500000
         480 Reward 10.000000 Average Reward 9.400000
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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
         520 Reward 10.000000 Average Reward 9.700000
Episode
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
         560 Reward 8.000000 Average Reward 9.300000
Episode
         570 Reward 10.000000 Average Reward 9.300000
Episode
Episode
         580 Reward 41.000000 Average Reward 22.600000
         590 Reward 42.000000 Average Reward 42.400000
Episode
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
         640 Reward 17.000000 Average Reward 20.600000
Episode
         650 Reward 18.000000 Average Reward 16.900000
Episode
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
         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
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
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790 Reward 10.000000 Average Reward 9.600000
Episode
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
         920 Reward 9.000000 Average Reward 9.300000
Episode
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
         1000 Reward 9.000000 Average Reward 9.500000
Episode
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
         1040 Reward 9.000000 Average Reward 9.400000
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         1050 Reward 10.000000 Average Reward 9.500000
Episode
Episode
         1060 Reward 8.000000 Average Reward 9.400000
         1070 Reward 10.000000 Average Reward 9.700000
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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
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         1110 Reward 10.000000 Average Reward 9.600000
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         1120 Reward 9.000000 Average Reward 9.000000
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         1130 Reward 9.000000 Average Reward 9.000000
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         1140 Reward 10.000000 Average Reward 9.500000
         1150 Reward 10.000000 Average Reward 9.000000
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Episode
         1160 Reward 10.000000 Average Reward 9.400000
Episode
         1170 Reward 9.000000 Average Reward 9.000000
         1180 Reward 10.000000 Average Reward 9.500000
Episode
Episode
         1190 Reward 10.000000 Average Reward 8.700000
         1200 Reward 9.000000 Average Reward 9.500000
Episode
Episode
         1210 Reward 10.000000 Average Reward 9.200000
         1220 Reward 9.000000 Average Reward 9.800000
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Episode
         1230 Reward 10.000000 Average Reward 9.900000
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         1240 Reward 8.000000 Average Reward 9.000000
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         1250 Reward 8.000000 Average Reward 9.100000
Episode
         1260 Reward 10.000000 Average Reward 9.100000
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1270 Reward 9.000000 Average Reward 9.500000
Episode
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
         1310 Reward 9.000000 Average Reward 9.500000
Episode
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
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         1360 Reward 10.000000 Average Reward 9.700000
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         1370 Reward 10.000000 Average Reward 9.300000
         1380 Reward 8.000000 Average Reward 9.500000
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         1390 Reward 9.000000 Average Reward 9.300000
Episode
         1400 Reward 9.000000 Average Reward 9.400000
Episode
Episode
         1410 Reward 8.000000 Average Reward 9.300000
         1420 Reward 10.000000 Average Reward 9.300000
Episode
Episode
         1430 Reward 11.000000 Average Reward 9.500000
         1440 Reward 9.000000 Average Reward 9.200000
Episode
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
         1520 Reward 10.000000 Average Reward 9.400000
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         1530 Reward 8.000000 Average Reward 9.000000
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Episode
         1540 Reward 8.000000 Average Reward 9.200000
         1550 Reward 10.000000 Average Reward 9.800000
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Episode
         1560 Reward 11.000000 Average Reward 9.600000
         1570 Reward 9.000000 Average Reward 9.400000
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Episode
         1580 Reward 10.000000 Average Reward 9.500000
Episode
         1590 Reward 10.000000 Average Reward 9.200000
         1600 Reward 9.000000 Average Reward 9.200000
Episode
         1610 Reward 10.000000 Average Reward 9.400000
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Episode
         1620 Reward 10.000000 Average Reward 9.800000
         1630 Reward 10.000000 Average Reward 9.400000
Episode
Episode
         1640 Reward 10.000000 Average Reward 9.300000
         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
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         1680 Reward 10.000000 Average Reward 9.500000
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Episode
         1690 Reward 10.000000 Average Reward 9.200000
         1700 Reward 11.000000 Average Reward 9.300000
Episode
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
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1750 Reward 10.000000 Average Reward 9.400000
Episode
        1760 Reward 8.000000 Average Reward 9.300000
Episode
Episode
         1770 Reward 11.000000 Average Reward 9.300000
         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
Episode
0:11:24.981907
0:11:25.049922
Run: 8
Episode
         10 Reward 12.000000 Average Reward 17.700000
         20 Reward 9.000000 Average Reward 26.700000
Episode
         30 Reward 13.000000 Average Reward 10.900000
Episode
Episode
        40 Reward 16.000000 Average Reward 19.400000
         50 Reward 101.000000 Average Reward 69.500000
Episode
Episode
         60 Reward 52.000000 Average Reward 83.700000
         70 Reward 9.000000 Average Reward 20.700000
Episode
Episode
         80 Reward 9.000000 Average Reward 9.600000
         90 Reward 9.000000 Average Reward 9.400000
Episode
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
         130 Reward 10.000000 Average Reward 9.600000
Episode
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
        170 Reward 10.000000 Average Reward 9.600000
Episode
         180 Reward 9.000000 Average Reward 9.300000
Episode
Episode
         190 Reward 9.000000 Average Reward 9.100000
         200 Reward 10.000000 Average Reward 9.700000
Episode
Episode
         210 Reward 9.000000 Average Reward 9.000000
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         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
         260 Reward 9.000000 Average Reward 9.600000
Episode
Episode
         270 Reward 8.000000 Average Reward 9.100000
         280 Reward 10.000000 Average Reward 9.300000
Episode
Episode
         290 Reward 10.000000 Average Reward 9.600000
         300 Reward 9.000000 Average Reward 9.400000
Episode
         310 Reward 10.000000 Average Reward 9.400000
Episode
Episode
        320 Reward 13.000000 Average Reward 10.200000
         330 Reward 9.000000 Average Reward 10.100000
Episode
Episode
         340 Reward 33.000000 Average Reward 13.200000
         350 Reward 9.000000 Average Reward 21.000000
Episode
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
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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
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         450 Reward 10.000000 Average Reward 9.500000
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         460 Reward 10.000000 Average Reward 9.000000
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         470 Reward 9.000000 Average Reward 9.300000
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         480 Reward 10.000000 Average Reward 9.300000
         490 Reward 10.000000 Average Reward 9.400000
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         500 Reward 10.000000 Average Reward 9.500000
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         510 Reward 10.000000 Average Reward 9.400000
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         520 Reward 10.000000 Average Reward 9.500000
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         530 Reward 10.000000 Average Reward 9.500000
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         540 Reward 9.000000 Average Reward 9.400000
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         550 Reward 9.000000 Average Reward 9.300000
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         560 Reward 10.000000 Average Reward 9.200000
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         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
         600 Reward 11.000000 Average Reward 9.900000
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         610 Reward 9.000000 Average Reward 9.200000
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         620 Reward 9.000000 Average Reward 9.400000
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         630 Reward 9.000000 Average Reward 9.200000
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         640 Reward 9.000000 Average Reward 9.400000
         650 Reward 9.000000 Average Reward 9.300000
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         660 Reward 8.000000 Average Reward 9.100000
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         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
         740 Reward 11.000000 Average Reward 9.700000
Episode
Episode
         750 Reward 9.000000 Average Reward 9.400000
         760 Reward 10.000000 Average Reward 8.800000
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Episode
         770 Reward 9.000000 Average Reward 9.600000
         780 Reward 10.000000 Average Reward 9.200000
Episode
         790 Reward 9.000000 Average Reward 9.600000
Episode
Episode
         800 Reward 8.000000 Average Reward 9.300000
         810 Reward 10.000000 Average Reward 9.500000
Episode
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
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880 Reward 8.000000 Average Reward 8.900000
Episode
Episode
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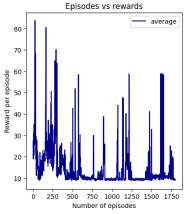
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Episode
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Episode
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         200 Reward 92.000000 Average Reward 43.000000
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Episode
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Episode
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Episode
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         410 Reward 9.000000 Average Reward 9.400000
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         430 Reward 9.000000 Average Reward 9.500000
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         440 Reward 11.000000 Average Reward 9.500000
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         470 Reward 10.000000 Average Reward 9.200000
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         510 Reward 8.000000 Average Reward 8.900000
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         520 Reward 10.000000 Average Reward 9.500000
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         540 Reward 10.000000 Average Reward 9.300000
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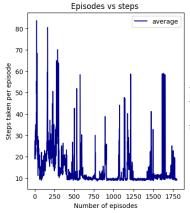
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         610 Reward 9.000000 Average Reward 9.300000
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         620 Reward 10.000000 Average Reward 9.400000
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         630 Reward 9.000000 Average Reward 9.600000
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         640 Reward 10.000000 Average Reward 9.700000
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         650 Reward 10.000000 Average Reward 9.400000
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         660 Reward 8.000000 Average Reward 9.300000
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         680 Reward 11.000000 Average Reward 9.500000
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         690 Reward 10.000000 Average Reward 9.300000
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         700 Reward 10.000000 Average Reward 9.700000
         710 Reward 10.000000 Average Reward 9.300000
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         720 Reward 8.000000 Average Reward 9.100000
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         730 Reward 9.000000 Average Reward 9.300000
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         740 Reward 10.000000 Average Reward 9.400000
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         750 Reward 8.000000 Average Reward 9.300000
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         760 Reward 9.000000 Average Reward 9.200000
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         770 Reward 9.000000 Average Reward 9.200000
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         780 Reward 9.000000 Average Reward 9.200000
         790 Reward 8.000000 Average Reward 9.300000
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         800 Reward 10.000000 Average Reward 9.000000
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         810 Reward 8.000000 Average Reward 9.100000
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         820 Reward 9.000000 Average Reward 9.500000
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         850 Reward 9.000000 Average Reward 9.300000
         860 Reward 9.000000 Average Reward 9.600000
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         870 Reward 10.000000 Average Reward 9.200000
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         890 Reward 8.000000 Average Reward 9.100000
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         900 Reward 10.000000 Average Reward 9.500000
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         910 Reward 9.000000 Average Reward 9.600000
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         920 Reward 8.000000 Average Reward 9.100000
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         930 Reward 9.000000 Average Reward 9.500000
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         940 Reward 10.000000 Average Reward 9.700000
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         960 Reward 11.000000 Average Reward 9.900000
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         980 Reward 10.000000 Average Reward 9.500000
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         1010 Reward 9.000000 Average Reward 8.700000
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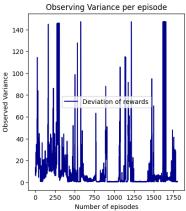
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         1120 Reward 8.000000 Average Reward 9.400000
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         1130 Reward 9.000000 Average Reward 9.500000
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         1140 Reward 10.000000 Average Reward 9.100000
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         1150 Reward 8.000000 Average Reward 9.300000
         1160 Reward 10.000000 Average Reward 9.400000
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                                   11
Episode:
          1727 Number of steps:
                                   12
          1728 Number of steps:
                                   12
Episode:
Episode:
          1729 Number of steps:
                                   10
Episode:
          1730 Number of steps:
                                   11
          1731 Number of steps:
Episode:
                                   11
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Episode:
          1732 Number of steps:
                                   12
Episode:
          1733 Number of steps:
                                   11
          1734 Number of steps:
Episode:
                                   11
Episode:
          1735 Number of steps:
                                   11
Episode:
          1736 Number of steps:
                                   11
          1737 Number of steps:
Episode:
                                   25
Episode:
          1738 Number of steps:
                                   11
Episode:
          1739 Number of steps:
                                   10
Episode:
          1740 Number of steps:
                                   10
Episode:
          1741 Number of steps:
                                   10
          1742 Number of steps:
Episode:
                                   10
Episode:
          1743 Number of steps:
                                   9
          1744 Number of steps:
Episode:
                                   10
Episode:
          1745 Number of steps:
Episode:
          1746 Number of steps:
                                   14
Episode:
          1747 Number of steps:
                                   16
Episode:
          1748 Number of steps:
                                   11
          1749 Number of steps:
Episode:
                                   14
          1750 Number of steps:
Episode:
                                   17
Episode:
          1751 Number of steps:
                                   20
          1752 Number of steps:
Episode:
                                   10
Episode:
          1753 Number of steps:
                                   23
Episode:
          1754 Number of steps:
                                   10
          1755 Number of steps:
Episode:
                                   9
          1756 Number of steps:
                                   9
Episode:
Episode:
          1757 Number of steps:
                                   10
                                   9
Episode:
          1758 Number of steps:
Episode:
          1759 Number of steps:
                                   19
Episode:
          1760 Number of steps:
                                   16
Episode:
          1761 Number of steps:
                                   15
          1762 Number of steps:
Episode:
                                   17
          1763 Number of steps:
                                   10
Episode:
Episode:
          1764 Number of steps:
                                   18
          1765 Number of steps:
                                   20
Episode:
Episode:
          1766 Number of steps:
                                   17
Episode:
          1767 Number of steps:
                                   11
Episode:
          1768 Number of steps:
Episode:
          1769 Number of steps:
                                   11
          1770 Number of steps:
Episode:
                                   11
Episode:
          1771 Number of steps:
                                   20
Episode:
          1772 Number of steps:
                                   19
          1773 Number of steps:
Episode:
                                   10
          1774 Number of steps:
Episode:
                                   19
Episode:
          1775 Number of steps:
          1776 Number of steps:
                                   9
Episode:
Episode:
          1777 Number of steps:
                                   9
Episode:
          1778 Number of steps:
                                   9
          1779 Number of steps:
Episode:
```

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1780 Number of steps:
Episode:
Episode: 1781 Number of steps:
                                 10
                                 10
Episode:
         1782 Number of steps:
Episode:
         1783 Number of steps:
                                 9
Episode: 1784 Number of steps:
Episode:
         1785 Number of steps:
Episode: 1786 Number of steps:
Episode: 1787 Number of steps:
Episode: 1788 Number of steps:
Episode:
         1789 Number of steps:
                                 10
Episode:
         1790 Number of steps:
                                 9
Episode: 1791 Number of steps:
                                 10
Episode:
         1792 Number of steps:
                                 10
Episode: 1793 Number of steps:
Episode: 1794 Number of steps:
                                 9
Episode: 1795 Number of steps:
Episode: 1796 Number of steps:
                                 9
Episode: 1797 Number of steps:
                                 9
Episode: 1798 Number of steps:
Episode:
         1799 Number of steps:
Episode:
         1800 Number of steps:
                                9
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>
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
        130 Reward 57.000000 Average Reward 112.200000
Episode
```

```
140 Reward 73.000000 Average Reward 86.600000
Episode
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
        180 Reward 272.000000 Average Reward 159.700000
Episode
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
        230 Reward 76.000000 Average Reward 92.600000
Episode
        240 Reward 189.000000 Average Reward 97.000000
Episode
Episode
        250 Reward 47.000000 Average Reward 73.200000
        260 Reward 54.000000 Average Reward 70.800000
Episode
        270 Reward 86.000000 Average Reward 64.900000
Episode
Episode
        280 Reward 51.000000 Average Reward 77.000000
        290 Reward 74.000000 Average Reward 76.200000
Episode
Episode
        300 Reward 304.000000 Average Reward 180.300000
        310 Reward 434.000000 Average Reward 255.000000
Episode
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
        20 Reward 69.000000 Average Reward 44.800000
Episode
Episode
        30 Reward 114.000000 Average Reward 66.300000
        40 Reward 79.000000 Average Reward 69.500000
Episode
Episode
        50 Reward 63.000000 Average Reward 78.700000
        60 Reward 41.000000 Average Reward 72.000000
Episode
        70 Reward 138.000000 Average Reward 89.400000
Episode
Episode
        80 Reward 332.000000 Average Reward 135.000000
Episode
        90 Reward 41.000000 Average Reward 82.700000
        100 Reward 63.000000 Average Reward 75.300000
Episode
Episode
        110 Reward 115.000000 Average Reward 77.600000
        120 Reward 138.000000 Average Reward 158.300000
Episode
Episode
        130 Reward 273.000000 Average Reward 196.600000
Episode
        140 Reward 125.000000 Average Reward 138.900000
        150 Reward 115.000000 Average Reward 157.100000
Episode
Episode
        160 Reward 500.000000 Average Reward 191.000000
        170 Reward 138.000000 Average Reward 149.000000
Episode
Episode
        180 Reward 107.000000 Average Reward 173.000000
        190 Reward 156.000000 Average Reward 201.600000
Episode
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
```

```
240 Reward 50.000000 Average Reward 59.100000
Episode
Episode
        250 Reward 49.000000 Average Reward 75.900000
Episode
        260 Reward 67.000000 Average Reward 82.700000
        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
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
        30 Reward 75.000000 Average Reward 60.300000
Episode
Episode
        40 Reward 121.000000 Average Reward 74.400000
        50 Reward 95.000000 Average Reward 90.800000
Episode
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
        90 Reward 82.000000 Average Reward 78.500000
Episode
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
        130 Reward 65.000000 Average Reward 63.200000
Episode
        140 Reward 52.000000 Average Reward 60.500000
Episode
Episode
        150 Reward 99.000000 Average Reward 69.500000
        160 Reward 67.000000 Average Reward 166.100000
Episode
Episode
        170 Reward 95.000000 Average Reward 81.300000
        180 Reward 56.000000 Average Reward 97.800000
Episode
        190 Reward 182.000000 Average Reward 128.500000
Episode
Episode
        200 Reward 207.000000 Average Reward 217.400000
Episode
        210 Reward 116.000000 Average Reward 197.200000
        220 Reward 313.000000 Average Reward 190.700000
Episode
Episode
        230 Reward 97.000000 Average Reward 123.000000
        240 Reward 60.000000 Average Reward 107.200000
Episode
Episode
        250 Reward 138.000000 Average Reward 131.800000
        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
Episode
        300 Reward 135.000000 Average Reward 130.400000
        310 Reward 99.000000 Average Reward 203.900000
Episode
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
```

```
0:06:19.764452
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
        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
Episode
        120 Reward 190.000000 Average Reward 125.200000
        130 Reward 85.000000 Average Reward 150.000000
Episode
Episode
        140 Reward 93.000000 Average Reward 126.100000
        150 Reward 146.000000 Average Reward 112.800000
Episode
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
        190 Reward 87.000000 Average Reward 65.700000
Episode
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
        230 Reward 131.000000 Average Reward 136.800000
Episode
        240 Reward 161.000000 Average Reward 164.600000
Episode
Episode
        250 Reward 111.000000 Average Reward 133.600000
        260 Reward 207.000000 Average Reward 147.400000
Episode
Episode
        270 Reward 111.000000 Average Reward 133.000000
        280 Reward 71.000000 Average Reward 174.900000
Episode
        290 Reward 138.000000 Average Reward 91.200000
Episode
Episode
        300 Reward 186.000000 Average Reward 144.700000
        310 Reward 160.000000 Average Reward 160.700000
Episode
        320 Reward 208.000000 Average Reward 277.800000
Episode
Episode 330 Reward 225.000000 Average Reward 261.300000
        340 Reward 164.000000 Average Reward 225.700000
Episode
Episode
        350 Reward 191.000000 Average Reward 295.900000
Stopped at Episode 252
0:06:29.185118
0:06:29.215124
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
```

0:06:19.734445

```
70 Reward 205.000000 Average Reward 106.700000
Episode
Episode
        80 Reward 142.000000 Average Reward 87.400000
Episode
        90 Reward 169.000000 Average Reward 107.100000
        100 Reward 67.000000 Average Reward 92.400000
Episode
        110 Reward 187.000000 Average Reward 123.800000
Episode
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
        170 Reward 72.000000 Average Reward 75.300000
Episode
Episode
         180 Reward 63.000000 Average Reward 82.900000
        190 Reward 52.000000 Average Reward 72.600000
Episode
         200 Reward 44.000000 Average Reward 60.000000
Episode
Episode
        210 Reward 106.000000 Average Reward 67.500000
        220 Reward 127.000000 Average Reward 95.000000
Episode
Episode
         230 Reward 75.000000 Average Reward 114.200000
         240 Reward 188.000000 Average Reward 83.800000
Episode
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
        280 Reward 132.000000 Average Reward 135.000000
Episode
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
        320 Reward 60.000000 Average Reward 106.300000
Episode
        330 Reward 105.000000 Average Reward 113.500000
Episode
Episode
        340 Reward 91.000000 Average Reward 124.000000
        350 Reward 230.000000 Average Reward 169.200000
Episode
Episode
        360 Reward 310.000000 Average Reward 320.600000
        370 Reward 216.000000 Average Reward 274.500000
Episode
         380 Reward 174.000000 Average Reward 176.900000
Episode
Episode
         390 Reward 254.000000 Average Reward 208.900000
Stopped at Episode
0:06:25.490989
0:06:25.517994
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
        50 Reward 164.000000 Average Reward 85.300000
Episode
Episode
        60 Reward 162.000000 Average Reward 97.100000
        70 Reward 110.000000 Average Reward 100.000000
Episode
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
```

```
120 Reward 74.000000 Average Reward 91.000000
Episode
Episode
        130 Reward 129.000000 Average Reward 107.600000
Episode
        140 Reward 61.000000 Average Reward 79.500000
        150 Reward 93.000000 Average Reward 109.300000
Episode
         160 Reward 141.000000 Average Reward 130.000000
Episode
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
        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
Episode
         260 Reward 41.000000 Average Reward 87.300000
        270 Reward 52.000000 Average Reward 49.600000
Episode
Episode
         280 Reward 61.000000 Average Reward 81.800000
         290 Reward 198.000000 Average Reward 126.400000
Episode
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
        330 Reward 78.000000 Average Reward 104.500000
Episode
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
        370 Reward 197.000000 Average Reward 191.000000
Episode
        380 Reward 154.000000 Average Reward 203.500000
Episode
Episode
         390 Reward 221.000000 Average Reward 329.900000
         400 Reward 105.000000 Average Reward 261.900000
Episode
Episode
        410 Reward 299.000000 Average Reward 153.900000
Stopped at Episode
0:06:58.342906
0:06:58.368911
Run: 7
       10 Reward 35.000000 Average Reward 26.300000
Episode
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
        50 Reward 63.000000 Average Reward 69.300000
Episode
        60 Reward 78.000000 Average Reward 78.000000
Episode
Episode
        70 Reward 50.000000 Average Reward 89.200000
        80 Reward 59.000000 Average Reward 73.900000
Episode
Episode
        90 Reward 149.000000 Average Reward 79.500000
        100 Reward 84.000000 Average Reward 93.000000
Episode
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
```

```
150 Reward 131.000000 Average Reward 132.800000
Episode
Episode
        160 Reward 117.000000 Average Reward 146.000000
Episode
        170 Reward 122.000000 Average Reward 146.400000
        180 Reward 85.000000 Average Reward 177.900000
Episode
         190 Reward 123.000000 Average Reward 131.300000
Episode
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
         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
Episode
         290 Reward 244.000000 Average Reward 144.300000
         300 Reward 142.000000 Average Reward 157.500000
Episode
Episode
         310 Reward 84.000000 Average Reward 136.400000
        320 Reward 83.000000 Average Reward 205.500000
Episode
Episode
         330 Reward 142.000000 Average Reward 162.700000
Episode
        340 Reward 242.000000 Average Reward 162.000000
         350 Reward 80.000000 Average Reward 146.100000
Episode
        360 Reward 128.000000 Average Reward 100.600000
Episode
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
        400 Reward 180.000000 Average Reward 173.200000
Episode
Stopped at Episode
                    308
0:06:54.971780
0:06:54.998786
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
        50 Reward 89.000000 Average Reward 124.400000
Episode
Episode
        60 Reward 76.000000 Average Reward 92.100000
        70 Reward 57.000000 Average Reward 99.200000
Episode
Episode
        80 Reward 98.000000 Average Reward 97.700000
         90 Reward 69.000000 Average Reward 59.200000
Episode
        100 Reward 75.000000 Average Reward 71.300000
Episode
Episode
        110 Reward 120.000000 Average Reward 86.700000
        120 Reward 85.000000 Average Reward 166.000000
Episode
Episode
        130 Reward 244.000000 Average Reward 181.500000
        140 Reward 62.000000 Average Reward 106.100000
Episode
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
       50 Reward 46.000000 Average Reward 81.300000
Episode
        60 Reward 79.000000 Average Reward 73.600000
Episode
Episode
        70 Reward 55.000000 Average Reward 71.600000
        80 Reward 79.000000 Average Reward 81.700000
Episode
Episode
        90 Reward 52.000000 Average Reward 102.500000
        100 Reward 76.000000 Average Reward 64.800000
Episode
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
        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
        70 Reward 73.000000 Average Reward 74.500000
Episode
Episode 80 Reward 72.000000 Average Reward 78.500000
Episode 90 Reward 55.000000 Average Reward 58.400000
        100 Reward 64.000000 Average Reward 104.800000
Episode
Episode
        110 Reward 240.000000 Average Reward 89.300000
        120 Reward 82.000000 Average Reward 68.900000
Episode
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 180 Reward 95.000000 Average Reward 134.100000 Episode Episode 190 Reward 69.000000 Average Reward 70.400000 Episode 200 Reward 114.000000 Average Reward 88.000000 210 Reward 55.000000 Average Reward 64.200000 Episode 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 0:05:14.292910 0:05:14.319916

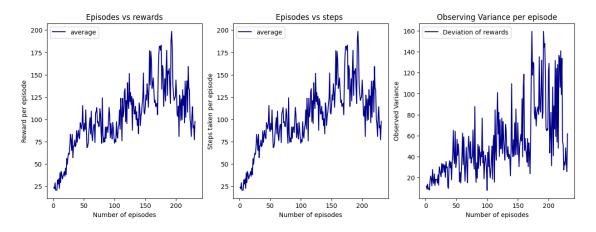
C:\Users\CFI Workstation\AppData\Local\Temp\ipykernel_18816\4175739595.py:89: VisibleDeprecationWarning: Creating an ndarray from ragged nested sequences (which is a list-or-tuple of lists-or-tuples-or ndarrays with different lengths or shapes) is deprecated. If you meant to do this, you must specify

'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

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Episode:
          4 Number of steps:
                                21
Episode:
          5 Number of steps:
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Episode:
          6 Number of steps:
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Episode:
          7 Number of steps:
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Episode:
          8 Number of steps:
                                28
Episode:
          9 Number of steps:
                                33
Episode:
          10 Number of steps:
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          12 Number of steps:
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          13 Number of steps:
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          17 Number of steps:
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          20 Number of steps:
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          26 Number of steps:
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          52 Number of steps:
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          231 Number of steps:
                                98
\verb|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
IPvthon 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>
wandb: Agent Starting Run: m51ms2um with config:
          LR: 4.663016680730309e-05
wandb:
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:
Episode
         10 Reward 40.000000 Average Reward 28.300000
         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
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
         80 Reward 10.000000 Average Reward 9.700000
Episode
Episode
         90 Reward 9.000000 Average Reward 9.300000
         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
Episode
         140 Reward 57.000000 Average Reward 88.800000
         150 Reward 50.000000 Average Reward 70.000000
Episode
Episode
         160 Reward 36.000000 Average Reward 46.700000
         170 Reward 27.000000 Average Reward 38.700000
Episode
Episode
         180 Reward 10.000000 Average Reward 29.700000
Episode
         190 Reward 10.000000 Average Reward 9.800000
         200 Reward 78.000000 Average Reward 27.200000
Episode
Episode
         210 Reward 60.000000 Average Reward 101.800000
Episode
         220 Reward 78.000000 Average Reward 52.500000
         230 Reward 30.000000 Average Reward 29.300000
Episode
Episode
         240 Reward 47.000000 Average Reward 59.200000
         250 Reward 34.000000 Average Reward 70.600000
Episode
         260 Reward 160.000000 Average Reward 45.600000
Episode
Episode
         270 Reward 35.000000 Average Reward 105.100000
         280 Reward 52.000000 Average Reward 127.700000
Episode
Episode
         290 Reward 49.000000 Average Reward 81.000000
         300 Reward 10.000000 Average Reward 21.500000
Episode
Episode
         310 Reward 10.000000 Average Reward 9.600000
Episode
         320 Reward 8.000000 Average Reward 9.300000
         330 Reward 10.000000 Average Reward 9.400000
Episode
         340 Reward 11.000000 Average Reward 10.100000
Episode
Episode
         350 Reward 10.000000 Average Reward 9.900000
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         360 Reward 10.000000 Average Reward 9.500000
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         370 Reward 10.000000 Average Reward 9.500000
         380 Reward 10.000000 Average Reward 9.500000
Episode
         390 Reward 9.000000 Average Reward 9.100000
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         400 Reward 8.000000 Average Reward 9.200000
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         410 Reward 10.000000 Average Reward 9.200000
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         420 Reward 9.000000 Average Reward 9.000000
         430 Reward 9.000000 Average Reward 9.600000
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         440 Reward 10.000000 Average Reward 9.400000
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         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
```

```
480 Reward 10.000000 Average Reward 9.600000
Episode
Episode
         490 Reward 8.000000 Average Reward 9.100000
Episode
         500 Reward 10.000000 Average Reward 9.500000
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         510 Reward 9.000000 Average Reward 8.700000
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         520 Reward 9.000000 Average Reward 9.600000
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         590 Reward 10.000000 Average Reward 10.000000
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         600 Reward 9.000000 Average Reward 8.900000
         610 Reward 10.000000 Average Reward 9.500000
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         620 Reward 8.000000 Average Reward 9.300000
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         630 Reward 10.000000 Average Reward 9.200000
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         640 Reward 9.000000 Average Reward 9.200000
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         650 Reward 9.000000 Average Reward 9.500000
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         660 Reward 10.000000 Average Reward 10.000000
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         680 Reward 9.000000 Average Reward 9.400000
         690 Reward 10.000000 Average Reward 9.500000
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         700 Reward 9.000000 Average Reward 9.100000
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         710 Reward 9.000000 Average Reward 9.300000
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         720 Reward 10.000000 Average Reward 9.400000
         730 Reward 9.000000 Average Reward 9.500000
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         740 Reward 10.000000 Average Reward 9.400000
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Episode
         750 Reward 8.000000 Average Reward 9.300000
         760 Reward 8.000000 Average Reward 9.200000
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         770 Reward 10.000000 Average Reward 9.400000
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         780 Reward 10.000000 Average Reward 9.200000
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         790 Reward 10.000000 Average Reward 9.500000
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         800 Reward 10.000000 Average Reward 9.300000
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         810 Reward 9.000000 Average Reward 9.100000
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         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
         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
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Episode
         900 Reward 9.000000 Average Reward 9.300000
         910 Reward 10.000000 Average Reward 9.500000
Episode
Episode
         920 Reward 9.000000 Average Reward 8.900000
Episode
         930 Reward 10.000000 Average Reward 9.400000
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         940 Reward 10.000000 Average Reward 9.700000
Episode
         950 Reward 10.000000 Average Reward 9.100000
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960 Reward 10.000000 Average Reward 9.200000
Episode
Episode
         970 Reward 10.000000 Average Reward 9.600000
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         980 Reward 9.000000 Average Reward 9.300000
Episode
         990 Reward 9.000000 Average Reward 9.400000
         1000 Reward 8.000000 Average Reward 9.100000
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         1010 Reward 9.000000 Average Reward 9.400000
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         1020 Reward 9.000000 Average Reward 9.100000
Episode
         1030 Reward 9.000000 Average Reward 9.600000
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         1040 Reward 8.000000 Average Reward 9.200000
Episode
         1050 Reward 10.000000 Average Reward 9.000000
         1060 Reward 10.000000 Average Reward 9.400000
Episode
         1070 Reward 8.000000 Average Reward 9.500000
Episode
Episode
         1080 Reward 10.000000 Average Reward 9.200000
         1090 Reward 9.000000 Average Reward 9.000000
Episode
Episode
         1100 Reward 9.000000 Average Reward 9.200000
         1110 Reward 9.000000 Average Reward 9.800000
Episode
Episode
         1120 Reward 10.000000 Average Reward 9.300000
         1130 Reward 10.000000 Average Reward 9.000000
Episode
Episode
         1140 Reward 9.000000 Average Reward 9.100000
Episode
         1150 Reward 8.000000 Average Reward 9.100000
Episode
         1160 Reward 10.000000 Average Reward 9.700000
         1170 Reward 10.000000 Average Reward 9.400000
Episode
Episode
         1180 Reward 9.000000 Average Reward 9.200000
Episode
         1190 Reward 8.000000 Average Reward 9.500000
Episode
         1200 Reward 9.000000 Average Reward 9.400000
         1210 Reward 9.000000 Average Reward 9.400000
Episode
         1220 Reward 11.000000 Average Reward 9.300000
Episode
Episode
         1230 Reward 10.000000 Average Reward 9.500000
         1240 Reward 10.000000 Average Reward 9.600000
Episode
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
         1300 Reward 9.000000 Average Reward 9.400000
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Episode
         1310 Reward 10.000000 Average Reward 9.500000
         1320 Reward 9.000000 Average Reward 9.300000
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Episode
         1330 Reward 10.000000 Average Reward 9.700000
         1340 Reward 9.000000 Average Reward 9.900000
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         1350 Reward 10.000000 Average Reward 9.400000
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         1360 Reward 10.000000 Average Reward 9.500000
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         1370 Reward 11.000000 Average Reward 9.200000
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Episode
         1380 Reward 9.000000 Average Reward 8.900000
         1390 Reward 8.000000 Average Reward 9.300000
Episode
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
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1440 Reward 9.000000 Average Reward 9.600000
Episode
Episode
         1450 Reward 8.000000 Average Reward 9.300000
Episode
         1460 Reward 8.000000 Average Reward 9.300000
         1470 Reward 10.000000 Average Reward 9.100000
Episode
         1480 Reward 8.000000 Average Reward 9.300000
Episode
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
         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
Episode
        1580 Reward 10.000000 Average Reward 9.600000
        1590 Reward 9.000000 Average Reward 9.500000
Episode
Episode
         1600 Reward 10.000000 Average Reward 9.500000
         1610 Reward 10.000000 Average Reward 9.500000
Episode
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
         1650 Reward 10.000000 Average Reward 9.500000
Episode
Episode
         1660 Reward 9.000000 Average Reward 9.200000
Episode
        1670 Reward 8.000000 Average Reward 9.300000
Episode
         1680 Reward 10.000000 Average Reward 9.300000
         1690 Reward 9.000000 Average Reward 9.600000
Episode
        1700 Reward 10.000000 Average Reward 9.300000
Episode
Episode
         1710 Reward 10.000000 Average Reward 9.700000
         1720 Reward 8.000000 Average Reward 9.800000
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Episode
        1730 Reward 10.000000 Average Reward 9.300000
        1740 Reward 10.000000 Average Reward 9.600000
Episode
         1750 Reward 9.000000 Average Reward 9.400000
Episode
Episode
         1760 Reward 11.000000 Average Reward 9.400000
         1770 Reward 8.000000 Average Reward 9.500000
Episode
         1780 Reward 10.000000 Average Reward 9.500000
Episode
Episode
         1790 Reward 10.000000 Average Reward 9.700000
         1800 Reward 10.000000 Average Reward 9.200000
Episode
0:11:55.425789
0:11:55.491804
Run: 2
Episode
        10 Reward 13.000000 Average Reward 18.400000
        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
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
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90 Reward 44.000000 Average Reward 57.400000
Episode
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
         190 Reward 100.000000 Average Reward 60.900000
Episode
Episode
         200 Reward 49.000000 Average Reward 351.700000
Episode
         210 Reward 28.000000 Average Reward 73.600000
         220 Reward 47.000000 Average Reward 39.100000
Episode
Episode
         230 Reward 67.000000 Average Reward 57.300000
         240 Reward 29.000000 Average Reward 48.100000
Episode
Episode
         250 Reward 33.000000 Average Reward 45.800000
         260 Reward 68.000000 Average Reward 37.600000
Episode
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
         350 Reward 33.000000 Average Reward 58.300000
Episode
Episode
         360 Reward 50.000000 Average Reward 32.500000
         370 Reward 32.000000 Average Reward 39.700000
Episode
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
         430 Reward 10.000000 Average Reward 9.900000
Episode
Episode
         440 Reward 8.000000 Average Reward 9.200000
         450 Reward 9.000000 Average Reward 9.100000
Episode
Episode
         460 Reward 10.000000 Average Reward 9.300000
         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
Episode
         510 Reward 9.000000 Average Reward 9.500000
         520 Reward 10.000000 Average Reward 9.500000
Episode
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
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570 Reward 10.000000 Average Reward 9.100000
Episode
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
         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
Episode
         680 Reward 10.000000 Average Reward 9.500000
Episode
         690 Reward 9.000000 Average Reward 9.600000
         700 Reward 10.000000 Average Reward 9.400000
Episode
Episode
         710 Reward 10.000000 Average Reward 9.200000
         720 Reward 9.000000 Average Reward 9.500000
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Episode
         730 Reward 10.000000 Average Reward 9.600000
         740 Reward 10.000000 Average Reward 9.600000
Episode
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
         780 Reward 9.000000 Average Reward 9.100000
Episode
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
         820 Reward 10.000000 Average Reward 9.000000
Episode
         830 Reward 11.000000 Average Reward 9.200000
Episode
Episode
         840 Reward 10.000000 Average Reward 9.200000
         850 Reward 9.000000 Average Reward 9.500000
Episode
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
         910 Reward 10.000000 Average Reward 9.600000
Episode
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
         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
Episode
         990 Reward 11.000000 Average Reward 9.400000
         1000 Reward 10.000000 Average Reward 9.500000
Episode
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
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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
         1090 Reward 10.000000 Average Reward 9.400000
Episode
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
         1150 Reward 10.000000 Average Reward 9.500000
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Episode
         1160 Reward 10.000000 Average Reward 9.600000
Episode
         1170 Reward 9.000000 Average Reward 9.100000
         1180 Reward 10.000000 Average Reward 9.100000
Episode
Episode
         1190 Reward 10.000000 Average Reward 9.500000
         1200 Reward 11.000000 Average Reward 9.400000
Episode
Episode
         1210 Reward 10.000000 Average Reward 9.200000
         1220 Reward 9.000000 Average Reward 9.400000
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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
         1260 Reward 10.000000 Average Reward 9.800000
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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
         1300 Reward 9.000000 Average Reward 9.600000
Episode
         1310 Reward 10.000000 Average Reward 9.600000
Episode
Episode
         1320 Reward 9.000000 Average Reward 9.100000
         1330 Reward 9.000000 Average Reward 9.200000
Episode
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
         1390 Reward 9.000000 Average Reward 9.300000
Episode
Episode
         1400 Reward 11.000000 Average Reward 9.500000
         1410 Reward 9.000000 Average Reward 9.700000
Episode
Episode
         1420 Reward 9.000000 Average Reward 9.300000
Episode
         1430 Reward 9.000000 Average Reward 9.300000
         1440 Reward 10.000000 Average Reward 9.600000
Episode
Episode
         1450 Reward 9.000000 Average Reward 9.300000
         1460 Reward 10.000000 Average Reward 9.300000
Episode
Episode
         1470 Reward 9.000000 Average Reward 9.200000
         1480 Reward 10.000000 Average Reward 9.500000
Episode
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
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1530 Reward 8.000000 Average Reward 9.300000
Episode
Episode
         1540 Reward 10.000000 Average Reward 9.300000
Episode
         1550 Reward 9.000000 Average Reward 9.400000
         1560 Reward 8.000000 Average Reward 9.300000
Episode
         1570 Reward 11.000000 Average Reward 9.400000
Episode
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
         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
Episode
         1670 Reward 10.000000 Average Reward 9.500000
        1680 Reward 9.000000 Average Reward 9.700000
Episode
Episode
         1690 Reward 9.000000 Average Reward 9.300000
         1700 Reward 10.000000 Average Reward 9.800000
Episode
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
         1740 Reward 10.000000 Average Reward 9.400000
Episode
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
         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
Episode
0:22:15.375491
0:22:15.445506
Run:
Episode
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Episode
         20 Reward 58.000000 Average Reward 37.400000
        30 Reward 51.000000 Average Reward 48.700000
Episode
        40 Reward 39.000000 Average Reward 51.100000
Episode
Episode
        50 Reward 9.000000 Average Reward 21.400000
         60 Reward 9.000000 Average Reward 9.500000
Episode
Episode
        70 Reward 9.000000 Average Reward 9.300000
         80 Reward 8.000000 Average Reward 9.000000
Episode
        90 Reward 9.000000 Average Reward 9.700000
Episode
Episode
        100 Reward 8.000000 Average Reward 9.400000
        110 Reward 9.000000 Average Reward 9.200000
Episode
Episode
         120 Reward 8.000000 Average Reward 9.300000
         130 Reward 9.000000 Average Reward 9.200000
Episode
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
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180 Reward 50.000000 Average Reward 25.100000
Episode
Episode
         190 Reward 65.000000 Average Reward 53.600000
Episode
         200 Reward 35.000000 Average Reward 74.500000
         210 Reward 18.000000 Average Reward 35.700000
Episode
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
         280 Reward 80.000000 Average Reward 48.600000
Episode
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
         330 Reward 10.000000 Average Reward 9.900000
Episode
Episode
         340 Reward 10.000000 Average Reward 10.100000
         350 Reward 9.000000 Average Reward 9.200000
Episode
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
         390 Reward 9.000000 Average Reward 10.100000
Episode
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
         430 Reward 10.000000 Average Reward 10.500000
Episode
         440 Reward 10.000000 Average Reward 13.900000
Episode
Episode
         450 Reward 18.000000 Average Reward 17.200000
         460 Reward 36.000000 Average Reward 23.600000
Episode
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
         510 Reward 10.000000 Average Reward 9.800000
Episode
         520 Reward 9.000000 Average Reward 9.400000
Episode
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
         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
Episode
         600 Reward 10.000000 Average Reward 9.400000
         610 Reward 10.000000 Average Reward 9.600000
Episode
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
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660 Reward 8.000000 Average Reward 9.200000
Episode
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
         700 Reward 10.000000 Average Reward 9.500000
Episode
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
         790 Reward 9.000000 Average Reward 9.300000
Episode
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
         830 Reward 10.000000 Average Reward 9.100000
Episode
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
         870 Reward 11.000000 Average Reward 9.500000
Episode
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
         910 Reward 9.000000 Average Reward 9.000000
Episode
        920 Reward 10.000000 Average Reward 9.600000
Episode
Episode
         930 Reward 8.000000 Average Reward 9.100000
         940 Reward 10.000000 Average Reward 9.400000
Episode
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
         1000 Reward 10.000000 Average Reward 9.400000
Episode
Episode
         1010 Reward 9.000000 Average Reward 9.800000
         1020 Reward 9.000000 Average Reward 9.800000
Episode
Episode
         1030 Reward 12.000000 Average Reward 10.100000
         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
Episode
         1080 Reward 10.000000 Average Reward 14.400000
         1090 Reward 10.000000 Average Reward 9.500000
Episode
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
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1140 Reward 12.000000 Average Reward 42.300000
Episode
         1150 Reward 9.000000 Average Reward 9.300000
Episode
Episode
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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
         1240 Reward 12.000000 Average Reward 10.300000
Episode
Episode
         1250 Reward 10.000000 Average Reward 10.500000
Episode
         1260 Reward 75.000000 Average Reward 50.600000
         1270 Reward 126.000000 Average Reward 65.500000
Episode
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
         1350 Reward 40.000000 Average Reward 52.700000
Episode
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
         1390 Reward 38.000000 Average Reward 65.000000
Episode
         1400 Reward 80.000000 Average Reward 72.800000
Episode
Episode
         1410 Reward 75.000000 Average Reward 109.700000
         1420 Reward 49.000000 Average Reward 53.600000
Episode
Episode
         1430 Reward 35.000000 Average Reward 36.800000
Episode
         1440 Reward 38.000000 Average Reward 52.400000
         1450 Reward 49.000000 Average Reward 86.200000
Episode
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
         1530 Reward 104.000000 Average Reward 87.100000
Episode
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
         1570 Reward 24.000000 Average Reward 24.600000
Episode
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
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1620 Reward 10.000000 Average Reward 9.300000
Episode
        1630 Reward 8.000000 Average Reward 8.700000
Episode
Episode
        1640 Reward 9.000000 Average Reward 9.400000
Episode
         1650 Reward 10.000000 Average Reward 9.300000
         1660 Reward 25.000000 Average Reward 14.500000
Episode
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
        1720 Reward 25.000000 Average Reward 29.400000
Episode
Episode
        1730 Reward 14.000000 Average Reward 67.300000
        1740 Reward 48.000000 Average Reward 79.700000
Episode
         1750 Reward 51.000000 Average Reward 23.200000
Episode
Episode
        1760 Reward 78.000000 Average Reward 210.400000
        1770 Reward 11.000000 Average Reward 11.100000
Episode
Episode
         1780 Reward 79.000000 Average Reward 56.100000
         1790 Reward 14.000000 Average Reward 18.100000
Episode
Episode
         1800 Reward 8.000000 Average Reward 118.900000
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Run: 4 -----
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Episode 20 Reward 83.000000 Average Reward 60.300000
Episode 30 Reward 377.000000 Average Reward 133.600000
        40 Reward 10.000000 Average Reward 10.200000
Episode
        50 Reward 10.000000 Average Reward 9.400000
Episode
Episode
        60 Reward 9.000000 Average Reward 9.300000
        70 Reward 12.000000 Average Reward 9.500000
Episode
Episode
        80 Reward 10.000000 Average Reward 9.100000
Episode
        90 Reward 9.000000 Average Reward 9.800000
        100 Reward 11.000000 Average Reward 9.200000
Episode
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
         150 Reward 8.000000 Average Reward 9.500000
Episode
Episode
        160 Reward 10.000000 Average Reward 9.600000
Episode
        170 Reward 8.000000 Average Reward 9.400000
        180 Reward 10.000000 Average Reward 10.000000
Episode
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
         220 Reward 15.000000 Average Reward 13.900000
Episode
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
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270 Reward 10.000000 Average Reward 9.300000
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Episode
         280 Reward 9.000000 Average Reward 9.100000
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         290 Reward 10.000000 Average Reward 9.200000
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         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
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         350 Reward 9.000000 Average Reward 9.400000
         360 Reward 10.000000 Average Reward 9.700000
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         370 Reward 10.000000 Average Reward 9.600000
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Episode
         380 Reward 9.000000 Average Reward 8.900000
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         390 Reward 10.000000 Average Reward 9.200000
         400 Reward 10.000000 Average Reward 9.500000
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Episode
         410 Reward 8.000000 Average Reward 9.100000
Episode
         420 Reward 8.000000 Average Reward 9.400000
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         430 Reward 10.000000 Average Reward 9.500000
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         440 Reward 9.000000 Average Reward 9.400000
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         450 Reward 9.000000 Average Reward 9.400000
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         460 Reward 9.000000 Average Reward 9.200000
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         470 Reward 9.000000 Average Reward 9.300000
         480 Reward 10.000000 Average Reward 9.900000
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Episode
         490 Reward 9.000000 Average Reward 9.100000
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         500 Reward 9.000000 Average Reward 9.300000
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         510 Reward 10.000000 Average Reward 9.700000
         520 Reward 9.000000 Average Reward 9.300000
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         530 Reward 10.000000 Average Reward 9.800000
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         540 Reward 10.000000 Average Reward 9.800000
         550 Reward 9.000000 Average Reward 9.400000
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         560 Reward 9.000000 Average Reward 9.400000
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         570 Reward 10.000000 Average Reward 9.600000
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         580 Reward 8.000000 Average Reward 9.200000
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         590 Reward 9.000000 Average Reward 9.500000
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         600 Reward 9.000000 Average Reward 9.400000
         610 Reward 9.000000 Average Reward 9.300000
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         620 Reward 8.000000 Average Reward 8.900000
         630 Reward 10.000000 Average Reward 9.000000
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         640 Reward 9.000000 Average Reward 9.200000
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         670 Reward 9.000000 Average Reward 9.300000
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         680 Reward 10.000000 Average Reward 9.700000
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         690 Reward 9.000000 Average Reward 9.600000
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         710 Reward 10.000000 Average Reward 9.200000
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         720 Reward 8.000000 Average Reward 9.400000
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         730 Reward 10.000000 Average Reward 9.500000
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         740 Reward 11.000000 Average Reward 9.500000
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750 Reward 10.000000 Average Reward 9.300000
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         780 Reward 9.000000 Average Reward 9.300000
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         790 Reward 10.000000 Average Reward 9.500000
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         800 Reward 10.000000 Average Reward 9.500000
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         810 Reward 10.000000 Average Reward 9.600000
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         820 Reward 9.000000 Average Reward 9.200000
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         830 Reward 10.000000 Average Reward 9.200000
         840 Reward 10.000000 Average Reward 9.500000
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         850 Reward 9.000000 Average Reward 9.200000
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Episode
         860 Reward 9.000000 Average Reward 9.100000
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         870 Reward 9.000000 Average Reward 9.600000
         880 Reward 8.000000 Average Reward 9.200000
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         900 Reward 9.000000 Average Reward 9.200000
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         910 Reward 9.000000 Average Reward 8.800000
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         920 Reward 9.000000 Average Reward 9.300000
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         930 Reward 9.000000 Average Reward 8.900000
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         940 Reward 9.000000 Average Reward 9.500000
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         950 Reward 8.000000 Average Reward 9.000000
         960 Reward 11.000000 Average Reward 9.900000
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         970 Reward 9.000000 Average Reward 8.900000
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         980 Reward 9.000000 Average Reward 9.400000
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         990 Reward 8.000000 Average Reward 9.000000
         1000 Reward 9.000000 Average Reward 9.200000
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         1010 Reward 9.000000 Average Reward 9.500000
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         1020 Reward 10.000000 Average Reward 9.200000
         1030 Reward 9.000000 Average Reward 9.000000
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         1040 Reward 8.000000 Average Reward 8.800000
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         1050 Reward 10.000000 Average Reward 9.800000
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         1060 Reward 9.000000 Average Reward 9.200000
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         1070 Reward 10.000000 Average Reward 9.300000
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         1100 Reward 9.000000 Average Reward 9.400000
         1110 Reward 8.000000 Average Reward 9.100000
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         1120 Reward 10.000000 Average Reward 9.100000
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         1130 Reward 10.000000 Average Reward 9.700000
         1140 Reward 9.000000 Average Reward 9.100000
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         1150 Reward 9.000000 Average Reward 9.400000
         1160 Reward 10.000000 Average Reward 9.000000
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         1170 Reward 9.000000 Average Reward 9.200000
         1180 Reward 9.000000 Average Reward 9.800000
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Episode
         1190 Reward 9.000000 Average Reward 9.100000
Episode
         1200 Reward 9.000000 Average Reward 9.300000
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         1210 Reward 9.000000 Average Reward 9.200000
Episode
         1220 Reward 10.000000 Average Reward 9.800000
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1230 Reward 9.000000 Average Reward 9.200000
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         1240 Reward 10.000000 Average Reward 9.500000
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         1250 Reward 11.000000 Average Reward 9.200000
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         1260 Reward 10.000000 Average Reward 9.800000
         1270 Reward 9.000000 Average Reward 9.300000
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         1280 Reward 10.000000 Average Reward 9.200000
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         1290 Reward 10.000000 Average Reward 9.400000
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         1300 Reward 10.000000 Average Reward 9.700000
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         1310 Reward 9.000000 Average Reward 9.400000
         1320 Reward 9.000000 Average Reward 9.200000
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         1330 Reward 9.000000 Average Reward 9.300000
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         1340 Reward 10.000000 Average Reward 9.400000
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         1350 Reward 10.000000 Average Reward 9.500000
         1360 Reward 9.000000 Average Reward 9.700000
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         1370 Reward 9.000000 Average Reward 9.400000
         1380 Reward 8.000000 Average Reward 9.100000
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         1390 Reward 8.000000 Average Reward 9.400000
         1400 Reward 10.000000 Average Reward 9.200000
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         1410 Reward 9.000000 Average Reward 9.300000
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         1420 Reward 10.000000 Average Reward 9.400000
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         1430 Reward 10.000000 Average Reward 9.200000
         1440 Reward 10.000000 Average Reward 9.500000
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         1450 Reward 9.000000 Average Reward 9.300000
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         1460 Reward 10.000000 Average Reward 8.900000
Episode
         1470 Reward 10.000000 Average Reward 9.100000
         1480 Reward 8.000000 Average Reward 9.000000
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         1490 Reward 10.000000 Average Reward 9.300000
Episode
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         1500 Reward 10.000000 Average Reward 9.200000
         1510 Reward 10.000000 Average Reward 9.800000
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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
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         1550 Reward 12.000000 Average Reward 10.200000
Episode
         1560 Reward 10.000000 Average Reward 9.800000
         1570 Reward 9.000000 Average Reward 9.700000
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Episode
         1580 Reward 9.000000 Average Reward 9.400000
Episode
         1590 Reward 9.000000 Average Reward 9.400000
Episode
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Episode
         1610 Reward 69.000000 Average Reward 39.100000
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Episode
Episode
         1630 Reward 56.000000 Average Reward 45.200000
         1640 Reward 35.000000 Average Reward 78.200000
Episode
Episode
         1650 Reward 46.000000 Average Reward 65.600000
         1660 Reward 22.000000 Average Reward 26.200000
Episode
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
```

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1710 Reward 49.000000 Average Reward 50.600000
Episode
        1720 Reward 50.000000 Average Reward 43.900000
Episode
Episode
        1730 Reward 44.000000 Average Reward 35.700000
        1740 Reward 185.000000 Average Reward 72.400000
Episode
        1750 Reward 36.000000 Average Reward 70.300000
Episode
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
        1790 Reward 10.000000 Average Reward 9.800000
Episode
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Run: 5 -----
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Episode
Episode
        40 Reward 48.000000 Average Reward 158.000000
        50 Reward 64.000000 Average Reward 68.500000
Episode
Episode
        60 Reward 88.000000 Average Reward 63.100000
Episode
        70 Reward 34.000000 Average Reward 106.400000
        80 Reward 69.000000 Average Reward 103.600000
Episode
        90 Reward 188.000000 Average Reward 94.900000
Episode
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
        130 Reward 103.000000 Average Reward 70.100000
Episode
        140 Reward 41.000000 Average Reward 81.000000
Episode
Episode
        150 Reward 226.000000 Average Reward 77.200000
        160 Reward 35.000000 Average Reward 79.000000
Episode
Episode
        170 Reward 94.000000 Average Reward 118.600000
        180 Reward 66.000000 Average Reward 160.300000
Episode
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
        220 Reward 58.000000 Average Reward 49.700000
Episode
Episode
        230 Reward 67.000000 Average Reward 62.500000
        240 Reward 25.000000 Average Reward 35.300000
Episode
Episode
        250 Reward 15.000000 Average Reward 25.000000
        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
Episode
        300 Reward 244.000000 Average Reward 164.200000
        310 Reward 122.000000 Average Reward 157.500000
Episode
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
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Episode
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         370 Reward 248.000000 Average Reward 132.200000
Episode
Episode
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Episode
         390 Reward 28.000000 Average Reward 149.100000
Episode
         400 Reward 10.000000 Average Reward 20.500000
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         410 Reward 9.000000 Average Reward 10.300000
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         420 Reward 8.000000 Average Reward 9.600000
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         430 Reward 11.000000 Average Reward 10.500000
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         440 Reward 10.000000 Average Reward 9.600000
         450 Reward 10.000000 Average Reward 9.600000
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         460 Reward 10.000000 Average Reward 9.700000
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         470 Reward 9.000000 Average Reward 8.900000
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         480 Reward 10.000000 Average Reward 9.700000
         490 Reward 10.000000 Average Reward 9.700000
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         500 Reward 10.000000 Average Reward 9.400000
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         510 Reward 9.000000 Average Reward 9.600000
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         520 Reward 11.000000 Average Reward 9.600000
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         530 Reward 10.000000 Average Reward 10.700000
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         540 Reward 9.000000 Average Reward 12.500000
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         550 Reward 25.000000 Average Reward 19.500000
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         560 Reward 21.000000 Average Reward 17.700000
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Episode
         580 Reward 30.000000 Average Reward 24.000000
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         590 Reward 10.000000 Average Reward 33.100000
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         600 Reward 9.000000 Average Reward 9.600000
         610 Reward 9.000000 Average Reward 9.500000
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         620 Reward 10.000000 Average Reward 9.900000
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         630 Reward 9.000000 Average Reward 9.100000
         640 Reward 9.000000 Average Reward 9.700000
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         650 Reward 9.000000 Average Reward 9.300000
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         660 Reward 9.000000 Average Reward 9.300000
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         670 Reward 9.000000 Average Reward 9.200000
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         680 Reward 9.000000 Average Reward 9.400000
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         690 Reward 9.000000 Average Reward 9.100000
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         700 Reward 9.000000 Average Reward 9.500000
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         710 Reward 9.000000 Average Reward 8.900000
Episode
         720 Reward 10.000000 Average Reward 9.300000
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         730 Reward 9.000000 Average Reward 9.400000
Episode
         740 Reward 11.000000 Average Reward 9.600000
         750 Reward 10.000000 Average Reward 9.300000
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Episode
         760 Reward 9.000000 Average Reward 9.300000
         770 Reward 11.000000 Average Reward 9.600000
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         780 Reward 10.000000 Average Reward 9.200000
         790 Reward 10.000000 Average Reward 9.600000
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         800 Reward 10.000000 Average Reward 9.600000
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         810 Reward 10.000000 Average Reward 9.300000
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         820 Reward 10.000000 Average Reward 9.500000
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         830 Reward 9.000000 Average Reward 9.300000
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840 Reward 9.000000 Average Reward 9.100000
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Episode
         850 Reward 9.000000 Average Reward 9.200000
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         860 Reward 8.000000 Average Reward 8.900000
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         870 Reward 10.000000 Average Reward 9.700000
         880 Reward 8.000000 Average Reward 8.700000
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         890 Reward 11.000000 Average Reward 9.300000
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         900 Reward 8.000000 Average Reward 9.500000
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         910 Reward 10.000000 Average Reward 9.200000
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         920 Reward 10.000000 Average Reward 9.400000
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         930 Reward 9.000000 Average Reward 8.800000
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         940 Reward 9.000000 Average Reward 9.300000
         950 Reward 10.000000 Average Reward 9.600000
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         960 Reward 8.000000 Average Reward 9.600000
         970 Reward 9.000000 Average Reward 9.600000
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         980 Reward 10.000000 Average Reward 9.500000
         990 Reward 10.000000 Average Reward 9.500000
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         1000 Reward 10.000000 Average Reward 9.300000
         1010 Reward 9.000000 Average Reward 9.100000
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         1020 Reward 10.000000 Average Reward 9.500000
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         1030 Reward 10.000000 Average Reward 9.400000
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         1040 Reward 9.000000 Average Reward 9.500000
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         1060 Reward 9.000000 Average Reward 9.300000
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         1070 Reward 8.000000 Average Reward 9.300000
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         1080 Reward 10.000000 Average Reward 9.500000
         1090 Reward 8.000000 Average Reward 8.700000
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         1100 Reward 8.000000 Average Reward 9.400000
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         1110 Reward 9.000000 Average Reward 9.400000
         1120 Reward 10.000000 Average Reward 9.600000
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         1130 Reward 9.000000 Average Reward 9.800000
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         1140 Reward 9.000000 Average Reward 9.400000
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         1150 Reward 9.000000 Average Reward 9.100000
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         1160 Reward 9.000000 Average Reward 9.400000
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         1190 Reward 9.000000 Average Reward 8.900000
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         1200 Reward 10.000000 Average Reward 9.600000
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         1220 Reward 10.000000 Average Reward 9.600000
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         1230 Reward 10.000000 Average Reward 9.400000
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         1240 Reward 10.000000 Average Reward 9.300000
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         1250 Reward 9.000000 Average Reward 9.000000
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         1260 Reward 10.000000 Average Reward 9.700000
         1270 Reward 10.000000 Average Reward 9.500000
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         1280 Reward 9.000000 Average Reward 9.700000
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         1290 Reward 10.000000 Average Reward 9.500000
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         1300 Reward 8.000000 Average Reward 9.500000
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         1310 Reward 10.000000 Average Reward 9.600000
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1320 Reward 10.000000 Average Reward 9.700000
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         1330 Reward 10.000000 Average Reward 9.200000
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         1340 Reward 9.000000 Average Reward 9.100000
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         1350 Reward 11.000000 Average Reward 9.600000
         1360 Reward 11.000000 Average Reward 9.600000
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         1370 Reward 9.000000 Average Reward 9.000000
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         1380 Reward 9.000000 Average Reward 9.200000
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         1390 Reward 9.000000 Average Reward 9.400000
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         1400 Reward 10.000000 Average Reward 9.800000
         1410 Reward 9.000000 Average Reward 9.700000
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         1420 Reward 9.000000 Average Reward 9.100000
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         1430 Reward 10.000000 Average Reward 9.500000
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         1440 Reward 9.000000 Average Reward 9.600000
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         1460 Reward 8.000000 Average Reward 9.000000
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         1480 Reward 9.000000 Average Reward 9.700000
         1490 Reward 11.000000 Average Reward 9.100000
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         1500 Reward 9.000000 Average Reward 9.200000
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         1510 Reward 9.000000 Average Reward 9.600000
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         1520 Reward 10.000000 Average Reward 9.500000
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         1560 Reward 9.000000 Average Reward 9.400000
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         1660 Reward 9.000000 Average Reward 9.600000
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         1700 Reward 10.000000 Average Reward 9.200000
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         1710 Reward 10.000000 Average Reward 10.000000
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         1730 Reward 9.000000 Average Reward 9.400000
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         1740 Reward 9.000000 Average Reward 8.900000
         1750 Reward 10.000000 Average Reward 9.400000
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         1760 Reward 9.000000 Average Reward 9.200000
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         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
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Episode 1800 Reward 10.000000 Average Reward 9.500000
0:21:51.292027
0:21:51.352039
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
        60 Reward 28.000000 Average Reward 70.800000
Episode
         70 Reward 35.000000 Average Reward 90.100000
Episode
Episode
         80 Reward 75.000000 Average Reward 57.000000
Episode
        90 Reward 352.000000 Average Reward 101.300000
         100 Reward 15.000000 Average Reward 158.000000
Episode
         110 Reward 10.000000 Average Reward 22.300000
Episode
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
         180 Reward 10.000000 Average Reward 10.300000
Episode
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
         220 Reward 12.000000 Average Reward 10.400000
Episode
         230 Reward 15.000000 Average Reward 13.700000
Episode
Episode
         240 Reward 12.000000 Average Reward 10.600000
         250 Reward 27.000000 Average Reward 13.400000
Episode
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
         320 Reward 9.000000 Average Reward 9.500000
Episode
Episode
         330 Reward 9.000000 Average Reward 9.100000
         340 Reward 9.000000 Average Reward 9.300000
Episode
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
         400 Reward 10.000000 Average Reward 9.500000
Episode
         410 Reward 10.000000 Average Reward 9.100000
Episode
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
```

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450 Reward 10.000000 Average Reward 9.500000
Episode
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
         540 Reward 9.000000 Average Reward 9.600000
Episode
         550 Reward 10.000000 Average Reward 9.300000
Episode
Episode
         560 Reward 31.000000 Average Reward 22.000000
Episode
        570 Reward 10.000000 Average Reward 28.600000
         580 Reward 10.000000 Average Reward 9.600000
Episode
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
         620 Reward 55.000000 Average Reward 40.800000
Episode
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
         660 Reward 500.000000 Average Reward 206.100000
Episode
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
         700 Reward 8.000000 Average Reward 9.400000
Episode
         710 Reward 9.000000 Average Reward 9.300000
Episode
Episode
         720 Reward 10.000000 Average Reward 9.400000
         730 Reward 9.000000 Average Reward 9.100000
Episode
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
         790 Reward 9.000000 Average Reward 9.200000
Episode
Episode
         800 Reward 9.000000 Average Reward 9.600000
         810 Reward 9.000000 Average Reward 9.500000
Episode
Episode
         820 Reward 10.000000 Average Reward 9.500000
         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
Episode
         870 Reward 9.000000 Average Reward 9.300000
         880 Reward 10.000000 Average Reward 9.600000
Episode
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
```

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930 Reward 9.000000 Average Reward 9.500000
Episode
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
         1020 Reward 10.000000 Average Reward 9.300000
Episode
         1030 Reward 10.000000 Average Reward 9.300000
Episode
Episode
         1040 Reward 9.000000 Average Reward 9.200000
Episode
         1050 Reward 10.000000 Average Reward 9.100000
         1060 Reward 10.000000 Average Reward 9.300000
Episode
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
         1140 Reward 9.000000 Average Reward 9.400000
Episode
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
         1180 Reward 10.000000 Average Reward 9.200000
Episode
         1190 Reward 9.000000 Average Reward 9.500000
Episode
Episode
         1200 Reward 8.000000 Average Reward 9.500000
         1210 Reward 10.000000 Average Reward 9.200000
Episode
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
         1290 Reward 24.000000 Average Reward 31.700000
Episode
Episode
         1300 Reward 30.000000 Average Reward 28.400000
Episode
         1310 Reward 37.000000 Average Reward 35.100000
         1320 Reward 44.000000 Average Reward 46.200000
Episode
Episode
         1330 Reward 10.000000 Average Reward 17.900000
         1340 Reward 52.000000 Average Reward 21.700000
Episode
Episode
         1350 Reward 23.000000 Average Reward 25.500000
         1360 Reward 43.000000 Average Reward 44.600000
Episode
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
```

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1410 Reward 70.000000 Average Reward 70.300000
Episode
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
         1450 Reward 33.000000 Average Reward 35.700000
Episode
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
        1500 Reward 8.000000 Average Reward 9.000000
Episode
        1510 Reward 9.000000 Average Reward 9.400000
Episode
Episode
         1520 Reward 9.000000 Average Reward 9.400000
Episode
        1530 Reward 8.000000 Average Reward 9.300000
         1540 Reward 9.000000 Average Reward 9.200000
Episode
Episode
        1550 Reward 9.000000 Average Reward 9.100000
        1560 Reward 10.000000 Average Reward 9.700000
Episode
Episode
         1570 Reward 9.000000 Average Reward 9.000000
         1580 Reward 10.000000 Average Reward 9.000000
Episode
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
        1620 Reward 10.000000 Average Reward 9.300000
Episode
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
        1660 Reward 9.000000 Average Reward 9.100000
Episode
        1670 Reward 10.000000 Average Reward 9.400000
Episode
Episode
         1680 Reward 9.000000 Average Reward 9.000000
         1690 Reward 8.000000 Average Reward 9.000000
Episode
Episode
        1700 Reward 10.000000 Average Reward 9.400000
        1710 Reward 10.000000 Average Reward 9.400000
Episode
         1720 Reward 9.000000 Average Reward 9.300000
Episode
Episode
         1730 Reward 10.000000 Average Reward 9.100000
        1740 Reward 9.000000 Average Reward 9.400000
Episode
         1750 Reward 10.000000 Average Reward 9.300000
Episode
Episode
        1760 Reward 9.000000 Average Reward 9.400000
         1770 Reward 10.000000 Average Reward 9.400000
Episode
Episode
        1780 Reward 10.000000 Average Reward 9.800000
         1790 Reward 9.000000 Average Reward 9.400000
Episode
        1800 Reward 10.000000 Average Reward 9.500000
Episode
0:14:29.964841
0:14:30.024854
Episode
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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
```

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60 Reward 31.000000 Average Reward 52.400000
Episode
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
         160 Reward 46.000000 Average Reward 62.200000
Episode
Episode
         170 Reward 24.000000 Average Reward 27.000000
         180 Reward 15.000000 Average Reward 32.700000
Episode
         190 Reward 41.000000 Average Reward 33.100000
Episode
Episode
         200 Reward 24.000000 Average Reward 25.500000
         210 Reward 26.000000 Average Reward 35.700000
Episode
Episode
         220 Reward 39.000000 Average Reward 36.500000
         230 Reward 25.000000 Average Reward 19.500000
Episode
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
         270 Reward 37.000000 Average Reward 21.100000
Episode
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
         310 Reward 175.000000 Average Reward 179.400000
Episode
         320 Reward 122.000000 Average Reward 157.700000
Episode
Episode
         330 Reward 61.000000 Average Reward 55.300000
         340 Reward 33.000000 Average Reward 51.500000
Episode
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
         390 Reward 48.000000 Average Reward 68.200000
Episode
         400 Reward 86.000000 Average Reward 73.600000
Episode
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
         460 Reward 26.000000 Average Reward 27.700000
Episode
         470 Reward 31.000000 Average Reward 38.900000
Episode
Episode
         480 Reward 30.000000 Average Reward 51.200000
         490 Reward 27.000000 Average Reward 27.400000
Episode
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
```

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540 Reward 25.000000 Average Reward 118.200000
Episode
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
         670 Reward 10.000000 Average Reward 9.400000
Episode
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
         710 Reward 10.000000 Average Reward 9.400000
Episode
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
         750 Reward 8.000000 Average Reward 9.200000
Episode
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
         790 Reward 9.000000 Average Reward 9.500000
Episode
         800 Reward 10.000000 Average Reward 9.100000
Episode
Episode
         810 Reward 9.000000 Average Reward 9.300000
         820 Reward 9.000000 Average Reward 9.000000
Episode
Episode
         830 Reward 9.000000 Average Reward 9.000000
Episode
         840 Reward 10.000000 Average Reward 9.400000
         850 Reward 9.000000 Average Reward 9.300000
Episode
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
         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
Episode
         960 Reward 9.000000 Average Reward 9.100000
         970 Reward 9.000000 Average Reward 9.400000
Episode
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
```

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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
         1060 Reward 10.000000 Average Reward 9.500000
Episode
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
         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
Episode
         1160 Reward 9.000000 Average Reward 9.300000
         1170 Reward 8.000000 Average Reward 8.900000
Episode
Episode
         1180 Reward 9.000000 Average Reward 9.500000
         1190 Reward 9.000000 Average Reward 9.100000
Episode
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
         1230 Reward 10.000000 Average Reward 9.100000
Episode
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
         1270 Reward 9.000000 Average Reward 9.400000
Episode
         1280 Reward 10.000000 Average Reward 9.600000
Episode
Episode
         1290 Reward 10.000000 Average Reward 9.000000
         1300 Reward 9.000000 Average Reward 9.400000
Episode
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
         1360 Reward 10.000000 Average Reward 9.300000
Episode
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
         1410 Reward 10.000000 Average Reward 9.300000
Episode
Episode
         1420 Reward 10.000000 Average Reward 9.500000
         1430 Reward 10.000000 Average Reward 9.100000
Episode
Episode
         1440 Reward 9.000000 Average Reward 9.100000
         1450 Reward 10.000000 Average Reward 9.000000
Episode
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
```

```
1500 Reward 9.000000 Average Reward 9.800000
Episode
        1510 Reward 9.000000 Average Reward 9.400000
Episode
Episode
        1520 Reward 9.000000 Average Reward 9.200000
Episode
        1530 Reward 9.000000 Average Reward 9.300000
         1540 Reward 11.000000 Average Reward 9.500000
Episode
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
         1590 Reward 9.000000 Average Reward 10.200000
Episode
        1600 Reward 9.000000 Average Reward 9.300000
Episode
Episode
         1610 Reward 9.000000 Average Reward 10.200000
Episode
        1620 Reward 8.000000 Average Reward 10.800000
         1630 Reward 11.000000 Average Reward 13.300000
Episode
Episode
         1640 Reward 22.000000 Average Reward 14.600000
        1650 Reward 23.000000 Average Reward 20.000000
Episode
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
        1710 Reward 15.000000 Average Reward 14.800000
Episode
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
        1750 Reward 10.000000 Average Reward 9.900000
Episode
        1760 Reward 12.000000 Average Reward 13.100000
Episode
Episode
         1770 Reward 9.000000 Average Reward 11.600000
         1780 Reward 20.000000 Average Reward 21.100000
Episode
Episode
         1790 Reward 10.000000 Average Reward 15.600000
Episode
         1800 Reward 32.000000 Average Reward 58.900000
0:19:35.211818
0:19:35.277832
Run:
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Episode
        20 Reward 57.000000 Average Reward 59.400000
        30 Reward 26.000000 Average Reward 44.400000
Episode
Episode
        40 Reward 9.000000 Average Reward 13.900000
Episode
        50 Reward 8.000000 Average Reward 9.000000
        60 Reward 11.000000 Average Reward 9.800000
Episode
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
        100 Reward 10.000000 Average Reward 9.000000
Episode
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
```

```
150 Reward 10.000000 Average Reward 9.100000
Episode
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
         250 Reward 48.000000 Average Reward 32.100000
Episode
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Episode
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         280 Reward 36.000000 Average Reward 41.500000
Episode
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
         320 Reward 9.000000 Average Reward 9.400000
Episode
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
         360 Reward 9.000000 Average Reward 9.200000
Episode
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
         400 Reward 10.000000 Average Reward 9.400000
Episode
         410 Reward 11.000000 Average Reward 9.600000
Episode
Episode
         420 Reward 9.000000 Average Reward 9.300000
         430 Reward 9.000000 Average Reward 9.500000
Episode
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
         490 Reward 8.000000 Average Reward 9.200000
Episode
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
         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
Episode
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Episode
Episode
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Episode
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Episode
Episode
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Episode
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Episode
Episode
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Episode
         680 Reward 17.000000 Average Reward 36.000000
Episode
         690 Reward 55.000000 Average Reward 58.300000
Episode
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Episode
Episode
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Episode
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Episode
Episode
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Episode
Episode
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Episode
Episode
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Episode
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Episode
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Episode
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Episode
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Episode
Episode
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Episode
Episode
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Episode
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Episode
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Episode
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Episode
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Episode
Episode
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Episode
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Episode
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Episode
Episode
         1050 Reward 10.000000 Average Reward 73.900000
         1060 Reward 9.000000 Average Reward 79.300000
Episode
Episode
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Episode
         1080 Reward 84.000000 Average Reward 105.400000
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Episode
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Episode
Episode
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Episode
         1180 Reward 10.000000 Average Reward 9.200000
Episode
         1190 Reward 10.000000 Average Reward 9.700000
Episode
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         1210 Reward 10.000000 Average Reward 9.500000
Episode
Episode
         1220 Reward 10.000000 Average Reward 9.600000
         1230 Reward 10.000000 Average Reward 9.400000
Episode
         1240 Reward 8.000000 Average Reward 9.000000
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Episode
         1250 Reward 9.000000 Average Reward 9.500000
         1260 Reward 8.000000 Average Reward 9.200000
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Episode
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         1280 Reward 10.000000 Average Reward 9.600000
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         1290 Reward 10.000000 Average Reward 9.600000
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         1300 Reward 10.000000 Average Reward 9.600000
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         1310 Reward 10.000000 Average Reward 9.600000
         1320 Reward 8.000000 Average Reward 9.200000
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         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
         1360 Reward 10.000000 Average Reward 9.600000
Episode
         1370 Reward 10.000000 Average Reward 8.900000
Episode
Episode
         1380 Reward 8.000000 Average Reward 9.500000
         1390 Reward 8.000000 Average Reward 9.000000
Episode
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
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Episode
         1440 Reward 19.000000 Average Reward 18.300000
Episode
         1450 Reward 21.000000 Average Reward 19.100000
Episode
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Episode
Episode
         1480 Reward 27.000000 Average Reward 19.600000
Episode
         1490 Reward 19.000000 Average Reward 18.400000
         1500 Reward 10.000000 Average Reward 34.000000
Episode
Episode
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         1520 Reward 25.000000 Average Reward 83.100000
Episode
Episode
         1530 Reward 15.000000 Average Reward 32.900000
         1540 Reward 8.000000 Average Reward 9.300000
Episode
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
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Episode
         1600 Reward 10.000000 Average Reward 9.100000
Episode
Episode
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Episode
         1630 Reward 9.000000 Average Reward 9.000000
Episode
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
         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
Episode
         1730 Reward 9.000000 Average Reward 9.400000
        1740 Reward 8.000000 Average Reward 9.300000
Episode
Episode
         1750 Reward 9.000000 Average Reward 9.600000
         1760 Reward 10.000000 Average Reward 9.200000
Episode
Episode
         1770 Reward 9.000000 Average Reward 9.500000
Episode
         1780 Reward 9.000000 Average Reward 9.100000
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        40 Reward 23.000000 Average Reward 51.300000
Episode
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
         100 Reward 11.000000 Average Reward 79.300000
Episode
Episode
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         120 Reward 10.000000 Average Reward 9.000000
Episode
Episode
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Episode
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Episode
Episode
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Episode
Episode
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Episode
Episode
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Episode
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Episode
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Episode
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Episode
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Episode
         260 Reward 8.000000 Average Reward 12.800000
         270 Reward 44.000000 Average Reward 23.900000
Episode
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
         340 Reward 28.000000 Average Reward 83.100000
Episode
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Episode
         360 Reward 9.000000 Average Reward 126.700000
Episode
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Episode
Episode
         380 Reward 12.000000 Average Reward 16.000000
         390 Reward 26.000000 Average Reward 18.900000
Episode
Episode
         400 Reward 27.000000 Average Reward 20.300000
         410 Reward 17.000000 Average Reward 22.900000
Episode
Episode
         420 Reward 12.000000 Average Reward 19.500000
Episode
         430 Reward 25.000000 Average Reward 21.200000
         440 Reward 27.000000 Average Reward 26.000000
Episode
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
         490 Reward 9.000000 Average Reward 9.600000
Episode
         500 Reward 9.000000 Average Reward 9.700000
Episode
Episode
         510 Reward 10.000000 Average Reward 9.900000
         520 Reward 9.000000 Average Reward 8.900000
Episode
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
         570 Reward 9.000000 Average Reward 9.200000
Episode
         580 Reward 10.000000 Average Reward 9.700000
Episode
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
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Episode
         630 Reward 208.000000 Average Reward 238.500000
Episode
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Episode
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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
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720 Reward 9.000000 Average Reward 9.600000
Episode
Episode
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Episode
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         750 Reward 10.000000 Average Reward 9.600000
Episode
         760 Reward 8.000000 Average Reward 9.600000
Episode
Episode
         770 Reward 8.000000 Average Reward 8.900000
Episode
         780 Reward 10.000000 Average Reward 9.200000
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Episode
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         840 Reward 9.000000 Average Reward 9.300000
         850 Reward 8.000000 Average Reward 8.800000
Episode
Episode
         860 Reward 9.000000 Average Reward 9.200000
         870 Reward 9.000000 Average Reward 9.200000
Episode
Episode
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         890 Reward 9.000000 Average Reward 9.800000
Episode
Episode
         900 Reward 9.000000 Average Reward 9.300000
Episode
         910 Reward 9.000000 Average Reward 9.200000
Episode
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         930 Reward 10.000000 Average Reward 9.300000
Episode
Episode
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Episode
         950 Reward 9.000000 Average Reward 9.600000
Episode
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Episode
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Episode
Episode
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         1000 Reward 8.000000 Average Reward 9.200000
Episode
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
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         1050 Reward 11.000000 Average Reward 9.700000
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         1060 Reward 8.000000 Average Reward 9.600000
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Episode
         1070 Reward 9.000000 Average Reward 9.400000
         1080 Reward 9.000000 Average Reward 9.300000
Episode
Episode
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         1100 Reward 10.000000 Average Reward 9.600000
Episode
         1110 Reward 8.000000 Average Reward 9.400000
Episode
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Episode
         1130 Reward 9.000000 Average Reward 9.400000
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Episode
         1140 Reward 9.000000 Average Reward 8.900000
         1150 Reward 10.000000 Average Reward 9.600000
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Episode
         1160 Reward 8.000000 Average Reward 9.200000
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         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
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Episode
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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
         1240 Reward 10.000000 Average Reward 9.300000
Episode
Episode
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Episode
         1260 Reward 10.000000 Average Reward 9.200000
Episode
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         1280 Reward 9.000000 Average Reward 9.300000
Episode
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         1300 Reward 9.000000 Average Reward 9.400000
Episode
Episode
         1310 Reward 9.000000 Average Reward 9.500000
Episode
         1320 Reward 10.000000 Average Reward 9.500000
         1330 Reward 10.000000 Average Reward 9.200000
Episode
Episode
         1340 Reward 8.000000 Average Reward 9.200000
         1350 Reward 9.000000 Average Reward 9.300000
Episode
Episode
         1360 Reward 9.000000 Average Reward 9.200000
         1370 Reward 9.000000 Average Reward 9.100000
Episode
Episode
         1380 Reward 9.000000 Average Reward 9.400000
Episode
         1390 Reward 9.000000 Average Reward 9.200000
Episode
         1400 Reward 9.000000 Average Reward 9.100000
         1410 Reward 10.000000 Average Reward 9.600000
Episode
Episode
         1420 Reward 11.000000 Average Reward 9.800000
Episode
         1430 Reward 10.000000 Average Reward 9.600000
Episode
         1440 Reward 8.000000 Average Reward 9.300000
         1450 Reward 10.000000 Average Reward 9.700000
Episode
         1460 Reward 8.000000 Average Reward 9.500000
Episode
Episode
         1470 Reward 9.000000 Average Reward 9.200000
         1480 Reward 9.000000 Average Reward 9.600000
Episode
Episode
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Episode
         1500 Reward 9.000000 Average Reward 9.600000
Episode
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Episode
Episode
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Episode
         1590 Reward 10.000000 Average Reward 9.300000
Episode
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Episode
         1610 Reward 9.000000 Average Reward 9.400000
Episode
Episode
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Episode
         1640 Reward 9.000000 Average Reward 9.500000
Episode
         1650 Reward 10.000000 Average Reward 9.800000
Episode
         1660 Reward 10.000000 Average Reward 9.500000
Episode
         1670 Reward 9.000000 Average Reward 9.600000
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1680 Reward 9.000000 Average Reward 9.800000
Episode
Episode
         1690 Reward 10.000000 Average Reward 9.600000
Episode
        1700 Reward 10.000000 Average Reward 9.500000
        1710 Reward 9.000000 Average Reward 9.100000
Episode
         1720 Reward 10.000000 Average Reward 9.200000
Episode
Episode
         1730 Reward 9.000000 Average Reward 9.100000
Episode
         1740 Reward 9.000000 Average Reward 9.400000
Episode
        1750 Reward 9.000000 Average Reward 9.000000
        1760 Reward 9.000000 Average Reward 9.600000
Episode
Episode
        1770 Reward 10.000000 Average Reward 9.500000
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Episode
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Episode
        80 Reward 34.000000 Average Reward 89.800000
Episode
        90 Reward 58.000000 Average Reward 50.500000
        100 Reward 38.000000 Average Reward 127.200000
Episode
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Episode
Episode
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        130 Reward 185.000000 Average Reward 146.800000
Episode
Episode
        140 Reward 46.000000 Average Reward 141.800000
        150 Reward 69.000000 Average Reward 73.500000
Episode
Episode
         160 Reward 49.000000 Average Reward 51.400000
Episode
         170 Reward 220.000000 Average Reward 189.800000
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         190 Reward 37.000000 Average Reward 31.900000
Episode
Episode
         200 Reward 19.000000 Average Reward 23.500000
         210 Reward 31.000000 Average Reward 27.400000
Episode
Episode
         220 Reward 17.000000 Average Reward 38.400000
         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
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         260 Reward 8.000000 Average Reward 168.000000
Episode
Episode
         270 Reward 50.000000 Average Reward 47.700000
         280 Reward 57.000000 Average Reward 123.400000
Episode
Episode
         290 Reward 9.000000 Average Reward 9.100000
Episode
         300 Reward 10.000000 Average Reward 9.500000
Episode
         310 Reward 9.000000 Average Reward 8.900000
Episode
         320 Reward 10.000000 Average Reward 9.700000
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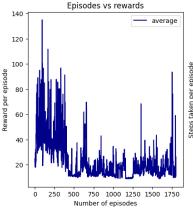
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Episode
         360 Reward 9.000000 Average Reward 9.300000
Episode
         370 Reward 10.000000 Average Reward 9.400000
Episode
         380 Reward 10.000000 Average Reward 9.300000
Episode
         390 Reward 9.000000 Average Reward 9.600000
Episode
         400 Reward 10.000000 Average Reward 9.400000
Episode
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         420 Reward 10.000000 Average Reward 9.100000
Episode
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Episode
Episode
         440 Reward 10.000000 Average Reward 9.200000
Episode
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         460 Reward 9.000000 Average Reward 9.400000
Episode
Episode
         470 Reward 9.000000 Average Reward 9.300000
Episode
         480 Reward 10.000000 Average Reward 9.100000
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Episode
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         510 Reward 8.000000 Average Reward 9.500000
Episode
         520 Reward 8.000000 Average Reward 9.300000
Episode
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         540 Reward 9.000000 Average Reward 9.300000
Episode
Episode
         550 Reward 10.000000 Average Reward 9.100000
Episode
         560 Reward 9.000000 Average Reward 9.700000
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         580 Reward 10.000000 Average Reward 9.500000
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         610 Reward 9.000000 Average Reward 9.400000
Episode
Episode
         620 Reward 10.000000 Average Reward 9.800000
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         630 Reward 10.000000 Average Reward 9.600000
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         640 Reward 10.000000 Average Reward 9.800000
Episode
         650 Reward 9.000000 Average Reward 9.300000
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         660 Reward 9.000000 Average Reward 9.800000
         670 Reward 9.000000 Average Reward 9.200000
Episode
Episode
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         690 Reward 9.000000 Average Reward 9.400000
Episode
Episode
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         710 Reward 9.000000 Average Reward 9.100000
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         720 Reward 10.000000 Average Reward 9.200000
Episode
         730 Reward 10.000000 Average Reward 9.400000
Episode
         740 Reward 10.000000 Average Reward 9.500000
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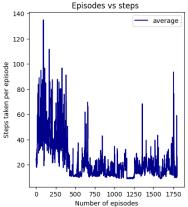
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         1030 Reward 10.000000 Average Reward 9.600000
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         1090 Reward 10.000000 Average Reward 9.600000
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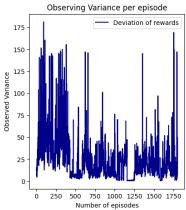
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 $\verb|C:\USers\CFI Workstation\AppData\Local\Packages\PythonSoftware Foundation.Python.| \\$

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>