

Warehouse Robot Path Optimization Using Reinforcement Learning

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GitHub Link: <https://github.com/CSCN8040-Water-Wastage-in-Urban-Areas/CSCN8020-RL-Warehouse-Robot-Optimization>

Azure Link: <https://dev.azure.com/Rkarunanithi3408/CSCN8020-RL-Warehouse%20Robot%20Optimization>

Abstract

- As the need for automation in warehouse logistics grows, autonomous mobile robots (AMRs) are being used more and more to improve item handling, lower human error, and boost productivity. Robot path planning techniques like A* and Dijkstra's algorithm are not flexible enough for dynamic situations where layouts or objectives change often. This study explores how warehouse robots might acquire the best navigational methods in grid-based settings by using Reinforcement Learning (RL) techniques, namely Q-Learning and Deep Q-Networks (DQN). In a simulated Robotic Warehouse Environment (RWARE), the emphasis is on energy-efficient trajectories, shorter trip times, and collision-free navigation. Our suggested strategy shows how RL agents may scale effectively with little user intervention and generalize to unseen warehouse layouts through methodical training and evaluation. According to experimental results, the DQN model uses deep neural networks' function approximation skills to outperform Q-Learning in dynamic situations.

Introduction

- The need for automation in storage and logistics has increased as of April 2025. Autonomous robots are used by businesses to handle transportation and storage in expansive warehouse settings. For activities like choosing and arranging objects to be completed without collisions or needless energy use, these robots must plan the best routes.
- The goal of this research is to create a reinforcement learning (RL) agent that can employ Deep Q-Networks (DQN) to optimize warehouse robot mobility. In order to replicate intelligent path planning utilized in actual smart warehouses, such as those run by Amazon or Alibaba, the agent will be trained to move across a warehouse grid, avoid obstacles, and get to target areas quickly.

Problem statement

- We are working in a dynamic setting to solve a sequential decision-making job. To go from a starting point to a destination in a grid-based warehouse setting, the robot (agent) needs to learn the best course of action. The environment consists of possibly dynamic components (like other robots) as well as static impediments (like shelves).

The following are the main obstacles:

- Complex and dynamic settings
- Trade-off between collision avoidance and the quickest path
- Generalizing to unknown warehouse layouts

Goal of the Project

The development and assessment of a reinforcement learning-based system for autonomous warehouse robot navigation is the main objective of this research project. In particular, the goals consist of:

- Employing Deep Q-Network (DQN) and Q-Learning techniques to develop agents that can navigate grid-based warehouse settings.
- Ensuring that skilled agents are able to function in dynamic environments, avoid barriers, and accomplish goals quickly.
- Evaluating DQN's performance against that of conventional Q-Learning in terms of accuracy, scalability, speed, and flexibility.
- Utilizing OpenAI Gym to simulate a realistic warehouse layout and assessing the models' resilience in both single-agent and multi-agent scenarios.
- Showcasing RL's potential as a sophisticated and affordable substitute for conventional navigation systems in warehouse automation.

Application Overview

Using Reinforcement Learning (RL) approaches to optimize warehouse robot path planning is the main application of this research. By

allowing robots to navigate complicated situations with little assistance from humans, the solution seeks to improve the intelligence, efficiency, and adaptability of warehouse automation systems.

- System Functionality

The application's main function is to replicate a warehouse setting in which an autonomous mobile robot (AMR) is being trained to perform pickup and delivery duties. Each cell in the gridworld model of the warehouse represents a target destination, an impediment, or a navigable area. In addition to choosing actions (moving up, down, left, and right) and receiving incentives based on its movement (positive for striking obstacles or taking extra steps, and negative for reaching the destination), the agent is given state information, which includes its present location and surroundings.

Through trial-and-error contact with the environment, the robot can gradually develop an effective path selection policy using the reinforcement learning models Q-Learning and DQN.

- Features of the Application

Autonomous Navigation: The robot moves across a grid warehouse simulation without following any preset routes. **Obstacle Avoidance:** The robot gains the ability to steer clear of both static and dynamic environmental hazards. **Goal Achievement:** The agent is taught to save time and effort by getting to target places quickly. **Adaptability:** The model exhibits good generalization to novel layouts and situations that are not encountered during training. **Multi-agent Support:** Extension to multi-agent scenarios, in which several robots communicate and avoid collisions, is possible thanks to the system design. **Reward-driven Learning:** Rewards and punishments encourage the agent to investigate the most effective tactics.

- Real-World Relevance

The created system imitates the actions of robots found in actual warehouses run by businesses such as Walmart Logistics, Alibaba Cainiao, and Amazon Robotics. These robots have to maneuver through constantly shifting environments, adjust to new configurations, and stay clear of collisions with other equipment or human workers.

Using Reinforcement Learning in such scenarios offers several real-world advantages:

Decreased dependence on path scripting or manual coding
Enhanced flexibility in responding to changes in warehouse arrangements
Delivery and item handling times that are quicker
Scalability for massive fleets of robots

- Simulation Environment:

A warehouse grid (e.g., 5x5 or 10x10). Each cell may contain:

- Free space
- Obstacles (walls, shelves)
- Starting position
- Goal position (e.g., delivery point)

1. Agent

The warehouse robot. It interacts with the environment:

- Receives observations (position, surroundings)
- Takes actions (move up, down, left, right)
- Receives rewards and learns to improve over time

2. State

What the robot sees. Simplest form:

- (x, y) coordinates of the robot
- Goal location
- Optional: obstacle map

3. Actions

- Move Up
- Move Down
- Move Left
- Move Right
- Stay (optional)

Phase 1: Environment Setup

Step 1: Install Required Packages

Make sure you have Python installed.

Install the necessary libraries using pip:

```
In [1]: !pip install numpy matplotlib torch gymnasium rware
```

Requirement already satisfied: numpy in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (1.26.4)
Requirement already satisfied: matplotlib in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (3.10.1)
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Requirement already satisfied: gymnasium in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (1.1.1)
Requirement already satisfied: rware in /Users/keerthigonuguntla/Library/Containers/net.whatsapp.WhatsApp/Data/tmp/documents/BC85D311-64B3-482F-8283-0AFE09C05CAD/robotic-warehouse (2.0.0)
Requirement already satisfied: contourpy>=1.0.1 in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from matplotlib) (1.3.1)
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Requirement already satisfied: filelock in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from torch) (3.18.0)
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Requirement already satisfied: mpmath<1.4,>=1.1.0 in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from sympy==1.13.1->torch) (1.3.0)
Requirement already satisfied: cloudpickle>=1.2.0 in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from gymnasium) (3.1.1)
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Requirement already satisfied: pygame<2 in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from rware) (1.5.31)
Requirement already satisfied: six>=1.5 in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from python-dateutil>=2.7->matplotlib) (1.17.0)
Requirement already satisfied: MarkupSafe>=2.0 in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from jinja2->torch) (3.0.2)

```
In [8]: !pip install --upgrade pip
```

Requirement already satisfied: pip in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (25.0.1)

```
In [2]: !pip install gym
!pip install torch torchvision
```

Requirement already satisfied: gym in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (0.26.2)
Requirement already satisfied: numpy>=1.18.0 in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from gym) (1.26.4)
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Requirement already satisfied: MarkupSafe>=2.0 in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from jinja2->torch) (3.0.2)

In [3]: !pip install pytest

Requirement already satisfied: pytest in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (8.3.5)
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Requirement already satisfied: pluggy<2,>=1.5 in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from pytest) (1.5.0)

Step 2 : Clone the RWARE Repository

In [4]: !git clone https://github.com/semitable/robotic-warehouse.git

Cloning into 'robotic-warehouse'...
remote: Enumerating objects: 879, done.
remote: Counting objects: 100% (331/331), done.
remote: Compressing objects: 100% (55/55), done.
remote: Total 879 (delta 298), reused 276 (delta 276), pack-reused 548 (from 2)
Receiving objects: 100% (879/879), 2.49 MiB | 14.19 MiB/s, done.
Resolving deltas: 100% (510/510), done.

Step 3: Install the RWARE Package in Editable Mode

In [5]: %cd robotic-warehouse
!pip install -e .

/Users/keerthigonuguntla/Documents/AI & ML - SEM 2/Reinforcement Learning/project/robotic-warehouse
Obtaining file:///Users/keerthigonuguntla/Documents/AI%20%26%20ML%20-%20SEM%202/Reinforcement%20Learning/project/robotic-warehouse

Preparing metadata (setup.py) ... done

Requirement already satisfied: numpy in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from rware==2.0.0) (1.26.4)

Requirement already satisfied: gymnasium in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from rware==2.0.0) (1.1.1)

Requirement already satisfied: pygame<2 in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from rware==2.0.0) (1.5.31)

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Requirement already satisfied: cloudpickle>=1.2.0 in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from gymnasium->rware==2.0.0) (3.1.1)

Requirement already satisfied: typing-extensions>=4.3.0 in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from gymnasium->rware==2.0.0) (4.12.2)

Requirement already satisfied: farama-notifications>=0.0.1 in /Users/keerthigonuguntla/.pyenv/versions/3.12.1/lib/python3.12/site-packages (from gymnasium->rware==2.0.0) (0.0.4)

Installing collected packages: rware

Attempting uninstall: rware

Found existing installation: rware 2.0.0

Uninstalling rware-2.0.0:

Successfully uninstalled rware-2.0.0

DEPRECATION: Legacy editable install of rware==2.0.0 from file:///Users/keerthigonuguntla/Documents/AI%20%26%20ML%20-%20SEM%202/Reinforcement%20Learning/project/robotic-warehouse (setup.py develop) is deprecated. pip 25.1 will enforce this behaviour change. A possible replacement is to add a pyproject.toml or enable --use-pep517, and use setuptools >= 64. If the resulting installation is not behaving as expected, try using --config-settings editable_mode=compat. Please consult the setuptools documentation for more information. Discussion can be found at <https://github.com/pypa/pip/issues/11457>

Running setup.py develop for rware

Successfully installed rware-2.0.0

Step 4: Test RWARE Installation

Check if the environments are registered correctly:

we will utilize Gymnasium (the revised OpenAI Gym) as the RL environment interface, RWARE for the particular warehouse environment, PyTorch for the DQN, Matplotlib for charting results, and NumPy for numerical operations (such as the Q-table).

This installs the environment in editable mode so you can modify its internals.

```
In [6]: import gymnasium as gym

# List available rware environments
for env_id in gym.envs.registry.keys():
    if "rware" in env_id:
        print(env_id)
```

Step 5: Visualize a RWARE Environment

```
In [7]: import gymnasium as gym
import rware
import time
import warnings

# Suppress gymnasium warnings
warnings.filterwarnings("ignore", category=UserWarning)

# Create environment
env = gym.make("rware-tiny-2ag-v2", render_mode="human")
obs, _ = env.reset()

_ = env.render()

steps = 0
MAX_STEPS = 10

while steps < MAX_STEPS:
    actions = [space.sample() for space in env.action_space]
    obs, rewards, terminated, truncated, info = env.step(actions)

    reward = rewards[0] if isinstance(rewards, list) else rewards # Fix reward type
    _ = env.render() # Render cleanly
    time.sleep(0.5)

    if terminated or truncated:
        obs, _ = env.reset() # Restart the episode if done
        steps += 1

input("\n Simulation complete! Press ENTER to close.")
```

Out[7]: ''

Note: Once you have run this environment in order to move to the next step Press Enter in the pop-up which shows up After few minutes running environment

Orange Hexagons (with arrow)

- Meaning: These are the robots (agents).
- Arrow inside: Indicates the direction the agent is facing.
- The agent can move forward, turn, or pick up/drop shelves.

Blue Squares

- Meaning: These are shelves in the warehouse.
- Shelves are static unless picked up by an agent.

Teal (Cyan-Greenish) Shelves

- Meaning: These are requested shelves (active delivery tasks).
- Agents are expected to pick up these shelves and deliver them to the goal (G) locations.

■ Black Squares with G

- Meaning: These are the goal locations.
- Agents need to drop the requested shelves here to complete delivery tasks and earn rewards.

□ White Squares

- Meaning: These are free/empty tiles where agents can move.

Q-Learning Explanation

What is Q-Learning?

Reinforcement without a model is Q-Learning. The best course of action for an agent interacting with its surroundings is determined by a learning algorithm. Maximizing the cumulative benefit over time is the aim.

Basic Idea:

An agent learns to make decisions by:

- Exploring the environment
- Taking actions
- Receiving rewards
- Updating its Q-values (quality values) to reflect the expected utility of taking a certain action in a given state

Q-Learning Formula (Bellman Equation):

$$Q(s, a) = Q(s, a) + \alpha [r + \gamma \cdot \max_{a'} Q(s', a') - Q(s, a)]$$

Where:

Symbol	Meaning
s	Current state
a	Current action
r	Reward received after taking action a in state s
s'	Next state
a'	Next possible actions
α	Learning rate (how much to update Q)
γ	Discount factor (importance of future rewards)
Q(s, a)	Q-value: expected future reward for taking action a in state s

How It Works (Step-by-Step):

1. Initialize Q-table (state × action values) to zero
2. Repeat for each episode:
 - Start from the initial state **s**
 - Repeat until goal or terminal state:

- Choose an action a using ϵ -greedy strategy (exploration vs exploitation)
- Perform the action \rightarrow observe reward r and new state s'
- Update the Q-value using the formula above
- Set $s \leftarrow s'$

3. Continue training over multiple episodes to converge toward optimal policy.

Goal:

The agent learns the optimal policy, which is the best action to take in each state to maximize total reward over time.

$$\pi^*(s) = \operatorname{argmax}_a Q(s, a)$$

Key Features of Q-Learning:

Feature	Description
Model-free	Doesn't need to know environment dynamics (no transition probabilities)
Off-policy	Learns the best policy regardless of how the agent is currently behaving
Simple & Effective	Great for small and discrete state spaces

Limitations:

- Doesn't scale well to large or continuous state spaces
- Needs a big Q-table for big environments

That's why we use Deep Q-Learning (DQN), which uses a neural network instead of a table to estimate Q-values.

Phase 2 : Q-learning Implementation for Warehouse

Goal

Train a robot (agent) to navigate the warehouse, pick up requested shelves, and deliver them to goal locations using Q-learning.

Step 1: Q-Learning Setup Overview

Environment Assumptions:

- We'll use `rware-tiny-2ag-v2` (Tiny map, 2 agents).
- Focus on a single agent for simplicity.
- Use a discretized state and action space.

Q-Learning Components:

Component	Details
State space	Discrete representation of the environment (position, direction)
Action space	<code>env.action_space[0]</code> for agent 0 (usually 5 actions)
Q-table	<code>Q[state][action]</code> values
Policy	ϵ -greedy
Learning loop	Agent selects \rightarrow acts \rightarrow updates Q

Step 2: Implementation (Q-Learning Core)

```
In [8]: import numpy as np
import random
import matplotlib.pyplot as plt
from collections import defaultdict

# Step 1: Define environment with reward shaping
class MoveToGoalEnv:
    def __init__(self, grid_size=(10, 10), goal=(9, 9), obstacles=None):
        self.grid_size = grid_size
        self.goal = goal
        self.start = (0, 0)
        self.position = self.start
        self.actions = ['up', 'down', 'left', 'right']
        self.obstacles = obstacles if obstacles else []

    def reset(self):
        self.position = self.start
        return self.position
```

```

def manhattan(self, p1, p2):
    return abs(p1[0] - p2[0]) + abs(p1[1] - p2[1])

def step(self, action):
    x, y = self.position
    old_distance = self.manhattan(self.position, self.goal)

    if action == 'up':
        x -= 1
    elif action == 'down':
        x += 1
    elif action == 'left':
        y -= 1
    elif action == 'right':
        y += 1

    new_pos = (x, y)

    # Check boundaries
    if not (0 <= x < self.grid_size[0] and 0 <= y < self.grid_size[1]):
        return self.position, -10, True # Invalid move

    # Check obstacle
    if new_pos in self.obstacles:
        return self.position, -10, True # Collision

    # Check if goal reached
    if new_pos == self.goal:
        self.position = new_pos
        return self.position, +10, True

    # Update position and apply shaping
    self.position = new_pos
    new_distance = self.manhattan(self.position, self.goal)

    reward = -1
    if new_distance < old_distance:
        reward += 0.5 # reward for moving closer

    return self.position, reward, False

```

Step 3: Define Obstacles and Initialize Environment

```

In [9]: # Step 2: Initialize Environment
env = MoveToGoalEnv(
    grid_size=(10, 10),
    goal=(9, 9),
    obstacles=[(2, 2), (3, 3), (4, 4), (5, 5)]
)

```

Step 4: Q-Learning Training Loop

```

In [10]: Q = defaultdict(lambda: np.zeros(len(env.actions)))
alpha = 0.1
gamma = 0.9
epsilon = 1.0
min_epsilon = 0.1
epsilon_decay = 0.995
episodes = 5000
total_rewards = []

# Step 3: Training Loop
for episode in range(episodes):
    state = env.reset()
    total_reward = 0
    done = False

    while not done:
        if random.random() < epsilon:
            action_idx = random.randint(0, len(env.actions) - 1)
        else:
            action_idx = np.argmax(Q[state])

        next_state, reward, done = env.step(env.actions[action_idx])
        total_reward += reward

        Q[state][action_idx] += alpha * (
            reward + gamma * np.max(Q[next_state]) - Q[state][action_idx]
        )

        state = next_state

```



```
epsilon = max(min_epsilon, epsilon * epsilon_decay)
total_rewards.append(total_reward)
```

```
print(f"Episode {episode + 1} | Total Reward: {total_reward:.2f} | Epsilon: {epsilon:.3f}")
```

Episode 1	Total Reward: -11.50	Epsilon: 0.995
Episode 2	Total Reward: -10.00	Epsilon: 0.990
Episode 3	Total Reward: -10.00	Epsilon: 0.985
Episode 4	Total Reward: -12.00	Epsilon: 0.980
Episode 5	Total Reward: -11.00	Epsilon: 0.975
Episode 6	Total Reward: -13.00	Epsilon: 0.970
Episode 7	Total Reward: -10.00	Epsilon: 0.966
Episode 8	Total Reward: -10.00	Epsilon: 0.961
Episode 9	Total Reward: -11.50	Epsilon: 0.956
Episode 10	Total Reward: -10.00	Epsilon: 0.951
Episode 11	Total Reward: -10.00	Epsilon: 0.946
Episode 12	Total Reward: -10.50	Epsilon: 0.942
Episode 13	Total Reward: -10.00	Epsilon: 0.937
Episode 14	Total Reward: -12.00	Epsilon: 0.932
Episode 15	Total Reward: -11.50	Epsilon: 0.928
Episode 16	Total Reward: -10.00	Epsilon: 0.923
Episode 17	Total Reward: -10.00	Epsilon: 0.918
Episode 18	Total Reward: -10.00	Epsilon: 0.914
Episode 19	Total Reward: -12.00	Epsilon: 0.909
Episode 20	Total Reward: -10.50	Epsilon: 0.905
Episode 21	Total Reward: -10.00	Epsilon: 0.900
Episode 22	Total Reward: -11.50	Epsilon: 0.896
Episode 23	Total Reward: -10.00	Epsilon: 0.891
Episode 24	Total Reward: -14.50	Epsilon: 0.887
Episode 25	Total Reward: -11.00	Epsilon: 0.882
Episode 26	Total Reward: -13.50	Epsilon: 0.878
Episode 27	Total Reward: -10.00	Epsilon: 0.873
Episode 28	Total Reward: -10.50	Epsilon: 0.869
Episode 29	Total Reward: -12.00	Epsilon: 0.865
Episode 30	Total Reward: -16.50	Epsilon: 0.860
Episode 31	Total Reward: -10.00	Epsilon: 0.856
Episode 32	Total Reward: -10.00	Epsilon: 0.852
Episode 33	Total Reward: -10.00	Epsilon: 0.848
Episode 34	Total Reward: -11.00	Epsilon: 0.843
Episode 35	Total Reward: -10.50	Epsilon: 0.839
Episode 36	Total Reward: -14.50	Epsilon: 0.835
Episode 37	Total Reward: -26.00	Epsilon: 0.831
Episode 38	Total Reward: -17.00	Epsilon: 0.827
Episode 39	Total Reward: -10.00	Epsilon: 0.822
Episode 40	Total Reward: -10.00	Epsilon: 0.818
Episode 41	Total Reward: -10.00	Epsilon: 0.814
Episode 42	Total Reward: -10.00	Epsilon: 0.810
Episode 43	Total Reward: -15.00	Epsilon: 0.806
Episode 44	Total Reward: -10.00	Epsilon: 0.802
Episode 45	Total Reward: -22.00	Epsilon: 0.798
Episode 46	Total Reward: -10.00	Epsilon: 0.794
Episode 47	Total Reward: -11.50	Epsilon: 0.790
Episode 48	Total Reward: -12.50	Epsilon: 0.786
Episode 49	Total Reward: -10.00	Epsilon: 0.782
Episode 50	Total Reward: -12.00	Epsilon: 0.778
Episode 51	Total Reward: -12.00	Epsilon: 0.774
Episode 52	Total Reward: -10.00	Epsilon: 0.771
Episode 53	Total Reward: -10.00	Epsilon: 0.767
Episode 54	Total Reward: -20.00	Epsilon: 0.763
Episode 55	Total Reward: -10.00	Epsilon: 0.759
Episode 56	Total Reward: -13.00	Epsilon: 0.755
Episode 57	Total Reward: -14.00	Epsilon: 0.751
Episode 58	Total Reward: -13.00	Epsilon: 0.748
Episode 59	Total Reward: -21.50	Epsilon: 0.744
Episode 60	Total Reward: -12.50	Epsilon: 0.740
Episode 61	Total Reward: -10.50	Epsilon: 0.737
Episode 62	Total Reward: -23.50	Epsilon: 0.733
Episode 63	Total Reward: -13.50	Epsilon: 0.729
Episode 64	Total Reward: -17.50	Epsilon: 0.726
Episode 65	Total Reward: -14.50	Epsilon: 0.722
Episode 66	Total Reward: -24.50	Epsilon: 0.718
Episode 67	Total Reward: -10.00	Epsilon: 0.715
Episode 68	Total Reward: -11.50	Epsilon: 0.711
Episode 69	Total Reward: -14.00	Epsilon: 0.708
Episode 70	Total Reward: -11.00	Epsilon: 0.704
Episode 71	Total Reward: -10.50	Epsilon: 0.701
Episode 72	Total Reward: -10.50	Epsilon: 0.697
Episode 73	Total Reward: -14.50	Epsilon: 0.694
Episode 74	Total Reward: -10.00	Epsilon: 0.690
Episode 75	Total Reward: -14.50	Epsilon: 0.687
Episode 76	Total Reward: -14.00	Epsilon: 0.683
Episode 77	Total Reward: -12.50	Epsilon: 0.680
Episode 78	Total Reward: -10.00	Epsilon: 0.676

Episode 79	Total Reward: -13.50	Epsilon: 0.673
Episode 80	Total Reward: -10.50	Epsilon: 0.670
Episode 81	Total Reward: -18.00	Epsilon: 0.666
Episode 82	Total Reward: -10.00	Epsilon: 0.663
Episode 83	Total Reward: -10.00	Epsilon: 0.660
Episode 84	Total Reward: -10.00	Epsilon: 0.656
Episode 85	Total Reward: -13.00	Epsilon: 0.653
Episode 86	Total Reward: -10.00	Epsilon: 0.650
Episode 87	Total Reward: -18.50	Epsilon: 0.647
Episode 88	Total Reward: -25.50	Epsilon: 0.643
Episode 89	Total Reward: -24.00	Epsilon: 0.640
Episode 90	Total Reward: -10.00	Epsilon: 0.637
Episode 91	Total Reward: -10.50	Epsilon: 0.634
Episode 92	Total Reward: -10.00	Epsilon: 0.631
Episode 93	Total Reward: -13.00	Epsilon: 0.627
Episode 94	Total Reward: -11.50	Epsilon: 0.624
Episode 95	Total Reward: -11.00	Epsilon: 0.621
Episode 96	Total Reward: -18.50	Epsilon: 0.618
Episode 97	Total Reward: -19.50	Epsilon: 0.615
Episode 98	Total Reward: -11.00	Epsilon: 0.612
Episode 99	Total Reward: -12.50	Epsilon: 0.609
Episode 100	Total Reward: -11.50	Epsilon: 0.606
Episode 101	Total Reward: -23.00	Epsilon: 0.603
Episode 102	Total Reward: -15.50	Epsilon: 0.600
Episode 103	Total Reward: -12.50	Epsilon: 0.597
Episode 104	Total Reward: -10.50	Epsilon: 0.594
Episode 105	Total Reward: -11.50	Epsilon: 0.591
Episode 106	Total Reward: -10.00	Epsilon: 0.588
Episode 107	Total Reward: -13.50	Epsilon: 0.585
Episode 108	Total Reward: -24.00	Epsilon: 0.582
Episode 109	Total Reward: -10.50	Epsilon: 0.579
Episode 110	Total Reward: -10.00	Epsilon: 0.576
Episode 111	Total Reward: -10.50	Epsilon: 0.573
Episode 112	Total Reward: -12.00	Epsilon: 0.570
Episode 113	Total Reward: -10.00	Epsilon: 0.568
Episode 114	Total Reward: -11.50	Epsilon: 0.565
Episode 115	Total Reward: -10.50	Epsilon: 0.562
Episode 116	Total Reward: -10.00	Epsilon: 0.559
Episode 117	Total Reward: -11.50	Epsilon: 0.556
Episode 118	Total Reward: -40.50	Epsilon: 0.554
Episode 119	Total Reward: -12.50	Epsilon: 0.551
Episode 120	Total Reward: -10.00	Epsilon: 0.548
Episode 121	Total Reward: -10.00	Epsilon: 0.545
Episode 122	Total Reward: -15.50	Epsilon: 0.543
Episode 123	Total Reward: -10.00	Epsilon: 0.540
Episode 124	Total Reward: -10.00	Epsilon: 0.537
Episode 125	Total Reward: -10.00	Epsilon: 0.534
Episode 126	Total Reward: -10.50	Epsilon: 0.532
Episode 127	Total Reward: -19.00	Epsilon: 0.529
Episode 128	Total Reward: -13.50	Epsilon: 0.526
Episode 129	Total Reward: -17.50	Epsilon: 0.524
Episode 130	Total Reward: -10.00	Epsilon: 0.521
Episode 131	Total Reward: -17.00	Epsilon: 0.519
Episode 132	Total Reward: -17.50	Epsilon: 0.516
Episode 133	Total Reward: -29.00	Epsilon: 0.513
Episode 134	Total Reward: -11.50	Epsilon: 0.511
Episode 135	Total Reward: -10.00	Epsilon: 0.508
Episode 136	Total Reward: -24.50	Epsilon: 0.506
Episode 137	Total Reward: -49.50	Epsilon: 0.503
Episode 138	Total Reward: -30.50	Epsilon: 0.501
Episode 139	Total Reward: -14.00	Epsilon: 0.498
Episode 140	Total Reward: -14.50	Epsilon: 0.496
Episode 141	Total Reward: -10.00	Epsilon: 0.493
Episode 142	Total Reward: -12.50	Epsilon: 0.491
Episode 143	Total Reward: -16.50	Epsilon: 0.488
Episode 144	Total Reward: -27.00	Epsilon: 0.486
Episode 145	Total Reward: -49.00	Epsilon: 0.483
Episode 146	Total Reward: -13.00	Epsilon: 0.481
Episode 147	Total Reward: -10.00	Epsilon: 0.479
Episode 148	Total Reward: -15.00	Epsilon: 0.476
Episode 149	Total Reward: -14.50	Epsilon: 0.474
Episode 150	Total Reward: -34.00	Epsilon: 0.471
Episode 151	Total Reward: -13.00	Epsilon: 0.469
Episode 152	Total Reward: -12.50	Epsilon: 0.467
Episode 153	Total Reward: -15.00	Epsilon: 0.464
Episode 154	Total Reward: -10.00	Epsilon: 0.462
Episode 155	Total Reward: -13.50	Epsilon: 0.460
Episode 156	Total Reward: -10.00	Epsilon: 0.458
Episode 157	Total Reward: -20.00	Epsilon: 0.455
Episode 158	Total Reward: -12.00	Epsilon: 0.453
Episode 159	Total Reward: -10.50	Epsilon: 0.451
Episode 160	Total Reward: -10.00	Epsilon: 0.448
Episode 161	Total Reward: -10.00	Epsilon: 0.446

Episode 162	Total Reward: -10.50	Epsilon: 0.444
Episode 163	Total Reward: -11.50	Epsilon: 0.442
Episode 164	Total Reward: -44.00	Epsilon: 0.440
Episode 165	Total Reward: -11.00	Epsilon: 0.437
Episode 166	Total Reward: -15.50	Epsilon: 0.435
Episode 167	Total Reward: -12.50	Epsilon: 0.433
Episode 168	Total Reward: -10.00	Epsilon: 0.431
Episode 169	Total Reward: -18.00	Epsilon: 0.429
Episode 170	Total Reward: -10.00	Epsilon: 0.427
Episode 171	Total Reward: -16.50	Epsilon: 0.424
Episode 172	Total Reward: -11.00	Epsilon: 0.422
Episode 173	Total Reward: -11.50	Epsilon: 0.420
Episode 174	Total Reward: -10.50	Epsilon: 0.418
Episode 175	Total Reward: -32.00	Epsilon: 0.416
Episode 176	Total Reward: -10.00	Epsilon: 0.414
Episode 177	Total Reward: -14.00	Epsilon: 0.412
Episode 178	Total Reward: -20.50	Epsilon: 0.410
Episode 179	Total Reward: -16.00	Epsilon: 0.408
Episode 180	Total Reward: -18.50	Epsilon: 0.406
Episode 181	Total Reward: -25.00	Epsilon: 0.404
Episode 182	Total Reward: -13.00	Epsilon: 0.402
Episode 183	Total Reward: -42.00	Epsilon: 0.400
Episode 184	Total Reward: -10.00	Epsilon: 0.398
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Episode 186	Total Reward: -12.50	Epsilon: 0.394
Episode 187	Total Reward: -16.00	Epsilon: 0.392
Episode 188	Total Reward: -10.00	Epsilon: 0.390
Episode 189	Total Reward: -10.00	Epsilon: 0.388
Episode 190	Total Reward: -26.00	Epsilon: 0.386
Episode 191	Total Reward: -17.50	Epsilon: 0.384
Episode 192	Total Reward: -10.50	Epsilon: 0.382
Episode 193	Total Reward: -10.50	Epsilon: 0.380
Episode 194	Total Reward: -25.00	Epsilon: 0.378
Episode 195	Total Reward: -17.00	Epsilon: 0.376
Episode 196	Total Reward: -10.00	Epsilon: 0.374
Episode 197	Total Reward: -10.00	Epsilon: 0.373
Episode 198	Total Reward: -14.00	Epsilon: 0.371
Episode 199	Total Reward: -22.00	Epsilon: 0.369
Episode 200	Total Reward: -10.50	Epsilon: 0.367
Episode 201	Total Reward: -22.00	Epsilon: 0.365
Episode 202	Total Reward: -14.00	Epsilon: 0.363
Episode 203	Total Reward: -13.00	Epsilon: 0.361
Episode 204	Total Reward: -10.00	Epsilon: 0.360
Episode 205	Total Reward: -12.50	Epsilon: 0.358
Episode 206	Total Reward: -10.00	Epsilon: 0.356
Episode 207	Total Reward: -19.00	Epsilon: 0.354
Episode 208	Total Reward: -11.00	Epsilon: 0.353
Episode 209	Total Reward: -34.00	Epsilon: 0.351
Episode 210	Total Reward: -10.00	Epsilon: 0.349
Episode 211	Total Reward: -23.00	Epsilon: 0.347
Episode 212	Total Reward: -26.00	Epsilon: 0.346
Episode 213	Total Reward: -49.00	Epsilon: 0.344
Episode 214	Total Reward: -49.50	Epsilon: 0.342
Episode 215	Total Reward: -11.00	Epsilon: 0.340
Episode 216	Total Reward: -10.00	Epsilon: 0.339
Episode 217	Total Reward: -20.00	Epsilon: 0.337
Episode 218	Total Reward: -10.00	Epsilon: 0.335
Episode 219	Total Reward: -22.50	Epsilon: 0.334
Episode 220	Total Reward: -10.00	Epsilon: 0.332
Episode 221	Total Reward: -10.50	Epsilon: 0.330
Episode 222	Total Reward: -13.00	Epsilon: 0.329
Episode 223	Total Reward: -15.50	Epsilon: 0.327
Episode 224	Total Reward: -13.00	Epsilon: 0.325
Episode 225	Total Reward: -33.00	Epsilon: 0.324
Episode 226	Total Reward: -30.00	Epsilon: 0.322
Episode 227	Total Reward: -20.00	Epsilon: 0.321
Episode 228	Total Reward: -21.00	Epsilon: 0.319
Episode 229	Total Reward: -6.00	Epsilon: 0.317
Episode 230	Total Reward: -10.50	Epsilon: 0.316
Episode 231	Total Reward: -29.00	Epsilon: 0.314
Episode 232	Total Reward: -9.00	Epsilon: 0.313
Episode 233	Total Reward: -16.50	Epsilon: 0.311
Episode 234	Total Reward: -24.50	Epsilon: 0.309
Episode 235	Total Reward: -23.50	Epsilon: 0.308
Episode 236	Total Reward: -12.50	Epsilon: 0.306
Episode 237	Total Reward: -24.00	Epsilon: 0.305
Episode 238	Total Reward: -22.50	Epsilon: 0.303
Episode 239	Total Reward: -10.50	Epsilon: 0.302
Episode 240	Total Reward: -9.00	Epsilon: 0.300
Episode 241	Total Reward: -11.50	Epsilon: 0.299
Episode 242	Total Reward: -9.00	Epsilon: 0.297
Episode 243	Total Reward: -11.00	Epsilon: 0.296
Episode 244	Total Reward: -16.00	Epsilon: 0.294

Episode 245	Total Reward: -38.50	Epsilon: 0.293
Episode 246	Total Reward: -28.50	Epsilon: 0.291
Episode 247	Total Reward: -16.00	Epsilon: 0.290
Episode 248	Total Reward: -6.00	Epsilon: 0.288
Episode 249	Total Reward: -34.00	Epsilon: 0.287
Episode 250	Total Reward: -11.00	Epsilon: 0.286
Episode 251	Total Reward: -35.50	Epsilon: 0.284
Episode 252	Total Reward: -14.00	Epsilon: 0.283
Episode 253	Total Reward: -11.50	Epsilon: 0.281
Episode 254	Total Reward: -17.50	Epsilon: 0.280
Episode 255	Total Reward: -11.50	Epsilon: 0.279
Episode 256	Total Reward: -17.00	Epsilon: 0.277
Episode 257	Total Reward: -10.00	Epsilon: 0.276
Episode 258	Total Reward: -11.50	Epsilon: 0.274
Episode 259	Total Reward: -11.50	Epsilon: 0.273
Episode 260	Total Reward: -23.00	Epsilon: 0.272
Episode 261	Total Reward: -16.00	Epsilon: 0.270
Episode 262	Total Reward: -13.50	Epsilon: 0.269
Episode 263	Total Reward: -22.50	Epsilon: 0.268
Episode 264	Total Reward: -31.00	Epsilon: 0.266
Episode 265	Total Reward: -12.50	Epsilon: 0.265
Episode 266	Total Reward: -20.00	Epsilon: 0.264
Episode 267	Total Reward: -10.00	Epsilon: 0.262
Episode 268	Total Reward: -48.00	Epsilon: 0.261
Episode 269	Total Reward: -10.00	Epsilon: 0.260
Episode 270	Total Reward: -15.50	Epsilon: 0.258
Episode 271	Total Reward: -11.00	Epsilon: 0.257
Episode 272	Total Reward: -11.50	Epsilon: 0.256
Episode 273	Total Reward: -27.50	Epsilon: 0.255
Episode 274	Total Reward: -7.50	Epsilon: 0.253
Episode 275	Total Reward: -3.00	Epsilon: 0.252
Episode 276	Total Reward: -11.00	Epsilon: 0.251
Episode 277	Total Reward: -25.50	Epsilon: 0.249
Episode 278	Total Reward: -12.50	Epsilon: 0.248
Episode 279	Total Reward: -29.00	Epsilon: 0.247
Episode 280	Total Reward: -27.00	Epsilon: 0.246
Episode 281	Total Reward: -15.00	Epsilon: 0.245
Episode 282	Total Reward: -15.00	Epsilon: 0.243
Episode 283	Total Reward: -21.00	Epsilon: 0.242
Episode 284	Total Reward: -31.00	Epsilon: 0.241
Episode 285	Total Reward: 0.00	Epsilon: 0.240
Episode 286	Total Reward: -9.00	Epsilon: 0.238
Episode 287	Total Reward: -11.50	Epsilon: 0.237
Episode 288	Total Reward: -10.50	Epsilon: 0.236
Episode 289	Total Reward: -25.50	Epsilon: 0.235
Episode 290	Total Reward: -16.50	Epsilon: 0.234
Episode 291	Total Reward: -7.50	Epsilon: 0.233
Episode 292	Total Reward: -27.50	Epsilon: 0.231
Episode 293	Total Reward: -19.00	Epsilon: 0.230
Episode 294	Total Reward: -22.50	Epsilon: 0.229
Episode 295	Total Reward: -21.00	Epsilon: 0.228
Episode 296	Total Reward: -13.50	Epsilon: 0.227
Episode 297	Total Reward: -35.50	Epsilon: 0.226
Episode 298	Total Reward: -12.50	Epsilon: 0.225
Episode 299	Total Reward: -3.00	Epsilon: 0.223
Episode 300	Total Reward: -3.00	Epsilon: 0.222
Episode 301	Total Reward: -1.50	Epsilon: 0.221
Episode 302	Total Reward: -12.00	Epsilon: 0.220
Episode 303	Total Reward: -10.00	Epsilon: 0.219
Episode 304	Total Reward: -12.00	Epsilon: 0.218
Episode 305	Total Reward: -23.50	Epsilon: 0.217
Episode 306	Total Reward: -9.00	Epsilon: 0.216
Episode 307	Total Reward: -33.50	Epsilon: 0.215
Episode 308	Total Reward: -11.50	Epsilon: 0.214
Episode 309	Total Reward: -10.50	Epsilon: 0.212
Episode 310	Total Reward: -3.00	Epsilon: 0.211
Episode 311	Total Reward: -31.50	Epsilon: 0.210
Episode 312	Total Reward: -10.50	Epsilon: 0.209
Episode 313	Total Reward: -18.00	Epsilon: 0.208
Episode 314	Total Reward: -10.00	Epsilon: 0.207
Episode 315	Total Reward: -10.00	Epsilon: 0.206
Episode 316	Total Reward: -10.50	Epsilon: 0.205
Episode 317	Total Reward: -7.50	Epsilon: 0.204
Episode 318	Total Reward: -12.00	Epsilon: 0.203
Episode 319	Total Reward: 0.00	Epsilon: 0.202
Episode 320	Total Reward: -10.00	Epsilon: 0.201
Episode 321	Total Reward: -13.50	Epsilon: 0.200
Episode 322	Total Reward: -12.50	Epsilon: 0.199
Episode 323	Total Reward: -10.50	Epsilon: 0.198
Episode 324	Total Reward: -19.50	Epsilon: 0.197
Episode 325	Total Reward: -23.50	Epsilon: 0.196
Episode 326	Total Reward: -30.00	Epsilon: 0.195
Episode 327	Total Reward: -10.50	Epsilon: 0.194

Episode 328	Total Reward: -23.00	Epsilon: 0.193
Episode 329	Total Reward: -6.00	Epsilon: 0.192
Episode 330	Total Reward: -3.00	Epsilon: 0.191
Episode 331	Total Reward: -6.00	Epsilon: 0.190
Episode 332	Total Reward: -13.00	Epsilon: 0.189
Episode 333	Total Reward: -12.00	Epsilon: 0.188
Episode 334	Total Reward: -23.50	Epsilon: 0.187
Episode 335	Total Reward: -10.00	Epsilon: 0.187
Episode 336	Total Reward: -18.00	Epsilon: 0.186
Episode 337	Total Reward: -10.00	Epsilon: 0.185
Episode 338	Total Reward: -19.00	Epsilon: 0.184
Episode 339	Total Reward: -24.00	Epsilon: 0.183
Episode 340	Total Reward: -22.50	Epsilon: 0.182
Episode 341	Total Reward: -10.50	Epsilon: 0.181
Episode 342	Total Reward: -10.00	Epsilon: 0.180
Episode 343	Total Reward: -28.50	Epsilon: 0.179
Episode 344	Total Reward: -18.00	Epsilon: 0.178
Episode 345	Total Reward: -10.50	Epsilon: 0.177
Episode 346	Total Reward: -10.50	Epsilon: 0.177
Episode 347	Total Reward: -13.50	Epsilon: 0.176
Episode 348	Total Reward: 0.00	Epsilon: 0.175
Episode 349	Total Reward: -33.00	Epsilon: 0.174
Episode 350	Total Reward: -11.00	Epsilon: 0.173
Episode 351	Total Reward: -19.50	Epsilon: 0.172
Episode 352	Total Reward: -14.00	Epsilon: 0.171
Episode 353	Total Reward: -1.50	Epsilon: 0.170
Episode 354	Total Reward: -4.50	Epsilon: 0.170
Episode 355	Total Reward: -9.00	Epsilon: 0.169
Episode 356	Total Reward: -1.50	Epsilon: 0.168
Episode 357	Total Reward: -1.50	Epsilon: 0.167
Episode 358	Total Reward: -9.00	Epsilon: 0.166
Episode 359	Total Reward: -10.50	Epsilon: 0.165
Episode 360	Total Reward: -10.00	Epsilon: 0.165
Episode 361	Total Reward: -4.50	Epsilon: 0.164
Episode 362	Total Reward: -15.50	Epsilon: 0.163
Episode 363	Total Reward: -13.50	Epsilon: 0.162
Episode 364	Total Reward: -11.00	Epsilon: 0.161
Episode 365	Total Reward: -4.50	Epsilon: 0.160
Episode 366	Total Reward: -31.50	Epsilon: 0.160
Episode 367	Total Reward: -16.00	Epsilon: 0.159
Episode 368	Total Reward: -14.00	Epsilon: 0.158
Episode 369	Total Reward: -16.50	Epsilon: 0.157
Episode 370	Total Reward: -3.00	Epsilon: 0.157
Episode 371	Total Reward: -4.50	Epsilon: 0.156
Episode 372	Total Reward: -10.00	Epsilon: 0.155
Episode 373	Total Reward: -12.50	Epsilon: 0.154
Episode 374	Total Reward: -16.50	Epsilon: 0.153
Episode 375	Total Reward: -27.50	Epsilon: 0.153
Episode 376	Total Reward: -3.00	Epsilon: 0.152
Episode 377	Total Reward: -28.00	Epsilon: 0.151
Episode 378	Total Reward: -25.50	Epsilon: 0.150
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Episode 382	Total Reward: -37.50	Epsilon: 0.147
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Episode 384	Total Reward: 0.00	Epsilon: 0.146
Episode 385	Total Reward: -15.00	Epsilon: 0.145
Episode 386	Total Reward: -10.50	Epsilon: 0.144
Episode 387	Total Reward: -15.00	Epsilon: 0.144
Episode 388	Total Reward: -29.00	Epsilon: 0.143
Episode 389	Total Reward: -12.50	Epsilon: 0.142
Episode 390	Total Reward: -19.00	Epsilon: 0.142
Episode 391	Total Reward: -15.00	Epsilon: 0.141
Episode 392	Total Reward: -3.00	Epsilon: 0.140
Episode 393	Total Reward: -17.00	Epsilon: 0.139
Episode 394	Total Reward: -10.50	Epsilon: 0.139
Episode 395	Total Reward: -11.50	Epsilon: 0.138
Episode 396	Total Reward: -10.00	Epsilon: 0.137
Episode 397	Total Reward: -27.00	Epsilon: 0.137
Episode 398	Total Reward: -28.50	Epsilon: 0.136
Episode 399	Total Reward: -4.50	Epsilon: 0.135
Episode 400	Total Reward: -9.00	Epsilon: 0.135
Episode 401	Total Reward: -10.50	Epsilon: 0.134
Episode 402	Total Reward: -3.00	Epsilon: 0.133
Episode 403	Total Reward: -13.50	Epsilon: 0.133
Episode 404	Total Reward: 1.50	Epsilon: 0.132
Episode 405	Total Reward: 1.50	Epsilon: 0.131
Episode 406	Total Reward: -4.50	Epsilon: 0.131
Episode 407	Total Reward: -15.00	Epsilon: 0.130
Episode 408	Total Reward: -12.00	Epsilon: 0.129
Episode 409	Total Reward: -15.50	Epsilon: 0.129
Episode 410	Total Reward: -1.50	Epsilon: 0.128

Episode 411		Total Reward: -10.00		Epsilon: 0.127
Episode 412		Total Reward: -7.50		Epsilon: 0.127
Episode 413		Total Reward: -22.00		Epsilon: 0.126
Episode 414		Total Reward: -22.50		Epsilon: 0.126
Episode 415		Total Reward: -17.00		Epsilon: 0.125
Episode 416		Total Reward: 1.50		Epsilon: 0.124
Episode 417		Total Reward: -21.50		Epsilon: 0.124
Episode 418		Total Reward: -7.50		Epsilon: 0.123
Episode 419		Total Reward: 0.00		Epsilon: 0.122
Episode 420		Total Reward: -14.50		Epsilon: 0.122
Episode 421		Total Reward: -10.00		Epsilon: 0.121
Episode 422		Total Reward: -24.50		Epsilon: 0.121
Episode 423		Total Reward: -7.50		Epsilon: 0.120
Episode 424		Total Reward: -13.50		Epsilon: 0.119
Episode 425		Total Reward: -6.00		Epsilon: 0.119
Episode 426		Total Reward: -10.50		Epsilon: 0.118
Episode 427		Total Reward: 0.00		Epsilon: 0.118
Episode 428		Total Reward: -18.50		Epsilon: 0.117
Episode 429		Total Reward: -23.00		Epsilon: 0.116
Episode 430		Total Reward: 1.50		Epsilon: 0.116
Episode 431		Total Reward: -26.50		Epsilon: 0.115
Episode 432		Total Reward: -12.00		Epsilon: 0.115
Episode 433		Total Reward: -13.00		Epsilon: 0.114
Episode 434		Total Reward: -13.50		Epsilon: 0.114
Episode 435		Total Reward: -12.00		Epsilon: 0.113
Episode 436		Total Reward: -18.00		Epsilon: 0.112
Episode 437		Total Reward: -1.50		Epsilon: 0.112
Episode 438		Total Reward: -6.00		Epsilon: 0.111
Episode 439		Total Reward: -13.00		Epsilon: 0.111
Episode 440		Total Reward: -10.50		Epsilon: 0.110
Episode 441		Total Reward: 0.00		Epsilon: 0.110
Episode 442		Total Reward: -10.00		Epsilon: 0.109
Episode 443		Total Reward: -13.50		Epsilon: 0.109
Episode 444		Total Reward: -16.50		Epsilon: 0.108
Episode 445		Total Reward: -10.00		Epsilon: 0.107
Episode 446		Total Reward: -4.50		Epsilon: 0.107
Episode 447		Total Reward: -1.50		Epsilon: 0.106
Episode 448		Total Reward: 1.50		Epsilon: 0.106
Episode 449		Total Reward: -10.50		Epsilon: 0.105
Episode 450		Total Reward: -6.00		Epsilon: 0.105
Episode 451		Total Reward: 1.50		Epsilon: 0.104
Episode 452		Total Reward: -19.50		Epsilon: 0.104
Episode 453		Total Reward: -10.50		Epsilon: 0.103
Episode 454		Total Reward: -3.00		Epsilon: 0.103
Episode 455		Total Reward: -12.50		Epsilon: 0.102
Episode 456		Total Reward: -7.50		Epsilon: 0.102
Episode 457		Total Reward: -4.50		Epsilon: 0.101
Episode 458		Total Reward: -7.50		Epsilon: 0.101
Episode 459		Total Reward: -4.50		Epsilon: 0.100
Episode 460		Total Reward: 0.00		Epsilon: 0.100
Episode 461		Total Reward: -6.00		Epsilon: 0.100
Episode 462		Total Reward: -16.00		Epsilon: 0.100
Episode 463		Total Reward: -3.00		Epsilon: 0.100
Episode 464		Total Reward: -6.00		Epsilon: 0.100
Episode 465		Total Reward: -7.50		Epsilon: 0.100
Episode 466		Total Reward: -1.50		Epsilon: 0.100
Episode 467		Total Reward: -1.50		Epsilon: 0.100
Episode 468		Total Reward: -13.50		Epsilon: 0.100
Episode 469		Total Reward: -34.50		Epsilon: 0.100
Episode 470		Total Reward: -20.00		Epsilon: 0.100
Episode 471		Total Reward: 1.50		Epsilon: 0.100
Episode 472		Total Reward: -1.50		Epsilon: 0.100
Episode 473		Total Reward: -11.50		Epsilon: 0.100
Episode 474		Total Reward: -7.50		Epsilon: 0.100
Episode 475		Total Reward: 1.50		Epsilon: 0.100
Episode 476		Total Reward: -7.50		Epsilon: 0.100
Episode 477		Total Reward: -7.50		Epsilon: 0.100
Episode 478		Total Reward: -1.50		Epsilon: 0.100
Episode 479		Total Reward: -22.00		Epsilon: 0.100
Episode 480		Total Reward: -24.00		Epsilon: 0.100
Episode 481		Total Reward: -12.00		Epsilon: 0.100
Episode 482		Total Reward: -1.50		Epsilon: 0.100
Episode 483		Total Reward: -20.00		Epsilon: 0.100
Episode 484		Total Reward: -11.50		Epsilon: 0.100
Episode 485		Total Reward: 0.00		Epsilon: 0.100
Episode 486		Total Reward: -13.00		Epsilon: 0.100
Episode 487		Total Reward: -13.50		Epsilon: 0.100
Episode 488		Total Reward: -3.00		Epsilon: 0.100
Episode 489		Total Reward: 0.00		Epsilon: 0.100
Episode 490		Total Reward: -4.50		Epsilon: 0.100
Episode 491		Total Reward: -7.50		Epsilon: 0.100
Episode 492		Total Reward: -16.50		Epsilon: 0.100
Episode 493		Total Reward: -24.50		Epsilon: 0.100

Episode 494		Total Reward: -12.50		Epsilon: 0.100
Episode 495		Total Reward: -17.50		Epsilon: 0.100
Episode 496		Total Reward: -9.00		Epsilon: 0.100
Episode 497		Total Reward: -7.50		Epsilon: 0.100
Episode 498		Total Reward: -6.00		Epsilon: 0.100
Episode 499		Total Reward: -3.00		Epsilon: 0.100
Episode 500		Total Reward: -1.50		Epsilon: 0.100
Episode 501		Total Reward: -1.50		Epsilon: 0.100
Episode 502		Total Reward: -20.50		Epsilon: 0.100
Episode 503		Total Reward: -16.50		Epsilon: 0.100
Episode 504		Total Reward: -6.00		Epsilon: 0.100
Episode 505		Total Reward: -6.00		Epsilon: 0.100
Episode 506		Total Reward: -17.50		Epsilon: 0.100
Episode 507		Total Reward: -16.50		Epsilon: 0.100
Episode 508		Total Reward: -11.00		Epsilon: 0.100
Episode 509		Total Reward: -10.00		Epsilon: 0.100
Episode 510		Total Reward: -12.00		Epsilon: 0.100
Episode 511		Total Reward: 1.50		Epsilon: 0.100
Episode 512		Total Reward: -3.00		Epsilon: 0.100
Episode 513		Total Reward: -23.00		Epsilon: 0.100
Episode 514		Total Reward: -10.50		Epsilon: 0.100
Episode 515		Total Reward: -13.50		Epsilon: 0.100
Episode 516		Total Reward: 0.00		Epsilon: 0.100
Episode 517		Total Reward: -19.00		Epsilon: 0.100
Episode 518		Total Reward: -13.50		Epsilon: 0.100
Episode 519		Total Reward: -4.50		Epsilon: 0.100
Episode 520		Total Reward: -4.50		Epsilon: 0.100
Episode 521		Total Reward: -1.50		Epsilon: 0.100
Episode 522		Total Reward: -10.50		Epsilon: 0.100
Episode 523		Total Reward: -1.50		Epsilon: 0.100
Episode 524		Total Reward: -20.00		Epsilon: 0.100
Episode 525		Total Reward: -31.50		Epsilon: 0.100
Episode 526		Total Reward: -3.00		Epsilon: 0.100
Episode 527		Total Reward: 0.00		Epsilon: 0.100
Episode 528		Total Reward: 0.00		Epsilon: 0.100
Episode 529		Total Reward: -10.00		Epsilon: 0.100
Episode 530		Total Reward: 1.50		Epsilon: 0.100
Episode 531		Total Reward: -3.00		Epsilon: 0.100
Episode 532		Total Reward: -4.50		Epsilon: 0.100
Episode 533		Total Reward: -12.00		Epsilon: 0.100
Episode 534		Total Reward: -3.00		Epsilon: 0.100
Episode 535		Total Reward: 1.50		Epsilon: 0.100
Episode 536		Total Reward: -6.00		Epsilon: 0.100
Episode 537		Total Reward: -13.50		Epsilon: 0.100
Episode 538		Total Reward: -1.50		Epsilon: 0.100
Episode 539		Total Reward: -3.00		Epsilon: 0.100
Episode 540		Total Reward: -19.00		Epsilon: 0.100
Episode 541		Total Reward: -18.00		Epsilon: 0.100
Episode 542		Total Reward: -10.00		Epsilon: 0.100
Episode 543		Total Reward: -1.50		Epsilon: 0.100
Episode 544		Total Reward: -1.50		Epsilon: 0.100
Episode 545		Total Reward: -3.00		Epsilon: 0.100
Episode 546		Total Reward: 0.00		Epsilon: 0.100
Episode 547		Total Reward: -1.50		Epsilon: 0.100
Episode 548		Total Reward: -30.00		Epsilon: 0.100
Episode 549		Total Reward: -1.50		Epsilon: 0.100
Episode 550		Total Reward: -1.50		Epsilon: 0.100
Episode 551		Total Reward: -6.00		Epsilon: 0.100
Episode 552		Total Reward: -7.50		Epsilon: 0.100
Episode 553		Total Reward: -17.50		Epsilon: 0.100
Episode 554		Total Reward: -3.00		Epsilon: 0.100
Episode 555		Total Reward: -6.00		Epsilon: 0.100
Episode 556		Total Reward: -9.00		Epsilon: 0.100
Episode 557		Total Reward: -10.50		Epsilon: 0.100
Episode 558		Total Reward: -1.50		Epsilon: 0.100
Episode 559		Total Reward: 0.00		Epsilon: 0.100
Episode 560		Total Reward: -10.50		Epsilon: 0.100
Episode 561		Total Reward: 1.50		Epsilon: 0.100
Episode 562		Total Reward: -6.00		Epsilon: 0.100
Episode 563		Total Reward: -4.50		Epsilon: 0.100
Episode 564		Total Reward: -21.50		Epsilon: 0.100
Episode 565		Total Reward: 1.50		Epsilon: 0.100
Episode 566		Total Reward: -10.50		Epsilon: 0.100
Episode 567		Total Reward: 1.50		Epsilon: 0.100
Episode 568		Total Reward: -15.50		Epsilon: 0.100
Episode 569		Total Reward: 0.00		Epsilon: 0.100
Episode 570		Total Reward: -20.00		Epsilon: 0.100
Episode 571		Total Reward: -1.50		Epsilon: 0.100
Episode 572		Total Reward: -3.00		Epsilon: 0.100
Episode 573		Total Reward: -20.00		Epsilon: 0.100
Episode 574		Total Reward: -7.50		Epsilon: 0.100
Episode 575		Total Reward: 1.50		Epsilon: 0.100
Episode 576		Total Reward: -3.00		Epsilon: 0.100

Episode 577	Total Reward: -3.00	Epsilon: 0.100
Episode 578	Total Reward: -3.00	Epsilon: 0.100
Episode 579	Total Reward: 0.00	Epsilon: 0.100
Episode 580	Total Reward: -3.00	Epsilon: 0.100
Episode 581	Total Reward: -3.00	Epsilon: 0.100
Episode 582	Total Reward: 1.50	Epsilon: 0.100
Episode 583	Total Reward: 0.00	Epsilon: 0.100
Episode 584	Total Reward: 0.00	Epsilon: 0.100
Episode 585	Total Reward: -3.00	Epsilon: 0.100
Episode 586	Total Reward: -17.00	Epsilon: 0.100
Episode 587	Total Reward: 0.00	Epsilon: 0.100
Episode 588	Total Reward: 0.00	Epsilon: 0.100
Episode 589	Total Reward: 0.00	Epsilon: 0.100
Episode 590	Total Reward: -1.50	Epsilon: 0.100
Episode 591	Total Reward: -21.00	Epsilon: 0.100
Episode 592	Total Reward: -15.00	Epsilon: 0.100
Episode 593	Total Reward: 1.50	Epsilon: 0.100
Episode 594	Total Reward: -22.00	Epsilon: 0.100
Episode 595	Total Reward: -10.50	Epsilon: 0.100
Episode 596	Total Reward: -11.00	Epsilon: 0.100
Episode 597	Total Reward: -1.50	Epsilon: 0.100
Episode 598	Total Reward: -12.50	Epsilon: 0.100
Episode 599	Total Reward: -12.00	Epsilon: 0.100
Episode 600	Total Reward: -16.50	Epsilon: 0.100
Episode 601	Total Reward: -10.00	Epsilon: 0.100
Episode 602	Total Reward: -11.00	Epsilon: 0.100
Episode 603	Total Reward: -11.50	Epsilon: 0.100
Episode 604	Total Reward: -23.50	Epsilon: 0.100
Episode 605	Total Reward: -3.00	Epsilon: 0.100
Episode 606	Total Reward: -11.00	Epsilon: 0.100
Episode 607	Total Reward: -12.50	Epsilon: 0.100
Episode 608	Total Reward: 0.00	Epsilon: 0.100
Episode 609	Total Reward: -1.50	Epsilon: 0.100
Episode 610	Total Reward: 1.50	Epsilon: 0.100
Episode 611	Total Reward: 0.00	Epsilon: 0.100
Episode 612	Total Reward: 0.00	Epsilon: 0.100
Episode 613	Total Reward: 1.50	Epsilon: 0.100
Episode 614	Total Reward: -13.50	Epsilon: 0.100
Episode 615	Total Reward: 1.50	Epsilon: 0.100
Episode 616	Total Reward: -1.50	Epsilon: 0.100
Episode 617	Total Reward: -3.00	Epsilon: 0.100
Episode 618	Total Reward: -3.00	Epsilon: 0.100
Episode 619	Total Reward: -11.00	Epsilon: 0.100
Episode 620	Total Reward: -3.00	Epsilon: 0.100
Episode 621	Total Reward: -13.00	Epsilon: 0.100
Episode 622	Total Reward: 1.50	Epsilon: 0.100
Episode 623	Total Reward: 1.50	Epsilon: 0.100
Episode 624	Total Reward: -24.00	Epsilon: 0.100
Episode 625	Total Reward: -3.00	Epsilon: 0.100
Episode 626	Total Reward: 0.00	Epsilon: 0.100
Episode 627	Total Reward: -4.50	Epsilon: 0.100
Episode 628	Total Reward: -27.00	Epsilon: 0.100
Episode 629	Total Reward: -20.50	Epsilon: 0.100
Episode 630	Total Reward: 0.00	Epsilon: 0.100
Episode 631	Total Reward: -17.00	Epsilon: 0.100
Episode 632	Total Reward: -1.50	Epsilon: 0.100
Episode 633	Total Reward: -3.00	Epsilon: 0.100
Episode 634	Total Reward: -11.00	Epsilon: 0.100
Episode 635	Total Reward: 1.50	Epsilon: 0.100
Episode 636	Total Reward: -6.00	Epsilon: 0.100
Episode 637	Total Reward: -3.00	Epsilon: 0.100
Episode 638	Total Reward: 0.00	Epsilon: 0.100
Episode 639	Total Reward: -1.50	Epsilon: 0.100
Episode 640	Total Reward: 1.50	Epsilon: 0.100
Episode 641	Total Reward: -16.50	Epsilon: 0.100
Episode 642	Total Reward: -10.00	Epsilon: 0.100
Episode 643	Total Reward: -1.50	Epsilon: 0.100
Episode 644	Total Reward: 1.50	Epsilon: 0.100
Episode 645	Total Reward: 0.00	Epsilon: 0.100
Episode 646	Total Reward: 0.00	Epsilon: 0.100
Episode 647	Total Reward: 0.00	Epsilon: 0.100
Episode 648	Total Reward: 0.00	Epsilon: 0.100
Episode 649	Total Reward: -3.00	Epsilon: 0.100
Episode 650	Total Reward: -1.50	Epsilon: 0.100
Episode 651	Total Reward: -9.00	Epsilon: 0.100
Episode 652	Total Reward: -1.50	Epsilon: 0.100
Episode 653	Total Reward: -6.00	Epsilon: 0.100
Episode 654	Total Reward: -11.50	Epsilon: 0.100
Episode 655	Total Reward: -1.50	Epsilon: 0.100
Episode 656	Total Reward: -1.50	Epsilon: 0.100
Episode 657	Total Reward: -3.00	Epsilon: 0.100
Episode 658	Total Reward: 0.00	Epsilon: 0.100
Episode 659	Total Reward: -4.50	Epsilon: 0.100

Episode 660	Total Reward: 1.50	Epsilon: 0.100
Episode 661	Total Reward: 1.50	Epsilon: 0.100
Episode 662	Total Reward: 0.00	Epsilon: 0.100
Episode 663	Total Reward: 0.00	Epsilon: 0.100
Episode 664	Total Reward: -11.50	Epsilon: 0.100
Episode 665	Total Reward: -1.50	Epsilon: 0.100
Episode 666	Total Reward: 0.00	Epsilon: 0.100
Episode 667	Total Reward: -3.00	Epsilon: 0.100
Episode 668	Total Reward: -11.50	Epsilon: 0.100
Episode 669	Total Reward: 1.50	Epsilon: 0.100
Episode 670	Total Reward: 0.00	Epsilon: 0.100
Episode 671	Total Reward: -12.00	Epsilon: 0.100
Episode 672	Total Reward: -22.50	Epsilon: 0.100
Episode 673	Total Reward: -6.00	Epsilon: 0.100
Episode 674	Total Reward: 0.00	Epsilon: 0.100
Episode 675	Total Reward: -20.00	Epsilon: 0.100
Episode 676	Total Reward: -1.50	Epsilon: 0.100
Episode 677	Total Reward: 1.50	Epsilon: 0.100
Episode 678	Total Reward: 0.00	Epsilon: 0.100
Episode 679	Total Reward: 1.50	Epsilon: 0.100
Episode 680	Total Reward: -14.00	Epsilon: 0.100
Episode 681	Total Reward: 1.50	Epsilon: 0.100
Episode 682	Total Reward: -3.00	Epsilon: 0.100
Episode 683	Total Reward: -21.50	Epsilon: 0.100
Episode 684	Total Reward: -16.50	Epsilon: 0.100
Episode 685	Total Reward: 0.00	Epsilon: 0.100
Episode 686	Total Reward: 1.50	Epsilon: 0.100
Episode 687	Total Reward: -6.00	Epsilon: 0.100
Episode 688	Total Reward: -7.50	Epsilon: 0.100
Episode 689	Total Reward: 1.50	Epsilon: 0.100
Episode 690	Total Reward: -17.50	Epsilon: 0.100
Episode 691	Total Reward: 0.00	Epsilon: 0.100
Episode 692	Total Reward: 1.50	Epsilon: 0.100
Episode 693	Total Reward: -1.50	Epsilon: 0.100
Episode 694	Total Reward: -3.00	Epsilon: 0.100
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Episode 696	Total Reward: 1.50	Epsilon: 0.100
Episode 697	Total Reward: -3.00	Epsilon: 0.100
Episode 698	Total Reward: 0.00	Epsilon: 0.100
Episode 699	Total Reward: -17.00	Epsilon: 0.100
Episode 700	Total Reward: 0.00	Epsilon: 0.100
Episode 701	Total Reward: -10.50	Epsilon: 0.100
Episode 702	Total Reward: -12.50	Epsilon: 0.100
Episode 703	Total Reward: 0.00	Epsilon: 0.100
Episode 704	Total Reward: 1.50	Epsilon: 0.100
Episode 705	Total Reward: -21.50	Epsilon: 0.100
Episode 706	Total Reward: -20.00	Epsilon: 0.100
Episode 707	Total Reward: -1.50	Epsilon: 0.100
Episode 708	Total Reward: 1.50	Epsilon: 0.100
Episode 709	Total Reward: -10.50	Epsilon: 0.100
Episode 710	Total Reward: -21.00	Epsilon: 0.100
Episode 711	Total Reward: -1.50	Epsilon: 0.100
Episode 712	Total Reward: 0.00	Epsilon: 0.100
Episode 713	Total Reward: 0.00	Epsilon: 0.100
Episode 714	Total Reward: -19.50	Epsilon: 0.100
Episode 715	Total Reward: 0.00	Epsilon: 0.100
Episode 716	Total Reward: -15.50	Epsilon: 0.100
Episode 717	Total Reward: -1.50	Epsilon: 0.100
Episode 718	Total Reward: -7.50	Epsilon: 0.100
Episode 719	Total Reward: 0.00	Epsilon: 0.100
Episode 720	Total Reward: 0.00	Epsilon: 0.100
Episode 721	Total Reward: 1.50	Epsilon: 0.100
Episode 722	Total Reward: -18.50	Epsilon: 0.100
Episode 723	Total Reward: -10.00	Epsilon: 0.100
Episode 724	Total Reward: -1.50	Epsilon: 0.100
Episode 725	Total Reward: -18.00	Epsilon: 0.100
Episode 726	Total Reward: -10.00	Epsilon: 0.100
Episode 727	Total Reward: -12.50	Epsilon: 0.100
Episode 728	Total Reward: 0.00	Epsilon: 0.100
Episode 729	Total Reward: -3.00	Epsilon: 0.100
Episode 730	Total Reward: 1.50	Epsilon: 0.100
Episode 731	Total Reward: -1.50	Epsilon: 0.100
Episode 732	Total Reward: -4.50	Epsilon: 0.100
Episode 733	Total Reward: -18.00	Epsilon: 0.100
Episode 734	Total Reward: -15.00	Epsilon: 0.100
Episode 735	Total Reward: 0.00	Epsilon: 0.100
Episode 736	Total Reward: 0.00	Epsilon: 0.100
Episode 737	Total Reward: 0.00	Epsilon: 0.100
Episode 738	Total Reward: 1.50	Epsilon: 0.100
Episode 739	Total Reward: 1.50	Epsilon: 0.100
Episode 740	Total Reward: 0.00	Epsilon: 0.100
Episode 741	Total Reward: 0.00	Epsilon: 0.100
Episode 742	Total Reward: 0.00	Epsilon: 0.100

Episode 743	Total Reward: 0.00	Epsilon: 0.100
Episode 744	Total Reward: -1.50	Epsilon: 0.100
Episode 745	Total Reward: 0.00	Epsilon: 0.100
Episode 746	Total Reward: 1.50	Epsilon: 0.100
Episode 747	Total Reward: -1.50	Epsilon: 0.100
Episode 748	Total Reward: 0.00	Epsilon: 0.100
Episode 749	Total Reward: 0.00	Epsilon: 0.100
Episode 750	Total Reward: 1.50	Epsilon: 0.100
Episode 751	Total Reward: 1.50	Epsilon: 0.100
Episode 752	Total Reward: 0.00	Epsilon: 0.100
Episode 753	Total Reward: 0.00	Epsilon: 0.100
Episode 754	Total Reward: 1.50	Epsilon: 0.100
Episode 755	Total Reward: 0.00	Epsilon: 0.100
Episode 756	Total Reward: -12.00	Epsilon: 0.100
Episode 757	Total Reward: 1.50	Epsilon: 0.100
Episode 758	Total Reward: -10.50	Epsilon: 0.100
Episode 759	Total Reward: -3.00	Epsilon: 0.100
Episode 760	Total Reward: -1.50	Epsilon: 0.100
Episode 761	Total Reward: -1.50	Epsilon: 0.100
Episode 762	Total Reward: -11.00	Epsilon: 0.100
Episode 763	Total Reward: -3.00	Epsilon: 0.100
Episode 764	Total Reward: -3.00	Epsilon: 0.100
Episode 765	Total Reward: 0.00	Epsilon: 0.100
Episode 766	Total Reward: -19.50	Epsilon: 0.100
Episode 767	Total Reward: 1.50	Epsilon: 0.100
Episode 768	Total Reward: -7.50	Epsilon: 0.100
Episode 769	Total Reward: 0.00	Epsilon: 0.100
Episode 770	Total Reward: -20.00	Epsilon: 0.100
Episode 771	Total Reward: 1.50	Epsilon: 0.100
Episode 772	Total Reward: 0.00	Epsilon: 0.100
Episode 773	Total Reward: 1.50	Epsilon: 0.100
Episode 774	Total Reward: 1.50	Epsilon: 0.100
Episode 775	Total Reward: -1.50	Epsilon: 0.100
Episode 776	Total Reward: 1.50	Epsilon: 0.100
Episode 777	Total Reward: 1.50	Epsilon: 0.100
Episode 778	Total Reward: -3.00	Epsilon: 0.100
Episode 779	Total Reward: -1.50	Epsilon: 0.100
Episode 780	Total Reward: -11.50	Epsilon: 0.100
Episode 781	Total Reward: -11.50	Epsilon: 0.100
Episode 782	Total Reward: 1.50	Epsilon: 0.100
Episode 783	Total Reward: -3.00	Epsilon: 0.100
Episode 784	Total Reward: 1.50	Epsilon: 0.100
Episode 785	Total Reward: 0.00	Epsilon: 0.100
Episode 786	Total Reward: 1.50	Epsilon: 0.100
Episode 787	Total Reward: -1.50	Epsilon: 0.100
Episode 788	Total Reward: 1.50	Epsilon: 0.100
Episode 789	Total Reward: -11.50	Epsilon: 0.100
Episode 790	Total Reward: -19.00	Epsilon: 0.100
Episode 791	Total Reward: 1.50	Epsilon: 0.100
Episode 792	Total Reward: 1.50	Epsilon: 0.100
Episode 793	Total Reward: -12.00	Epsilon: 0.100
Episode 794	Total Reward: 0.00	Epsilon: 0.100
Episode 795	Total Reward: 0.00	Epsilon: 0.100
Episode 796	Total Reward: -10.00	Epsilon: 0.100
Episode 797	Total Reward: -10.00	Epsilon: 0.100
Episode 798	Total Reward: 0.00	Epsilon: 0.100
Episode 799	Total Reward: -11.00	Epsilon: 0.100
Episode 800	Total Reward: -4.50	Epsilon: 0.100
Episode 801	Total Reward: 1.50	Epsilon: 0.100
Episode 802	Total Reward: -3.00	Epsilon: 0.100
Episode 803	Total Reward: 1.50	Epsilon: 0.100
Episode 804	Total Reward: -19.50	Epsilon: 0.100
Episode 805	Total Reward: -21.00	Epsilon: 0.100
Episode 806	Total Reward: -10.00	Epsilon: 0.100
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Episode 808	Total Reward: 1.50	Epsilon: 0.100
Episode 809	Total Reward: 0.00	Epsilon: 0.100
Episode 810	Total Reward: 1.50	Epsilon: 0.100
Episode 811	Total Reward: -12.00	Epsilon: 0.100
Episode 812	Total Reward: -10.00	Epsilon: 0.100
Episode 813	Total Reward: 1.50	Epsilon: 0.100
Episode 814	Total Reward: -10.50	Epsilon: 0.100
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Episode 817	Total Reward: 0.00	Epsilon: 0.100
Episode 818	Total Reward: -20.00	Epsilon: 0.100
Episode 819	Total Reward: -1.50	Epsilon: 0.100
Episode 820	Total Reward: 1.50	Epsilon: 0.100
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Episode 822	Total Reward: 1.50	Epsilon: 0.100
Episode 823	Total Reward: -14.50	Epsilon: 0.100
Episode 824	Total Reward: -11.50	Epsilon: 0.100
Episode 825	Total Reward: 1.50	Epsilon: 0.100

Episode 826	Total Reward: 1.50	Epsilon: 0.100
Episode 827	Total Reward: 1.50	Epsilon: 0.100
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Episode 829	Total Reward: 0.00	Epsilon: 0.100
Episode 830	Total Reward: -1.50	Epsilon: 0.100
Episode 831	Total Reward: -1.50	Epsilon: 0.100
Episode 832	Total Reward: -20.00	Epsilon: 0.100
Episode 833	Total Reward: -3.00	Epsilon: 0.100
Episode 834	Total Reward: 1.50	Epsilon: 0.100
Episode 835	Total Reward: 1.50	Epsilon: 0.100
Episode 836	Total Reward: -11.50	Epsilon: 0.100
Episode 837	Total Reward: 0.00	Epsilon: 0.100
Episode 838	Total Reward: -13.50	Epsilon: 0.100
Episode 839	Total Reward: 0.00	Epsilon: 0.100
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Episode 844	Total Reward: -1.50	Epsilon: 0.100
Episode 845	Total Reward: -11.50	Epsilon: 0.100
Episode 846	Total Reward: -1.50	Epsilon: 0.100
Episode 847	Total Reward: 0.00	Epsilon: 0.100
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Episode 850	Total Reward: 1.50	Epsilon: 0.100
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Episode 852	Total Reward: 1.50	Epsilon: 0.100
Episode 853	Total Reward: -11.50	Epsilon: 0.100
Episode 854	Total Reward: -1.50	Epsilon: 0.100
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Episode 859	Total Reward: 1.50	Epsilon: 0.100
Episode 860	Total Reward: -1.50	Epsilon: 0.100
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Episode 862	Total Reward: 0.00	Epsilon: 0.100
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Episode 864	Total Reward: 0.00	Epsilon: 0.100
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Episode 868	Total Reward: 1.50	Epsilon: 0.100
Episode 869	Total Reward: -1.50	Epsilon: 0.100
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Episode 871	Total Reward: 0.00	Epsilon: 0.100
Episode 872	Total Reward: 1.50	Epsilon: 0.100
Episode 873	Total Reward: 0.00	Epsilon: 0.100
Episode 874	Total Reward: 0.00	Epsilon: 0.100
Episode 875	Total Reward: -21.50	Epsilon: 0.100
Episode 876	Total Reward: -11.50	Epsilon: 0.100
Episode 877	Total Reward: 0.00	Epsilon: 0.100
Episode 878	Total Reward: 1.50	Epsilon: 0.100
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Episode 880	Total Reward: -1.50	Epsilon: 0.100
Episode 881	Total Reward: 0.00	Epsilon: 0.100
Episode 882	Total Reward: 0.00	Epsilon: 0.100
Episode 883	Total Reward: 1.50	Epsilon: 0.100
Episode 884	Total Reward: 1.50	Epsilon: 0.100
Episode 885	Total Reward: -15.50	Epsilon: 0.100
Episode 886	Total Reward: -3.00	Epsilon: 0.100
Episode 887	Total Reward: 0.00	Epsilon: 0.100
Episode 888	Total Reward: -18.00	Epsilon: 0.100
Episode 889	Total Reward: -10.00	Epsilon: 0.100
Episode 890	Total Reward: 1.50	Epsilon: 0.100
Episode 891	Total Reward: -3.00	Epsilon: 0.100
Episode 892	Total Reward: 0.00	Epsilon: 0.100
Episode 893	Total Reward: -18.00	Epsilon: 0.100
Episode 894	Total Reward: 0.00	Epsilon: 0.100
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Episode 899	Total Reward: 0.00	Epsilon: 0.100
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Episode 905	Total Reward: 0.00	Epsilon: 0.100
Episode 906	Total Reward: -18.50	Epsilon: 0.100
Episode 907	Total Reward: 0.00	Epsilon: 0.100
Episode 908	Total Reward: 1.50	Epsilon: 0.100

Episode 909	Total Reward: -15.50	Epsilon: 0.100
Episode 910	Total Reward: 1.50	Epsilon: 0.100
Episode 911	Total Reward: -4.50	Epsilon: 0.100
Episode 912	Total Reward: -10.50	Epsilon: 0.100
Episode 913	Total Reward: -10.00	Epsilon: 0.100
Episode 914	Total Reward: -21.00	Epsilon: 0.100
Episode 915	Total Reward: -13.50	Epsilon: 0.100
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Episode 917	Total Reward: -1.50	Epsilon: 0.100
Episode 918	Total Reward: 0.00	Epsilon: 0.100
Episode 919	Total Reward: 1.50	Epsilon: 0.100
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Episode 921	Total Reward: -15.50	Epsilon: 0.100
Episode 922	Total Reward: 1.50	Epsilon: 0.100
Episode 923	Total Reward: -11.50	Epsilon: 0.100
Episode 924	Total Reward: -12.00	Epsilon: 0.100
Episode 925	Total Reward: 0.00	Epsilon: 0.100
Episode 926	Total Reward: 1.50	Epsilon: 0.100
Episode 927	Total Reward: -1.50	Epsilon: 0.100
Episode 928	Total Reward: 1.50	Epsilon: 0.100
Episode 929	Total Reward: -1.50	Epsilon: 0.100
Episode 930	Total Reward: -12.00	Epsilon: 0.100
Episode 931	Total Reward: -19.50	Epsilon: 0.100
Episode 932	Total Reward: 1.50	Epsilon: 0.100
Episode 933	Total Reward: -1.50	Epsilon: 0.100
Episode 934	Total Reward: 1.50	Epsilon: 0.100
Episode 935	Total Reward: 0.00	Epsilon: 0.100
Episode 936	Total Reward: -1.50	Epsilon: 0.100
Episode 937	Total Reward: 1.50	Epsilon: 0.100
Episode 938	Total Reward: -15.50	Epsilon: 0.100
Episode 939	Total Reward: -10.00	Epsilon: 0.100
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Episode 943	Total Reward: 1.50	Epsilon: 0.100
Episode 944	Total Reward: 1.50	Epsilon: 0.100
Episode 945	Total Reward: 1.50	Epsilon: 0.100
Episode 946	Total Reward: 1.50	Epsilon: 0.100
Episode 947	Total Reward: 1.50	Epsilon: 0.100
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Episode 950	Total Reward: -18.50	Epsilon: 0.100
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Episode 955	Total Reward: 1.50	Epsilon: 0.100
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Episode 960	Total Reward: 0.00	Epsilon: 0.100
Episode 961	Total Reward: 1.50	Epsilon: 0.100
Episode 962	Total Reward: 0.00	Epsilon: 0.100
Episode 963	Total Reward: 0.00	Epsilon: 0.100
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Episode 965	Total Reward: -1.50	Epsilon: 0.100
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Episode 973	Total Reward: 0.00	Epsilon: 0.100
Episode 974	Total Reward: 0.00	Epsilon: 0.100
Episode 975	Total Reward: -21.00	Epsilon: 0.100
Episode 976	Total Reward: -19.50	Epsilon: 0.100
Episode 977	Total Reward: -10.50	Epsilon: 0.100
Episode 978	Total Reward: -1.50	Epsilon: 0.100
Episode 979	Total Reward: 1.50	Epsilon: 0.100
Episode 980	Total Reward: 1.50	Epsilon: 0.100
Episode 981	Total Reward: -20.00	Epsilon: 0.100
Episode 982	Total Reward: -17.00	Epsilon: 0.100
Episode 983	Total Reward: 0.00	Epsilon: 0.100
Episode 984	Total Reward: -3.00	Epsilon: 0.100
Episode 985	Total Reward: -10.50	Epsilon: 0.100
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Episode 987	Total Reward: 0.00	Epsilon: 0.100
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Episode 989	Total Reward: 0.00	Epsilon: 0.100
Episode 990	Total Reward: -10.00	Epsilon: 0.100
Episode 991	Total Reward: 0.00	Epsilon: 0.100

Episode 992	Total Reward: -10.50	Epsilon: 0.100
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Episode 996	Total Reward: 0.00	Epsilon: 0.100
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Episode 999	Total Reward: 1.50	Epsilon: 0.100
Episode 1000	Total Reward: -1.50	Epsilon: 0.100
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Episode 1004	Total Reward: -1.50	Epsilon: 0.100
Episode 1005	Total Reward: 0.00	Epsilon: 0.100
Episode 1006	Total Reward: 1.50	Epsilon: 0.100
Episode 1007	Total Reward: -10.00	Epsilon: 0.100
Episode 1008	Total Reward: -1.50	Epsilon: 0.100
Episode 1009	Total Reward: 1.50	Epsilon: 0.100
Episode 1010	Total Reward: 0.00	Epsilon: 0.100
Episode 1011	Total Reward: 0.00	Epsilon: 0.100
Episode 1012	Total Reward: -1.50	Epsilon: 0.100
Episode 1013	Total Reward: 1.50	Epsilon: 0.100
Episode 1014	Total Reward: 1.50	Epsilon: 0.100
Episode 1015	Total Reward: -11.00	Epsilon: 0.100
Episode 1016	Total Reward: 0.00	Epsilon: 0.100
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Episode 1018	Total Reward: 1.50	Epsilon: 0.100
Episode 1019	Total Reward: 1.50	Epsilon: 0.100
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Episode 1024	Total Reward: -1.50	Epsilon: 0.100
Episode 1025	Total Reward: -10.50	Epsilon: 0.100
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Episode 1030	Total Reward: -19.50	Epsilon: 0.100
Episode 1031	Total Reward: -1.50	Epsilon: 0.100
Episode 1032	Total Reward: 1.50	Epsilon: 0.100
Episode 1033	Total Reward: -15.50	Epsilon: 0.100
Episode 1034	Total Reward: 1.50	Epsilon: 0.100
Episode 1035	Total Reward: -3.00	Epsilon: 0.100
Episode 1036	Total Reward: -19.50	Epsilon: 0.100
Episode 1037	Total Reward: 1.50	Epsilon: 0.100
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Episode 1039	Total Reward: 0.00	Epsilon: 0.100
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Episode 1041	Total Reward: -3.00	Epsilon: 0.100
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Episode 1044	Total Reward: -11.50	Epsilon: 0.100
Episode 1045	Total Reward: -12.00	Epsilon: 0.100
Episode 1046	Total Reward: 1.50	Epsilon: 0.100
Episode 1047	Total Reward: -10.00	Epsilon: 0.100
Episode 1048	Total Reward: -12.00	Epsilon: 0.100
Episode 1049	Total Reward: 1.50	Epsilon: 0.100
Episode 1050	Total Reward: 1.50	Epsilon: 0.100
Episode 1051	Total Reward: 0.00	Epsilon: 0.100
Episode 1052	Total Reward: -11.00	Epsilon: 0.100
Episode 1053	Total Reward: -1.50	Epsilon: 0.100
Episode 1054	Total Reward: 1.50	Epsilon: 0.100
Episode 1055	Total Reward: 0.00	Epsilon: 0.100
Episode 1056	Total Reward: -15.50	Epsilon: 0.100
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Episode 1058	Total Reward: -1.50	Epsilon: 0.100
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Episode 1060	Total Reward: 1.50	Epsilon: 0.100
Episode 1061	Total Reward: -10.50	Epsilon: 0.100
Episode 1062	Total Reward: -10.00	Epsilon: 0.100
Episode 1063	Total Reward: 1.50	Epsilon: 0.100
Episode 1064	Total Reward: 0.00	Epsilon: 0.100
Episode 1065	Total Reward: -1.50	Epsilon: 0.100
Episode 1066	Total Reward: 0.00	Epsilon: 0.100
Episode 1067	Total Reward: -20.00	Epsilon: 0.100
Episode 1068	Total Reward: 0.00	Epsilon: 0.100
Episode 1069	Total Reward: 1.50	Epsilon: 0.100
Episode 1070	Total Reward: 1.50	Epsilon: 0.100
Episode 1071	Total Reward: -1.50	Epsilon: 0.100
Episode 1072	Total Reward: 0.00	Epsilon: 0.100
Episode 1073	Total Reward: 0.00	Epsilon: 0.100
Episode 1074	Total Reward: 0.00	Epsilon: 0.100

[illegible]

[illegible]

[illegible]

Episode 1324	Total	Reward: 1.50	Epsilon: 0.100
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Episode 1327	Total	Reward: 1.50	Epsilon: 0.100
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Episode 1329	Total	Reward: -1.50	Epsilon: 0.100
Episode 1330	Total	Reward: 0.00	Epsilon: 0.100
Episode 1331	Total	Reward: -11.00	Epsilon: 0.100
Episode 1332	Total	Reward: 0.00	Epsilon: 0.100
Episode 1333	Total	Reward: -4.50	Epsilon: 0.100
Episode 1334	Total	Reward: -10.00	Epsilon: 0.100
Episode 1335	Total	Reward: -11.50	Epsilon: 0.100
Episode 1336	Total	Reward: 0.00	Epsilon: 0.100
Episode 1337	Total	Reward: -10.00	Epsilon: 0.100
Episode 1338	Total	Reward: 0.00	Epsilon: 0.100
Episode 1339	Total	Reward: 0.00	Epsilon: 0.100
Episode 1340	Total	Reward: -7.50	Epsilon: 0.100
Episode 1341	Total	Reward: 0.00	Epsilon: 0.100
Episode 1342	Total	Reward: 1.50	Epsilon: 0.100
Episode 1343	Total	Reward: 0.00	Epsilon: 0.100
Episode 1344	Total	Reward: 1.50	Epsilon: 0.100
Episode 1345	Total	Reward: 1.50	Epsilon: 0.100
Episode 1346	Total	Reward: -1.50	Epsilon: 0.100
Episode 1347	Total	Reward: 0.00	Epsilon: 0.100
Episode 1348	Total	Reward: -10.00	Epsilon: 0.100
Episode 1349	Total	Reward: -10.00	Epsilon: 0.100
Episode 1350	Total	Reward: -10.00	Epsilon: 0.100
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Episode 1352	Total	Reward: 1.50	Epsilon: 0.100
Episode 1353	Total	Reward: -15.50	Epsilon: 0.100
Episode 1354	Total	Reward: 0.00	Epsilon: 0.100
Episode 1355	Total	Reward: 0.00	Epsilon: 0.100
Episode 1356	Total	Reward: -3.00	Epsilon: 0.100
Episode 1357	Total	Reward: 0.00	Epsilon: 0.100
Episode 1358	Total	Reward: -20.50	Epsilon: 0.100
Episode 1359	Total	Reward: 0.00	Epsilon: 0.100
Episode 1360	Total	Reward: -10.00	Epsilon: 0.100
Episode 1361	Total	Reward: 1.50	Epsilon: 0.100
Episode 1362	Total	Reward: -10.50	Epsilon: 0.100
Episode 1363	Total	Reward: -11.50	Epsilon: 0.100
Episode 1364	Total	Reward: 0.00	Epsilon: 0.100
Episode 1365	Total	Reward: 0.00	Epsilon: 0.100
Episode 1366	Total	Reward: -1.50	Epsilon: 0.100
Episode 1367	Total	Reward: 1.50	Epsilon: 0.100
Episode 1368	Total	Reward: 1.50	Epsilon: 0.100
Episode 1369	Total	Reward: -10.00	Epsilon: 0.100
Episode 1370	Total	Reward: 0.00	Epsilon: 0.100
Episode 1371	Total	Reward: 0.00	Epsilon: 0.100
Episode 1372	Total	Reward: 1.50	Epsilon: 0.100
Episode 1373	Total	Reward: 1.50	Epsilon: 0.100
Episode 1374	Total	Reward: -12.00	Epsilon: 0.100
Episode 1375	Total	Reward: -18.00	Epsilon: 0.100
Episode 1376	Total	Reward: -10.00	Epsilon: 0.100
Episode 1377	Total	Reward: -1.50	Epsilon: 0.100
Episode 1378	Total	Reward: -7.50	Epsilon: 0.100
Episode 1379	Total	Reward: 1.50	Epsilon: 0.100
Episode 1380	Total	Reward: -1.50	Epsilon: 0.100
Episode 1381	Total	Reward: 1.50	Epsilon: 0.100
Episode 1382	Total	Reward: -10.00	Epsilon: 0.100
Episode 1383	Total	Reward: 1.50	Epsilon: 0.100
Episode 1384	Total	Reward: 1.50	Epsilon: 0.100
Episode 1385	Total	Reward: 1.50	Epsilon: 0.100
Episode 1386	Total	Reward: -18.00	Epsilon: 0.100
Episode 1387	Total	Reward: -1.50	Epsilon: 0.100
Episode 1388	Total	Reward: 0.00	Epsilon: 0.100
Episode 1389	Total	Reward: 0.00	Epsilon: 0.100
Episode 1390	Total	Reward: -1.50	Epsilon: 0.100
Episode 1391	Total	Reward: 1.50	Epsilon: 0.100
Episode 1392	Total	Reward: 1.50	Epsilon: 0.100
Episode 1393	Total	Reward: -17.00	Epsilon: 0.100
Episode 1394	Total	Reward: -1.50	Epsilon: 0.100
Episode 1395	Total	Reward: 0.00	Epsilon: 0.100
Episode 1396	Total	Reward: 0.00	Epsilon: 0.100
Episode 1397	Total	Reward: 1.50	Epsilon: 0.100
Episode 1398	Total	Reward: 1.50	Epsilon: 0.100
Episode 1399	Total	Reward: 1.50	Epsilon: 0.100
Episode 1400	Total	Reward: -10.50	Epsilon: 0.100
Episode 1401	Total	Reward: 1.50	Epsilon: 0.100
Episode 1402	Total	Reward: 1.50	Epsilon: 0.100
Episode 1403	Total	Reward: 1.50	Epsilon: 0.100
Episode 1404	Total	Reward: 0.00	Epsilon: 0.100
Episode 1405	Total	Reward: 0.00	Epsilon: 0.100
Episode 1406	Total	Reward: 1.50	Epsilon: 0.100

[illegible]

[illegible]

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Episode 1656	Total Reward: -10.50	Epsilon: 0.100
Episode 1657	Total Reward: 1.50	Epsilon: 0.100
Episode 1658	Total Reward: -11.00	Epsilon: 0.100
Episode 1659	Total Reward: -1.50	Epsilon: 0.100
Episode 1660	Total Reward: -10.00	Epsilon: 0.100
Episode 1661	Total Reward: 1.50	Epsilon: 0.100
Episode 1662	Total Reward: 0.00	Epsilon: 0.100
Episode 1663	Total Reward: -18.50	Epsilon: 0.100
Episode 1664	Total Reward: -11.00	Epsilon: 0.100
Episode 1665	Total Reward: 0.00	Epsilon: 0.100
Episode 1666	Total Reward: -20.00	Epsilon: 0.100
Episode 1667	Total Reward: 0.00	Epsilon: 0.100
Episode 1668	Total Reward: -1.50	Epsilon: 0.100
Episode 1669	Total Reward: 1.50	Epsilon: 0.100
Episode 1670	Total Reward: 0.00	Epsilon: 0.100
Episode 1671	Total Reward: 1.50	Epsilon: 0.100
Episode 1672	Total Reward: -15.50	Epsilon: 0.100
Episode 1673	Total Reward: 0.00	Epsilon: 0.100
Episode 1674	Total Reward: 0.00	Epsilon: 0.100
Episode 1675	Total Reward: 1.50	Epsilon: 0.100
Episode 1676	Total Reward: 1.50	Epsilon: 0.100
Episode 1677	Total Reward: 0.00	Epsilon: 0.100
Episode 1678	Total Reward: 1.50	Epsilon: 0.100
Episode 1679	Total Reward: -15.50	Epsilon: 0.100
Episode 1680	Total Reward: -11.00	Epsilon: 0.100
Episode 1681	Total Reward: 1.50	Epsilon: 0.100
Episode 1682	Total Reward: -11.50	Epsilon: 0.100
Episode 1683	Total Reward: 0.00	Epsilon: 0.100
Episode 1684	Total Reward: 1.50	Epsilon: 0.100
Episode 1685	Total Reward: -12.50	Epsilon: 0.100
Episode 1686	Total Reward: 1.50	Epsilon: 0.100
Episode 1687	Total Reward: -6.00	Epsilon: 0.100
Episode 1688	Total Reward: -11.50	Epsilon: 0.100
Episode 1689	Total Reward: -1.50	Epsilon: 0.100
Episode 1690	Total Reward: 1.50	Epsilon: 0.100
Episode 1691	Total Reward: 1.50	Epsilon: 0.100
Episode 1692	Total Reward: 1.50	Epsilon: 0.100
Episode 1693	Total Reward: -4.50	Epsilon: 0.100
Episode 1694	Total Reward: 0.00	Epsilon: 0.100
Episode 1695	Total Reward: -20.00	Epsilon: 0.100
Episode 1696	Total Reward: 0.00	Epsilon: 0.100
Episode 1697	Total Reward: 1.50	Epsilon: 0.100
Episode 1698	Total Reward: 1.50	Epsilon: 0.100
Episode 1699	Total Reward: 0.00	Epsilon: 0.100
Episode 1700	Total Reward: 0.00	Epsilon: 0.100
Episode 1701	Total Reward: -13.50	Epsilon: 0.100
Episode 1702	Total Reward: 1.50	Epsilon: 0.100
Episode 1703	Total Reward: -10.00	Epsilon: 0.100
Episode 1704	Total Reward: -11.00	Epsilon: 0.100
Episode 1705	Total Reward: 0.00	Epsilon: 0.100
Episode 1706	Total Reward: -3.00	Epsilon: 0.100
Episode 1707	Total Reward: 1.50	Epsilon: 0.100
Episode 1708	Total Reward: 0.00	Epsilon: 0.100
Episode 1709	Total Reward: -18.00	Epsilon: 0.100
Episode 1710	Total Reward: -18.50	Epsilon: 0.100
Episode 1711	Total Reward: -10.00	Epsilon: 0.100
Episode 1712	Total Reward: 0.00	Epsilon: 0.100
Episode 1713	Total Reward: -10.00	Epsilon: 0.100
Episode 1714	Total Reward: 0.00	Epsilon: 0.100
Episode 1715	Total Reward: -12.00	Epsilon: 0.100
Episode 1716	Total Reward: -20.00	Epsilon: 0.100
Episode 1717	Total Reward: 0.00	Epsilon: 0.100
Episode 1718	Total Reward: -14.00	Epsilon: 0.100
Episode 1719	Total Reward: 1.50	Epsilon: 0.100
Episode 1720	Total Reward: -1.50	Epsilon: 0.100
Episode 1721	Total Reward: -18.50	Epsilon: 0.100
Episode 1722	Total Reward: -10.00	Epsilon: 0.100
Episode 1723	Total Reward: -1.50	Epsilon: 0.100
Episode 1724	Total Reward: 1.50	Epsilon: 0.100
Episode 1725	Total Reward: -10.00	Epsilon: 0.100
Episode 1726	Total Reward: -11.50	Epsilon: 0.100
Episode 1727	Total Reward: 1.50	Epsilon: 0.100
Episode 1728	Total Reward: 0.00	Epsilon: 0.100
Episode 1729	Total Reward: 1.50	Epsilon: 0.100
Episode 1730	Total Reward: 0.00	Epsilon: 0.100
Episode 1731	Total Reward: 0.00	Epsilon: 0.100
Episode 1732	Total Reward: 0.00	Epsilon: 0.100
Episode 1733	Total Reward: 1.50	Epsilon: 0.100
Episode 1734	Total Reward: 1.50	Epsilon: 0.100
Episode 1735	Total Reward: 0.00	Epsilon: 0.100
Episode 1736	Total Reward: 1.50	Epsilon: 0.100
Episode 1737	Total Reward: -12.50	Epsilon: 0.100
Episode 1738	Total Reward: -10.50	Epsilon: 0.100

Episode 1739	Total Reward: 1.50	Epsilon: 0.100
Episode 1740	Total Reward: 0.00	Epsilon: 0.100
Episode 1741	Total Reward: 1.50	Epsilon: 0.100
Episode 1742	Total Reward: 0.00	Epsilon: 0.100
Episode 1743	Total Reward: -11.00	Epsilon: 0.100
Episode 1744	Total Reward: 0.00	Epsilon: 0.100
Episode 1745	Total Reward: 0.00	Epsilon: 0.100
Episode 1746	Total Reward: 1.50	Epsilon: 0.100
Episode 1747	Total Reward: 0.00	Epsilon: 0.100
Episode 1748	Total Reward: 1.50	Epsilon: 0.100
Episode 1749	Total Reward: -15.50	Epsilon: 0.100
Episode 1750	Total Reward: -15.50	Epsilon: 0.100
Episode 1751	Total Reward: -13.50	Epsilon: 0.100
Episode 1752	Total Reward: 1.50	Epsilon: 0.100
Episode 1753	Total Reward: 1.50	Epsilon: 0.100
Episode 1754	Total Reward: 1.50	Epsilon: 0.100
Episode 1755	Total Reward: 0.00	Epsilon: 0.100
Episode 1756	Total Reward: 1.50	Epsilon: 0.100
Episode 1757	Total Reward: -10.00	Epsilon: 0.100
Episode 1758	Total Reward: 0.00	Epsilon: 0.100
Episode 1759	Total Reward: 1.50	Epsilon: 0.100
Episode 1760	Total Reward: -1.50	Epsilon: 0.100
Episode 1761	Total Reward: 1.50	Epsilon: 0.100
Episode 1762	Total Reward: 1.50	Epsilon: 0.100
Episode 1763	Total Reward: -3.00	Epsilon: 0.100
Episode 1764	Total Reward: 1.50	Epsilon: 0.100
Episode 1765	Total Reward: 0.00	Epsilon: 0.100
Episode 1766	Total Reward: -10.00	Epsilon: 0.100
Episode 1767	Total Reward: -1.50	Epsilon: 0.100
Episode 1768	Total Reward: -18.00	Epsilon: 0.100
Episode 1769	Total Reward: -17.00	Epsilon: 0.100
Episode 1770	Total Reward: 1.50	Epsilon: 0.100
Episode 1771	Total Reward: 0.00	Epsilon: 0.100
Episode 1772	Total Reward: 1.50	Epsilon: 0.100
Episode 1773	Total Reward: 1.50	Epsilon: 0.100
Episode 1774	Total Reward: -10.00	Epsilon: 0.100
Episode 1775	Total Reward: 1.50	Epsilon: 0.100
Episode 1776	Total Reward: -3.00	Epsilon: 0.100
Episode 1777	Total Reward: 1.50	Epsilon: 0.100
Episode 1778	Total Reward: -10.00	Epsilon: 0.100
Episode 1779	Total Reward: 0.00	Epsilon: 0.100
Episode 1780	Total Reward: -20.00	Epsilon: 0.100
Episode 1781	Total Reward: 0.00	Epsilon: 0.100
Episode 1782	Total Reward: 1.50	Epsilon: 0.100
Episode 1783	Total Reward: 0.00	Epsilon: 0.100
Episode 1784	Total Reward: -18.00	Epsilon: 0.100
Episode 1785	Total Reward: 0.00	Epsilon: 0.100
Episode 1786	Total Reward: -10.00	Epsilon: 0.100
Episode 1787	Total Reward: -10.00	Epsilon: 0.100
Episode 1788	Total Reward: 1.50	Epsilon: 0.100
Episode 1789	Total Reward: -12.00	Epsilon: 0.100
Episode 1790	Total Reward: 0.00	Epsilon: 0.100
Episode 1791	Total Reward: 0.00	Epsilon: 0.100
Episode 1792	Total Reward: 1.50	Epsilon: 0.100
Episode 1793	Total Reward: 1.50	Epsilon: 0.100
Episode 1794	Total Reward: -18.00	Epsilon: 0.100
Episode 1795	Total Reward: 1.50	Epsilon: 0.100
Episode 1796	Total Reward: 1.50	Epsilon: 0.100
Episode 1797	Total Reward: 0.00	Epsilon: 0.100
Episode 1798	Total Reward: 0.00	Epsilon: 0.100
Episode 1799	Total Reward: -1.50	Epsilon: 0.100
Episode 1800	Total Reward: -1.50	Epsilon: 0.100
Episode 1801	Total Reward: 0.00	Epsilon: 0.100
Episode 1802	Total Reward: 1.50	Epsilon: 0.100
Episode 1803	Total Reward: -20.00	Epsilon: 0.100
Episode 1804	Total Reward: 1.50	Epsilon: 0.100
Episode 1805	Total Reward: -6.00	Epsilon: 0.100
Episode 1806	Total Reward: -3.00	Epsilon: 0.100
Episode 1807	Total Reward: 1.50	Epsilon: 0.100
Episode 1808	Total Reward: 0.00	Epsilon: 0.100
Episode 1809	Total Reward: -1.50	Epsilon: 0.100
Episode 1810	Total Reward: 0.00	Epsilon: 0.100
Episode 1811	Total Reward: 0.00	Epsilon: 0.100
Episode 1812	Total Reward: 1.50	Epsilon: 0.100
Episode 1813	Total Reward: 1.50	Epsilon: 0.100
Episode 1814	Total Reward: -17.00	Epsilon: 0.100
Episode 1815	Total Reward: -1.50	Epsilon: 0.100
Episode 1816	Total Reward: -1.50	Epsilon: 0.100
Episode 1817	Total Reward: 1.50	Epsilon: 0.100
Episode 1818	Total Reward: 1.50	Epsilon: 0.100
Episode 1819	Total Reward: -10.50	Epsilon: 0.100
Episode 1820	Total Reward: -10.00	Epsilon: 0.100
Episode 1821	Total Reward: -11.00	Epsilon: 0.100

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Episode 2154	Total Reward:	1.50	Epsilon: 0.100
Episode 2155	Total Reward:	1.50	Epsilon: 0.100
Episode 2156	Total Reward:	0.00	Epsilon: 0.100
Episode 2157	Total Reward:	1.50	Epsilon: 0.100
Episode 2158	Total Reward:	-18.00	Epsilon: 0.100
Episode 2159	Total Reward:	0.00	Epsilon: 0.100
Episode 2160	Total Reward:	1.50	Epsilon: 0.100
Episode 2161	Total Reward:	1.50	Epsilon: 0.100
Episode 2162	Total Reward:	-11.00	Epsilon: 0.100
Episode 2163	Total Reward:	1.50	Epsilon: 0.100
Episode 2164	Total Reward:	0.00	Epsilon: 0.100
Episode 2165	Total Reward:	0.00	Epsilon: 0.100
Episode 2166	Total Reward:	0.00	Epsilon: 0.100
Episode 2167	Total Reward:	-11.00	Epsilon: 0.100
Episode 2168	Total Reward:	1.50	Epsilon: 0.100
Episode 2169	Total Reward:	-12.50	Epsilon: 0.100
Episode 2170	Total Reward:	-1.50	Epsilon: 0.100
Episode 2171	Total Reward:	1.50	Epsilon: 0.100
Episode 2172	Total Reward:	1.50	Epsilon: 0.100
Episode 2173	Total Reward:	0.00	Epsilon: 0.100
Episode 2174	Total Reward:	1.50	Epsilon: 0.100
Episode 2175	Total Reward:	0.00	Epsilon: 0.100
Episode 2176	Total Reward:	-1.50	Epsilon: 0.100
Episode 2177	Total Reward:	0.00	Epsilon: 0.100
Episode 2178	Total Reward:	1.50	Epsilon: 0.100
Episode 2179	Total Reward:	-4.50	Epsilon: 0.100
Episode 2180	Total Reward:	0.00	Epsilon: 0.100
Episode 2181	Total Reward:	-10.00	Epsilon: 0.100
Episode 2182	Total Reward:	1.50	Epsilon: 0.100
Episode 2183	Total Reward:	1.50	Epsilon: 0.100
Episode 2184	Total Reward:	-15.50	Epsilon: 0.100
Episode 2185	Total Reward:	0.00	Epsilon: 0.100
Episode 2186	Total Reward:	1.50	Epsilon: 0.100
Episode 2187	Total Reward:	1.50	Epsilon: 0.100
Episode 2188	Total Reward:	1.50	Epsilon: 0.100
Episode 2189	Total Reward:	1.50	Epsilon: 0.100
Episode 2190	Total Reward:	1.50	Epsilon: 0.100
Episode 2191	Total Reward:	1.50	Epsilon: 0.100
Episode 2192	Total Reward:	0.00	Epsilon: 0.100
Episode 2193	Total Reward:	-15.50	Epsilon: 0.100
Episode 2194	Total Reward:	-11.50	Epsilon: 0.100
Episode 2195	Total Reward:	0.00	Epsilon: 0.100
Episode 2196	Total Reward:	-14.00	Epsilon: 0.100
Episode 2197	Total Reward:	1.50	Epsilon: 0.100
Episode 2198	Total Reward:	0.00	Epsilon: 0.100
Episode 2199	Total Reward:	-4.50	Epsilon: 0.100
Episode 2200	Total Reward:	-10.00	Epsilon: 0.100
Episode 2201	Total Reward:	-10.50	Epsilon: 0.100
Episode 2202	Total Reward:	1.50	Epsilon: 0.100
Episode 2203	Total Reward:	-1.50	Epsilon: 0.100
Episode 2204	Total Reward:	0.00	Epsilon: 0.100
Episode 2205	Total Reward:	-10.00	Epsilon: 0.100
Episode 2206	Total Reward:	-12.50	Epsilon: 0.100
Episode 2207	Total Reward:	-1.50	Epsilon: 0.100
Episode 2208	Total Reward:	1.50	Epsilon: 0.100
Episode 2209	Total Reward:	-19.50	Epsilon: 0.100
Episode 2210	Total Reward:	1.50	Epsilon: 0.100
Episode 2211	Total Reward:	-1.50	Epsilon: 0.100
Episode 2212	Total Reward:	0.00	Epsilon: 0.100
Episode 2213	Total Reward:	0.00	Epsilon: 0.100
Episode 2214	Total Reward:	-1.50	Epsilon: 0.100
Episode 2215	Total Reward:	1.50	Epsilon: 0.100
Episode 2216	Total Reward:	0.00	Epsilon: 0.100
Episode 2217	Total Reward:	1.50	Epsilon: 0.100
Episode 2218	Total Reward:	-10.50	Epsilon: 0.100
Episode 2219	Total Reward:	0.00	Epsilon: 0.100
Episode 2220	Total Reward:	1.50	Epsilon: 0.100
Episode 2221	Total Reward:	-1.50	Epsilon: 0.100
Episode 2222	Total Reward:	1.50	Epsilon: 0.100
Episode 2223	Total Reward:	0.00	Epsilon: 0.100
Episode 2224	Total Reward:	-21.00	Epsilon: 0.100
Episode 2225	Total Reward:	1.50	Epsilon: 0.100
Episode 2226	Total Reward:	-11.50	Epsilon: 0.100
Episode 2227	Total Reward:	-1.50	Epsilon: 0.100
Episode 2228	Total Reward:	0.00	Epsilon: 0.100
Episode 2229	Total Reward:	1.50	Epsilon: 0.100
Episode 2230	Total Reward:	0.00	Epsilon: 0.100
Episode 2231	Total Reward:	1.50	Epsilon: 0.100
Episode 2232	Total Reward:	-18.50	Epsilon: 0.100
Episode 2233	Total Reward:	-10.50	Epsilon: 0.100
Episode 2234	Total Reward:	1.50	Epsilon: 0.100
Episode 2235	Total Reward:	1.50	Epsilon: 0.100
Episode 2236	Total Reward:	-15.50	Epsilon: 0.100

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Episode 2403	Total Reward: -11.00	Epsilon: 0.100
Episode 2404	Total Reward: 0.00	Epsilon: 0.100
Episode 2405	Total Reward: -12.00	Epsilon: 0.100
Episode 2406	Total Reward: -10.00	Epsilon: 0.100
Episode 2407	Total Reward: 1.50	Epsilon: 0.100
Episode 2408	Total Reward: 0.00	Epsilon: 0.100
Episode 2409	Total Reward: 1.50	Epsilon: 0.100
Episode 2410	Total Reward: -16.50	Epsilon: 0.100
Episode 2411	Total Reward: 1.50	Epsilon: 0.100
Episode 2412	Total Reward: 0.00	Epsilon: 0.100
Episode 2413	Total Reward: 0.00	Epsilon: 0.100
Episode 2414	Total Reward: 1.50	Epsilon: 0.100
Episode 2415	Total Reward: -3.00	Epsilon: 0.100
Episode 2416	Total Reward: 1.50	Epsilon: 0.100
Episode 2417	Total Reward: -4.50	Epsilon: 0.100
Episode 2418	Total Reward: 1.50	Epsilon: 0.100
Episode 2419	Total Reward: -1.50	Epsilon: 0.100
Episode 2420	Total Reward: 1.50	Epsilon: 0.100
Episode 2421	Total Reward: 0.00	Epsilon: 0.100
Episode 2422	Total Reward: 1.50	Epsilon: 0.100
Episode 2423	Total Reward: -10.00	Epsilon: 0.100
Episode 2424	Total Reward: 1.50	Epsilon: 0.100
Episode 2425	Total Reward: 1.50	Epsilon: 0.100
Episode 2426	Total Reward: -3.00	Epsilon: 0.100
Episode 2427	Total Reward: 1.50	Epsilon: 0.100
Episode 2428	Total Reward: 1.50	Epsilon: 0.100
Episode 2429	Total Reward: 0.00	Epsilon: 0.100
Episode 2430	Total Reward: 0.00	Epsilon: 0.100
Episode 2431	Total Reward: 1.50	Epsilon: 0.100
Episode 2432	Total Reward: 1.50	Epsilon: 0.100
Episode 2433	Total Reward: 1.50	Epsilon: 0.100
Episode 2434	Total Reward: -26.50	Epsilon: 0.100
Episode 2435	Total Reward: 0.00	Epsilon: 0.100
Episode 2436	Total Reward: -11.50	Epsilon: 0.100
Episode 2437	Total Reward: 1.50	Epsilon: 0.100
Episode 2438	Total Reward: 1.50	Epsilon: 0.100
Episode 2439	Total Reward: 1.50	Epsilon: 0.100
Episode 2440	Total Reward: 1.50	Epsilon: 0.100
Episode 2441	Total Reward: 1.50	Epsilon: 0.100
Episode 2442	Total Reward: 0.00	Epsilon: 0.100
Episode 2443	Total Reward: 0.00	Epsilon: 0.100
Episode 2444	Total Reward: 1.50	Epsilon: 0.100
Episode 2445	Total Reward: 1.50	Epsilon: 0.100
Episode 2446	Total Reward: -18.00	Epsilon: 0.100
Episode 2447	Total Reward: -1.50	Epsilon: 0.100
Episode 2448	Total Reward: -3.00	Epsilon: 0.100
Episode 2449	Total Reward: 1.50	Epsilon: 0.100
Episode 2450	Total Reward: 1.50	Epsilon: 0.100
Episode 2451	Total Reward: -3.00	Epsilon: 0.100
Episode 2452	Total Reward: -18.50	Epsilon: 0.100
Episode 2453	Total Reward: 0.00	Epsilon: 0.100
Episode 2454	Total Reward: -1.50	Epsilon: 0.100
Episode 2455	Total Reward: 0.00	Epsilon: 0.100
Episode 2456	Total Reward: 0.00	Epsilon: 0.100
Episode 2457	Total Reward: 1.50	Epsilon: 0.100
Episode 2458	Total Reward: -4.50	Epsilon: 0.100
Episode 2459	Total Reward: 1.50	Epsilon: 0.100
Episode 2460	Total Reward: -10.00	Epsilon: 0.100
Episode 2461	Total Reward: 0.00	Epsilon: 0.100
Episode 2462	Total Reward: -12.00	Epsilon: 0.100
Episode 2463	Total Reward: 1.50	Epsilon: 0.100
Episode 2464	Total Reward: 0.00	Epsilon: 0.100
Episode 2465	Total Reward: -18.50	Epsilon: 0.100
Episode 2466	Total Reward: 0.00	Epsilon: 0.100
Episode 2467	Total Reward: 0.00	Epsilon: 0.100
Episode 2468	Total Reward: -10.00	Epsilon: 0.100
Episode 2469	Total Reward: 1.50	Epsilon: 0.100
Episode 2470	Total Reward: 0.00	Epsilon: 0.100
Episode 2471	Total Reward: -3.00	Epsilon: 0.100
Episode 2472	Total Reward: 1.50	Epsilon: 0.100
Episode 2473	Total Reward: 0.00	Epsilon: 0.100
Episode 2474	Total Reward: -15.00	Epsilon: 0.100
Episode 2475	Total Reward: -21.50	Epsilon: 0.100
Episode 2476	Total Reward: 0.00	Epsilon: 0.100
Episode 2477	Total Reward: 0.00	Epsilon: 0.100
Episode 2478	Total Reward: 1.50	Epsilon: 0.100
Episode 2479	Total Reward: -18.00	Epsilon: 0.100
Episode 2480	Total Reward: -10.00	Epsilon: 0.100
Episode 2481	Total Reward: -10.50	Epsilon: 0.100
Episode 2482	Total Reward: 0.00	Epsilon: 0.100
Episode 2483	Total Reward: 1.50	Epsilon: 0.100
Episode 2484	Total Reward: 1.50	Epsilon: 0.100
Episode 2485	Total Reward: -12.00	Epsilon: 0.100

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Episode 2818	Total Reward:	1.50	Epsilon: 0.100
Episode 2819	Total Reward:	1.50	Epsilon: 0.100
Episode 2820	Total Reward:	1.50	Epsilon: 0.100
Episode 2821	Total Reward:	1.50	Epsilon: 0.100
Episode 2822	Total Reward:	0.00	Epsilon: 0.100
Episode 2823	Total Reward:	-18.50	Epsilon: 0.100
Episode 2824	Total Reward:	-11.50	Epsilon: 0.100
Episode 2825	Total Reward:	1.50	Epsilon: 0.100
Episode 2826	Total Reward:	0.00	Epsilon: 0.100
Episode 2827	Total Reward:	-3.00	Epsilon: 0.100
Episode 2828	Total Reward:	-12.00	Epsilon: 0.100
Episode 2829	Total Reward:	1.50	Epsilon: 0.100
Episode 2830	Total Reward:	-1.50	Epsilon: 0.100
Episode 2831	Total Reward:	1.50	Epsilon: 0.100
Episode 2832	Total Reward:	0.00	Epsilon: 0.100
Episode 2833	Total Reward:	0.00	Epsilon: 0.100
Episode 2834	Total Reward:	1.50	Epsilon: 0.100
Episode 2835	Total Reward:	1.50	Epsilon: 0.100
Episode 2836	Total Reward:	1.50	Epsilon: 0.100
Episode 2837	Total Reward:	0.00	Epsilon: 0.100
Episode 2838	Total Reward:	0.00	Epsilon: 0.100
Episode 2839	Total Reward:	1.50	Epsilon: 0.100
Episode 2840	Total Reward:	-10.00	Epsilon: 0.100
Episode 2841	Total Reward:	-10.50	Epsilon: 0.100
Episode 2842	Total Reward:	-12.00	Epsilon: 0.100
Episode 2843	Total Reward:	1.50	Epsilon: 0.100
Episode 2844	Total Reward:	-1.50	Epsilon: 0.100
Episode 2845	Total Reward:	-1.50	Epsilon: 0.100
Episode 2846	Total Reward:	1.50	Epsilon: 0.100
Episode 2847	Total Reward:	1.50	Epsilon: 0.100
Episode 2848	Total Reward:	-1.50	Epsilon: 0.100
Episode 2849	Total Reward:	-12.00	Epsilon: 0.100
Episode 2850	Total Reward:	-7.50	Epsilon: 0.100
Episode 2851	Total Reward:	-3.00	Epsilon: 0.100
Episode 2852	Total Reward:	1.50	Epsilon: 0.100
Episode 2853	Total Reward:	-3.00	Epsilon: 0.100
Episode 2854	Total Reward:	-15.50	Epsilon: 0.100
Episode 2855	Total Reward:	1.50	Epsilon: 0.100
Episode 2856	Total Reward:	1.50	Epsilon: 0.100
Episode 2857	Total Reward:	1.50	Epsilon: 0.100
Episode 2858	Total Reward:	1.50	Epsilon: 0.100
Episode 2859	Total Reward:	1.50	Epsilon: 0.100
Episode 2860	Total Reward:	1.50	Epsilon: 0.100
Episode 2861	Total Reward:	-10.50	Epsilon: 0.100
Episode 2862	Total Reward:	-10.00	Epsilon: 0.100
Episode 2863	Total Reward:	1.50	Epsilon: 0.100
Episode 2864	Total Reward:	1.50	Epsilon: 0.100
Episode 2865	Total Reward:	-12.50	Epsilon: 0.100
Episode 2866	Total Reward:	0.00	Epsilon: 0.100
Episode 2867	Total Reward:	1.50	Epsilon: 0.100
Episode 2868	Total Reward:	1.50	Epsilon: 0.100
Episode 2869	Total Reward:	0.00	Epsilon: 0.100
Episode 2870	Total Reward:	-12.00	Epsilon: 0.100
Episode 2871	Total Reward:	-13.50	Epsilon: 0.100
Episode 2872	Total Reward:	1.50	Epsilon: 0.100
Episode 2873	Total Reward:	1.50	Epsilon: 0.100
Episode 2874	Total Reward:	-18.50	Epsilon: 0.100
Episode 2875	Total Reward:	-3.00	Epsilon: 0.100
Episode 2876	Total Reward:	-1.50	Epsilon: 0.100
Episode 2877	Total Reward:	0.00	Epsilon: 0.100
Episode 2878	Total Reward:	-11.50	Epsilon: 0.100
Episode 2879	Total Reward:	1.50	Epsilon: 0.100
Episode 2880	Total Reward:	1.50	Epsilon: 0.100
Episode 2881	Total Reward:	1.50	Epsilon: 0.100
Episode 2882	Total Reward:	-10.50	Epsilon: 0.100
Episode 2883	Total Reward:	0.00	Epsilon: 0.100
Episode 2884	Total Reward:	1.50	Epsilon: 0.100
Episode 2885	Total Reward:	-11.00	Epsilon: 0.100
Episode 2886	Total Reward:	1.50	Epsilon: 0.100
Episode 2887	Total Reward:	-1.50	Epsilon: 0.100
Episode 2888	Total Reward:	0.00	Epsilon: 0.100
Episode 2889	Total Reward:	1.50	Epsilon: 0.100
Episode 2890	Total Reward:	-4.50	Epsilon: 0.100
Episode 2891	Total Reward:	0.00	Epsilon: 0.100
Episode 2892	Total Reward:	-10.50	Epsilon: 0.100
Episode 2893	Total Reward:	-11.00	Epsilon: 0.100
Episode 2894	Total Reward:	-10.50	Epsilon: 0.100
Episode 2895	Total Reward:	0.00	Epsilon: 0.100
Episode 2896	Total Reward:	0.00	Epsilon: 0.100
Episode 2897	Total Reward:	1.50	Epsilon: 0.100
Episode 2898	Total Reward:	0.00	Epsilon: 0.100
Episode 2899	Total Reward:	0.00	Epsilon: 0.100
Episode 2900	Total Reward:	1.50	Epsilon: 0.100

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Episode 3150	Total Reward: 0.00	Epsilon: 0.100
Episode 3151	Total Reward: 0.00	Epsilon: 0.100
Episode 3152	Total Reward: 1.50	Epsilon: 0.100
Episode 3153	Total Reward: 1.50	Epsilon: 0.100
Episode 3154	Total Reward: -3.00	Epsilon: 0.100
Episode 3155	Total Reward: -17.00	Epsilon: 0.100
Episode 3156	Total Reward: 1.50	Epsilon: 0.100
Episode 3157	Total Reward: 0.00	Epsilon: 0.100
Episode 3158	Total Reward: -24.50	Epsilon: 0.100
Episode 3159	Total Reward: -10.00	Epsilon: 0.100
Episode 3160	Total Reward: -15.50	Epsilon: 0.100
Episode 3161	Total Reward: -15.50	Epsilon: 0.100
Episode 3162	Total Reward: -1.50	Epsilon: 0.100
Episode 3163	Total Reward: 0.00	Epsilon: 0.100
Episode 3164	Total Reward: 0.00	Epsilon: 0.100
Episode 3165	Total Reward: 1.50	Epsilon: 0.100
Episode 3166	Total Reward: -3.00	Epsilon: 0.100
Episode 3167	Total Reward: -1.50	Epsilon: 0.100
Episode 3168	Total Reward: -11.50	Epsilon: 0.100
Episode 3169	Total Reward: -1.50	Epsilon: 0.100
Episode 3170	Total Reward: 0.00	Epsilon: 0.100
Episode 3171	Total Reward: -4.50	Epsilon: 0.100
Episode 3172	Total Reward: 1.50	Epsilon: 0.100
Episode 3173	Total Reward: -20.00	Epsilon: 0.100
Episode 3174	Total Reward: -11.50	Epsilon: 0.100
Episode 3175	Total Reward: 1.50	Epsilon: 0.100
Episode 3176	Total Reward: 1.50	Epsilon: 0.100
Episode 3177	Total Reward: -1.50	Epsilon: 0.100
Episode 3178	Total Reward: 1.50	Epsilon: 0.100
Episode 3179	Total Reward: 0.00	Epsilon: 0.100
Episode 3180	Total Reward: 1.50	Epsilon: 0.100
Episode 3181	Total Reward: 1.50	Epsilon: 0.100
Episode 3182	Total Reward: -11.00	Epsilon: 0.100
Episode 3183	Total Reward: -19.50	Epsilon: 0.100
Episode 3184	Total Reward: -10.00	Epsilon: 0.100
Episode 3185	Total Reward: 1.50	Epsilon: 0.100
Episode 3186	Total Reward: 1.50	Epsilon: 0.100
Episode 3187	Total Reward: -18.00	Epsilon: 0.100
Episode 3188	Total Reward: -11.50	Epsilon: 0.100
Episode 3189	Total Reward: 1.50	Epsilon: 0.100
Episode 3190	Total Reward: -11.50	Epsilon: 0.100
Episode 3191	Total Reward: -17.00	Epsilon: 0.100
Episode 3192	Total Reward: 1.50	Epsilon: 0.100
Episode 3193	Total Reward: 0.00	Epsilon: 0.100
Episode 3194	Total Reward: 1.50	Epsilon: 0.100
Episode 3195	Total Reward: -10.00	Epsilon: 0.100
Episode 3196	Total Reward: -17.00	Epsilon: 0.100
Episode 3197	Total Reward: 0.00	Epsilon: 0.100
Episode 3198	Total Reward: 0.00	Epsilon: 0.100
Episode 3199	Total Reward: 1.50	Epsilon: 0.100
Episode 3200	Total Reward: 0.00	Epsilon: 0.100
Episode 3201	Total Reward: -12.00	Epsilon: 0.100
Episode 3202	Total Reward: 0.00	Epsilon: 0.100
Episode 3203	Total Reward: 1.50	Epsilon: 0.100
Episode 3204	Total Reward: -3.00	Epsilon: 0.100
Episode 3205	Total Reward: 0.00	Epsilon: 0.100
Episode 3206	Total Reward: 1.50	Epsilon: 0.100
Episode 3207	Total Reward: -4.50	Epsilon: 0.100
Episode 3208	Total Reward: 0.00	Epsilon: 0.100
Episode 3209	Total Reward: -11.00	Epsilon: 0.100
Episode 3210	Total Reward: 1.50	Epsilon: 0.100
Episode 3211	Total Reward: 1.50	Epsilon: 0.100
Episode 3212	Total Reward: -1.50	Epsilon: 0.100
Episode 3213	Total Reward: -19.50	Epsilon: 0.100
Episode 3214	Total Reward: -10.00	Epsilon: 0.100
Episode 3215	Total Reward: 0.00	Epsilon: 0.100
Episode 3216	Total Reward: -3.00	Epsilon: 0.100
Episode 3217	Total Reward: 0.00	Epsilon: 0.100
Episode 3218	Total Reward: -18.50	Epsilon: 0.100
Episode 3219	Total Reward: -1.50	Epsilon: 0.100
Episode 3220	Total Reward: -11.50	Epsilon: 0.100
Episode 3221	Total Reward: 0.00	Epsilon: 0.100
Episode 3222	Total Reward: 1.50	Epsilon: 0.100
Episode 3223	Total Reward: 1.50	Epsilon: 0.100
Episode 3224	Total Reward: -10.50	Epsilon: 0.100
Episode 3225	Total Reward: -1.50	Epsilon: 0.100
Episode 3226	Total Reward: 1.50	Epsilon: 0.100
Episode 3227	Total Reward: 0.00	Epsilon: 0.100
Episode 3228	Total Reward: 1.50	Epsilon: 0.100
Episode 3229	Total Reward: -1.50	Epsilon: 0.100
Episode 3230	Total Reward: 1.50	Epsilon: 0.100
Episode 3231	Total Reward: 1.50	Epsilon: 0.100
Episode 3232	Total Reward: 0.00	Epsilon: 0.100

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Episode 3648	Total Reward:	-1.50	Epsilon: 0.100
Episode 3649	Total Reward:	0.00	Epsilon: 0.100
Episode 3650	Total Reward:	0.00	Epsilon: 0.100
Episode 3651	Total Reward:	-3.00	Epsilon: 0.100
Episode 3652	Total Reward:	-13.00	Epsilon: 0.100
Episode 3653	Total Reward:	1.50	Epsilon: 0.100
Episode 3654	Total Reward:	-20.00	Epsilon: 0.100
Episode 3655	Total Reward:	0.00	Epsilon: 0.100
Episode 3656	Total Reward:	1.50	Epsilon: 0.100
Episode 3657	Total Reward:	1.50	Epsilon: 0.100
Episode 3658	Total Reward:	1.50	Epsilon: 0.100
Episode 3659	Total Reward:	1.50	Epsilon: 0.100
Episode 3660	Total Reward:	1.50	Epsilon: 0.100
Episode 3661	Total Reward:	0.00	Epsilon: 0.100
Episode 3662	Total Reward:	-12.00	Epsilon: 0.100
Episode 3663	Total Reward:	0.00	Epsilon: 0.100
Episode 3664	Total Reward:	-19.50	Epsilon: 0.100
Episode 3665	Total Reward:	1.50	Epsilon: 0.100
Episode 3666	Total Reward:	-1.50	Epsilon: 0.100
Episode 3667	Total Reward:	0.00	Epsilon: 0.100
Episode 3668	Total Reward:	-16.00	Epsilon: 0.100
Episode 3669	Total Reward:	-17.00	Epsilon: 0.100
Episode 3670	Total Reward:	-3.00	Epsilon: 0.100
Episode 3671	Total Reward:	0.00	Epsilon: 0.100
Episode 3672	Total Reward:	0.00	Epsilon: 0.100
Episode 3673	Total Reward:	0.00	Epsilon: 0.100
Episode 3674	Total Reward:	1.50	Epsilon: 0.100
Episode 3675	Total Reward:	-3.00	Epsilon: 0.100
Episode 3676	Total Reward:	1.50	Epsilon: 0.100
Episode 3677	Total Reward:	1.50	Epsilon: 0.100
Episode 3678	Total Reward:	1.50	Epsilon: 0.100
Episode 3679	Total Reward:	0.00	Epsilon: 0.100
Episode 3680	Total Reward:	-10.50	Epsilon: 0.100
Episode 3681	Total Reward:	-18.50	Epsilon: 0.100
Episode 3682	Total Reward:	1.50	Epsilon: 0.100
Episode 3683	Total Reward:	0.00	Epsilon: 0.100
Episode 3684	Total Reward:	0.00	Epsilon: 0.100
Episode 3685	Total Reward:	1.50	Epsilon: 0.100
Episode 3686	Total Reward:	1.50	Epsilon: 0.100
Episode 3687	Total Reward:	-11.00	Epsilon: 0.100
Episode 3688	Total Reward:	-1.50	Epsilon: 0.100
Episode 3689	Total Reward:	-21.50	Epsilon: 0.100
Episode 3690	Total Reward:	-10.00	Epsilon: 0.100
Episode 3691	Total Reward:	0.00	Epsilon: 0.100
Episode 3692	Total Reward:	0.00	Epsilon: 0.100
Episode 3693	Total Reward:	1.50	Epsilon: 0.100
Episode 3694	Total Reward:	1.50	Epsilon: 0.100
Episode 3695	Total Reward:	1.50	Epsilon: 0.100
Episode 3696	Total Reward:	-3.00	Epsilon: 0.100
Episode 3697	Total Reward:	-1.50	Epsilon: 0.100
Episode 3698	Total Reward:	0.00	Epsilon: 0.100
Episode 3699	Total Reward:	0.00	Epsilon: 0.100
Episode 3700	Total Reward:	-12.00	Epsilon: 0.100
Episode 3701	Total Reward:	0.00	Epsilon: 0.100
Episode 3702	Total Reward:	1.50	Epsilon: 0.100
Episode 3703	Total Reward:	0.00	Epsilon: 0.100
Episode 3704	Total Reward:	1.50	Epsilon: 0.100
Episode 3705	Total Reward:	-11.00	Epsilon: 0.100
Episode 3706	Total Reward:	-3.00	Epsilon: 0.100
Episode 3707	Total Reward:	0.00	Epsilon: 0.100
Episode 3708	Total Reward:	-1.50	Epsilon: 0.100
Episode 3709	Total Reward:	-15.50	Epsilon: 0.100
Episode 3710	Total Reward:	1.50	Epsilon: 0.100
Episode 3711	Total Reward:	-1.50	Epsilon: 0.100
Episode 3712	Total Reward:	0.00	Epsilon: 0.100
Episode 3713	Total Reward:	1.50	Epsilon: 0.100
Episode 3714	Total Reward:	-1.50	Epsilon: 0.100
Episode 3715	Total Reward:	1.50	Epsilon: 0.100
Episode 3716	Total Reward:	-10.50	Epsilon: 0.100
Episode 3717	Total Reward:	-10.50	Epsilon: 0.100
Episode 3718	Total Reward:	-1.50	Epsilon: 0.100
Episode 3719	Total Reward:	-11.50	Epsilon: 0.100
Episode 3720	Total Reward:	0.00	Epsilon: 0.100
Episode 3721	Total Reward:	-10.50	Epsilon: 0.100
Episode 3722	Total Reward:	-1.50	Epsilon: 0.100
Episode 3723	Total Reward:	0.00	Epsilon: 0.100
Episode 3724	Total Reward:	-3.00	Epsilon: 0.100
Episode 3725	Total Reward:	-3.00	Epsilon: 0.100
Episode 3726	Total Reward:	0.00	Epsilon: 0.100
Episode 3727	Total Reward:	1.50	Epsilon: 0.100
Episode 3728	Total Reward:	1.50	Epsilon: 0.100
Episode 3729	Total Reward:	0.00	Epsilon: 0.100
Episode 3730	Total Reward:	-15.50	Epsilon: 0.100

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Episode 3814	Total Reward: -21.50	Epsilon: 0.100
Episode 3815	Total Reward: 1.50	Epsilon: 0.100
Episode 3816	Total Reward: -1.50	Epsilon: 0.100
Episode 3817	Total Reward: 0.00	Epsilon: 0.100
Episode 3818	Total Reward: -1.50	Epsilon: 0.100
Episode 3819	Total Reward: -1.50	Epsilon: 0.100
Episode 3820	Total Reward: 1.50	Epsilon: 0.100
Episode 3821	Total Reward: 1.50	Epsilon: 0.100
Episode 3822	Total Reward: -1.50	Epsilon: 0.100
Episode 3823	Total Reward: 1.50	Epsilon: 0.100
Episode 3824	Total Reward: -12.00	Epsilon: 0.100
Episode 3825	Total Reward: 0.00	Epsilon: 0.100
Episode 3826	Total Reward: -11.00	Epsilon: 0.100
Episode 3827	Total Reward: -4.50	Epsilon: 0.100
Episode 3828	Total Reward: -1.50	Epsilon: 0.100
Episode 3829	Total Reward: -10.00	Epsilon: 0.100
Episode 3830	Total Reward: 0.00	Epsilon: 0.100
Episode 3831	Total Reward: 0.00	Epsilon: 0.100
Episode 3832	Total Reward: 1.50	Epsilon: 0.100
Episode 3833	Total Reward: 0.00	Epsilon: 0.100
Episode 3834	Total Reward: 1.50	Epsilon: 0.100
Episode 3835	Total Reward: 0.00	Epsilon: 0.100
Episode 3836	Total Reward: 0.00	Epsilon: 0.100
Episode 3837	Total Reward: 1.50	Epsilon: 0.100
Episode 3838	Total Reward: -13.50	Epsilon: 0.100
Episode 3839	Total Reward: -13.00	Epsilon: 0.100
Episode 3840	Total Reward: 1.50	Epsilon: 0.100
Episode 3841	Total Reward: -22.50	Epsilon: 0.100
Episode 3842	Total Reward: 0.00	Epsilon: 0.100
Episode 3843	Total Reward: 1.50	Epsilon: 0.100
Episode 3844	Total Reward: -15.50	Epsilon: 0.100
Episode 3845	Total Reward: 1.50	Epsilon: 0.100
Episode 3846	Total Reward: 1.50	Epsilon: 0.100
Episode 3847	Total Reward: 1.50	Epsilon: 0.100
Episode 3848	Total Reward: 1.50	Epsilon: 0.100
Episode 3849	Total Reward: 0.00	Epsilon: 0.100
Episode 3850	Total Reward: 0.00	Epsilon: 0.100
Episode 3851	Total Reward: 0.00	Epsilon: 0.100
Episode 3852	Total Reward: 1.50	Epsilon: 0.100
Episode 3853	Total Reward: -1.50	Epsilon: 0.100
Episode 3854	Total Reward: 1.50	Epsilon: 0.100
Episode 3855	Total Reward: 1.50	Epsilon: 0.100
Episode 3856	Total Reward: 1.50	Epsilon: 0.100
Episode 3857	Total Reward: -10.00	Epsilon: 0.100
Episode 3858	Total Reward: 1.50	Epsilon: 0.100
Episode 3859	Total Reward: -4.50	Epsilon: 0.100
Episode 3860	Total Reward: 1.50	Epsilon: 0.100
Episode 3861	Total Reward: 1.50	Epsilon: 0.100
Episode 3862	Total Reward: -12.00	Epsilon: 0.100
Episode 3863	Total Reward: -3.00	Epsilon: 0.100
Episode 3864	Total Reward: -19.50	Epsilon: 0.100
Episode 3865	Total Reward: 1.50	Epsilon: 0.100
Episode 3866	Total Reward: -12.00	Epsilon: 0.100
Episode 3867	Total Reward: 0.00	Epsilon: 0.100
Episode 3868	Total Reward: -1.50	Epsilon: 0.100
Episode 3869	Total Reward: 1.50	Epsilon: 0.100
Episode 3870	Total Reward: -18.00	Epsilon: 0.100
Episode 3871	Total Reward: 1.50	Epsilon: 0.100
Episode 3872	Total Reward: 1.50	Epsilon: 0.100
Episode 3873	Total Reward: 1.50	Epsilon: 0.100
Episode 3874	Total Reward: 1.50	Epsilon: 0.100
Episode 3875	Total Reward: 1.50	Epsilon: 0.100
Episode 3876	Total Reward: 1.50	Epsilon: 0.100
Episode 3877	Total Reward: 0.00	Epsilon: 0.100
Episode 3878	Total Reward: -15.50	Epsilon: 0.100
Episode 3879	Total Reward: -1.50	Epsilon: 0.100
Episode 3880	Total Reward: -12.00	Epsilon: 0.100
Episode 3881	Total Reward: -11.50	Epsilon: 0.100
Episode 3882	Total Reward: 0.00	Epsilon: 0.100
Episode 3883	Total Reward: 0.00	Epsilon: 0.100
Episode 3884	Total Reward: 1.50	Epsilon: 0.100
Episode 3885	Total Reward: -10.00	Epsilon: 0.100
Episode 3886	Total Reward: 0.00	Epsilon: 0.100
Episode 3887	Total Reward: 1.50	Epsilon: 0.100
Episode 3888	Total Reward: 1.50	Epsilon: 0.100
Episode 3889	Total Reward: -1.50	Epsilon: 0.100
Episode 3890	Total Reward: -24.50	Epsilon: 0.100
Episode 3891	Total Reward: 1.50	Epsilon: 0.100
Episode 3892	Total Reward: 0.00	Epsilon: 0.100
Episode 3893	Total Reward: -11.00	Epsilon: 0.100
Episode 3894	Total Reward: 0.00	Epsilon: 0.100
Episode 3895	Total Reward: -1.50	Epsilon: 0.100
Episode 3896	Total Reward: 0.00	Epsilon: 0.100

Episode 3897	Total	Reward: 0.00	Epsilon: 0.100
Episode 3898	Total	Reward: -1.50	Epsilon: 0.100
Episode 3899	Total	Reward: -12.00	Epsilon: 0.100
Episode 3900	Total	Reward: 1.50	Epsilon: 0.100
Episode 3901	Total	Reward: 1.50	Epsilon: 0.100
Episode 3902	Total	Reward: -10.00	Epsilon: 0.100
Episode 3903	Total	Reward: -1.50	Epsilon: 0.100
Episode 3904	Total	Reward: -17.00	Epsilon: 0.100
Episode 3905	Total	Reward: -6.00	Epsilon: 0.100
Episode 3906	Total	Reward: -10.00	Epsilon: 0.100
Episode 3907	Total	Reward: -11.00	Epsilon: 0.100
Episode 3908	Total	Reward: 1.50	Epsilon: 0.100
Episode 3909	Total	Reward: -10.00	Epsilon: 0.100
Episode 3910	Total	Reward: -3.00	Epsilon: 0.100
Episode 3911	Total	Reward: 0.00	Epsilon: 0.100
Episode 3912	Total	Reward: 1.50	Epsilon: 0.100
Episode 3913	Total	Reward: -18.50	Epsilon: 0.100
Episode 3914	Total	Reward: 0.00	Epsilon: 0.100
Episode 3915	Total	Reward: 0.00	Epsilon: 0.100
Episode 3916	Total	Reward: -15.00	Epsilon: 0.100
Episode 3917	Total	Reward: 0.00	Epsilon: 0.100
Episode 3918	Total	Reward: -10.50	Epsilon: 0.100
Episode 3919	Total	Reward: 1.50	Epsilon: 0.100
Episode 3920	Total	Reward: 1.50	Epsilon: 0.100
Episode 3921	Total	Reward: -1.50	Epsilon: 0.100
Episode 3922	Total	Reward: 0.00	Epsilon: 0.100
Episode 3923	Total	Reward: -4.50	Epsilon: 0.100
Episode 3924	Total	Reward: -18.50	Epsilon: 0.100
Episode 3925	Total	Reward: 1.50	Epsilon: 0.100
Episode 3926	Total	Reward: 1.50	Epsilon: 0.100
Episode 3927	Total	Reward: 1.50	Epsilon: 0.100
Episode 3928	Total	Reward: -21.50	Epsilon: 0.100
Episode 3929	Total	Reward: -15.50	Epsilon: 0.100
Episode 3930	Total	Reward: 0.00	Epsilon: 0.100
Episode 3931	Total	Reward: -3.00	Epsilon: 0.100
Episode 3932	Total	Reward: -1.50	Epsilon: 0.100
Episode 3933	Total	Reward: 0.00	Epsilon: 0.100
Episode 3934	Total	Reward: 1.50	Epsilon: 0.100
Episode 3935	Total	Reward: 1.50	Epsilon: 0.100
Episode 3936	Total	Reward: -20.00	Epsilon: 0.100
Episode 3937	Total	Reward: 1.50	Epsilon: 0.100
Episode 3938	Total	Reward: -20.50	Epsilon: 0.100
Episode 3939	Total	Reward: 1.50	Epsilon: 0.100
Episode 3940	Total	Reward: -20.00	Epsilon: 0.100
Episode 3941	Total	Reward: 1.50	Epsilon: 0.100
Episode 3942	Total	Reward: 1.50	Epsilon: 0.100
Episode 3943	Total	Reward: 0.00	Epsilon: 0.100
Episode 3944	Total	Reward: 0.00	Epsilon: 0.100
Episode 3945	Total	Reward: 1.50	Epsilon: 0.100
Episode 3946	Total	Reward: 0.00	Epsilon: 0.100
Episode 3947	Total	Reward: -3.00	Epsilon: 0.100
Episode 3948	Total	Reward: 0.00	Epsilon: 0.100
Episode 3949	Total	Reward: 0.00	Epsilon: 0.100
Episode 3950	Total	Reward: -10.50	Epsilon: 0.100
Episode 3951	Total	Reward: 1.50	Epsilon: 0.100
Episode 3952	Total	Reward: -11.50	Epsilon: 0.100
Episode 3953	Total	Reward: 0.00	Epsilon: 0.100
Episode 3954	Total	Reward: -1.50	Epsilon: 0.100
Episode 3955	Total	Reward: 0.00	Epsilon: 0.100
Episode 3956	Total	Reward: 0.00	Epsilon: 0.100
Episode 3957	Total	Reward: -10.00	Epsilon: 0.100
Episode 3958	Total	Reward: 1.50	Epsilon: 0.100
Episode 3959	Total	Reward: -10.00	Epsilon: 0.100
Episode 3960	Total	Reward: 1.50	Epsilon: 0.100
Episode 3961	Total	Reward: 1.50	Epsilon: 0.100
Episode 3962	Total	Reward: 0.00	Epsilon: 0.100
Episode 3963	Total	Reward: 1.50	Epsilon: 0.100
Episode 3964	Total	Reward: -10.00	Epsilon: 0.100
Episode 3965	Total	Reward: 0.00	Epsilon: 0.100
Episode 3966	Total	Reward: -1.50	Epsilon: 0.100
Episode 3967	Total	Reward: 1.50	Epsilon: 0.100
Episode 3968	Total	Reward: 1.50	Epsilon: 0.100
Episode 3969	Total	Reward: 1.50	Epsilon: 0.100
Episode 3970	Total	Reward: 1.50	Epsilon: 0.100
Episode 3971	Total	Reward: 1.50	Epsilon: 0.100
Episode 3972	Total	Reward: 0.00	Epsilon: 0.100
Episode 3973	Total	Reward: 1.50	Epsilon: 0.100
Episode 3974	Total	Reward: 1.50	Epsilon: 0.100
Episode 3975	Total	Reward: 0.00	Epsilon: 0.100
Episode 3976	Total	Reward: 1.50	Epsilon: 0.100
Episode 3977	Total	Reward: 1.50	Epsilon: 0.100
Episode 3978	Total	Reward: 1.50	Epsilon: 0.100
Episode 3979	Total	Reward: 1.50	Epsilon: 0.100

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Episode 4478	Total Reward: -10.00	Epsilon: 0.100
Episode 4479	Total Reward: -3.00	Epsilon: 0.100
Episode 4480	Total Reward: -19.50	Epsilon: 0.100
Episode 4481	Total Reward: 1.50	Epsilon: 0.100
Episode 4482	Total Reward: -6.00	Epsilon: 0.100
Episode 4483	Total Reward: 0.00	Epsilon: 0.100
Episode 4484	Total Reward: 1.50	Epsilon: 0.100
Episode 4485	Total Reward: -1.50	Epsilon: 0.100
Episode 4486	Total Reward: -10.50	Epsilon: 0.100
Episode 4487	Total Reward: -1.50	Epsilon: 0.100
Episode 4488	Total Reward: -7.50	Epsilon: 0.100
Episode 4489	Total Reward: 1.50	Epsilon: 0.100
Episode 4490	Total Reward: 1.50	Epsilon: 0.100
Episode 4491	Total Reward: -12.00	Epsilon: 0.100
Episode 4492	Total Reward: -12.00	Epsilon: 0.100
Episode 4493	Total Reward: -21.50	Epsilon: 0.100
Episode 4494	Total Reward: -11.50	Epsilon: 0.100
Episode 4495	Total Reward: -3.00	Epsilon: 0.100
Episode 4496	Total Reward: 0.00	Epsilon: 0.100
Episode 4497	Total Reward: -11.50	Epsilon: 0.100
Episode 4498	Total Reward: -3.00	Epsilon: 0.100
Episode 4499	Total Reward: -12.00	Epsilon: 0.100
Episode 4500	Total Reward: 0.00	Epsilon: 0.100
Episode 4501	Total Reward: 0.00	Epsilon: 0.100
Episode 4502	Total Reward: -15.50	Epsilon: 0.100
Episode 4503	Total Reward: 0.00	Epsilon: 0.100
Episode 4504	Total Reward: 0.00	Epsilon: 0.100
Episode 4505	Total Reward: -10.50	Epsilon: 0.100
Episode 4506	Total Reward: 1.50	Epsilon: 0.100
Episode 4507	Total Reward: 0.00	Epsilon: 0.100
Episode 4508	Total Reward: 0.00	Epsilon: 0.100
Episode 4509	Total Reward: 0.00	Epsilon: 0.100
Episode 4510	Total Reward: 1.50	Epsilon: 0.100
Episode 4511	Total Reward: -17.00	Epsilon: 0.100
Episode 4512	Total Reward: 0.00	Epsilon: 0.100
Episode 4513	Total Reward: 0.00	Epsilon: 0.100
Episode 4514	Total Reward: 1.50	Epsilon: 0.100
Episode 4515	Total Reward: 0.00	Epsilon: 0.100
Episode 4516	Total Reward: 0.00	Epsilon: 0.100
Episode 4517	Total Reward: -11.50	Epsilon: 0.100
Episode 4518	Total Reward: 0.00	Epsilon: 0.100
Episode 4519	Total Reward: 1.50	Epsilon: 0.100
Episode 4520	Total Reward: 0.00	Epsilon: 0.100
Episode 4521	Total Reward: -4.50	Epsilon: 0.100
Episode 4522	Total Reward: 0.00	Epsilon: 0.100
Episode 4523	Total Reward: 0.00	Epsilon: 0.100
Episode 4524	Total Reward: 0.00	Epsilon: 0.100
Episode 4525	Total Reward: 1.50	Epsilon: 0.100
Episode 4526	Total Reward: 0.00	Epsilon: 0.100
Episode 4527	Total Reward: -1.50	Epsilon: 0.100
Episode 4528	Total Reward: -11.50	Epsilon: 0.100
Episode 4529	Total Reward: 1.50	Epsilon: 0.100
Episode 4530	Total Reward: 1.50	Epsilon: 0.100
Episode 4531	Total Reward: 0.00	Epsilon: 0.100
Episode 4532	Total Reward: 0.00	Epsilon: 0.100
Episode 4533	Total Reward: 0.00	Epsilon: 0.100
Episode 4534	Total Reward: 0.00	Epsilon: 0.100
Episode 4535	Total Reward: 0.00	Epsilon: 0.100
Episode 4536	Total Reward: -3.00	Epsilon: 0.100
Episode 4537	Total Reward: 0.00	Epsilon: 0.100
Episode 4538	Total Reward: 0.00	Epsilon: 0.100
Episode 4539	Total Reward: -3.00	Epsilon: 0.100
Episode 4540	Total Reward: -1.50	Epsilon: 0.100
Episode 4541	Total Reward: 1.50	Epsilon: 0.100
Episode 4542	Total Reward: 1.50	Epsilon: 0.100
Episode 4543	Total Reward: -1.50	Epsilon: 0.100
Episode 4544	Total Reward: -10.00	Epsilon: 0.100
Episode 4545	Total Reward: -1.50	Epsilon: 0.100
Episode 4546	Total Reward: 0.00	Epsilon: 0.100
Episode 4547	Total Reward: 0.00	Epsilon: 0.100
Episode 4548	Total Reward: 0.00	Epsilon: 0.100
Episode 4549	Total Reward: 1.50	Epsilon: 0.100
Episode 4550	Total Reward: 1.50	Epsilon: 0.100
Episode 4551	Total Reward: 1.50	Epsilon: 0.100
Episode 4552	Total Reward: -1.50	Epsilon: 0.100
Episode 4553	Total Reward: -3.00	Epsilon: 0.100
Episode 4554	Total Reward: 0.00	Epsilon: 0.100
Episode 4555	Total Reward: -3.00	Epsilon: 0.100
Episode 4556	Total Reward: 0.00	Epsilon: 0.100
Episode 4557	Total Reward: 1.50	Epsilon: 0.100
Episode 4558	Total Reward: -10.00	Epsilon: 0.100
Episode 4559	Total Reward: -10.00	Epsilon: 0.100
Episode 4560	Total Reward: 1.50	Epsilon: 0.100

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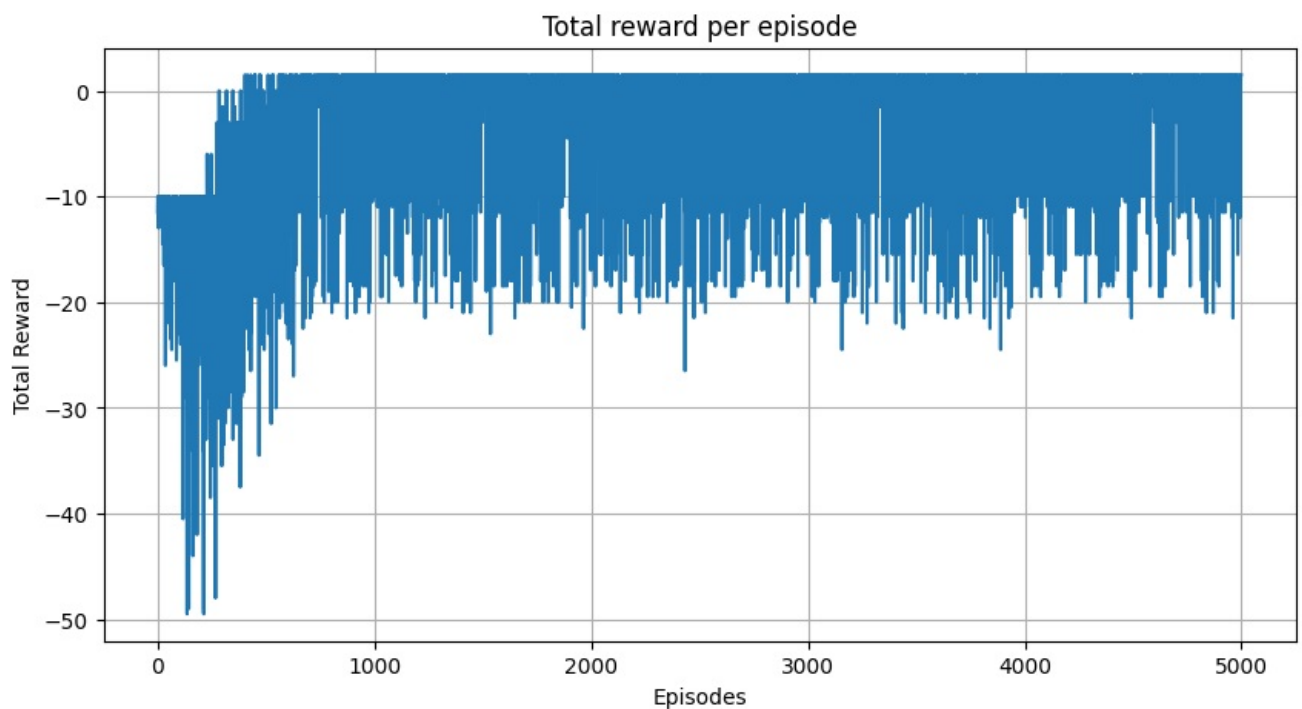
Episode 4810	Total Reward: -3.00	Epsilon: 0.100
Episode 4811	Total Reward: -1.50	Epsilon: 0.100
Episode 4812	Total Reward: 0.00	Epsilon: 0.100
Episode 4813	Total Reward: 0.00	Epsilon: 0.100
Episode 4814	Total Reward: -11.00	Epsilon: 0.100
Episode 4815	Total Reward: 1.50	Epsilon: 0.100
Episode 4816	Total Reward: -12.00	Epsilon: 0.100
Episode 4817	Total Reward: -11.00	Epsilon: 0.100
Episode 4818	Total Reward: -18.00	Epsilon: 0.100
Episode 4819	Total Reward: 1.50	Epsilon: 0.100
Episode 4820	Total Reward: -1.50	Epsilon: 0.100
Episode 4821	Total Reward: 0.00	Epsilon: 0.100
Episode 4822	Total Reward: -19.50	Epsilon: 0.100
Episode 4823	Total Reward: -15.50	Epsilon: 0.100
Episode 4824	Total Reward: -3.00	Epsilon: 0.100
Episode 4825	Total Reward: -3.00	Epsilon: 0.100
Episode 4826	Total Reward: -12.00	Epsilon: 0.100
Episode 4827	Total Reward: 1.50	Epsilon: 0.100
Episode 4828	Total Reward: 0.00	Epsilon: 0.100
Episode 4829	Total Reward: -11.00	Epsilon: 0.100
Episode 4830	Total Reward: 1.50	Epsilon: 0.100
Episode 4831	Total Reward: 0.00	Epsilon: 0.100
Episode 4832	Total Reward: 0.00	Epsilon: 0.100
Episode 4833	Total Reward: 0.00	Epsilon: 0.100
Episode 4834	Total Reward: 1.50	Epsilon: 0.100
Episode 4835	Total Reward: -11.50	Epsilon: 0.100
Episode 4836	Total Reward: 1.50	Epsilon: 0.100
Episode 4837	Total Reward: -1.50	Epsilon: 0.100
Episode 4838	Total Reward: -3.00	Epsilon: 0.100
Episode 4839	Total Reward: -21.00	Epsilon: 0.100
Episode 4840	Total Reward: 0.00	Epsilon: 0.100
Episode 4841	Total Reward: 1.50	Epsilon: 0.100
Episode 4842	Total Reward: -1.50	Epsilon: 0.100
Episode 4843	Total Reward: -17.00	Epsilon: 0.100
Episode 4844	Total Reward: 1.50	Epsilon: 0.100
Episode 4845	Total Reward: 0.00	Epsilon: 0.100
Episode 4846	Total Reward: 1.50	Epsilon: 0.100
Episode 4847	Total Reward: 0.00	Epsilon: 0.100
Episode 4848	Total Reward: 0.00	Epsilon: 0.100
Episode 4849	Total Reward: 0.00	Epsilon: 0.100
Episode 4850	Total Reward: -1.50	Epsilon: 0.100
Episode 4851	Total Reward: 1.50	Epsilon: 0.100
Episode 4852	Total Reward: 0.00	Epsilon: 0.100
Episode 4853	Total Reward: -11.50	Epsilon: 0.100
Episode 4854	Total Reward: 1.50	Epsilon: 0.100
Episode 4855	Total Reward: -10.00	Epsilon: 0.100
Episode 4856	Total Reward: -10.50	Epsilon: 0.100
Episode 4857	Total Reward: 0.00	Epsilon: 0.100
Episode 4858	Total Reward: 1.50	Epsilon: 0.100
Episode 4859	Total Reward: 1.50	Epsilon: 0.100
Episode 4860	Total Reward: 0.00	Epsilon: 0.100
Episode 4861	Total Reward: 1.50	Epsilon: 0.100
Episode 4862	Total Reward: 1.50	Epsilon: 0.100
Episode 4863	Total Reward: -12.00	Epsilon: 0.100
Episode 4864	Total Reward: 0.00	Epsilon: 0.100
Episode 4865	Total Reward: 0.00	Epsilon: 0.100
Episode 4866	Total Reward: 1.50	Epsilon: 0.100
Episode 4867	Total Reward: -3.00	Epsilon: 0.100
Episode 4868	Total Reward: 1.50	Epsilon: 0.100
Episode 4869	Total Reward: 0.00	Epsilon: 0.100
Episode 4870	Total Reward: -4.50	Epsilon: 0.100
Episode 4871	Total Reward: -21.00	Epsilon: 0.100
Episode 4872	Total Reward: 1.50	Epsilon: 0.100
Episode 4873	Total Reward: 0.00	Epsilon: 0.100
Episode 4874	Total Reward: -1.50	Epsilon: 0.100
Episode 4875	Total Reward: -1.50	Epsilon: 0.100
Episode 4876	Total Reward: 0.00	Epsilon: 0.100
Episode 4877	Total Reward: 0.00	Epsilon: 0.100
Episode 4878	Total Reward: 1.50	Epsilon: 0.100
Episode 4879	Total Reward: 0.00	Epsilon: 0.100
Episode 4880	Total Reward: 1.50	Epsilon: 0.100
Episode 4881	Total Reward: -1.50	Epsilon: 0.100
Episode 4882	Total Reward: -3.00	Epsilon: 0.100
Episode 4883	Total Reward: -1.50	Epsilon: 0.100
Episode 4884	Total Reward: 0.00	Epsilon: 0.100
Episode 4885	Total Reward: -1.50	Epsilon: 0.100
Episode 4886	Total Reward: -10.00	Epsilon: 0.100
Episode 4887	Total Reward: 1.50	Epsilon: 0.100
Episode 4888	Total Reward: 1.50	Epsilon: 0.100
Episode 4889	Total Reward: -10.00	Epsilon: 0.100
Episode 4890	Total Reward: -18.00	Epsilon: 0.100
Episode 4891	Total Reward: 0.00	Epsilon: 0.100
Episode 4892	Total Reward: 1.50	Epsilon: 0.100

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Episode 4976	Total Reward: 1.50	Epsilon: 0.100
Episode 4977	Total Reward: -4.50	Epsilon: 0.100
Episode 4978	Total Reward: 0.00	Epsilon: 0.100
Episode 4979	Total Reward: 1.50	Epsilon: 0.100
Episode 4980	Total Reward: 0.00	Epsilon: 0.100
Episode 4981	Total Reward: -10.00	Epsilon: 0.100
Episode 4982	Total Reward: 1.50	Epsilon: 0.100
Episode 4983	Total Reward: 0.00	Epsilon: 0.100
Episode 4984	Total Reward: -15.50	Epsilon: 0.100
Episode 4985	Total Reward: -11.00	Epsilon: 0.100
Episode 4986	Total Reward: -10.50	Epsilon: 0.100
Episode 4987	Total Reward: -10.00	Epsilon: 0.100
Episode 4988	Total Reward: -10.50	Epsilon: 0.100
Episode 4989	Total Reward: -11.50	Epsilon: 0.100
Episode 4990	Total Reward: 0.00	Epsilon: 0.100
Episode 4991	Total Reward: -10.50	Epsilon: 0.100
Episode 4992	Total Reward: 1.50	Epsilon: 0.100
Episode 4993	Total Reward: 1.50	Epsilon: 0.100
Episode 4994	Total Reward: 0.00	Epsilon: 0.100
Episode 4995	Total Reward: -12.00	Epsilon: 0.100
Episode 4996	Total Reward: -4.50	Epsilon: 0.100
Episode 4997	Total Reward: -1.50	Epsilon: 0.100
Episode 4998	Total Reward: 1.50	Epsilon: 0.100
Episode 4999	Total Reward: 1.50	Epsilon: 0.100
Episode 5000	Total Reward: 1.50	Epsilon: 0.100

Step 5 : Plot the Rewards per episodes

```
In [11]: # Plotting the results
plt.figure(figsize=(10, 5))
plt.plot(total_rewards)
plt.xlabel("Episodes")
plt.ylabel("Total Reward")
plt.title("Total reward per episode")
plt.grid(True)
plt.show()
```



Note : We have trained our Model again

Interpretation

Start (Episodes 0–500):

- The total rewards are mostly negative, with sharp drops. This shows:
- The agents are exploring randomly (ϵ -greedy).
- They're often hitting obstacles or making invalid moves.
- They're still "learning" what works.

Middle Phase (500–1500):

- You can see a clear increase in total rewards.
- The agents are starting to learn from experience replay.

- Q-values are improving, and policies are being updated correctly.

Later Phase (1500–5000):

- The graph flattens around a stable reward range, usually between 0 and -20.
- This suggests the agents are learning reasonably well, but still occasionally:
- Get stuck.
- Don't complete the task optimally.
- Stability means convergence is happening.

Reward Oscillation (Through all episodes):

- Some spikes down (e.g., -40 to -50) even later in training:
- That's due to the exploration (even if ϵ is small).
- Or complex layouts that are harder to navigate.

Step 6 : Visualize Trained Agent

```
In [12]: import time
import os

def display_grid(agent_pos, goal, obstacles, grid_size=(10, 10)):
    os.system('clear') # use 'cls' for Windows
    for i in range(grid_size[0]):
        row = ""
        for j in range(grid_size[1]):
            pos = (i, j)
            if pos == agent_pos:
                row += " "
            elif pos == goal:
                row += " "
            elif pos in obstacles:
                row += " "
            else:
                row += "□ "
        print(row)
    print("\n")

# Start from initial state
state = env.reset()
path = [state]
done = False

print(" Visualizing trained agent on 10x10 grid...")

# Delay between steps (for animation)
step_delay = 0.5

# Show grid before starting
display_grid(state, env.goal, env.obstacles)

while not done:
    time.sleep(step_delay)
    action_idx = np.argmax(Q[state])
    next_state, reward, done = env.step(env.actions[action_idx])
    state = next_state
    path.append(state)
    display_grid(state, env.goal, env.obstacles)

print("✔ Agent reached the goal or terminated.")
print(" Final path:", path)
```

Visualizing trained agent on 10x10 grid...

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```

✔ Agent reached the goal or terminated.
 Final path: [(0, 0), (0, 1), (0, 2), (0, 3), (0, 4), (1, 4), (2, 4), (2, 5), (3, 5), (3, 6), (4, 6), (5, 6), (5, 7), (5, 8), (6, 8), (7, 8), (7, 9), (8, 9), (9, 9)]

Grid Representation

Each grid frame you see is a snapshot of the agent’s position on a 10×10 grid:

Symbol	Meaning
⬆	Agent’s current position
■	Obstacle (can’t move through)
⬆	Goal (the delivery location)
□	Empty/free space

What’s Happening in Each Frame

- The agent starts at (0, 0) — shown in the top-left as ⬆
- It moves step by step, avoiding obstacles
- Each step shows the updated position of ⬆ on the grid
- When ⬆ reaches ⬆, the run ends with: ✔ Agent reached the goal or terminated.

Final path: [(0, 0), (1, 0), (2, 0), (3, 0), (3, 1), (4, 1), (5, 1), (5, 2), (5, 3), (6, 3), (7, 3), (7, 4), (8, 4), (9, 4), (9, 5), (9, 6), (9, 7), (9, 8), (9, 9)]

DQN Explanation

What is DQN?

Deep Q-Network, or DQN for short, is a Reinforcement Learning algorithm that blends Deep Learning and Q-Learning.

Conventional Q-learning involves the agent storing Q-values (anticipated future rewards) in a Q-table for each pair of states and actions. However, this method is not practical in the following situations:

- The state space is large or continuous (such as coordinates or pictures).
- We are unable to immediately save or update every Q-value.

DQN addresses this by approximating the Q-values using a neural network rather than a table.

How DQN Works

Step	Description
1. Neural Network	A deep neural network (usually fully connected or CNN) is used to approximate the Q-function: $Q(s, a)$.
2. Input	The state (like a grid, coordinates, or image) is fed into the network.
3. Output	The network outputs a Q-value for each possible action in that state.
4. Action Selection	The agent uses ϵ -greedy policy: choose the action with the highest Q-value most of the time, but sometimes explores randomly.
5. Training	After performing the action, the agent receives a reward and updates the network using the Bellman Equation.
6. Replay Buffer	Transitions (state, action, reward, next_state) are stored in memory and randomly sampled during training to stabilize learning.
7. Target Network	A copy of the network (target network) is used to compute the next Q-value to avoid unstable updates. It's updated every few steps.

Bellman Update Equation (used in DQN):

$$Q(s, a) = r + \gamma \cdot \max_a Q(s', a)$$

Where:

- $Q(s, a)$ is the predicted value of taking action a in state s
- r is the reward received
- γ is the discount factor (future reward importance)
- $\max_a Q(s', a)$ is the maximum Q-value from the next state

Advantages of DQN

- Works with **high-dimensional states** (e.g., images, coordinates)
- Learns **policies in complex environments** like games or robotic simulations
- **No need to store a large Q-table**

Summary

DQN is a powerful algorithm that allows an agent to learn optimal actions in large or continuous environments by using a **neural network** to estimate future rewards and update itself through experience.

DQN Implementation for Warehouse

DQN Architecture Overview:

Component	Description
Input	(x, y) position of the agent
Output	Q-values for each of 4 actions
Network	Simple Feedforward Neural Network (MLP)
Optimizer	Adam
Loss Function	Mean Squared Error (MSE)
Technique	Experience Replay + ϵ -greedy

Phase 3: DQN Implementation for Warehouse

Step 1 : Build the Neural Network & Replay Buffer

In [13]:

```
import torch
import torch.nn as nn
import torch.optim as optim
import random
import numpy as np
from collections import deque
import matplotlib.pyplot as plt
```

```

class MoveToGoalEnv:
    def __init__(self, grid_size=(10, 10), goal=(9, 9), obstacles=None):
        self.grid_size = grid_size
        self.goal = goal
        self.start = (0, 0)
        self.position = self.start
        self.actions = ['up', 'down', 'left', 'right']
        self.obstacles = obstacles if obstacles else []

    def reset(self):
        self.position = self.start
        return self.position

    def manhattan(self, p1, p2):
        return abs(p1[0] - p2[0]) + abs(p1[1] - p2[1])

    def step(self, action):
        x, y = self.position
        old_dist = self.manhattan(self.position, self.goal)

        if action == 'up':
            x -= 1
        elif action == 'down':
            x += 1
        elif action == 'left':
            y -= 1
        elif action == 'right':
            y += 1

        new_pos = (x, y)

        if not (0 <= x < self.grid_size[0] and 0 <= y < self.grid_size[1]):
            return self.position, -10, True

        if new_pos in self.obstacles:
            return self.position, -10, True

        if new_pos == self.goal:
            self.position = new_pos
            return self.position, +10, True

        self.position = new_pos
        new_dist = self.manhattan(new_pos, self.goal)

        reward = -1
        if new_dist < old_dist:
            reward += 0.5 # reward shaping

        return self.position, reward, False

```

```

In [14]: class DQN(nn.Module):
    def __init__(self, input_dim=2, output_dim=4):
        super(DQN, self).__init__()
        self.net = nn.Sequential(
            nn.Linear(input_dim, 64),
            nn.ReLU(),
            nn.Linear(64, 32),
            nn.ReLU(),
            nn.Linear(32, output_dim)
        )

    def forward(self, x):
        return self.net(x)

class ReplayBuffer:
    def __init__(self, capacity=2000):
        self.buffer = deque(maxlen=capacity)

    def push(self, state, action, reward, next_state, done):
        self.buffer.append((state, action, reward, next_state, done))

    def sample(self, batch_size):
        indices = random.sample(range(len(self.buffer)), batch_size)
        batch = [self.buffer[i] for i in indices]
        states, actions, rewards, next_states, dones = zip(*batch)
        return (np.array(states), actions, rewards, np.array(next_states), dones)

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

```

Step 2 : DQN Training Code

In [15]:

```
env = MoveToGoalEnv(goal=(9, 9), obstacles=[(2, 2), (3, 3), (4, 4), (5, 5)])
device = torch.device("cpu")

model = DQN().to(device)
target_model = DQN().to(device)
target_model.load_state_dict(model.state_dict())

optimizer = optim.Adam(model.parameters(), lr=0.001)
loss_fn = nn.MSELoss()
buffer = ReplayBuffer()

# Training Parameters
episodes = 5000
batch_size = 32
gamma = 0.95
epsilon = 1.0
epsilon_decay = 0.995
min_epsilon = 0.1
target_update = 10
max_steps = 50
rewards = []

for episode in range(episodes):
    state = env.reset()
    total_reward = 0
    done = False
    steps = 0

    while not done and steps < max_steps:
        state_tensor = torch.FloatTensor(state).unsqueeze(0).to(device)
        if random.random() < epsilon:
            action = random.randint(0, 3)
        else:
            with torch.no_grad():
                q_vals = model(state_tensor)
                action = q_vals.argmax().item()

        next_state, reward, done = env.step(env.actions[action])
        buffer.push(state, action, reward, next_state, done)
        state = next_state
        total_reward += reward
        steps += 1

    if len(buffer) >= batch_size:
        states, actions, rewards_b, next_states, dones = buffer.sample(batch_size)
        states = torch.FloatTensor(states).to(device)
        next_states = torch.FloatTensor(next_states).to(device)
        actions = torch.LongTensor(actions).unsqueeze(1).to(device)
        rewards_b = torch.FloatTensor(rewards_b).unsqueeze(1).to(device)
        dones = torch.FloatTensor(dones).unsqueeze(1).to(device)

        q_values = model(states).gather(1, actions)
        next_q = target_model(next_states).max(1)[0].detach().unsqueeze(1)
        target = rewards_b + gamma * next_q * (1 - dones)

        loss = loss_fn(q_values, target)

        optimizer.zero_grad()
        loss.backward()
        optimizer.step()

    epsilon = max(min_epsilon, epsilon * epsilon_decay)
    rewards.append(total_reward)

    if episode % target_update == 0:
        target_model.load_state_dict(model.state_dict())

    print(f"Episode {episode + 1} | Total Reward: {total_reward:.2f} | Epsilon: {epsilon:.3f}")
```

```
Episode 1 | Total Reward: -10.50 | Epsilon: 0.995
Episode 2 | Total Reward: -13.00 | Epsilon: 0.990
Episode 3 | Total Reward: -10.50 | Epsilon: 0.985
Episode 4 | Total Reward: -10.00 | Epsilon: 0.980
Episode 5 | Total Reward: -10.50 | Epsilon: 0.975
Episode 6 | Total Reward: -10.00 | Epsilon: 0.970
Episode 7 | Total Reward: -10.00 | Epsilon: 0.966
Episode 8 | Total Reward: -10.50 | Epsilon: 0.961
Episode 9 | Total Reward: -10.00 | Epsilon: 0.956
Episode 10 | Total Reward: -10.00 | Epsilon: 0.951
Episode 11 | Total Reward: -14.50 | Epsilon: 0.946
Episode 12 | Total Reward: -10.00 | Epsilon: 0.942
Episode 13 | Total Reward: -12.50 | Epsilon: 0.937
Episode 14 | Total Reward: -26.00 | Epsilon: 0.932
```

Episode 15	Total Reward: -10.00	Epsilon: 0.928
Episode 16	Total Reward: -11.50	Epsilon: 0.923
Episode 17	Total Reward: -11.00	Epsilon: 0.918
Episode 18	Total Reward: -10.00	Epsilon: 0.914
Episode 19	Total Reward: -13.50	Epsilon: 0.909
Episode 20	Total Reward: -10.00	Epsilon: 0.905
Episode 21	Total Reward: -17.00	Epsilon: 0.900
Episode 22	Total Reward: -10.00	Epsilon: 0.896
Episode 23	Total Reward: -13.00	Epsilon: 0.891
Episode 24	Total Reward: -10.00	Epsilon: 0.887
Episode 25	Total Reward: -12.00	Epsilon: 0.882
Episode 26	Total Reward: -11.50	Epsilon: 0.878
Episode 27	Total Reward: -10.50	Epsilon: 0.873
Episode 28	Total Reward: -10.00	Epsilon: 0.869
Episode 29	Total Reward: -24.50	Epsilon: 0.865
Episode 30	Total Reward: -10.00	Epsilon: 0.860
Episode 31	Total Reward: -17.50	Epsilon: 0.856
Episode 32	Total Reward: -12.50	Epsilon: 0.852
Episode 33	Total Reward: -11.50	Epsilon: 0.848
Episode 34	Total Reward: -12.00	Epsilon: 0.843
Episode 35	Total Reward: -10.50	Epsilon: 0.839
Episode 36	Total Reward: -11.50	Epsilon: 0.835
Episode 37	Total Reward: -10.00	Epsilon: 0.831
Episode 38	Total Reward: -13.00	Epsilon: 0.827
Episode 39	Total Reward: -10.50	Epsilon: 0.822
Episode 40	Total Reward: -12.00	Epsilon: 0.818
Episode 41	Total Reward: -16.00	Epsilon: 0.814
Episode 42	Total Reward: -10.50	Epsilon: 0.810
Episode 43	Total Reward: -10.50	Epsilon: 0.806
Episode 44	Total Reward: -10.00	Epsilon: 0.802
Episode 45	Total Reward: -16.00	Epsilon: 0.798
Episode 46	Total Reward: -10.00	Epsilon: 0.794
Episode 47	Total Reward: -10.00	Epsilon: 0.790
Episode 48	Total Reward: -10.00	Epsilon: 0.786
Episode 49	Total Reward: -11.50	Epsilon: 0.782
Episode 50	Total Reward: -16.00	Epsilon: 0.778
Episode 51	Total Reward: -10.00	Epsilon: 0.774
Episode 52	Total Reward: -13.50	Epsilon: 0.771
Episode 53	Total Reward: -19.00	Epsilon: 0.767
Episode 54	Total Reward: -10.00	Epsilon: 0.763
Episode 55	Total Reward: -13.00	Epsilon: 0.759
Episode 56	Total Reward: -10.00	Epsilon: 0.755
Episode 57	Total Reward: -16.00	Epsilon: 0.751
Episode 58	Total Reward: -10.00	Epsilon: 0.748
Episode 59	Total Reward: -10.00	Epsilon: 0.744
Episode 60	Total Reward: -11.50	Epsilon: 0.740
Episode 61	Total Reward: -10.50	Epsilon: 0.737
Episode 62	Total Reward: -10.50	Epsilon: 0.733
Episode 63	Total Reward: -10.00	Epsilon: 0.729
Episode 64	Total Reward: -10.00	Epsilon: 0.726
Episode 65	Total Reward: -10.00	Epsilon: 0.722
Episode 66	Total Reward: -13.00	Epsilon: 0.718
Episode 67	Total Reward: -13.00	Epsilon: 0.715
Episode 68	Total Reward: -10.00	Epsilon: 0.711
Episode 69	Total Reward: -10.00	Epsilon: 0.708
Episode 70	Total Reward: -10.00	Epsilon: 0.704
Episode 71	Total Reward: -10.50	Epsilon: 0.701
Episode 72	Total Reward: -10.00	Epsilon: 0.697
Episode 73	Total Reward: -10.00	Epsilon: 0.694
Episode 74	Total Reward: -13.00	Epsilon: 0.690
Episode 75	Total Reward: -12.00	Epsilon: 0.687
Episode 76	Total Reward: -10.00	Epsilon: 0.683
Episode 77	Total Reward: -10.50	Epsilon: 0.680
Episode 78	Total Reward: -10.00	Epsilon: 0.676
Episode 79	Total Reward: -10.50	Epsilon: 0.673
Episode 80	Total Reward: -10.50	Epsilon: 0.670
Episode 81	Total Reward: -11.00	Epsilon: 0.666
Episode 82	Total Reward: -13.50	Epsilon: 0.663
Episode 83	Total Reward: -16.50	Epsilon: 0.660
Episode 84	Total Reward: -10.50	Epsilon: 0.656
Episode 85	Total Reward: -10.50	Epsilon: 0.653
Episode 86	Total Reward: -10.00	Epsilon: 0.650
Episode 87	Total Reward: -22.50	Epsilon: 0.647
Episode 88	Total Reward: -10.00	Epsilon: 0.643
Episode 89	Total Reward: -10.00	Epsilon: 0.640
Episode 90	Total Reward: -20.00	Epsilon: 0.637
Episode 91	Total Reward: -14.00	Epsilon: 0.634
Episode 92	Total Reward: -12.50	Epsilon: 0.631
Episode 93	Total Reward: -17.50	Epsilon: 0.627
Episode 94	Total Reward: -19.50	Epsilon: 0.624
Episode 95	Total Reward: -10.00	Epsilon: 0.621
Episode 96	Total Reward: -10.00	Epsilon: 0.618
Episode 97	Total Reward: -10.50	Epsilon: 0.615

Episode 98	Total Reward: -19.50	Epsilon: 0.612
Episode 99	Total Reward: -10.00	Epsilon: 0.609
Episode 100	Total Reward: -32.50	Epsilon: 0.606
Episode 101	Total Reward: -11.50	Epsilon: 0.603
Episode 102	Total Reward: -17.50	Epsilon: 0.600
Episode 103	Total Reward: -16.00	Epsilon: 0.597
Episode 104	Total Reward: -16.50	Epsilon: 0.594
Episode 105	Total Reward: -10.50	Epsilon: 0.591
Episode 106	Total Reward: -36.00	Epsilon: 0.588
Episode 107	Total Reward: -11.50	Epsilon: 0.585
Episode 108	Total Reward: -11.00	Epsilon: 0.582
Episode 109	Total Reward: -10.00	Epsilon: 0.579
Episode 110	Total Reward: -14.00	Epsilon: 0.576
Episode 111	Total Reward: -10.00	Epsilon: 0.573
Episode 112	Total Reward: -32.00	Epsilon: 0.570
Episode 113	Total Reward: -16.00	Epsilon: 0.568
Episode 114	Total Reward: -11.00	Epsilon: 0.565
Episode 115	Total Reward: -35.00	Epsilon: 0.562
Episode 116	Total Reward: -10.00	Epsilon: 0.559
Episode 117	Total Reward: -10.00	Epsilon: 0.556
Episode 118	Total Reward: -10.00	Epsilon: 0.554
Episode 119	Total Reward: -10.50	Epsilon: 0.551
Episode 120	Total Reward: -14.00	Epsilon: 0.548
Episode 121	Total Reward: -12.00	Epsilon: 0.545
Episode 122	Total Reward: -36.00	Epsilon: 0.543
Episode 123	Total Reward: -37.00	Epsilon: 0.540
Episode 124	Total Reward: -10.00	Epsilon: 0.537
Episode 125	Total Reward: -11.50	Epsilon: 0.534
Episode 126	Total Reward: -10.00	Epsilon: 0.532
Episode 127	Total Reward: -10.00	Epsilon: 0.529
Episode 128	Total Reward: -12.00	Epsilon: 0.526
Episode 129	Total Reward: -14.00	Epsilon: 0.524
Episode 130	Total Reward: -13.00	Epsilon: 0.521
Episode 131	Total Reward: -11.00	Epsilon: 0.519
Episode 132	Total Reward: -15.00	Epsilon: 0.516
Episode 133	Total Reward: -19.00	Epsilon: 0.513
Episode 134	Total Reward: -10.00	Epsilon: 0.511
Episode 135	Total Reward: -15.00	Epsilon: 0.508
Episode 136	Total Reward: -34.50	Epsilon: 0.506
Episode 137	Total Reward: -10.50	Epsilon: 0.503
Episode 138	Total Reward: -34.50	Epsilon: 0.501
Episode 139	Total Reward: -11.50	Epsilon: 0.498
Episode 140	Total Reward: -38.50	Epsilon: 0.496
Episode 141	Total Reward: -11.50	Epsilon: 0.493
Episode 142	Total Reward: -10.00	Epsilon: 0.491
Episode 143	Total Reward: -15.00	Epsilon: 0.488
Episode 144	Total Reward: -34.50	Epsilon: 0.486
Episode 145	Total Reward: -11.00	Epsilon: 0.483
Episode 146	Total Reward: -35.00	Epsilon: 0.481
Episode 147	Total Reward: -12.00	Epsilon: 0.479
Episode 148	Total Reward: -12.00	Epsilon: 0.476
Episode 149	Total Reward: -11.00	Epsilon: 0.474
Episode 150	Total Reward: -10.00	Epsilon: 0.471
Episode 151	Total Reward: -10.00	Epsilon: 0.469
Episode 152	Total Reward: -10.00	Epsilon: 0.467
Episode 153	Total Reward: -11.50	Epsilon: 0.464
Episode 154	Total Reward: -10.00	Epsilon: 0.462
Episode 155	Total Reward: -27.50	Epsilon: 0.460
Episode 156	Total Reward: -35.50	Epsilon: 0.458
Episode 157	Total Reward: -24.00	Epsilon: 0.455
Episode 158	Total Reward: -15.50	Epsilon: 0.453
Episode 159	Total Reward: -34.50	Epsilon: 0.451
Episode 160	Total Reward: -18.00	Epsilon: 0.448
Episode 161	Total Reward: -36.50	Epsilon: 0.446
Episode 162	Total Reward: -13.00	Epsilon: 0.444
Episode 163	Total Reward: -41.50	Epsilon: 0.442
Episode 164	Total Reward: -37.00	Epsilon: 0.440
Episode 165	Total Reward: -10.00	Epsilon: 0.437
Episode 166	Total Reward: -28.00	Epsilon: 0.435
Episode 167	Total Reward: -11.00	Epsilon: 0.433
Episode 168	Total Reward: -10.00	Epsilon: 0.431
Episode 169	Total Reward: -14.50	Epsilon: 0.429
Episode 170	Total Reward: -35.50	Epsilon: 0.427
Episode 171	Total Reward: -14.00	Epsilon: 0.424
Episode 172	Total Reward: -14.00	Epsilon: 0.422
Episode 173	Total Reward: -21.00	Epsilon: 0.420
Episode 174	Total Reward: -10.50	Epsilon: 0.418
Episode 175	Total Reward: -13.50	Epsilon: 0.416
Episode 176	Total Reward: -10.00	Epsilon: 0.414
Episode 177	Total Reward: -35.00	Epsilon: 0.412
Episode 178	Total Reward: -19.00	Epsilon: 0.410
Episode 179	Total Reward: -10.00	Epsilon: 0.408
Episode 180	Total Reward: -34.50	Epsilon: 0.406

Episode 181	Total Reward: -10.00	Epsilon: 0.404
Episode 182	Total Reward: -40.00	Epsilon: 0.402
Episode 183	Total Reward: -16.50	Epsilon: 0.400
Episode 184	Total Reward: -10.50	Epsilon: 0.398
Episode 185	Total Reward: -10.50	Epsilon: 0.396
Episode 186	Total Reward: -10.00	Epsilon: 0.394
Episode 187	Total Reward: -35.00	Epsilon: 0.392
Episode 188	Total Reward: -10.50	Epsilon: 0.390
Episode 189	Total Reward: -25.50	Epsilon: 0.388
Episode 190	Total Reward: -13.00	Epsilon: 0.386
Episode 191	Total Reward: -12.50	Epsilon: 0.384
Episode 192	Total Reward: -12.50	Epsilon: 0.382
Episode 193	Total Reward: -26.50	Epsilon: 0.380
Episode 194	Total Reward: -16.00	Epsilon: 0.378
Episode 195	Total Reward: -10.00	Epsilon: 0.376
Episode 196	Total Reward: -10.50	Epsilon: 0.374
Episode 197	Total Reward: -42.50	Epsilon: 0.373
Episode 198	Total Reward: -18.00	Epsilon: 0.371
Episode 199	Total Reward: -14.50	Epsilon: 0.369
Episode 200	Total Reward: -10.00	Epsilon: 0.367
Episode 201	Total Reward: -22.50	Epsilon: 0.365
Episode 202	Total Reward: -12.00	Epsilon: 0.363
Episode 203	Total Reward: -12.50	Epsilon: 0.361
Episode 204	Total Reward: -11.50	Epsilon: 0.360
Episode 205	Total Reward: -28.00	Epsilon: 0.358
Episode 206	Total Reward: -37.50	Epsilon: 0.356
Episode 207	Total Reward: -11.50	Epsilon: 0.354
Episode 208	Total Reward: -10.50	Epsilon: 0.353
Episode 209	Total Reward: -29.50	Epsilon: 0.351
Episode 210	Total Reward: -14.50	Epsilon: 0.349
Episode 211	Total Reward: -35.50	Epsilon: 0.347
Episode 212	Total Reward: -10.00	Epsilon: 0.346
Episode 213	Total Reward: -23.00	Epsilon: 0.344
Episode 214	Total Reward: -19.50	Epsilon: 0.342
Episode 215	Total Reward: -10.00	Epsilon: 0.340
Episode 216	Total Reward: -19.50	Epsilon: 0.339
Episode 217	Total Reward: -10.00	Epsilon: 0.337
Episode 218	Total Reward: -10.00	Epsilon: 0.335
Episode 219	Total Reward: -13.50	Epsilon: 0.334
Episode 220	Total Reward: -10.50	Epsilon: 0.332
Episode 221	Total Reward: -26.00	Epsilon: 0.330
Episode 222	Total Reward: -16.00	Epsilon: 0.329
Episode 223	Total Reward: -11.00	Epsilon: 0.327
Episode 224	Total Reward: -15.00	Epsilon: 0.325
Episode 225	Total Reward: -21.00	Epsilon: 0.324
Episode 226	Total Reward: -10.00	Epsilon: 0.322
Episode 227	Total Reward: -22.50	Epsilon: 0.321
Episode 228	Total Reward: -20.00	Epsilon: 0.319
Episode 229	Total Reward: -35.00	Epsilon: 0.317
Episode 230	Total Reward: -15.50	Epsilon: 0.316
Episode 231	Total Reward: -10.50	Epsilon: 0.314
Episode 232	Total Reward: -13.00	Epsilon: 0.313
Episode 233	Total Reward: -23.00	Epsilon: 0.311
Episode 234	Total Reward: -11.50	Epsilon: 0.309
Episode 235	Total Reward: -35.50	Epsilon: 0.308
Episode 236	Total Reward: -21.00	Epsilon: 0.306
Episode 237	Total Reward: -10.00	Epsilon: 0.305
Episode 238	Total Reward: -13.50	Epsilon: 0.303
Episode 239	Total Reward: -10.50	Epsilon: 0.302
Episode 240	Total Reward: -11.50	Epsilon: 0.300
Episode 241	Total Reward: -11.50	Epsilon: 0.299
Episode 242	Total Reward: -34.00	Epsilon: 0.297
Episode 243	Total Reward: -13.00	Epsilon: 0.296
Episode 244	Total Reward: -19.00	Epsilon: 0.294
Episode 245	Total Reward: -10.00	Epsilon: 0.293
Episode 246	Total Reward: -30.00	Epsilon: 0.291
Episode 247	Total Reward: -34.00	Epsilon: 0.290
Episode 248	Total Reward: -26.50	Epsilon: 0.288
Episode 249	Total Reward: -18.50	Epsilon: 0.287
Episode 250	Total Reward: -42.50	Epsilon: 0.286
Episode 251	Total Reward: -17.50	Epsilon: 0.284
Episode 252	Total Reward: -16.00	Epsilon: 0.283
Episode 253	Total Reward: -12.00	Epsilon: 0.281
Episode 254	Total Reward: -14.00	Epsilon: 0.280
Episode 255	Total Reward: -29.50	Epsilon: 0.279
Episode 256	Total Reward: -10.00	Epsilon: 0.277
Episode 257	Total Reward: -12.00	Epsilon: 0.276
Episode 258	Total Reward: -14.50	Epsilon: 0.274
Episode 259	Total Reward: -30.50	Epsilon: 0.273
Episode 260	Total Reward: -11.50	Epsilon: 0.272
Episode 261	Total Reward: -17.50	Epsilon: 0.270
Episode 262	Total Reward: -12.50	Epsilon: 0.269
Episode 263	Total Reward: -11.50	Epsilon: 0.268

Episode 264	Total Reward: -23.50	Epsilon: 0.266
Episode 265	Total Reward: -28.50	Epsilon: 0.265
Episode 266	Total Reward: -31.00	Epsilon: 0.264
Episode 267	Total Reward: -17.50	Epsilon: 0.262
Episode 268	Total Reward: -34.50	Epsilon: 0.261
Episode 269	Total Reward: -35.50	Epsilon: 0.260
Episode 270	Total Reward: -11.50	Epsilon: 0.258
Episode 271	Total Reward: -10.00	Epsilon: 0.257
Episode 272	Total Reward: -19.00	Epsilon: 0.256
Episode 273	Total Reward: -38.00	Epsilon: 0.255
Episode 274	Total Reward: -35.00	Epsilon: 0.253
Episode 275	Total Reward: -17.00	Epsilon: 0.252
Episode 276	Total Reward: -11.50	Epsilon: 0.251
Episode 277	Total Reward: -35.50	Epsilon: 0.249
Episode 278	Total Reward: -12.00	Epsilon: 0.248
Episode 279	Total Reward: -35.50	Epsilon: 0.247
Episode 280	Total Reward: -11.50	Epsilon: 0.246
Episode 281	Total Reward: -35.50	Epsilon: 0.245
Episode 282	Total Reward: -36.00	Epsilon: 0.243
Episode 283	Total Reward: -10.00	Epsilon: 0.242
Episode 284	Total Reward: -12.00	Epsilon: 0.241
Episode 285	Total Reward: -36.00	Epsilon: 0.240
Episode 286	Total Reward: -20.50	Epsilon: 0.238
Episode 287	Total Reward: -10.50	Epsilon: 0.237
Episode 288	Total Reward: -29.00	Epsilon: 0.236
Episode 289	Total Reward: -34.50	Epsilon: 0.235
Episode 290	Total Reward: -13.50	Epsilon: 0.234
Episode 291	Total Reward: -36.50	Epsilon: 0.233
Episode 292	Total Reward: -35.50	Epsilon: 0.231
Episode 293	Total Reward: -35.50	Epsilon: 0.230
Episode 294	Total Reward: -42.00	Epsilon: 0.229
Episode 295	Total Reward: -13.00	Epsilon: 0.228
Episode 296	Total Reward: -29.00	Epsilon: 0.227
Episode 297	Total Reward: -35.00	Epsilon: 0.226
Episode 298	Total Reward: -10.00	Epsilon: 0.225
Episode 299	Total Reward: -11.00	Epsilon: 0.223
Episode 300	Total Reward: -19.00	Epsilon: 0.222
Episode 301	Total Reward: -11.50	Epsilon: 0.221
Episode 302	Total Reward: -12.50	Epsilon: 0.220
Episode 303	Total Reward: -35.00	Epsilon: 0.219
Episode 304	Total Reward: -12.00	Epsilon: 0.218
Episode 305	Total Reward: -24.00	Epsilon: 0.217
Episode 306	Total Reward: -22.50	Epsilon: 0.216
Episode 307	Total Reward: -22.50	Epsilon: 0.215
Episode 308	Total Reward: -11.50	Epsilon: 0.214
Episode 309	Total Reward: -18.00	Epsilon: 0.212
Episode 310	Total Reward: -12.50	Epsilon: 0.211
Episode 311	Total Reward: -14.50	Epsilon: 0.210
Episode 312	Total Reward: -23.50	Epsilon: 0.209
Episode 313	Total Reward: -27.00	Epsilon: 0.208
Episode 314	Total Reward: -35.50	Epsilon: 0.207
Episode 315	Total Reward: -34.50	Epsilon: 0.206
Episode 316	Total Reward: -10.50	Epsilon: 0.205
Episode 317	Total Reward: -36.00	Epsilon: 0.204
Episode 318	Total Reward: -36.00	Epsilon: 0.203
Episode 319	Total Reward: -35.50	Epsilon: 0.202
Episode 320	Total Reward: -10.00	Epsilon: 0.201
Episode 321	Total Reward: -35.50	Epsilon: 0.200
Episode 322	Total Reward: -35.00	Epsilon: 0.199
Episode 323	Total Reward: -10.00	Epsilon: 0.198
Episode 324	Total Reward: -12.00	Epsilon: 0.197
Episode 325	Total Reward: -38.50	Epsilon: 0.196
Episode 326	Total Reward: -23.50	Epsilon: 0.195
Episode 327	Total Reward: -10.00	Epsilon: 0.194
Episode 328	Total Reward: -12.50	Epsilon: 0.193
Episode 329	Total Reward: -35.50	Epsilon: 0.192
Episode 330	Total Reward: -11.50	Epsilon: 0.191
Episode 331	Total Reward: -12.00	Epsilon: 0.190
Episode 332	Total Reward: -35.00	Epsilon: 0.189
Episode 333	Total Reward: -35.50	Epsilon: 0.188
Episode 334	Total Reward: -11.50	Epsilon: 0.187
Episode 335	Total Reward: -36.00	Epsilon: 0.187
Episode 336	Total Reward: -39.50	Epsilon: 0.186
Episode 337	Total Reward: -11.00	Epsilon: 0.185
Episode 338	Total Reward: -35.50	Epsilon: 0.184
Episode 339	Total Reward: -35.50	Epsilon: 0.183
Episode 340	Total Reward: -10.00	Epsilon: 0.182
Episode 341	Total Reward: -35.00	Epsilon: 0.181
Episode 342	Total Reward: -10.50	Epsilon: 0.180
Episode 343	Total Reward: -15.50	Epsilon: 0.179
Episode 344	Total Reward: -17.50	Epsilon: 0.178
Episode 345	Total Reward: -36.00	Epsilon: 0.177
Episode 346	Total Reward: -35.50	Epsilon: 0.177

Episode 347	Total Reward: -40.00	Epsilon: 0.176
Episode 348	Total Reward: -11.50	Epsilon: 0.175
Episode 349	Total Reward: -26.00	Epsilon: 0.174
Episode 350	Total Reward: -36.00	Epsilon: 0.173
Episode 351	Total Reward: -14.00	Epsilon: 0.172
Episode 352	Total Reward: -35.00	Epsilon: 0.171
Episode 353	Total Reward: -11.00	Epsilon: 0.170
Episode 354	Total Reward: -41.00	Epsilon: 0.170
Episode 355	Total Reward: -35.00	Epsilon: 0.169
Episode 356	Total Reward: -35.00	Epsilon: 0.168
Episode 357	Total Reward: -35.50	Epsilon: 0.167
Episode 358	Total Reward: -35.00	Epsilon: 0.166
Episode 359	Total Reward: -14.00	Epsilon: 0.165
Episode 360	Total Reward: -24.50	Epsilon: 0.165
Episode 361	Total Reward: -10.00	Epsilon: 0.164
Episode 362	Total Reward: -26.50	Epsilon: 0.163
Episode 363	Total Reward: -11.00	Epsilon: 0.162
Episode 364	Total Reward: -35.50	Epsilon: 0.161
Episode 365	Total Reward: -35.00	Epsilon: 0.160
Episode 366	Total Reward: -14.50	Epsilon: 0.160
Episode 367	Total Reward: -36.00	Epsilon: 0.159
Episode 368	Total Reward: -36.00	Epsilon: 0.158
Episode 369	Total Reward: -35.00	Epsilon: 0.157
Episode 370	Total Reward: -35.50	Epsilon: 0.157
Episode 371	Total Reward: -11.50	Epsilon: 0.156
Episode 372	Total Reward: -36.00	Epsilon: 0.155
Episode 373	Total Reward: -33.00	Epsilon: 0.154
Episode 374	Total Reward: -16.00	Epsilon: 0.153
Episode 375	Total Reward: -16.00	Epsilon: 0.153
Episode 376	Total Reward: -36.00	Epsilon: 0.152
Episode 377	Total Reward: -13.50	Epsilon: 0.151
Episode 378	Total Reward: -33.50	Epsilon: 0.150
Episode 379	Total Reward: -10.50	Epsilon: 0.150
Episode 380	Total Reward: -10.00	Epsilon: 0.149
Episode 381	Total Reward: -12.50	Epsilon: 0.148
Episode 382	Total Reward: -10.00	Epsilon: 0.147
Episode 383	Total Reward: -15.50	Epsilon: 0.147
Episode 384	Total Reward: -23.00	Epsilon: 0.146
Episode 385	Total Reward: -35.00	Epsilon: 0.145
Episode 386	Total Reward: -19.50	Epsilon: 0.144
Episode 387	Total Reward: -22.00	Epsilon: 0.144
Episode 388	Total Reward: -13.00	Epsilon: 0.143
Episode 389	Total Reward: -22.00	Epsilon: 0.142
Episode 390	Total Reward: -13.50	Epsilon: 0.142
Episode 391	Total Reward: -31.50	Epsilon: 0.141
Episode 392	Total Reward: -22.50	Epsilon: 0.140
Episode 393	Total Reward: -31.50	Epsilon: 0.139
Episode 394	Total Reward: -43.50	Epsilon: 0.139
Episode 395	Total Reward: -21.50	Epsilon: 0.138
Episode 396	Total Reward: -11.50	Epsilon: 0.137
Episode 397	Total Reward: -35.50	Epsilon: 0.137
Episode 398	Total Reward: -15.00	Epsilon: 0.136
Episode 399	Total Reward: -32.00	Epsilon: 0.135
Episode 400	Total Reward: -40.50	Epsilon: 0.135
Episode 401	Total Reward: -13.00	Epsilon: 0.134
Episode 402	Total Reward: -10.50	Epsilon: 0.133
Episode 403	Total Reward: -19.00	Epsilon: 0.133
Episode 404	Total Reward: -34.50	Epsilon: 0.132
Episode 405	Total Reward: -14.50	Epsilon: 0.131
Episode 406	Total Reward: -13.00	Epsilon: 0.131
Episode 407	Total Reward: -28.50	Epsilon: 0.130
Episode 408	Total Reward: -15.00	Epsilon: 0.129
Episode 409	Total Reward: -11.50	Epsilon: 0.129
Episode 410	Total Reward: -10.00	Epsilon: 0.128
Episode 411	Total Reward: -15.00	Epsilon: 0.127
Episode 412	Total Reward: -12.50	Epsilon: 0.127
Episode 413	Total Reward: -1.50	Epsilon: 0.126
Episode 414	Total Reward: -22.00	Epsilon: 0.126
Episode 415	Total Reward: -14.50	Epsilon: 0.125
Episode 416	Total Reward: -14.50	Epsilon: 0.124
Episode 417	Total Reward: -19.00	Epsilon: 0.124
Episode 418	Total Reward: -19.00	Epsilon: 0.123
Episode 419	Total Reward: -35.00	Epsilon: 0.122
Episode 420	Total Reward: 0.00	Epsilon: 0.122
Episode 421	Total Reward: -22.50	Epsilon: 0.121
Episode 422	Total Reward: -18.00	Epsilon: 0.121
Episode 423	Total Reward: -12.00	Epsilon: 0.120
Episode 424	Total Reward: -12.00	Epsilon: 0.119
Episode 425	Total Reward: -13.50	Epsilon: 0.119
Episode 426	Total Reward: -23.00	Epsilon: 0.118
Episode 427	Total Reward: -31.00	Epsilon: 0.118
Episode 428	Total Reward: -23.50	Epsilon: 0.117
Episode 429	Total Reward: -34.50	Epsilon: 0.116

Episode 430		Total Reward: -10.00		Epsilon: 0.116
Episode 431		Total Reward: -4.50		Epsilon: 0.115
Episode 432		Total Reward: -23.50		Epsilon: 0.115
Episode 433		Total Reward: -24.50		Epsilon: 0.114
Episode 434		Total Reward: -28.50		Epsilon: 0.114
Episode 435		Total Reward: -18.50		Epsilon: 0.113
Episode 436		Total Reward: -21.00		Epsilon: 0.112
Episode 437		Total Reward: -6.00		Epsilon: 0.112
Episode 438		Total Reward: -19.50		Epsilon: 0.111
Episode 439		Total Reward: -6.00		Epsilon: 0.111
Episode 440		Total Reward: 0.00		Epsilon: 0.110
Episode 441		Total Reward: -3.00		Epsilon: 0.110
Episode 442		Total Reward: -11.50		Epsilon: 0.109
Episode 443		Total Reward: -14.50		Epsilon: 0.109
Episode 444		Total Reward: -19.50		Epsilon: 0.108
Episode 445		Total Reward: 1.50		Epsilon: 0.107
Episode 446		Total Reward: -3.00		Epsilon: 0.107
Episode 447		Total Reward: -19.50		Epsilon: 0.106
Episode 448		Total Reward: -18.00		Epsilon: 0.106
Episode 449		Total Reward: 1.50		Epsilon: 0.105
Episode 450		Total Reward: 0.00		Epsilon: 0.105
Episode 451		Total Reward: -14.50		Epsilon: 0.104
Episode 452		Total Reward: -14.50		Epsilon: 0.104
Episode 453		Total Reward: -18.50		Epsilon: 0.103
Episode 454		Total Reward: -21.50		Epsilon: 0.103
Episode 455		Total Reward: 0.00		Epsilon: 0.102
Episode 456		Total Reward: -12.50		Epsilon: 0.102
Episode 457		Total Reward: -11.50		Epsilon: 0.101
Episode 458		Total Reward: -11.50		Epsilon: 0.101
Episode 459		Total Reward: -16.00		Epsilon: 0.100
Episode 460		Total Reward: -11.50		Epsilon: 0.100
Episode 461		Total Reward: -14.00		Epsilon: 0.100
Episode 462		Total Reward: -14.50		Epsilon: 0.100
Episode 463		Total Reward: -13.50		Epsilon: 0.100
Episode 464		Total Reward: -11.50		Epsilon: 0.100
Episode 465		Total Reward: -11.50		Epsilon: 0.100
Episode 466		Total Reward: -11.50		Epsilon: 0.100
Episode 467		Total Reward: -13.50		Epsilon: 0.100
Episode 468		Total Reward: -11.50		Epsilon: 0.100
Episode 469		Total Reward: -15.50		Epsilon: 0.100
Episode 470		Total Reward: -11.50		Epsilon: 0.100
Episode 471		Total Reward: -11.50		Epsilon: 0.100
Episode 472		Total Reward: -16.00		Epsilon: 0.100
Episode 473		Total Reward: -12.50		Epsilon: 0.100
Episode 474		Total Reward: -12.50		Epsilon: 0.100
Episode 475		Total Reward: -12.50		Epsilon: 0.100
Episode 476		Total Reward: -12.50		Epsilon: 0.100
Episode 477		Total Reward: -13.50		Epsilon: 0.100
Episode 478		Total Reward: -12.50		Epsilon: 0.100
Episode 479		Total Reward: -12.50		Epsilon: 0.100
Episode 480		Total Reward: -13.50		Epsilon: 0.100
Episode 481		Total Reward: -11.50		Epsilon: 0.100
Episode 482		Total Reward: -14.50		Epsilon: 0.100
Episode 483		Total Reward: -11.00		Epsilon: 0.100
Episode 484		Total Reward: 0.00		Epsilon: 0.100
Episode 485		Total Reward: 0.00		Epsilon: 0.100
Episode 486		Total Reward: 1.50		Epsilon: 0.100
Episode 487		Total Reward: -14.50		Epsilon: 0.100
Episode 488		Total Reward: 1.50		Epsilon: 0.100
Episode 489		Total Reward: 1.50		Epsilon: 0.100
Episode 490		Total Reward: -14.50		Epsilon: 0.100
Episode 491		Total Reward: 1.50		Epsilon: 0.100
Episode 492		Total Reward: -1.50		Epsilon: 0.100
Episode 493		Total Reward: -11.00		Epsilon: 0.100
Episode 494		Total Reward: -14.50		Epsilon: 0.100
Episode 495		Total Reward: 1.50		Epsilon: 0.100
Episode 496		Total Reward: -21.50		Epsilon: 0.100
Episode 497		Total Reward: -13.50		Epsilon: 0.100
Episode 498		Total Reward: -13.50		Epsilon: 0.100
Episode 499		Total Reward: -12.50		Epsilon: 0.100
Episode 500		Total Reward: 1.50		Epsilon: 0.100
Episode 501		Total Reward: 0.00		Epsilon: 0.100
Episode 502		Total Reward: 1.50		Epsilon: 0.100
Episode 503		Total Reward: -13.00		Epsilon: 0.100
Episode 504		Total Reward: 1.50		Epsilon: 0.100
Episode 505		Total Reward: -1.50		Epsilon: 0.100
Episode 506		Total Reward: -1.50		Epsilon: 0.100
Episode 507		Total Reward: 0.00		Epsilon: 0.100
Episode 508		Total Reward: -14.50		Epsilon: 0.100
Episode 509		Total Reward: -11.50		Epsilon: 0.100
Episode 510		Total Reward: -1.50		Epsilon: 0.100
Episode 511		Total Reward: 1.50		Epsilon: 0.100
Episode 512		Total Reward: -12.00		Epsilon: 0.100

Episode 513	Total Reward:	-14.50	Epsilon: 0.100
Episode 514	Total Reward:	-14.50	Epsilon: 0.100
Episode 515	Total Reward:	0.00	Epsilon: 0.100
Episode 516	Total Reward:	1.50	Epsilon: 0.100
Episode 517	Total Reward:	-1.50	Epsilon: 0.100
Episode 518	Total Reward:	-14.50	Epsilon: 0.100
Episode 519	Total Reward:	-16.50	Epsilon: 0.100
Episode 520	Total Reward:	1.50	Epsilon: 0.100
Episode 521	Total Reward:	-16.00	Epsilon: 0.100
Episode 522	Total Reward:	-15.00	Epsilon: 0.100
Episode 523	Total Reward:	1.50	Epsilon: 0.100
Episode 524	Total Reward:	-11.50	Epsilon: 0.100
Episode 525	Total Reward:	-3.00	Epsilon: 0.100
Episode 526	Total Reward:	1.50	Epsilon: 0.100
Episode 527	Total Reward:	1.50	Epsilon: 0.100
Episode 528	Total Reward:	-14.50	Epsilon: 0.100
Episode 529	Total Reward:	-3.00	Epsilon: 0.100
Episode 530	Total Reward:	1.50	Epsilon: 0.100
Episode 531	Total Reward:	0.00	Epsilon: 0.100
Episode 532	Total Reward:	-1.50	Epsilon: 0.100
Episode 533	Total Reward:	1.50	Epsilon: 0.100
Episode 534	Total Reward:	-13.50	Epsilon: 0.100
Episode 535	Total Reward:	-1.50	Epsilon: 0.100
Episode 536	Total Reward:	-10.00	Epsilon: 0.100
Episode 537	Total Reward:	1.50	Epsilon: 0.100
Episode 538	Total Reward:	0.00	Epsilon: 0.100
Episode 539	Total Reward:	1.50	Epsilon: 0.100
Episode 540	Total Reward:	-13.50	Epsilon: 0.100
Episode 541	Total Reward:	1.50	Epsilon: 0.100
Episode 542	Total Reward:	-3.00	Epsilon: 0.100
Episode 543	Total Reward:	1.50	Epsilon: 0.100
Episode 544	Total Reward:	-18.50	Epsilon: 0.100
Episode 545	Total Reward:	-11.50	Epsilon: 0.100
Episode 546	Total Reward:	-1.50	Epsilon: 0.100
Episode 547	Total Reward:	1.50	Epsilon: 0.100
Episode 548	Total Reward:	0.00	Epsilon: 0.100
Episode 549	Total Reward:	-10.50	Epsilon: 0.100
Episode 550	Total Reward:	-14.00	Epsilon: 0.100
Episode 551	Total Reward:	-3.00	Epsilon: 0.100
Episode 552	Total Reward:	1.50	Epsilon: 0.100
Episode 553	Total Reward:	1.50	Epsilon: 0.100
Episode 554	Total Reward:	0.00	Epsilon: 0.100
Episode 555	Total Reward:	1.50	Epsilon: 0.100
Episode 556	Total Reward:	1.50	Epsilon: 0.100
Episode 557	Total Reward:	1.50	Epsilon: 0.100
Episode 558	Total Reward:	-20.00	Epsilon: 0.100
Episode 559	Total Reward:	1.50	Epsilon: 0.100
Episode 560	Total Reward:	0.00	Epsilon: 0.100
Episode 561	Total Reward:	-10.00	Epsilon: 0.100
Episode 562	Total Reward:	-10.50	Epsilon: 0.100
Episode 563	Total Reward:	0.00	Epsilon: 0.100
Episode 564	Total Reward:	1.50	Epsilon: 0.100
Episode 565	Total Reward:	0.00	Epsilon: 0.100
Episode 566	Total Reward:	1.50	Epsilon: 0.100
Episode 567	Total Reward:	0.00	Epsilon: 0.100
Episode 568	Total Reward:	-1.50	Epsilon: 0.100
Episode 569	Total Reward:	-11.50	Epsilon: 0.100
Episode 570	Total Reward:	1.50	Epsilon: 0.100
Episode 571	Total Reward:	1.50	Epsilon: 0.100
Episode 572	Total Reward:	-1.50	Epsilon: 0.100
Episode 573	Total Reward:	-11.00	Epsilon: 0.100
Episode 574	Total Reward:	-1.50	Epsilon: 0.100
Episode 575	Total Reward:	1.50	Epsilon: 0.100
Episode 576	Total Reward:	-10.50	Epsilon: 0.100
Episode 577	Total Reward:	-11.00	Epsilon: 0.100
Episode 578	Total Reward:	0.00	Epsilon: 0.100
Episode 579	Total Reward:	0.00	Epsilon: 0.100
Episode 580	Total Reward:	0.00	Epsilon: 0.100
Episode 581	Total Reward:	0.00	Epsilon: 0.100
Episode 582	Total Reward:	1.50	Epsilon: 0.100
Episode 583	Total Reward:	-3.00	Epsilon: 0.100
Episode 584	Total Reward:	1.50	Epsilon: 0.100
Episode 585	Total Reward:	1.50	Epsilon: 0.100
Episode 586	Total Reward:	1.50	Epsilon: 0.100
Episode 587	Total Reward:	-11.50	Epsilon: 0.100
Episode 588	Total Reward:	1.50	Epsilon: 0.100
Episode 589	Total Reward:	1.50	Epsilon: 0.100
Episode 590	Total Reward:	-12.50	Epsilon: 0.100
Episode 591	Total Reward:	-18.50	Epsilon: 0.100
Episode 592	Total Reward:	1.50	Epsilon: 0.100
Episode 593	Total Reward:	-16.00	Epsilon: 0.100
Episode 594	Total Reward:	0.00	Epsilon: 0.100
Episode 595	Total Reward:	-20.00	Epsilon: 0.100

Episode 596	Total Reward: 1.50	Epsilon: 0.100
Episode 597	Total Reward: 1.50	Epsilon: 0.100
Episode 598	Total Reward: -3.00	Epsilon: 0.100
Episode 599	Total Reward: 1.50	Epsilon: 0.100
Episode 600	Total Reward: -6.00	Epsilon: 0.100
Episode 601	Total Reward: -3.00	Epsilon: 0.100
Episode 602	Total Reward: -21.00	Epsilon: 0.100
Episode 603	Total Reward: -10.00	Epsilon: 0.100
Episode 604	Total Reward: -11.00	Epsilon: 0.100
Episode 605	Total Reward: 1.50	Epsilon: 0.100
Episode 606	Total Reward: -1.50	Epsilon: 0.100
Episode 607	Total Reward: 0.00	Epsilon: 0.100
Episode 608	Total Reward: -11.00	Epsilon: 0.100
Episode 609	Total Reward: -10.00	Epsilon: 0.100
Episode 610	Total Reward: 0.00	Epsilon: 0.100
Episode 611	Total Reward: -1.50	Epsilon: 0.100
Episode 612	Total Reward: -18.00	Epsilon: 0.100
Episode 613	Total Reward: 1.50	Epsilon: 0.100
Episode 614	Total Reward: 1.50	Epsilon: 0.100
Episode 615	Total Reward: 1.50	Epsilon: 0.100
Episode 616	Total Reward: -3.00	Epsilon: 0.100
Episode 617	Total Reward: -1.50	Epsilon: 0.100
Episode 618	Total Reward: 0.00	Epsilon: 0.100
Episode 619	Total Reward: 0.00	Epsilon: 0.100
Episode 620	Total Reward: -10.50	Epsilon: 0.100
Episode 621	Total Reward: -1.50	Epsilon: 0.100
Episode 622	Total Reward: 0.00	Epsilon: 0.100
Episode 623	Total Reward: -11.50	Epsilon: 0.100
Episode 624	Total Reward: -15.00	Epsilon: 0.100
Episode 625	Total Reward: 0.00	Epsilon: 0.100
Episode 626	Total Reward: 1.50	Epsilon: 0.100
Episode 627	Total Reward: 0.00	Epsilon: 0.100
Episode 628	Total Reward: -3.00	Epsilon: 0.100
Episode 629	Total Reward: -10.50	Epsilon: 0.100
Episode 630	Total Reward: 0.00	Epsilon: 0.100
Episode 631	Total Reward: 1.50	Epsilon: 0.100
Episode 632	Total Reward: -11.50	Epsilon: 0.100
Episode 633	Total Reward: 1.50	Epsilon: 0.100
Episode 634	Total Reward: 0.00	Epsilon: 0.100
Episode 635	Total Reward: 0.00	Epsilon: 0.100
Episode 636	Total Reward: 0.00	Epsilon: 0.100
Episode 637	Total Reward: -1.50	Epsilon: 0.100
Episode 638	Total Reward: -1.50	Epsilon: 0.100
Episode 639	Total Reward: -1.50	Epsilon: 0.100
Episode 640	Total Reward: 0.00	Epsilon: 0.100
Episode 641	Total Reward: -10.50	Epsilon: 0.100
Episode 642	Total Reward: -12.50	Epsilon: 0.100
Episode 643	Total Reward: -13.00	Epsilon: 0.100
Episode 644	Total Reward: -11.00	Epsilon: 0.100
Episode 645	Total Reward: -11.50	Epsilon: 0.100
Episode 646	Total Reward: -3.00	Epsilon: 0.100
Episode 647	Total Reward: 1.50	Epsilon: 0.100
Episode 648	Total Reward: 1.50	Epsilon: 0.100
Episode 649	Total Reward: -3.00	Epsilon: 0.100
Episode 650	Total Reward: -1.50	Epsilon: 0.100
Episode 651	Total Reward: -10.00	Epsilon: 0.100
Episode 652	Total Reward: 1.50	Epsilon: 0.100
Episode 653	Total Reward: -10.00	Epsilon: 0.100
Episode 654	Total Reward: 1.50	Epsilon: 0.100
Episode 655	Total Reward: -15.50	Epsilon: 0.100
Episode 656	Total Reward: -13.50	Epsilon: 0.100
Episode 657	Total Reward: 0.00	Epsilon: 0.100
Episode 658	Total Reward: 1.50	Epsilon: 0.100
Episode 659	Total Reward: -3.00	Epsilon: 0.100
Episode 660	Total Reward: 1.50	Epsilon: 0.100
Episode 661	Total Reward: 1.50	Epsilon: 0.100
Episode 662	Total Reward: -12.50	Epsilon: 0.100
Episode 663	Total Reward: 1.50	Epsilon: 0.100
Episode 664	Total Reward: 1.50	Epsilon: 0.100
Episode 665	Total Reward: 1.50	Epsilon: 0.100
Episode 666	Total Reward: -6.00	Epsilon: 0.100
Episode 667	Total Reward: 0.00	Epsilon: 0.100
Episode 668	Total Reward: 0.00	Epsilon: 0.100
Episode 669	Total Reward: 0.00	Epsilon: 0.100
Episode 670	Total Reward: 1.50	Epsilon: 0.100
Episode 671	Total Reward: -13.50	Epsilon: 0.100
Episode 672	Total Reward: 1.50	Epsilon: 0.100
Episode 673	Total Reward: 0.00	Epsilon: 0.100
Episode 674	Total Reward: -1.50	Epsilon: 0.100
Episode 675	Total Reward: -11.00	Epsilon: 0.100
Episode 676	Total Reward: 0.00	Epsilon: 0.100
Episode 677	Total Reward: 1.50	Epsilon: 0.100
Episode 678	Total Reward: -11.50	Epsilon: 0.100

Episode 679	Total Reward: 0.00	Epsilon: 0.100
Episode 680	Total Reward: 0.00	Epsilon: 0.100
Episode 681	Total Reward: 1.50	Epsilon: 0.100
Episode 682	Total Reward: 1.50	Epsilon: 0.100
Episode 683	Total Reward: -10.00	Epsilon: 0.100
Episode 684	Total Reward: -10.00	Epsilon: 0.100
Episode 685	Total Reward: 1.50	Epsilon: 0.100
Episode 686	Total Reward: -1.50	Epsilon: 0.100
Episode 687	Total Reward: 1.50	Epsilon: 0.100
Episode 688	Total Reward: 1.50	Epsilon: 0.100
Episode 689	Total Reward: 0.00	Epsilon: 0.100
Episode 690	Total Reward: 1.50	Epsilon: 0.100
Episode 691	Total Reward: 0.00	Epsilon: 0.100
Episode 692	Total Reward: -3.00	Epsilon: 0.100
Episode 693	Total Reward: -20.00	Epsilon: 0.100
Episode 694	Total Reward: 1.50	Epsilon: 0.100
Episode 695	Total Reward: -1.50	Epsilon: 0.100
Episode 696	Total Reward: -12.50	Epsilon: 0.100
Episode 697	Total Reward: -1.50	Epsilon: 0.100
Episode 698	Total Reward: -3.00	Epsilon: 0.100
Episode 699	Total Reward: -3.00	Epsilon: 0.100
Episode 700	Total Reward: -3.00	Epsilon: 0.100
Episode 701	Total Reward: -1.50	Epsilon: 0.100
Episode 702	Total Reward: 1.50	Epsilon: 0.100
Episode 703	Total Reward: 1.50	Epsilon: 0.100
Episode 704	Total Reward: -13.50	Epsilon: 0.100
Episode 705	Total Reward: -4.50	Epsilon: 0.100
Episode 706	Total Reward: 1.50	Epsilon: 0.100
Episode 707	Total Reward: 1.50	Epsilon: 0.100
Episode 708	Total Reward: 0.00	Epsilon: 0.100
Episode 709	Total Reward: 0.00	Epsilon: 0.100
Episode 710	Total Reward: 0.00	Epsilon: 0.100
Episode 711	Total Reward: -13.00	Epsilon: 0.100
Episode 712	Total Reward: 0.00	Epsilon: 0.100
Episode 713	Total Reward: -11.00	Epsilon: 0.100
Episode 714	Total Reward: 1.50	Epsilon: 0.100
Episode 715	Total Reward: -18.50	Epsilon: 0.100
Episode 716	Total Reward: 0.00	Epsilon: 0.100
Episode 717	Total Reward: 0.00	Epsilon: 0.100
Episode 718	Total Reward: 0.00	Epsilon: 0.100
Episode 719	Total Reward: 0.00	Epsilon: 0.100
Episode 720	Total Reward: 1.50	Epsilon: 0.100
Episode 721	Total Reward: 0.00	Epsilon: 0.100
Episode 722	Total Reward: 1.50	Epsilon: 0.100
Episode 723	Total Reward: 0.00	Epsilon: 0.100
Episode 724	Total Reward: 0.00	Epsilon: 0.100
Episode 725	Total Reward: -11.50	Epsilon: 0.100
Episode 726	Total Reward: -16.00	Epsilon: 0.100
Episode 727	Total Reward: 0.00	Epsilon: 0.100
Episode 728	Total Reward: 0.00	Epsilon: 0.100
Episode 729	Total Reward: -14.50	Epsilon: 0.100
Episode 730	Total Reward: 0.00	Epsilon: 0.100
Episode 731	Total Reward: -10.00	Epsilon: 0.100
Episode 732	Total Reward: -3.00	Epsilon: 0.100
Episode 733	Total Reward: 1.50	Epsilon: 0.100
Episode 734	Total Reward: 1.50	Epsilon: 0.100
Episode 735	Total Reward: -1.50	Epsilon: 0.100
Episode 736	Total Reward: 1.50	Epsilon: 0.100
Episode 737	Total Reward: 1.50	Epsilon: 0.100
Episode 738	Total Reward: 1.50	Epsilon: 0.100
Episode 739	Total Reward: -1.50	Epsilon: 0.100
Episode 740	Total Reward: 1.50	Epsilon: 0.100
Episode 741	Total Reward: 1.50	Epsilon: 0.100
Episode 742	Total Reward: -14.50	Epsilon: 0.100
Episode 743	Total Reward: 1.50	Epsilon: 0.100
Episode 744	Total Reward: -11.00	Epsilon: 0.100
Episode 745	Total Reward: -11.00	Epsilon: 0.100
Episode 746	Total Reward: 0.00	Epsilon: 0.100
Episode 747	Total Reward: 1.50	Epsilon: 0.100
Episode 748	Total Reward: -10.00	Epsilon: 0.100
Episode 749	Total Reward: 1.50	Epsilon: 0.100
Episode 750	Total Reward: -1.50	Epsilon: 0.100
Episode 751	Total Reward: 0.00	Epsilon: 0.100
Episode 752	Total Reward: -10.00	Epsilon: 0.100
Episode 753	Total Reward: 1.50	Epsilon: 0.100
Episode 754	Total Reward: -1.50	Epsilon: 0.100
Episode 755	Total Reward: 0.00	Epsilon: 0.100
Episode 756	Total Reward: -20.00	Epsilon: 0.100
Episode 757	Total Reward: -3.00	Epsilon: 0.100
Episode 758	Total Reward: -4.50	Epsilon: 0.100
Episode 759	Total Reward: 1.50	Epsilon: 0.100
Episode 760	Total Reward: 1.50	Epsilon: 0.100
Episode 761	Total Reward: 1.50	Epsilon: 0.100

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[illegible]

[illegible]

[illegible]

[illegible]

Episode 1260	Total Reward: -1.50	Epsilon: 0.100
Episode 1261	Total Reward: 0.00	Epsilon: 0.100
Episode 1262	Total Reward: 1.50	Epsilon: 0.100
Episode 1263	Total Reward: 1.50	Epsilon: 0.100
Episode 1264	Total Reward: -3.00	Epsilon: 0.100
Episode 1265	Total Reward: 1.50	Epsilon: 0.100
Episode 1266	Total Reward: -10.00	Epsilon: 0.100
Episode 1267	Total Reward: -10.50	Epsilon: 0.100
Episode 1268	Total Reward: -1.50	Epsilon: 0.100
Episode 1269	Total Reward: 0.00	Epsilon: 0.100
Episode 1270	Total Reward: -3.00	Epsilon: 0.100
Episode 1271	Total Reward: 1.50	Epsilon: 0.100
Episode 1272	Total Reward: 1.50	Epsilon: 0.100
Episode 1273	Total Reward: 0.00	Epsilon: 0.100
Episode 1274	Total Reward: 0.00	Epsilon: 0.100
Episode 1275	Total Reward: -1.50	Epsilon: 0.100
Episode 1276	Total Reward: -17.00	Epsilon: 0.100
Episode 1277	Total Reward: 1.50	Epsilon: 0.100
Episode 1278	Total Reward: 0.00	Epsilon: 0.100
Episode 1279	Total Reward: 0.00	Epsilon: 0.100
Episode 1280	Total Reward: 1.50	Epsilon: 0.100
Episode 1281	Total Reward: 0.00	Epsilon: 0.100
Episode 1282	Total Reward: -15.00	Epsilon: 0.100
Episode 1283	Total Reward: 1.50	Epsilon: 0.100
Episode 1284	Total Reward: -18.00	Epsilon: 0.100
Episode 1285	Total Reward: 0.00	Epsilon: 0.100
Episode 1286	Total Reward: 0.00	Epsilon: 0.100
Episode 1287	Total Reward: 0.00	Epsilon: 0.100
Episode 1288	Total Reward: 1.50	Epsilon: 0.100
Episode 1289	Total Reward: -17.00	Epsilon: 0.100
Episode 1290	Total Reward: 1.50	Epsilon: 0.100
Episode 1291	Total Reward: 1.50	Epsilon: 0.100
Episode 1292	Total Reward: 0.00	Epsilon: 0.100
Episode 1293	Total Reward: 0.00	Epsilon: 0.100
Episode 1294	Total Reward: 0.00	Epsilon: 0.100
Episode 1295	Total Reward: -11.00	Epsilon: 0.100
Episode 1296	Total Reward: -17.00	Epsilon: 0.100
Episode 1297	Total Reward: -16.00	Epsilon: 0.100
Episode 1298	Total Reward: -24.50	Epsilon: 0.100
Episode 1299	Total Reward: 1.50	Epsilon: 0.100
Episode 1300	Total Reward: -10.00	Epsilon: 0.100
Episode 1301	Total Reward: 0.00	Epsilon: 0.100
Episode 1302	Total Reward: 0.00	Epsilon: 0.100
Episode 1303	Total Reward: -14.50	Epsilon: 0.100
Episode 1304	Total Reward: -14.50	Epsilon: 0.100
Episode 1305	Total Reward: 1.50	Epsilon: 0.100
Episode 1306	Total Reward: 0.00	Epsilon: 0.100
Episode 1307	Total Reward: -12.50	Epsilon: 0.100
Episode 1308	Total Reward: -4.50	Epsilon: 0.100
Episode 1309	Total Reward: -12.00	Epsilon: 0.100
Episode 1310	Total Reward: -1.50	Epsilon: 0.100
Episode 1311	Total Reward: 1.50	Epsilon: 0.100
Episode 1312	Total Reward: -10.50	Epsilon: 0.100
Episode 1313	Total Reward: -14.50	Epsilon: 0.100
Episode 1314	Total Reward: -11.00	Epsilon: 0.100
Episode 1315	Total Reward: 1.50	Epsilon: 0.100
Episode 1316	Total Reward: 1.50	Epsilon: 0.100
Episode 1317	Total Reward: 0.00	Epsilon: 0.100
Episode 1318	Total Reward: 1.50	Epsilon: 0.100
Episode 1319	Total Reward: -15.00	Epsilon: 0.100
Episode 1320	Total Reward: -11.00	Epsilon: 0.100
Episode 1321	Total Reward: 1.50	Epsilon: 0.100
Episode 1322	Total Reward: 1.50	Epsilon: 0.100
Episode 1323	Total Reward: -18.50	Epsilon: 0.100
Episode 1324	Total Reward: 0.00	Epsilon: 0.100
Episode 1325	Total Reward: 1.50	Epsilon: 0.100
Episode 1326	Total Reward: 1.50	Epsilon: 0.100
Episode 1327	Total Reward: -1.50	Epsilon: 0.100
Episode 1328	Total Reward: 1.50	Epsilon: 0.100
Episode 1329	Total Reward: 0.00	Epsilon: 0.100
Episode 1330	Total Reward: 1.50	Epsilon: 0.100
Episode 1331	Total Reward: -1.50	Epsilon: 0.100
Episode 1332	Total Reward: -11.00	Epsilon: 0.100
Episode 1333	Total Reward: -3.00	Epsilon: 0.100
Episode 1334	Total Reward: 1.50	Epsilon: 0.100
Episode 1335	Total Reward: 0.00	Epsilon: 0.100
Episode 1336	Total Reward: -1.50	Epsilon: 0.100
Episode 1337	Total Reward: 1.50	Epsilon: 0.100
Episode 1338	Total Reward: 0.00	Epsilon: 0.100
Episode 1339	Total Reward: -10.00	Epsilon: 0.100
Episode 1340	Total Reward: 0.00	Epsilon: 0.100
Episode 1341	Total Reward: 0.00	Epsilon: 0.100
Episode 1342	Total Reward: 1.50	Epsilon: 0.100

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Episode 1509	Total Reward: 0.00	Epsilon: 0.100
Episode 1510	Total Reward: 1.50	Epsilon: 0.100
Episode 1511	Total Reward: -7.50	Epsilon: 0.100
Episode 1512	Total Reward: -3.00	Epsilon: 0.100
Episode 1513	Total Reward: -4.50	Epsilon: 0.100
Episode 1514	Total Reward: 1.50	Epsilon: 0.100
Episode 1515	Total Reward: 1.50	Epsilon: 0.100
Episode 1516	Total Reward: 1.50	Epsilon: 0.100
Episode 1517	Total Reward: 1.50	Epsilon: 0.100
Episode 1518	Total Reward: 1.50	Epsilon: 0.100
Episode 1519	Total Reward: 0.00	Epsilon: 0.100
Episode 1520	Total Reward: -11.00	Epsilon: 0.100
Episode 1521	Total Reward: -10.50	Epsilon: 0.100
Episode 1522	Total Reward: 1.50	Epsilon: 0.100
Episode 1523	Total Reward: -1.50	Epsilon: 0.100
Episode 1524	Total Reward: 0.00	Epsilon: 0.100
Episode 1525	Total Reward: 0.00	Epsilon: 0.100
Episode 1526	Total Reward: -11.00	Epsilon: 0.100
Episode 1527	Total Reward: 1.50	Epsilon: 0.100
Episode 1528	Total Reward: -18.50	Epsilon: 0.100
Episode 1529	Total Reward: 1.50	Epsilon: 0.100
Episode 1530	Total Reward: 1.50	Epsilon: 0.100
Episode 1531	Total Reward: 0.00	Epsilon: 0.100
Episode 1532	Total Reward: 0.00	Epsilon: 0.100
Episode 1533	Total Reward: 1.50	Epsilon: 0.100
Episode 1534	Total Reward: -1.50	Epsilon: 0.100
Episode 1535	Total Reward: 0.00	Epsilon: 0.100
Episode 1536	Total Reward: 1.50	Epsilon: 0.100
Episode 1537	Total Reward: -10.00	Epsilon: 0.100
Episode 1538	Total Reward: 1.50	Epsilon: 0.100
Episode 1539	Total Reward: 0.00	Epsilon: 0.100
Episode 1540	Total Reward: 0.00	Epsilon: 0.100
Episode 1541	Total Reward: 1.50	Epsilon: 0.100
Episode 1542	Total Reward: 1.50	Epsilon: 0.100
Episode 1543	Total Reward: -3.00	Epsilon: 0.100
Episode 1544	Total Reward: 1.50	Epsilon: 0.100
Episode 1545	Total Reward: 1.50	Epsilon: 0.100
Episode 1546	Total Reward: 0.00	Epsilon: 0.100
Episode 1547	Total Reward: -1.50	Epsilon: 0.100
Episode 1548	Total Reward: -1.50	Epsilon: 0.100
Episode 1549	Total Reward: -10.00	Epsilon: 0.100
Episode 1550	Total Reward: 0.00	Epsilon: 0.100
Episode 1551	Total Reward: -13.50	Epsilon: 0.100
Episode 1552	Total Reward: 0.00	Epsilon: 0.100
Episode 1553	Total Reward: 1.50	Epsilon: 0.100
Episode 1554	Total Reward: -13.50	Epsilon: 0.100
Episode 1555	Total Reward: -11.00	Epsilon: 0.100
Episode 1556	Total Reward: 1.50	Epsilon: 0.100
Episode 1557	Total Reward: 1.50	Epsilon: 0.100
Episode 1558	Total Reward: -1.50	Epsilon: 0.100
Episode 1559	Total Reward: -11.00	Epsilon: 0.100
Episode 1560	Total Reward: -3.00	Epsilon: 0.100
Episode 1561	Total Reward: 1.50	Epsilon: 0.100
Episode 1562	Total Reward: 0.00	Epsilon: 0.100
Episode 1563	Total Reward: 0.00	Epsilon: 0.100
Episode 1564	Total Reward: 0.00	Epsilon: 0.100
Episode 1565	Total Reward: -10.00	Epsilon: 0.100
Episode 1566	Total Reward: 1.50	Epsilon: 0.100
Episode 1567	Total Reward: 0.00	Epsilon: 0.100
Episode 1568	Total Reward: -11.50	Epsilon: 0.100
Episode 1569	Total Reward: 1.50	Epsilon: 0.100
Episode 1570	Total Reward: 1.50	Epsilon: 0.100
Episode 1571	Total Reward: 1.50	Epsilon: 0.100
Episode 1572	Total Reward: -20.00	Epsilon: 0.100
Episode 1573	Total Reward: 0.00	Epsilon: 0.100
Episode 1574	Total Reward: -1.50	Epsilon: 0.100
Episode 1575	Total Reward: 0.00	Epsilon: 0.100
Episode 1576	Total Reward: 0.00	Epsilon: 0.100
Episode 1577	Total Reward: 1.50	Epsilon: 0.100
Episode 1578	Total Reward: -16.00	Epsilon: 0.100
Episode 1579	Total Reward: -14.00	Epsilon: 0.100
Episode 1580	Total Reward: -14.50	Epsilon: 0.100
Episode 1581	Total Reward: -15.00	Epsilon: 0.100
Episode 1582	Total Reward: 1.50	Epsilon: 0.100
Episode 1583	Total Reward: 1.50	Epsilon: 0.100
Episode 1584	Total Reward: -12.00	Epsilon: 0.100
Episode 1585	Total Reward: -1.50	Epsilon: 0.100
Episode 1586	Total Reward: -15.50	Epsilon: 0.100
Episode 1587	Total Reward: -10.00	Epsilon: 0.100
Episode 1588	Total Reward: -10.50	Epsilon: 0.100
Episode 1589	Total Reward: -12.00	Epsilon: 0.100
Episode 1590	Total Reward: 0.00	Epsilon: 0.100
Episode 1591	Total Reward: 1.50	Epsilon: 0.100

Episode 1592	Total Reward: 0.00	Epsilon: 0.100
Episode 1593	Total Reward: -17.00	Epsilon: 0.100
Episode 1594	Total Reward: 0.00	Epsilon: 0.100
Episode 1595	Total Reward: 0.00	Epsilon: 0.100
Episode 1596	Total Reward: -1.50	Epsilon: 0.100
Episode 1597	Total Reward: -1.50	Epsilon: 0.100
Episode 1598	Total Reward: -16.00	Epsilon: 0.100
Episode 1599	Total Reward: 1.50	Epsilon: 0.100
Episode 1600	Total Reward: -19.00	Epsilon: 0.100
Episode 1601	Total Reward: 0.00	Epsilon: 0.100
Episode 1602	Total Reward: 0.00	Epsilon: 0.100
Episode 1603	Total Reward: -10.00	Epsilon: 0.100
Episode 1604	Total Reward: -10.00	Epsilon: 0.100
Episode 1605	Total Reward: -13.00	Epsilon: 0.100
Episode 1606	Total Reward: 1.50	Epsilon: 0.100
Episode 1607	Total Reward: -14.50	Epsilon: 0.100
Episode 1608	Total Reward: -16.00	Epsilon: 0.100
Episode 1609	Total Reward: 1.50	Epsilon: 0.100
Episode 1610	Total Reward: 0.00	Epsilon: 0.100
Episode 1611	Total Reward: 0.00	Epsilon: 0.100
Episode 1612	Total Reward: -4.50	Epsilon: 0.100
Episode 1613	Total Reward: 1.50	Epsilon: 0.100
Episode 1614	Total Reward: -17.50	Epsilon: 0.100
Episode 1615	Total Reward: -13.50	Epsilon: 0.100
Episode 1616	Total Reward: -18.50	Epsilon: 0.100
Episode 1617	Total Reward: 1.50	Epsilon: 0.100
Episode 1618	Total Reward: 1.50	Epsilon: 0.100
Episode 1619	Total Reward: 1.50	Epsilon: 0.100
Episode 1620	Total Reward: -17.50	Epsilon: 0.100
Episode 1621	Total Reward: 0.00	Epsilon: 0.100
Episode 1622	Total Reward: 1.50	Epsilon: 0.100
Episode 1623	Total Reward: -1.50	Epsilon: 0.100
Episode 1624	Total Reward: 0.00	Epsilon: 0.100
Episode 1625	Total Reward: -11.00	Epsilon: 0.100
Episode 1626	Total Reward: 1.50	Epsilon: 0.100
Episode 1627	Total Reward: 0.00	Epsilon: 0.100
Episode 1628	Total Reward: 1.50	Epsilon: 0.100
Episode 1629	Total Reward: -11.00	Epsilon: 0.100
Episode 1630	Total Reward: 0.00	Epsilon: 0.100
Episode 1631	Total Reward: 1.50	Epsilon: 0.100
Episode 1632	Total Reward: -3.00	Epsilon: 0.100
Episode 1633	Total Reward: -10.50	Epsilon: 0.100
Episode 1634	Total Reward: 1.50	Epsilon: 0.100
Episode 1635	Total Reward: 1.50	Epsilon: 0.100
Episode 1636	Total Reward: 1.50	Epsilon: 0.100
Episode 1637	Total Reward: 0.00	Epsilon: 0.100
Episode 1638	Total Reward: -3.00	Epsilon: 0.100
Episode 1639	Total Reward: -3.00	Epsilon: 0.100
Episode 1640	Total Reward: -10.50	Epsilon: 0.100
Episode 1641	Total Reward: 0.00	Epsilon: 0.100
Episode 1642	Total Reward: -3.00	Epsilon: 0.100
Episode 1643	Total Reward: 1.50	Epsilon: 0.100
Episode 1644	Total Reward: -3.00	Epsilon: 0.100
Episode 1645	Total Reward: -13.50	Epsilon: 0.100
Episode 1646	Total Reward: -10.00	Epsilon: 0.100
Episode 1647	Total Reward: 1.50	Epsilon: 0.100
Episode 1648	Total Reward: 1.50	Epsilon: 0.100
Episode 1649	Total Reward: 1.50	Epsilon: 0.100
Episode 1650	Total Reward: 1.50	Epsilon: 0.100
Episode 1651	Total Reward: 0.00	Epsilon: 0.100
Episode 1652	Total Reward: 1.50	Epsilon: 0.100
Episode 1653	Total Reward: 1.50	Epsilon: 0.100
Episode 1654	Total Reward: -1.50	Epsilon: 0.100
Episode 1655	Total Reward: 0.00	Epsilon: 0.100
Episode 1656	Total Reward: -13.50	Epsilon: 0.100
Episode 1657	Total Reward: -11.50	Epsilon: 0.100
Episode 1658	Total Reward: 0.00	Epsilon: 0.100
Episode 1659	Total Reward: 0.00	Epsilon: 0.100
Episode 1660	Total Reward: 1.50	Epsilon: 0.100
Episode 1661	Total Reward: -1.50	Epsilon: 0.100
Episode 1662	Total Reward: 0.00	Epsilon: 0.100
Episode 1663	Total Reward: 0.00	Epsilon: 0.100
Episode 1664	Total Reward: 1.50	Epsilon: 0.100
Episode 1665	Total Reward: -18.50	Epsilon: 0.100
Episode 1666	Total Reward: -3.00	Epsilon: 0.100
Episode 1667	Total Reward: 1.50	Epsilon: 0.100
Episode 1668	Total Reward: 0.00	Epsilon: 0.100
Episode 1669	Total Reward: 0.00	Epsilon: 0.100
Episode 1670	Total Reward: 1.50	Epsilon: 0.100
Episode 1671	Total Reward: 1.50	Epsilon: 0.100
Episode 1672	Total Reward: -12.50	Epsilon: 0.100
Episode 1673	Total Reward: 1.50	Epsilon: 0.100
Episode 1674	Total Reward: -10.00	Epsilon: 0.100

Episode 1675	Total	Reward: 1.50	Epsilon: 0.100
Episode 1676	Total	Reward: 1.50	Epsilon: 0.100
Episode 1677	Total	Reward: -3.00	Epsilon: 0.100
Episode 1678	Total	Reward: 1.50	Epsilon: 0.100
Episode 1679	Total	Reward: 1.50	Epsilon: 0.100
Episode 1680	Total	Reward: -10.00	Epsilon: 0.100
Episode 1681	Total	Reward: -21.50	Epsilon: 0.100
Episode 1682	Total	Reward: 1.50	Epsilon: 0.100
Episode 1683	Total	Reward: -10.50	Epsilon: 0.100
Episode 1684	Total	Reward: 0.00	Epsilon: 0.100
Episode 1685	Total	Reward: -1.50	Epsilon: 0.100
Episode 1686	Total	Reward: 1.50	Epsilon: 0.100
Episode 1687	Total	Reward: -11.00	Epsilon: 0.100
Episode 1688	Total	Reward: 0.00	Epsilon: 0.100
Episode 1689	Total	Reward: 0.00	Epsilon: 0.100
Episode 1690	Total	Reward: 1.50	Epsilon: 0.100
Episode 1691	Total	Reward: -20.00	Epsilon: 0.100
Episode 1692	Total	Reward: 1.50	Epsilon: 0.100
Episode 1693	Total	Reward: 0.00	Epsilon: 0.100
Episode 1694	Total	Reward: -1.50	Epsilon: 0.100
Episode 1695	Total	Reward: -11.00	Epsilon: 0.100
Episode 1696	Total	Reward: 0.00	Epsilon: 0.100
Episode 1697	Total	Reward: -14.50	Epsilon: 0.100
Episode 1698	Total	Reward: 1.50	Epsilon: 0.100
Episode 1699	Total	Reward: -10.50	Epsilon: 0.100
Episode 1700	Total	Reward: 0.00	Epsilon: 0.100
Episode 1701	Total	Reward: -3.00	Epsilon: 0.100
Episode 1702	Total	Reward: -13.50	Epsilon: 0.100
Episode 1703	Total	Reward: 1.50	Epsilon: 0.100
Episode 1704	Total	Reward: 0.00	Epsilon: 0.100
Episode 1705	Total	Reward: 1.50	Epsilon: 0.100
Episode 1706	Total	Reward: 0.00	Epsilon: 0.100
Episode 1707	Total	Reward: 1.50	Epsilon: 0.100
Episode 1708	Total	Reward: 1.50	Epsilon: 0.100
Episode 1709	Total	Reward: -16.00	Epsilon: 0.100
Episode 1710	Total	Reward: -10.00	Epsilon: 0.100
Episode 1711	Total	Reward: 1.50	Epsilon: 0.100
Episode 1712	Total	Reward: 0.00	Epsilon: 0.100
Episode 1713	Total	Reward: 1.50	Epsilon: 0.100
Episode 1714	Total	Reward: -6.00	Epsilon: 0.100
Episode 1715	Total	Reward: 0.00	Epsilon: 0.100
Episode 1716	Total	Reward: 0.00	Epsilon: 0.100
Episode 1717	Total	Reward: 0.00	Epsilon: 0.100
Episode 1718	Total	Reward: 1.50	Epsilon: 0.100
Episode 1719	Total	Reward: 0.00	Epsilon: 0.100
Episode 1720	Total	Reward: 1.50	Epsilon: 0.100
Episode 1721	Total	Reward: 0.00	Epsilon: 0.100
Episode 1722	Total	Reward: 1.50	Epsilon: 0.100
Episode 1723	Total	Reward: 1.50	Epsilon: 0.100
Episode 1724	Total	Reward: 1.50	Epsilon: 0.100
Episode 1725	Total	Reward: -10.00	Epsilon: 0.100
Episode 1726	Total	Reward: -10.50	Epsilon: 0.100
Episode 1727	Total	Reward: 1.50	Epsilon: 0.100
Episode 1728	Total	Reward: 1.50	Epsilon: 0.100
Episode 1729	Total	Reward: 0.00	Epsilon: 0.100
Episode 1730	Total	Reward: 1.50	Epsilon: 0.100
Episode 1731	Total	Reward: 0.00	Epsilon: 0.100
Episode 1732	Total	Reward: 0.00	Epsilon: 0.100
Episode 1733	Total	Reward: -10.00	Epsilon: 0.100
Episode 1734	Total	Reward: 1.50	Epsilon: 0.100
Episode 1735	Total	Reward: -1.50	Epsilon: 0.100
Episode 1736	Total	Reward: 0.00	Epsilon: 0.100
Episode 1737	Total	Reward: -1.50	Epsilon: 0.100
Episode 1738	Total	Reward: 0.00	Epsilon: 0.100
Episode 1739	Total	Reward: 1.50	Epsilon: 0.100
Episode 1740	Total	Reward: -18.50	Epsilon: 0.100
Episode 1741	Total	Reward: -10.00	Epsilon: 0.100
Episode 1742	Total	Reward: 1.50	Epsilon: 0.100
Episode 1743	Total	Reward: -1.50	Epsilon: 0.100
Episode 1744	Total	Reward: -1.50	Epsilon: 0.100
Episode 1745	Total	Reward: 1.50	Epsilon: 0.100
Episode 1746	Total	Reward: -13.00	Epsilon: 0.100
Episode 1747	Total	Reward: -3.00	Epsilon: 0.100
Episode 1748	Total	Reward: 1.50	Epsilon: 0.100
Episode 1749	Total	Reward: 1.50	Epsilon: 0.100
Episode 1750	Total	Reward: -11.00	Epsilon: 0.100
Episode 1751	Total	Reward: 0.00	Epsilon: 0.100
Episode 1752	Total	Reward: 0.00	Epsilon: 0.100
Episode 1753	Total	Reward: 1.50	Epsilon: 0.100
Episode 1754	Total	Reward: 1.50	Epsilon: 0.100
Episode 1755	Total	Reward: 0.00	Epsilon: 0.100
Episode 1756	Total	Reward: -11.50	Epsilon: 0.100
Episode 1757	Total	Reward: -10.00	Epsilon: 0.100

[illegible]

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[illegible]

[illegible]

[illegible]

Episode 2256	Total Reward: 1.50	Epsilon: 0.100
Episode 2257	Total Reward: -11.50	Epsilon: 0.100
Episode 2258	Total Reward: -3.00	Epsilon: 0.100
Episode 2259	Total Reward: 1.50	Epsilon: 0.100
Episode 2260	Total Reward: -1.50	Epsilon: 0.100
Episode 2261	Total Reward: 0.00	Epsilon: 0.100
Episode 2262	Total Reward: -15.50	Epsilon: 0.100
Episode 2263	Total Reward: 0.00	Epsilon: 0.100
Episode 2264	Total Reward: 0.00	Epsilon: 0.100
Episode 2265	Total Reward: -15.50	Epsilon: 0.100
Episode 2266	Total Reward: -12.00	Epsilon: 0.100
Episode 2267	Total Reward: -3.00	Epsilon: 0.100
Episode 2268	Total Reward: 1.50	Epsilon: 0.100
Episode 2269	Total Reward: -3.00	Epsilon: 0.100
Episode 2270	Total Reward: 0.00	Epsilon: 0.100
Episode 2271	Total Reward: 1.50	Epsilon: 0.100
Episode 2272	Total Reward: -17.00	Epsilon: 0.100
Episode 2273	Total Reward: 1.50	Epsilon: 0.100
Episode 2274	Total Reward: -12.00	Epsilon: 0.100
Episode 2275	Total Reward: 0.00	Epsilon: 0.100
Episode 2276	Total Reward: -10.00	Epsilon: 0.100
Episode 2277	Total Reward: -18.00	Epsilon: 0.100
Episode 2278	Total Reward: -1.50	Epsilon: 0.100
Episode 2279	Total Reward: 1.50	Epsilon: 0.100
Episode 2280	Total Reward: -12.00	Epsilon: 0.100
Episode 2281	Total Reward: -12.00	Epsilon: 0.100
Episode 2282	Total Reward: 1.50	Epsilon: 0.100
Episode 2283	Total Reward: -10.00	Epsilon: 0.100
Episode 2284	Total Reward: -1.50	Epsilon: 0.100
Episode 2285	Total Reward: 0.00	Epsilon: 0.100
Episode 2286	Total Reward: 1.50	Epsilon: 0.100
Episode 2287	Total Reward: 1.50	Epsilon: 0.100
Episode 2288	Total Reward: 1.50	Epsilon: 0.100
Episode 2289	Total Reward: -7.50	Epsilon: 0.100
Episode 2290	Total Reward: 0.00	Epsilon: 0.100
Episode 2291	Total Reward: 0.00	Epsilon: 0.100
Episode 2292	Total Reward: 1.50	Epsilon: 0.100
Episode 2293	Total Reward: 1.50	Epsilon: 0.100
Episode 2294	Total Reward: 0.00	Epsilon: 0.100
Episode 2295	Total Reward: 1.50	Epsilon: 0.100
Episode 2296	Total Reward: -10.00	Epsilon: 0.100
Episode 2297	Total Reward: -15.50	Epsilon: 0.100
Episode 2298	Total Reward: 1.50	Epsilon: 0.100
Episode 2299	Total Reward: 0.00	Epsilon: 0.100
Episode 2300	Total Reward: -13.00	Epsilon: 0.100
Episode 2301	Total Reward: 0.00	Epsilon: 0.100
Episode 2302	Total Reward: -12.00	Epsilon: 0.100
Episode 2303	Total Reward: -1.50	Epsilon: 0.100
Episode 2304	Total Reward: 1.50	Epsilon: 0.100
Episode 2305	Total Reward: -3.00	Epsilon: 0.100
Episode 2306	Total Reward: 0.00	Epsilon: 0.100
Episode 2307	Total Reward: -10.00	Epsilon: 0.100
Episode 2308	Total Reward: 1.50	Epsilon: 0.100
Episode 2309	Total Reward: 1.50	Epsilon: 0.100
Episode 2310	Total Reward: -10.50	Epsilon: 0.100
Episode 2311	Total Reward: 0.00	Epsilon: 0.100
Episode 2312	Total Reward: 0.00	Epsilon: 0.100
Episode 2313	Total Reward: 1.50	Epsilon: 0.100
Episode 2314	Total Reward: -10.00	Epsilon: 0.100
Episode 2315	Total Reward: -10.00	Epsilon: 0.100
Episode 2316	Total Reward: 0.00	Epsilon: 0.100
Episode 2317	Total Reward: -18.50	Epsilon: 0.100
Episode 2318	Total Reward: 0.00	Epsilon: 0.100
Episode 2319	Total Reward: 1.50	Epsilon: 0.100
Episode 2320	Total Reward: 1.50	Epsilon: 0.100
Episode 2321	Total Reward: -10.50	Epsilon: 0.100
Episode 2322	Total Reward: 0.00	Epsilon: 0.100
Episode 2323	Total Reward: 1.50	Epsilon: 0.100
Episode 2324	Total Reward: 1.50	Epsilon: 0.100
Episode 2325	Total Reward: 0.00	Epsilon: 0.100
Episode 2326	Total Reward: -10.50	Epsilon: 0.100
Episode 2327	Total Reward: 1.50	Epsilon: 0.100
Episode 2328	Total Reward: -1.50	Epsilon: 0.100
Episode 2329	Total Reward: 1.50	Epsilon: 0.100
Episode 2330	Total Reward: 1.50	Epsilon: 0.100
Episode 2331	Total Reward: 1.50	Epsilon: 0.100
Episode 2332	Total Reward: 1.50	Epsilon: 0.100
Episode 2333	Total Reward: 0.00	Epsilon: 0.100
Episode 2334	Total Reward: 0.00	Epsilon: 0.100
Episode 2335	Total Reward: 1.50	Epsilon: 0.100
Episode 2336	Total Reward: 0.00	Epsilon: 0.100
Episode 2337	Total Reward: 1.50	Epsilon: 0.100
Episode 2338	Total Reward: -23.00	Epsilon: 0.100

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Episode 2588	Total Reward:	1.50	Epsilon: 0.100
Episode 2589	Total Reward:	-11.50	Epsilon: 0.100
Episode 2590	Total Reward:	-11.50	Epsilon: 0.100
Episode 2591	Total Reward:	1.50	Epsilon: 0.100
Episode 2592	Total Reward:	0.00	Epsilon: 0.100
Episode 2593	Total Reward:	1.50	Epsilon: 0.100
Episode 2594	Total Reward:	1.50	Epsilon: 0.100
Episode 2595	Total Reward:	-10.00	Epsilon: 0.100
Episode 2596	Total Reward:	-13.00	Epsilon: 0.100
Episode 2597	Total Reward:	0.00	Epsilon: 0.100
Episode 2598	Total Reward:	1.50	Epsilon: 0.100
Episode 2599	Total Reward:	1.50	Epsilon: 0.100
Episode 2600	Total Reward:	-3.00	Epsilon: 0.100
Episode 2601	Total Reward:	0.00	Epsilon: 0.100
Episode 2602	Total Reward:	-13.50	Epsilon: 0.100
Episode 2603	Total Reward:	-13.00	Epsilon: 0.100
Episode 2604	Total Reward:	0.00	Epsilon: 0.100
Episode 2605	Total Reward:	0.00	Epsilon: 0.100
Episode 2606	Total Reward:	1.50	Epsilon: 0.100
Episode 2607	Total Reward:	-10.50	Epsilon: 0.100
Episode 2608	Total Reward:	0.00	Epsilon: 0.100
Episode 2609	Total Reward:	-14.00	Epsilon: 0.100
Episode 2610	Total Reward:	1.50	Epsilon: 0.100
Episode 2611	Total Reward:	1.50	Epsilon: 0.100
Episode 2612	Total Reward:	-4.50	Epsilon: 0.100
Episode 2613	Total Reward:	-1.50	Epsilon: 0.100
Episode 2614	Total Reward:	1.50	Epsilon: 0.100
Episode 2615	Total Reward:	0.00	Epsilon: 0.100
Episode 2616	Total Reward:	0.00	Epsilon: 0.100
Episode 2617	Total Reward:	0.00	Epsilon: 0.100
Episode 2618	Total Reward:	1.50	Epsilon: 0.100
Episode 2619	Total Reward:	0.00	Epsilon: 0.100
Episode 2620	Total Reward:	0.00	Epsilon: 0.100
Episode 2621	Total Reward:	-1.50	Epsilon: 0.100
Episode 2622	Total Reward:	0.00	Epsilon: 0.100
Episode 2623	Total Reward:	-12.00	Epsilon: 0.100
Episode 2624	Total Reward:	1.50	Epsilon: 0.100
Episode 2625	Total Reward:	0.00	Epsilon: 0.100
Episode 2626	Total Reward:	0.00	Epsilon: 0.100
Episode 2627	Total Reward:	0.00	Epsilon: 0.100
Episode 2628	Total Reward:	1.50	Epsilon: 0.100
Episode 2629	Total Reward:	-3.00	Epsilon: 0.100
Episode 2630	Total Reward:	1.50	Epsilon: 0.100
Episode 2631	Total Reward:	1.50	Epsilon: 0.100
Episode 2632	Total Reward:	-10.50	Epsilon: 0.100
Episode 2633	Total Reward:	0.00	Epsilon: 0.100
Episode 2634	Total Reward:	-1.50	Epsilon: 0.100
Episode 2635	Total Reward:	-20.00	Epsilon: 0.100
Episode 2636	Total Reward:	-12.00	Epsilon: 0.100
Episode 2637	Total Reward:	1.50	Epsilon: 0.100
Episode 2638	Total Reward:	1.50	Epsilon: 0.100
Episode 2639	Total Reward:	-11.00	Epsilon: 0.100
Episode 2640	Total Reward:	0.00	Epsilon: 0.100
Episode 2641	Total Reward:	-1.50	Epsilon: 0.100
Episode 2642	Total Reward:	0.00	Epsilon: 0.100
Episode 2643	Total Reward:	1.50	Epsilon: 0.100
Episode 2644	Total Reward:	1.50	Epsilon: 0.100
Episode 2645	Total Reward:	-15.50	Epsilon: 0.100
Episode 2646	Total Reward:	1.50	Epsilon: 0.100
Episode 2647	Total Reward:	1.50	Epsilon: 0.100
Episode 2648	Total Reward:	-3.00	Epsilon: 0.100
Episode 2649	Total Reward:	-1.50	Epsilon: 0.100
Episode 2650	Total Reward:	-11.00	Epsilon: 0.100
Episode 2651	Total Reward:	0.00	Epsilon: 0.100
Episode 2652	Total Reward:	1.50	Epsilon: 0.100
Episode 2653	Total Reward:	1.50	Epsilon: 0.100
Episode 2654	Total Reward:	-10.00	Epsilon: 0.100
Episode 2655	Total Reward:	-1.50	Epsilon: 0.100
Episode 2656	Total Reward:	1.50	Epsilon: 0.100
Episode 2657	Total Reward:	-10.00	Epsilon: 0.100
Episode 2658	Total Reward:	-13.00	Epsilon: 0.100
Episode 2659	Total Reward:	-1.50	Epsilon: 0.100
Episode 2660	Total Reward:	0.00	Epsilon: 0.100
Episode 2661	Total Reward:	0.00	Epsilon: 0.100
Episode 2662	Total Reward:	1.50	Epsilon: 0.100
Episode 2663	Total Reward:	0.00	Epsilon: 0.100
Episode 2664	Total Reward:	1.50	Epsilon: 0.100
Episode 2665	Total Reward:	1.50	Epsilon: 0.100
Episode 2666	Total Reward:	-3.00	Epsilon: 0.100
Episode 2667	Total Reward:	1.50	Epsilon: 0.100
Episode 2668	Total Reward:	-10.00	Epsilon: 0.100
Episode 2669	Total Reward:	1.50	Epsilon: 0.100
Episode 2670	Total Reward:	-1.50	Epsilon: 0.100

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Episode 2754	Total Reward: 0.00	Epsilon: 0.100
Episode 2755	Total Reward: 1.50	Epsilon: 0.100
Episode 2756	Total Reward: -15.50	Epsilon: 0.100
Episode 2757	Total Reward: 1.50	Epsilon: 0.100
Episode 2758	Total Reward: 1.50	Epsilon: 0.100
Episode 2759	Total Reward: 1.50	Epsilon: 0.100
Episode 2760	Total Reward: -1.50	Epsilon: 0.100
Episode 2761	Total Reward: -19.50	Epsilon: 0.100
Episode 2762	Total Reward: 1.50	Epsilon: 0.100
Episode 2763	Total Reward: 1.50	Epsilon: 0.100
Episode 2764	Total Reward: 1.50	Epsilon: 0.100
Episode 2765	Total Reward: -1.50	Epsilon: 0.100
Episode 2766	Total Reward: -10.00	Epsilon: 0.100
Episode 2767	Total Reward: 1.50	Epsilon: 0.100
Episode 2768	Total Reward: -1.50	Epsilon: 0.100
Episode 2769	Total Reward: 0.00	Epsilon: 0.100
Episode 2770	Total Reward: 1.50	Epsilon: 0.100
Episode 2771	Total Reward: -15.50	Epsilon: 0.100
Episode 2772	Total Reward: -1.50	Epsilon: 0.100
Episode 2773	Total Reward: 1.50	Epsilon: 0.100
Episode 2774	Total Reward: 1.50	Epsilon: 0.100
Episode 2775	Total Reward: -14.00	Epsilon: 0.100
Episode 2776	Total Reward: 1.50	Epsilon: 0.100
Episode 2777	Total Reward: 1.50	Epsilon: 0.100
Episode 2778	Total Reward: 1.50	Epsilon: 0.100
Episode 2779	Total Reward: -14.00	Epsilon: 0.100
Episode 2780	Total Reward: -13.50	Epsilon: 0.100
Episode 2781	Total Reward: 1.50	Epsilon: 0.100
Episode 2782	Total Reward: 1.50	Epsilon: 0.100
Episode 2783	Total Reward: 1.50	Epsilon: 0.100
Episode 2784	Total Reward: -1.50	Epsilon: 0.100
Episode 2785	Total Reward: -10.00	Epsilon: 0.100
Episode 2786	Total Reward: 1.50	Epsilon: 0.100
Episode 2787	Total Reward: 1.50	Epsilon: 0.100
Episode 2788	Total Reward: -1.50	Epsilon: 0.100
Episode 2789	Total Reward: 1.50	Epsilon: 0.100
Episode 2790	Total Reward: -1.50	Epsilon: 0.100
Episode 2791	Total Reward: 0.00	Epsilon: 0.100
Episode 2792	Total Reward: -1.50	Epsilon: 0.100
Episode 2793	Total Reward: -16.00	Epsilon: 0.100
Episode 2794	Total Reward: 1.50	Epsilon: 0.100
Episode 2795	Total Reward: -1.50	Epsilon: 0.100
Episode 2796	Total Reward: 0.00	Epsilon: 0.100
Episode 2797	Total Reward: -1.50	Epsilon: 0.100
Episode 2798	Total Reward: -3.00	Epsilon: 0.100
Episode 2799	Total Reward: -1.50	Epsilon: 0.100
Episode 2800	Total Reward: -17.00	Epsilon: 0.100
Episode 2801	Total Reward: -6.00	Epsilon: 0.100
Episode 2802	Total Reward: 1.50	Epsilon: 0.100
Episode 2803	Total Reward: 1.50	Epsilon: 0.100
Episode 2804	Total Reward: 0.00	Epsilon: 0.100
Episode 2805	Total Reward: -13.00	Epsilon: 0.100
Episode 2806	Total Reward: 1.50	Epsilon: 0.100
Episode 2807	Total Reward: -3.00	Epsilon: 0.100
Episode 2808	Total Reward: 1.50	Epsilon: 0.100
Episode 2809	Total Reward: 0.00	Epsilon: 0.100
Episode 2810	Total Reward: 1.50	Epsilon: 0.100
Episode 2811	Total Reward: -16.00	Epsilon: 0.100
Episode 2812	Total Reward: 1.50	Epsilon: 0.100
Episode 2813	Total Reward: 1.50	Epsilon: 0.100
Episode 2814	Total Reward: 0.00	Epsilon: 0.100
Episode 2815	Total Reward: -10.00	Epsilon: 0.100
Episode 2816	Total Reward: -1.50	Epsilon: 0.100
Episode 2817	Total Reward: 1.50	Epsilon: 0.100
Episode 2818	Total Reward: 1.50	Epsilon: 0.100
Episode 2819	Total Reward: -1.50	Epsilon: 0.100
Episode 2820	Total Reward: -10.50	Epsilon: 0.100
Episode 2821	Total Reward: -11.00	Epsilon: 0.100
Episode 2822	Total Reward: -11.50	Epsilon: 0.100
Episode 2823	Total Reward: -1.50	Epsilon: 0.100
Episode 2824	Total Reward: -13.50	Epsilon: 0.100
Episode 2825	Total Reward: 1.50	Epsilon: 0.100
Episode 2826	Total Reward: -10.50	Epsilon: 0.100
Episode 2827	Total Reward: 1.50	Epsilon: 0.100
Episode 2828	Total Reward: -18.50	Epsilon: 0.100
Episode 2829	Total Reward: -21.50	Epsilon: 0.100
Episode 2830	Total Reward: -3.00	Epsilon: 0.100
Episode 2831	Total Reward: -13.50	Epsilon: 0.100
Episode 2832	Total Reward: 1.50	Epsilon: 0.100
Episode 2833	Total Reward: -3.00	Epsilon: 0.100
Episode 2834	Total Reward: 0.00	Epsilon: 0.100
Episode 2835	Total Reward: 0.00	Epsilon: 0.100
Episode 2836	Total Reward: 0.00	Epsilon: 0.100

Episode 2837	Total Reward:	0.00	Epsilon: 0.100
Episode 2838	Total Reward:	-10.50	Epsilon: 0.100
Episode 2839	Total Reward:	-12.50	Epsilon: 0.100
Episode 2840	Total Reward:	1.50	Epsilon: 0.100
Episode 2841	Total Reward:	-10.00	Epsilon: 0.100
Episode 2842	Total Reward:	1.50	Epsilon: 0.100
Episode 2843	Total Reward:	0.00	Epsilon: 0.100
Episode 2844	Total Reward:	1.50	Epsilon: 0.100
Episode 2845	Total Reward:	0.00	Epsilon: 0.100
Episode 2846	Total Reward:	0.00	Epsilon: 0.100
Episode 2847	Total Reward:	-18.50	Epsilon: 0.100
Episode 2848	Total Reward:	-13.50	Epsilon: 0.100
Episode 2849	Total Reward:	0.00	Epsilon: 0.100
Episode 2850	Total Reward:	-10.00	Epsilon: 0.100
Episode 2851	Total Reward:	0.00	Epsilon: 0.100
Episode 2852	Total Reward:	-11.50	Epsilon: 0.100
Episode 2853	Total Reward:	-4.50	Epsilon: 0.100
Episode 2854	Total Reward:	1.50	Epsilon: 0.100
Episode 2855	Total Reward:	-10.00	Epsilon: 0.100
Episode 2856	Total Reward:	-16.00	Epsilon: 0.100
Episode 2857	Total Reward:	0.00	Epsilon: 0.100
Episode 2858	Total Reward:	-10.00	Epsilon: 0.100
Episode 2859	Total Reward:	-1.50	Epsilon: 0.100
Episode 2860	Total Reward:	-11.50	Epsilon: 0.100
Episode 2861	Total Reward:	-1.50	Epsilon: 0.100
Episode 2862	Total Reward:	0.00	Epsilon: 0.100
Episode 2863	Total Reward:	0.00	Epsilon: 0.100
Episode 2864	Total Reward:	-16.50	Epsilon: 0.100
Episode 2865	Total Reward:	0.00	Epsilon: 0.100
Episode 2866	Total Reward:	0.00	Epsilon: 0.100
Episode 2867	Total Reward:	1.50	Epsilon: 0.100
Episode 2868	Total Reward:	0.00	Epsilon: 0.100
Episode 2869	Total Reward:	-13.50	Epsilon: 0.100
Episode 2870	Total Reward:	1.50	Epsilon: 0.100
Episode 2871	Total Reward:	1.50	Epsilon: 0.100
Episode 2872	Total Reward:	-3.00	Epsilon: 0.100
Episode 2873	Total Reward:	0.00	Epsilon: 0.100
Episode 2874	Total Reward:	0.00	Epsilon: 0.100
Episode 2875	Total Reward:	-11.50	Epsilon: 0.100
Episode 2876	Total Reward:	1.50	Epsilon: 0.100
Episode 2877	Total Reward:	0.00	Epsilon: 0.100
Episode 2878	Total Reward:	-1.50	Epsilon: 0.100
Episode 2879	Total Reward:	-10.00	Epsilon: 0.100
Episode 2880	Total Reward:	-1.50	Epsilon: 0.100
Episode 2881	Total Reward:	1.50	Epsilon: 0.100
Episode 2882	Total Reward:	-21.00	Epsilon: 0.100
Episode 2883	Total Reward:	0.00	Epsilon: 0.100
Episode 2884	Total Reward:	-3.00	Epsilon: 0.100
Episode 2885	Total Reward:	1.50	Epsilon: 0.100
Episode 2886	Total Reward:	-3.00	Epsilon: 0.100
Episode 2887	Total Reward:	0.00	Epsilon: 0.100
Episode 2888	Total Reward:	-11.50	Epsilon: 0.100
Episode 2889	Total Reward:	0.00	Epsilon: 0.100
Episode 2890	Total Reward:	1.50	Epsilon: 0.100
Episode 2891	Total Reward:	-1.50	Epsilon: 0.100
Episode 2892	Total Reward:	1.50	Epsilon: 0.100
Episode 2893	Total Reward:	-3.00	Epsilon: 0.100
Episode 2894	Total Reward:	0.00	Epsilon: 0.100
Episode 2895	Total Reward:	1.50	Epsilon: 0.100
Episode 2896	Total Reward:	1.50	Epsilon: 0.100
Episode 2897	Total Reward:	-10.50	Epsilon: 0.100
Episode 2898	Total Reward:	-10.00	Epsilon: 0.100
Episode 2899	Total Reward:	1.50	Epsilon: 0.100
Episode 2900	Total Reward:	1.50	Epsilon: 0.100
Episode 2901	Total Reward:	1.50	Epsilon: 0.100
Episode 2902	Total Reward:	-7.50	Epsilon: 0.100
Episode 2903	Total Reward:	1.50	Epsilon: 0.100
Episode 2904	Total Reward:	-15.50	Epsilon: 0.100
Episode 2905	Total Reward:	1.50	Epsilon: 0.100
Episode 2906	Total Reward:	1.50	Epsilon: 0.100
Episode 2907	Total Reward:	-11.50	Epsilon: 0.100
Episode 2908	Total Reward:	-10.00	Epsilon: 0.100
Episode 2909	Total Reward:	1.50	Epsilon: 0.100
Episode 2910	Total Reward:	0.00	Epsilon: 0.100
Episode 2911	Total Reward:	-1.50	Epsilon: 0.100
Episode 2912	Total Reward:	-3.00	Epsilon: 0.100
Episode 2913	Total Reward:	1.50	Epsilon: 0.100
Episode 2914	Total Reward:	-1.50	Epsilon: 0.100
Episode 2915	Total Reward:	-1.50	Epsilon: 0.100
Episode 2916	Total Reward:	1.50	Epsilon: 0.100
Episode 2917	Total Reward:	1.50	Epsilon: 0.100
Episode 2918	Total Reward:	-3.00	Epsilon: 0.100
Episode 2919	Total Reward:	-1.50	Epsilon: 0.100

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Episode 3086	Total Reward: 1.50	Epsilon: 0.100
Episode 3087	Total Reward: 0.00	Epsilon: 0.100
Episode 3088	Total Reward: -10.00	Epsilon: 0.100
Episode 3089	Total Reward: 1.50	Epsilon: 0.100
Episode 3090	Total Reward: 0.00	Epsilon: 0.100
Episode 3091	Total Reward: 0.00	Epsilon: 0.100
Episode 3092	Total Reward: -1.50	Epsilon: 0.100
Episode 3093	Total Reward: 1.50	Epsilon: 0.100
Episode 3094	Total Reward: -12.50	Epsilon: 0.100
Episode 3095	Total Reward: -1.50	Epsilon: 0.100
Episode 3096	Total Reward: -10.00	Epsilon: 0.100
Episode 3097	Total Reward: 1.50	Epsilon: 0.100
Episode 3098	Total Reward: -10.00	Epsilon: 0.100
Episode 3099	Total Reward: -11.00	Epsilon: 0.100
Episode 3100	Total Reward: 0.00	Epsilon: 0.100
Episode 3101	Total Reward: -3.00	Epsilon: 0.100
Episode 3102	Total Reward: 1.50	Epsilon: 0.100
Episode 3103	Total Reward: 1.50	Epsilon: 0.100
Episode 3104	Total Reward: -10.50	Epsilon: 0.100
Episode 3105	Total Reward: 1.50	Epsilon: 0.100
Episode 3106	Total Reward: -14.50	Epsilon: 0.100
Episode 3107	Total Reward: -15.50	Epsilon: 0.100
Episode 3108	Total Reward: 0.00	Epsilon: 0.100
Episode 3109	Total Reward: 1.50	Epsilon: 0.100
Episode 3110	Total Reward: 0.00	Epsilon: 0.100
Episode 3111	Total Reward: -12.50	Epsilon: 0.100
Episode 3112	Total Reward: -1.50	Epsilon: 0.100
Episode 3113	Total Reward: -13.00	Epsilon: 0.100
Episode 3114	Total Reward: 1.50	Epsilon: 0.100
Episode 3115	Total Reward: 1.50	Epsilon: 0.100
Episode 3116	Total Reward: 1.50	Epsilon: 0.100
Episode 3117	Total Reward: 1.50	Epsilon: 0.100
Episode 3118	Total Reward: -15.00	Epsilon: 0.100
Episode 3119	Total Reward: 1.50	Epsilon: 0.100
Episode 3120	Total Reward: 1.50	Epsilon: 0.100
Episode 3121	Total Reward: 1.50	Epsilon: 0.100
Episode 3122	Total Reward: 1.50	Epsilon: 0.100
Episode 3123	Total Reward: 0.00	Epsilon: 0.100
Episode 3124	Total Reward: -4.50	Epsilon: 0.100
Episode 3125	Total Reward: 1.50	Epsilon: 0.100
Episode 3126	Total Reward: 1.50	Epsilon: 0.100
Episode 3127	Total Reward: 0.00	Epsilon: 0.100
Episode 3128	Total Reward: 0.00	Epsilon: 0.100
Episode 3129	Total Reward: -15.00	Epsilon: 0.100
Episode 3130	Total Reward: 0.00	Epsilon: 0.100
Episode 3131	Total Reward: 0.00	Epsilon: 0.100
Episode 3132	Total Reward: 1.50	Epsilon: 0.100
Episode 3133	Total Reward: -1.50	Epsilon: 0.100
Episode 3134	Total Reward: 1.50	Epsilon: 0.100
Episode 3135	Total Reward: 1.50	Epsilon: 0.100
Episode 3136	Total Reward: 1.50	Epsilon: 0.100
Episode 3137	Total Reward: 0.00	Epsilon: 0.100
Episode 3138	Total Reward: -1.50	Epsilon: 0.100
Episode 3139	Total Reward: -12.50	Epsilon: 0.100
Episode 3140	Total Reward: -11.50	Epsilon: 0.100
Episode 3141	Total Reward: -3.00	Epsilon: 0.100
Episode 3142	Total Reward: -3.00	Epsilon: 0.100
Episode 3143	Total Reward: 0.00	Epsilon: 0.100
Episode 3144	Total Reward: -1.50	Epsilon: 0.100
Episode 3145	Total Reward: 1.50	Epsilon: 0.100
Episode 3146	Total Reward: 0.00	Epsilon: 0.100
Episode 3147	Total Reward: 1.50	Epsilon: 0.100
Episode 3148	Total Reward: 1.50	Epsilon: 0.100
Episode 3149	Total Reward: 1.50	Epsilon: 0.100
Episode 3150	Total Reward: -3.00	Epsilon: 0.100
Episode 3151	Total Reward: -1.50	Epsilon: 0.100
Episode 3152	Total Reward: 0.00	Epsilon: 0.100
Episode 3153	Total Reward: -1.50	Epsilon: 0.100
Episode 3154	Total Reward: -10.00	Epsilon: 0.100
Episode 3155	Total Reward: 0.00	Epsilon: 0.100
Episode 3156	Total Reward: 0.00	Epsilon: 0.100
Episode 3157	Total Reward: 1.50	Epsilon: 0.100
Episode 3158	Total Reward: 0.00	Epsilon: 0.100
Episode 3159	Total Reward: -1.50	Epsilon: 0.100
Episode 3160	Total Reward: -1.50	Epsilon: 0.100
Episode 3161	Total Reward: -3.00	Epsilon: 0.100
Episode 3162	Total Reward: 1.50	Epsilon: 0.100
Episode 3163	Total Reward: 1.50	Epsilon: 0.100
Episode 3164	Total Reward: -21.50	Epsilon: 0.100
Episode 3165	Total Reward: 0.00	Epsilon: 0.100
Episode 3166	Total Reward: 1.50	Epsilon: 0.100
Episode 3167	Total Reward: 1.50	Epsilon: 0.100
Episode 3168	Total Reward: -10.00	Epsilon: 0.100

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Episode 3335	Total Reward: 1.50	Epsilon: 0.100
Episode 3336	Total Reward: -3.00	Epsilon: 0.100
Episode 3337	Total Reward: 0.00	Epsilon: 0.100
Episode 3338	Total Reward: 1.50	Epsilon: 0.100
Episode 3339	Total Reward: 1.50	Epsilon: 0.100
Episode 3340	Total Reward: 0.00	Epsilon: 0.100
Episode 3341	Total Reward: -10.50	Epsilon: 0.100
Episode 3342	Total Reward: -26.00	Epsilon: 0.100
Episode 3343	Total Reward: 0.00	Epsilon: 0.100
Episode 3344	Total Reward: 1.50	Epsilon: 0.100
Episode 3345	Total Reward: 1.50	Epsilon: 0.100
Episode 3346	Total Reward: 1.50	Epsilon: 0.100
Episode 3347	Total Reward: 1.50	Epsilon: 0.100
Episode 3348	Total Reward: 0.00	Epsilon: 0.100
Episode 3349	Total Reward: 0.00	Epsilon: 0.100
Episode 3350	Total Reward: -1.50	Epsilon: 0.100
Episode 3351	Total Reward: 0.00	Epsilon: 0.100
Episode 3352	Total Reward: 0.00	Epsilon: 0.100
Episode 3353	Total Reward: 1.50	Epsilon: 0.100
Episode 3354	Total Reward: 0.00	Epsilon: 0.100
Episode 3355	Total Reward: -13.00	Epsilon: 0.100
Episode 3356	Total Reward: 1.50	Epsilon: 0.100
Episode 3357	Total Reward: 0.00	Epsilon: 0.100
Episode 3358	Total Reward: 0.00	Epsilon: 0.100
Episode 3359	Total Reward: -14.50	Epsilon: 0.100
Episode 3360	Total Reward: -18.50	Epsilon: 0.100
Episode 3361	Total Reward: 1.50	Epsilon: 0.100
Episode 3362	Total Reward: -11.50	Epsilon: 0.100
Episode 3363	Total Reward: 1.50	Epsilon: 0.100
Episode 3364	Total Reward: -14.50	Epsilon: 0.100
Episode 3365	Total Reward: -18.50	Epsilon: 0.100
Episode 3366	Total Reward: 0.00	Epsilon: 0.100
Episode 3367	Total Reward: 1.50	Epsilon: 0.100
Episode 3368	Total Reward: -10.00	Epsilon: 0.100
Episode 3369	Total Reward: -3.00	Epsilon: 0.100
Episode 3370	Total Reward: 0.00	Epsilon: 0.100
Episode 3371	Total Reward: 1.50	Epsilon: 0.100
Episode 3372	Total Reward: 1.50	Epsilon: 0.100
Episode 3373	Total Reward: 0.00	Epsilon: 0.100
Episode 3374	Total Reward: 0.00	Epsilon: 0.100
Episode 3375	Total Reward: 1.50	Epsilon: 0.100
Episode 3376	Total Reward: 0.00	Epsilon: 0.100
Episode 3377	Total Reward: 0.00	Epsilon: 0.100
Episode 3378	Total Reward: 0.00	Epsilon: 0.100
Episode 3379	Total Reward: 0.00	Epsilon: 0.100
Episode 3380	Total Reward: -10.00	Epsilon: 0.100
Episode 3381	Total Reward: 0.00	Epsilon: 0.100
Episode 3382	Total Reward: -13.50	Epsilon: 0.100
Episode 3383	Total Reward: -3.00	Epsilon: 0.100
Episode 3384	Total Reward: 1.50	Epsilon: 0.100
Episode 3385	Total Reward: 1.50	Epsilon: 0.100
Episode 3386	Total Reward: -11.50	Epsilon: 0.100
Episode 3387	Total Reward: 0.00	Epsilon: 0.100
Episode 3388	Total Reward: -1.50	Epsilon: 0.100
Episode 3389	Total Reward: -18.50	Epsilon: 0.100
Episode 3390	Total Reward: 1.50	Epsilon: 0.100
Episode 3391	Total Reward: -14.50	Epsilon: 0.100
Episode 3392	Total Reward: 0.00	Epsilon: 0.100
Episode 3393	Total Reward: 1.50	Epsilon: 0.100
Episode 3394	Total Reward: 1.50	Epsilon: 0.100
Episode 3395	Total Reward: -11.50	Epsilon: 0.100
Episode 3396	Total Reward: 0.00	Epsilon: 0.100
Episode 3397	Total Reward: 1.50	Epsilon: 0.100
Episode 3398	Total Reward: -10.00	Epsilon: 0.100
Episode 3399	Total Reward: -1.50	Epsilon: 0.100
Episode 3400	Total Reward: 1.50	Epsilon: 0.100
Episode 3401	Total Reward: 0.00	Epsilon: 0.100
Episode 3402	Total Reward: 0.00	Epsilon: 0.100
Episode 3403	Total Reward: 0.00	Epsilon: 0.100
Episode 3404	Total Reward: -10.50	Epsilon: 0.100
Episode 3405	Total Reward: -1.50	Epsilon: 0.100
Episode 3406	Total Reward: 0.00	Epsilon: 0.100
Episode 3407	Total Reward: 1.50	Epsilon: 0.100
Episode 3408	Total Reward: 1.50	Epsilon: 0.100
Episode 3409	Total Reward: -11.50	Epsilon: 0.100
Episode 3410	Total Reward: 1.50	Epsilon: 0.100
Episode 3411	Total Reward: -1.50	Epsilon: 0.100
Episode 3412	Total Reward: 1.50	Epsilon: 0.100
Episode 3413	Total Reward: -12.00	Epsilon: 0.100
Episode 3414	Total Reward: 1.50	Epsilon: 0.100
Episode 3415	Total Reward: 1.50	Epsilon: 0.100
Episode 3416	Total Reward: -17.50	Epsilon: 0.100
Episode 3417	Total Reward: 0.00	Epsilon: 0.100

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[illegible]

[illegible]

Episode 3833	Total Reward:	1.50	Epsilon: 0.100
Episode 3834	Total Reward:	1.50	Epsilon: 0.100
Episode 3835	Total Reward:	0.00	Epsilon: 0.100
Episode 3836	Total Reward:	1.50	Epsilon: 0.100
Episode 3837	Total Reward:	1.50	Epsilon: 0.100
Episode 3838	Total Reward:	-17.50	Epsilon: 0.100
Episode 3839	Total Reward:	1.50	Epsilon: 0.100
Episode 3840	Total Reward:	-11.00	Epsilon: 0.100
Episode 3841	Total Reward:	-15.50	Epsilon: 0.100
Episode 3842	Total Reward:	1.50	Epsilon: 0.100
Episode 3843	Total Reward:	1.50	Epsilon: 0.100
Episode 3844	Total Reward:	-10.00	Epsilon: 0.100
Episode 3845	Total Reward:	1.50	Epsilon: 0.100
Episode 3846	Total Reward:	-1.50	Epsilon: 0.100
Episode 3847	Total Reward:	0.00	Epsilon: 0.100
Episode 3848	Total Reward:	0.00	Epsilon: 0.100
Episode 3849	Total Reward:	-1.50	Epsilon: 0.100
Episode 3850	Total Reward:	-13.50	Epsilon: 0.100
Episode 3851	Total Reward:	-10.00	Epsilon: 0.100
Episode 3852	Total Reward:	1.50	Epsilon: 0.100
Episode 3853	Total Reward:	-1.50	Epsilon: 0.100
Episode 3854	Total Reward:	1.50	Epsilon: 0.100
Episode 3855	Total Reward:	1.50	Epsilon: 0.100
Episode 3856	Total Reward:	1.50	Epsilon: 0.100
Episode 3857	Total Reward:	-1.50	Epsilon: 0.100
Episode 3858	Total Reward:	1.50	Epsilon: 0.100
Episode 3859	Total Reward:	-3.00	Epsilon: 0.100
Episode 3860	Total Reward:	1.50	Epsilon: 0.100
Episode 3861	Total Reward:	1.50	Epsilon: 0.100
Episode 3862	Total Reward:	0.00	Epsilon: 0.100
Episode 3863	Total Reward:	1.50	Epsilon: 0.100
Episode 3864	Total Reward:	1.50	Epsilon: 0.100
Episode 3865	Total Reward:	1.50	Epsilon: 0.100
Episode 3866	Total Reward:	-1.50	Epsilon: 0.100
Episode 3867	Total Reward:	-21.50	Epsilon: 0.100
Episode 3868	Total Reward:	-1.50	Epsilon: 0.100
Episode 3869	Total Reward:	1.50	Epsilon: 0.100
Episode 3870	Total Reward:	1.50	Epsilon: 0.100
Episode 3871	Total Reward:	0.00	Epsilon: 0.100
Episode 3872	Total Reward:	1.50	Epsilon: 0.100
Episode 3873	Total Reward:	0.00	Epsilon: 0.100
Episode 3874	Total Reward:	-14.00	Epsilon: 0.100
Episode 3875	Total Reward:	1.50	Epsilon: 0.100
Episode 3876	Total Reward:	1.50	Epsilon: 0.100
Episode 3877	Total Reward:	0.00	Epsilon: 0.100
Episode 3878	Total Reward:	-15.50	Epsilon: 0.100
Episode 3879	Total Reward:	1.50	Epsilon: 0.100
Episode 3880	Total Reward:	0.00	Epsilon: 0.100
Episode 3881	Total Reward:	1.50	Epsilon: 0.100
Episode 3882	Total Reward:	-10.00	Epsilon: 0.100
Episode 3883	Total Reward:	0.00	Epsilon: 0.100
Episode 3884	Total Reward:	1.50	Epsilon: 0.100
Episode 3885	Total Reward:	-14.00	Epsilon: 0.100
Episode 3886	Total Reward:	-11.00	Epsilon: 0.100
Episode 3887	Total Reward:	-3.00	Epsilon: 0.100
Episode 3888	Total Reward:	-18.50	Epsilon: 0.100
Episode 3889	Total Reward:	-1.50	Epsilon: 0.100
Episode 3890	Total Reward:	1.50	Epsilon: 0.100
Episode 3891	Total Reward:	-1.50	Epsilon: 0.100
Episode 3892	Total Reward:	1.50	Epsilon: 0.100
Episode 3893	Total Reward:	1.50	Epsilon: 0.100
Episode 3894	Total Reward:	-10.50	Epsilon: 0.100
Episode 3895	Total Reward:	-11.00	Epsilon: 0.100
Episode 3896	Total Reward:	-11.50	Epsilon: 0.100
Episode 3897	Total Reward:	-11.00	Epsilon: 0.100
Episode 3898	Total Reward:	0.00	Epsilon: 0.100
Episode 3899	Total Reward:	-13.00	Epsilon: 0.100
Episode 3900	Total Reward:	-10.50	Epsilon: 0.100
Episode 3901	Total Reward:	1.50	Epsilon: 0.100
Episode 3902	Total Reward:	1.50	Epsilon: 0.100
Episode 3903	Total Reward:	0.00	Epsilon: 0.100
Episode 3904	Total Reward:	-1.50	Epsilon: 0.100
Episode 3905	Total Reward:	1.50	Epsilon: 0.100
Episode 3906	Total Reward:	1.50	Epsilon: 0.100
Episode 3907	Total Reward:	1.50	Epsilon: 0.100
Episode 3908	Total Reward:	-11.50	Epsilon: 0.100
Episode 3909	Total Reward:	0.00	Epsilon: 0.100
Episode 3910	Total Reward:	0.00	Epsilon: 0.100
Episode 3911	Total Reward:	1.50	Epsilon: 0.100
Episode 3912	Total Reward:	1.50	Epsilon: 0.100
Episode 3913	Total Reward:	1.50	Epsilon: 0.100
Episode 3914	Total Reward:	-10.50	Epsilon: 0.100
Episode 3915	Total Reward:	-1.50	Epsilon: 0.100

Episode 3916	Total Reward: 1.50	Epsilon: 0.100
Episode 3917	Total Reward: -10.50	Epsilon: 0.100
Episode 3918	Total Reward: 1.50	Epsilon: 0.100
Episode 3919	Total Reward: -3.00	Epsilon: 0.100
Episode 3920	Total Reward: 0.00	Epsilon: 0.100
Episode 3921	Total Reward: -9.00	Epsilon: 0.100
Episode 3922	Total Reward: 1.50	Epsilon: 0.100
Episode 3923	Total Reward: -1.50	Epsilon: 0.100
Episode 3924	Total Reward: 1.50	Epsilon: 0.100
Episode 3925	Total Reward: 1.50	Epsilon: 0.100
Episode 3926	Total Reward: -1.50	Epsilon: 0.100
Episode 3927	Total Reward: -17.00	Epsilon: 0.100
Episode 3928	Total Reward: -20.00	Epsilon: 0.100
Episode 3929	Total Reward: 1.50	Epsilon: 0.100
Episode 3930	Total Reward: -4.50	Epsilon: 0.100
Episode 3931	Total Reward: 1.50	Epsilon: 0.100
Episode 3932	Total Reward: 1.50	Epsilon: 0.100
Episode 3933	Total Reward: 1.50	Epsilon: 0.100
Episode 3934	Total Reward: 1.50	Epsilon: 0.100
Episode 3935	Total Reward: -1.50	Epsilon: 0.100
Episode 3936	Total Reward: -3.00	Epsilon: 0.100
Episode 3937	Total Reward: -11.50	Epsilon: 0.100
Episode 3938	Total Reward: -19.50	Epsilon: 0.100
Episode 3939	Total Reward: -1.50	Epsilon: 0.100
Episode 3940	Total Reward: -12.00	Epsilon: 0.100
Episode 3941	Total Reward: 1.50	Epsilon: 0.100
Episode 3942	Total Reward: 0.00	Epsilon: 0.100
Episode 3943	Total Reward: -14.50	Epsilon: 0.100
Episode 3944	Total Reward: 1.50	Epsilon: 0.100
Episode 3945	Total Reward: 1.50	Epsilon: 0.100
Episode 3946	Total Reward: 0.00	Epsilon: 0.100
Episode 3947	Total Reward: 1.50	Epsilon: 0.100
Episode 3948	Total Reward: 1.50	Epsilon: 0.100
Episode 3949	Total Reward: 1.50	Epsilon: 0.100
Episode 3950	Total Reward: 0.00	Epsilon: 0.100
Episode 3951	Total Reward: -15.00	Epsilon: 0.100
Episode 3952	Total Reward: -10.00	Epsilon: 0.100
Episode 3953	Total Reward: 1.50	Epsilon: 0.100
Episode 3954	Total Reward: -10.00	Epsilon: 0.100
Episode 3955	Total Reward: -1.50	Epsilon: 0.100
Episode 3956	Total Reward: -10.50	Epsilon: 0.100
Episode 3957	Total Reward: -11.50	Epsilon: 0.100
Episode 3958	Total Reward: 0.00	Epsilon: 0.100
Episode 3959	Total Reward: -3.00	Epsilon: 0.100
Episode 3960	Total Reward: -4.50	Epsilon: 0.100
Episode 3961	Total Reward: -11.50	Epsilon: 0.100
Episode 3962	Total Reward: 0.00	Epsilon: 0.100
Episode 3963	Total Reward: -14.00	Epsilon: 0.100
Episode 3964	Total Reward: 0.00	Epsilon: 0.100
Episode 3965	Total Reward: 1.50	Epsilon: 0.100
Episode 3966	Total Reward: -12.50	Epsilon: 0.100
Episode 3967	Total Reward: -11.00	Epsilon: 0.100
Episode 3968	Total Reward: 1.50	Epsilon: 0.100
Episode 3969	Total Reward: -10.00	Epsilon: 0.100
Episode 3970	Total Reward: -10.00	Epsilon: 0.100
Episode 3971	Total Reward: 1.50	Epsilon: 0.100
Episode 3972	Total Reward: 0.00	Epsilon: 0.100
Episode 3973	Total Reward: -10.00	Epsilon: 0.100
Episode 3974	Total Reward: -12.00	Epsilon: 0.100
Episode 3975	Total Reward: 1.50	Epsilon: 0.100
Episode 3976	Total Reward: 1.50	Epsilon: 0.100
Episode 3977	Total Reward: 1.50	Epsilon: 0.100
Episode 3978	Total Reward: -1.50	Epsilon: 0.100
Episode 3979	Total Reward: -10.00	Epsilon: 0.100
Episode 3980	Total Reward: 0.00	Epsilon: 0.100
Episode 3981	Total Reward: 1.50	Epsilon: 0.100
Episode 3982	Total Reward: 0.00	Epsilon: 0.100
Episode 3983	Total Reward: -3.00	Epsilon: 0.100
Episode 3984	Total Reward: 0.00	Epsilon: 0.100
Episode 3985	Total Reward: -6.00	Epsilon: 0.100
Episode 3986	Total Reward: 0.00	Epsilon: 0.100
Episode 3987	Total Reward: -10.50	Epsilon: 0.100
Episode 3988	Total Reward: 0.00	Epsilon: 0.100
Episode 3989	Total Reward: -12.00	Epsilon: 0.100
Episode 3990	Total Reward: 1.50	Epsilon: 0.100
Episode 3991	Total Reward: -19.50	Epsilon: 0.100
Episode 3992	Total Reward: -1.50	Epsilon: 0.100
Episode 3993	Total Reward: 1.50	Epsilon: 0.100
Episode 3994	Total Reward: -17.50	Epsilon: 0.100
Episode 3995	Total Reward: -10.00	Epsilon: 0.100
Episode 3996	Total Reward: 1.50	Epsilon: 0.100
Episode 3997	Total Reward: 1.50	Epsilon: 0.100
Episode 3998	Total Reward: 0.00	Epsilon: 0.100

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Episode 4165	Total Reward: -15.50	Epsilon: 0.100
Episode 4166	Total Reward: -12.00	Epsilon: 0.100
Episode 4167	Total Reward: 0.00	Epsilon: 0.100
Episode 4168	Total Reward: -12.50	Epsilon: 0.100
Episode 4169	Total Reward: -13.50	Epsilon: 0.100
Episode 4170	Total Reward: -1.50	Epsilon: 0.100
Episode 4171	Total Reward: -3.00	Epsilon: 0.100
Episode 4172	Total Reward: 1.50	Epsilon: 0.100
Episode 4173	Total Reward: 0.00	Epsilon: 0.100
Episode 4174	Total Reward: 1.50	Epsilon: 0.100
Episode 4175	Total Reward: 1.50	Epsilon: 0.100
Episode 4176	Total Reward: 1.50	Epsilon: 0.100
Episode 4177	Total Reward: -12.00	Epsilon: 0.100
Episode 4178	Total Reward: 1.50	Epsilon: 0.100
Episode 4179	Total Reward: -11.00	Epsilon: 0.100
Episode 4180	Total Reward: 0.00	Epsilon: 0.100
Episode 4181	Total Reward: 0.00	Epsilon: 0.100
Episode 4182	Total Reward: 1.50	Epsilon: 0.100
Episode 4183	Total Reward: -13.50	Epsilon: 0.100
Episode 4184	Total Reward: 1.50	Epsilon: 0.100
Episode 4185	Total Reward: -3.00	Epsilon: 0.100
Episode 4186	Total Reward: 0.00	Epsilon: 0.100
Episode 4187	Total Reward: 0.00	Epsilon: 0.100
Episode 4188	Total Reward: -11.00	Epsilon: 0.100
Episode 4189	Total Reward: 0.00	Epsilon: 0.100
Episode 4190	Total Reward: -1.50	Epsilon: 0.100
Episode 4191	Total Reward: -1.50	Epsilon: 0.100
Episode 4192	Total Reward: -4.50	Epsilon: 0.100
Episode 4193	Total Reward: -3.00	Epsilon: 0.100
Episode 4194	Total Reward: 0.00	Epsilon: 0.100
Episode 4195	Total Reward: -1.50	Epsilon: 0.100
Episode 4196	Total Reward: 1.50	Epsilon: 0.100
Episode 4197	Total Reward: 0.00	Epsilon: 0.100
Episode 4198	Total Reward: 1.50	Epsilon: 0.100
Episode 4199	Total Reward: -1.50	Epsilon: 0.100
Episode 4200	Total Reward: -15.00	Epsilon: 0.100
Episode 4201	Total Reward: -1.50	Epsilon: 0.100
Episode 4202	Total Reward: 0.00	Epsilon: 0.100
Episode 4203	Total Reward: -1.50	Epsilon: 0.100
Episode 4204	Total Reward: 0.00	Epsilon: 0.100
Episode 4205	Total Reward: -14.00	Epsilon: 0.100
Episode 4206	Total Reward: 0.00	Epsilon: 0.100
Episode 4207	Total Reward: 1.50	Epsilon: 0.100
Episode 4208	Total Reward: 0.00	Epsilon: 0.100
Episode 4209	Total Reward: 1.50	Epsilon: 0.100
Episode 4210	Total Reward: -13.00	Epsilon: 0.100
Episode 4211	Total Reward: -16.00	Epsilon: 0.100
Episode 4212	Total Reward: 0.00	Epsilon: 0.100
Episode 4213	Total Reward: -11.50	Epsilon: 0.100
Episode 4214	Total Reward: -10.50	Epsilon: 0.100
Episode 4215	Total Reward: 0.00	Epsilon: 0.100
Episode 4216	Total Reward: 1.50	Epsilon: 0.100
Episode 4217	Total Reward: 0.00	Epsilon: 0.100
Episode 4218	Total Reward: -1.50	Epsilon: 0.100
Episode 4219	Total Reward: -14.50	Epsilon: 0.100
Episode 4220	Total Reward: 1.50	Epsilon: 0.100
Episode 4221	Total Reward: 1.50	Epsilon: 0.100
Episode 4222	Total Reward: 1.50	Epsilon: 0.100
Episode 4223	Total Reward: 1.50	Epsilon: 0.100
Episode 4224	Total Reward: -12.00	Epsilon: 0.100
Episode 4225	Total Reward: 0.00	Epsilon: 0.100
Episode 4226	Total Reward: 1.50	Epsilon: 0.100
Episode 4227	Total Reward: -12.50	Epsilon: 0.100
Episode 4228	Total Reward: 1.50	Epsilon: 0.100
Episode 4229	Total Reward: -10.50	Epsilon: 0.100
Episode 4230	Total Reward: 1.50	Epsilon: 0.100
Episode 4231	Total Reward: 1.50	Epsilon: 0.100
Episode 4232	Total Reward: -1.50	Epsilon: 0.100
Episode 4233	Total Reward: 1.50	Epsilon: 0.100
Episode 4234	Total Reward: 1.50	Epsilon: 0.100
Episode 4235	Total Reward: 1.50	Epsilon: 0.100
Episode 4236	Total Reward: 0.00	Epsilon: 0.100
Episode 4237	Total Reward: 0.00	Epsilon: 0.100
Episode 4238	Total Reward: -3.00	Epsilon: 0.100
Episode 4239	Total Reward: 1.50	Epsilon: 0.100
Episode 4240	Total Reward: 0.00	Epsilon: 0.100
Episode 4241	Total Reward: 1.50	Epsilon: 0.100
Episode 4242	Total Reward: -1.50	Epsilon: 0.100
Episode 4243	Total Reward: 1.50	Epsilon: 0.100
Episode 4244	Total Reward: -1.50	Epsilon: 0.100
Episode 4245	Total Reward: 0.00	Epsilon: 0.100
Episode 4246	Total Reward: -1.50	Epsilon: 0.100
Episode 4247	Total Reward: 0.00	Epsilon: 0.100

Episode 4248	Total Reward: 1.50	Epsilon: 0.100
Episode 4249	Total Reward: 0.00	Epsilon: 0.100
Episode 4250	Total Reward: 0.00	Epsilon: 0.100
Episode 4251	Total Reward: 1.50	Epsilon: 0.100
Episode 4252	Total Reward: 0.00	Epsilon: 0.100
Episode 4253	Total Reward: 1.50	Epsilon: 0.100
Episode 4254	Total Reward: 1.50	Epsilon: 0.100
Episode 4255	Total Reward: -11.50	Epsilon: 0.100
Episode 4256	Total Reward: 1.50	Epsilon: 0.100
Episode 4257	Total Reward: -1.50	Epsilon: 0.100
Episode 4258	Total Reward: 0.00	Epsilon: 0.100
Episode 4259	Total Reward: 1.50	Epsilon: 0.100
Episode 4260	Total Reward: 0.00	Epsilon: 0.100
Episode 4261	Total Reward: -11.00	Epsilon: 0.100
Episode 4262	Total Reward: 1.50	Epsilon: 0.100
Episode 4263	Total Reward: 1.50	Epsilon: 0.100
Episode 4264	Total Reward: -20.00	Epsilon: 0.100
Episode 4265	Total Reward: 1.50	Epsilon: 0.100
Episode 4266	Total Reward: -11.00	Epsilon: 0.100
Episode 4267	Total Reward: 1.50	Epsilon: 0.100
Episode 4268	Total Reward: -11.50	Epsilon: 0.100
Episode 4269	Total Reward: -1.50	Epsilon: 0.100
Episode 4270	Total Reward: 1.50	Epsilon: 0.100
Episode 4271	Total Reward: 0.00	Epsilon: 0.100
Episode 4272	Total Reward: 0.00	Epsilon: 0.100
Episode 4273	Total Reward: 0.00	Epsilon: 0.100
Episode 4274	Total Reward: -14.50	Epsilon: 0.100
Episode 4275	Total Reward: -20.00	Epsilon: 0.100
Episode 4276	Total Reward: 0.00	Epsilon: 0.100
Episode 4277	Total Reward: 1.50	Epsilon: 0.100
Episode 4278	Total Reward: 0.00	Epsilon: 0.100
Episode 4279	Total Reward: -10.00	Epsilon: 0.100
Episode 4280	Total Reward: 0.00	Epsilon: 0.100
Episode 4281	Total Reward: -1.50	Epsilon: 0.100
Episode 4282	Total Reward: -10.00	Epsilon: 0.100
Episode 4283	Total Reward: 1.50	Epsilon: 0.100
Episode 4284	Total Reward: 1.50	Epsilon: 0.100
Episode 4285	Total Reward: -12.00	Epsilon: 0.100
Episode 4286	Total Reward: -15.50	Epsilon: 0.100
Episode 4287	Total Reward: 0.00	Epsilon: 0.100
Episode 4288	Total Reward: 1.50	Epsilon: 0.100
Episode 4289	Total Reward: 1.50	Epsilon: 0.100
Episode 4290	Total Reward: 1.50	Epsilon: 0.100
Episode 4291	Total Reward: 0.00	Epsilon: 0.100
Episode 4292	Total Reward: 1.50	Epsilon: 0.100
Episode 4293	Total Reward: -21.50	Epsilon: 0.100
Episode 4294	Total Reward: 0.00	Epsilon: 0.100
Episode 4295	Total Reward: -1.50	Epsilon: 0.100
Episode 4296	Total Reward: -14.50	Epsilon: 0.100
Episode 4297	Total Reward: -13.50	Epsilon: 0.100
Episode 4298	Total Reward: 0.00	Epsilon: 0.100
Episode 4299	Total Reward: -1.50	Epsilon: 0.100
Episode 4300	Total Reward: 1.50	Epsilon: 0.100
Episode 4301	Total Reward: 1.50	Epsilon: 0.100
Episode 4302	Total Reward: 0.00	Epsilon: 0.100
Episode 4303	Total Reward: 1.50	Epsilon: 0.100
Episode 4304	Total Reward: 1.50	Epsilon: 0.100
Episode 4305	Total Reward: -10.50	Epsilon: 0.100
Episode 4306	Total Reward: -10.00	Epsilon: 0.100
Episode 4307	Total Reward: -10.00	Epsilon: 0.100
Episode 4308	Total Reward: -3.00	Epsilon: 0.100
Episode 4309	Total Reward: 0.00	Epsilon: 0.100
Episode 4310	Total Reward: 0.00	Epsilon: 0.100
Episode 4311	Total Reward: 0.00	Epsilon: 0.100
Episode 4312	Total Reward: 0.00	Epsilon: 0.100
Episode 4313	Total Reward: -10.50	Epsilon: 0.100
Episode 4314	Total Reward: 0.00	Epsilon: 0.100
Episode 4315	Total Reward: 1.50	Epsilon: 0.100
Episode 4316	Total Reward: 1.50	Epsilon: 0.100
Episode 4317	Total Reward: 0.00	Epsilon: 0.100
Episode 4318	Total Reward: 1.50	Epsilon: 0.100
Episode 4319	Total Reward: 1.50	Epsilon: 0.100
Episode 4320	Total Reward: -11.50	Epsilon: 0.100
Episode 4321	Total Reward: -7.50	Epsilon: 0.100
Episode 4322	Total Reward: 1.50	Epsilon: 0.100
Episode 4323	Total Reward: -3.00	Epsilon: 0.100
Episode 4324	Total Reward: -15.00	Epsilon: 0.100
Episode 4325	Total Reward: -9.00	Epsilon: 0.100
Episode 4326	Total Reward: 1.50	Epsilon: 0.100
Episode 4327	Total Reward: 1.50	Epsilon: 0.100
Episode 4328	Total Reward: -7.50	Epsilon: 0.100
Episode 4329	Total Reward: -3.00	Epsilon: 0.100
Episode 4330	Total Reward: -10.00	Epsilon: 0.100

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[illegible]

Episode 4746	Total Reward: -14.00	Epsilon: 0.100
Episode 4747	Total Reward: 1.50	Epsilon: 0.100
Episode 4748	Total Reward: 0.00	Epsilon: 0.100
Episode 4749	Total Reward: -10.00	Epsilon: 0.100
Episode 4750	Total Reward: -4.50	Epsilon: 0.100
Episode 4751	Total Reward: 0.00	Epsilon: 0.100
Episode 4752	Total Reward: 0.00	Epsilon: 0.100
Episode 4753	Total Reward: 1.50	Epsilon: 0.100
Episode 4754	Total Reward: 0.00	Epsilon: 0.100
Episode 4755	Total Reward: -12.00	Epsilon: 0.100
Episode 4756	Total Reward: -1.50	Epsilon: 0.100
Episode 4757	Total Reward: 1.50	Epsilon: 0.100
Episode 4758	Total Reward: 0.00	Epsilon: 0.100
Episode 4759	Total Reward: -3.00	Epsilon: 0.100
Episode 4760	Total Reward: 1.50	Epsilon: 0.100
Episode 4761	Total Reward: 1.50	Epsilon: 0.100
Episode 4762	Total Reward: 1.50	Epsilon: 0.100
Episode 4763	Total Reward: -13.50	Epsilon: 0.100
Episode 4764	Total Reward: -10.00	Epsilon: 0.100
Episode 4765	Total Reward: 1.50	Epsilon: 0.100
Episode 4766	Total Reward: -18.50	Epsilon: 0.100
Episode 4767	Total Reward: 1.50	Epsilon: 0.100
Episode 4768	Total Reward: 1.50	Epsilon: 0.100
Episode 4769	Total Reward: 1.50	Epsilon: 0.100
Episode 4770	Total Reward: 1.50	Epsilon: 0.100
Episode 4771	Total Reward: 1.50	Epsilon: 0.100
Episode 4772	Total Reward: 0.00	Epsilon: 0.100
Episode 4773	Total Reward: -10.50	Epsilon: 0.100
Episode 4774	Total Reward: 1.50	Epsilon: 0.100
Episode 4775	Total Reward: 0.00	Epsilon: 0.100
Episode 4776	Total Reward: -3.00	Epsilon: 0.100
Episode 4777	Total Reward: 1.50	Epsilon: 0.100
Episode 4778	Total Reward: 1.50	Epsilon: 0.100
Episode 4779	Total Reward: -11.50	Epsilon: 0.100
Episode 4780	Total Reward: -13.50	Epsilon: 0.100
Episode 4781	Total Reward: 1.50	Epsilon: 0.100
Episode 4782	Total Reward: 1.50	Epsilon: 0.100
Episode 4783	Total Reward: -17.00	Epsilon: 0.100
Episode 4784	Total Reward: -17.00	Epsilon: 0.100
Episode 4785	Total Reward: 0.00	Epsilon: 0.100
Episode 4786	Total Reward: 1.50	Epsilon: 0.100
Episode 4787	Total Reward: -1.50	Epsilon: 0.100
Episode 4788	Total Reward: 1.50	Epsilon: 0.100
Episode 4789	Total Reward: 1.50	Epsilon: 0.100
Episode 4790	Total Reward: -10.00	Epsilon: 0.100
Episode 4791	Total Reward: 0.00	Epsilon: 0.100
Episode 4792	Total Reward: 0.00	Epsilon: 0.100
Episode 4793	Total Reward: 1.50	Epsilon: 0.100
Episode 4794	Total Reward: 0.00	Epsilon: 0.100
Episode 4795	Total Reward: 1.50	Epsilon: 0.100
Episode 4796	Total Reward: 0.00	Epsilon: 0.100
Episode 4797	Total Reward: -10.50	Epsilon: 0.100
Episode 4798	Total Reward: -13.00	Epsilon: 0.100
Episode 4799	Total Reward: 0.00	Epsilon: 0.100
Episode 4800	Total Reward: -3.00	Epsilon: 0.100
Episode 4801	Total Reward: -14.50	Epsilon: 0.100
Episode 4802	Total Reward: -11.00	Epsilon: 0.100
Episode 4803	Total Reward: 0.00	Epsilon: 0.100
Episode 4804	Total Reward: 1.50	Epsilon: 0.100
Episode 4805	Total Reward: 0.00	Epsilon: 0.100
Episode 4806	Total Reward: -12.50	Epsilon: 0.100
Episode 4807	Total Reward: 1.50	Epsilon: 0.100
Episode 4808	Total Reward: 1.50	Epsilon: 0.100
Episode 4809	Total Reward: 0.00	Epsilon: 0.100
Episode 4810	Total Reward: 1.50	Epsilon: 0.100
Episode 4811	Total Reward: -16.00	Epsilon: 0.100
Episode 4812	Total Reward: 0.00	Epsilon: 0.100
Episode 4813	Total Reward: 0.00	Epsilon: 0.100
Episode 4814	Total Reward: -3.00	Epsilon: 0.100
Episode 4815	Total Reward: -10.00	Epsilon: 0.100
Episode 4816	Total Reward: 1.50	Epsilon: 0.100
Episode 4817	Total Reward: 0.00	Epsilon: 0.100
Episode 4818	Total Reward: -13.50	Epsilon: 0.100
Episode 4819	Total Reward: 1.50	Epsilon: 0.100
Episode 4820	Total Reward: -1.50	Epsilon: 0.100
Episode 4821	Total Reward: -1.50	Epsilon: 0.100
Episode 4822	Total Reward: -10.50	Epsilon: 0.100
Episode 4823	Total Reward: 1.50	Epsilon: 0.100
Episode 4824	Total Reward: -10.00	Epsilon: 0.100
Episode 4825	Total Reward: -1.50	Epsilon: 0.100
Episode 4826	Total Reward: -4.50	Epsilon: 0.100
Episode 4827	Total Reward: -7.50	Epsilon: 0.100
Episode 4828	Total Reward: -3.00	Epsilon: 0.100

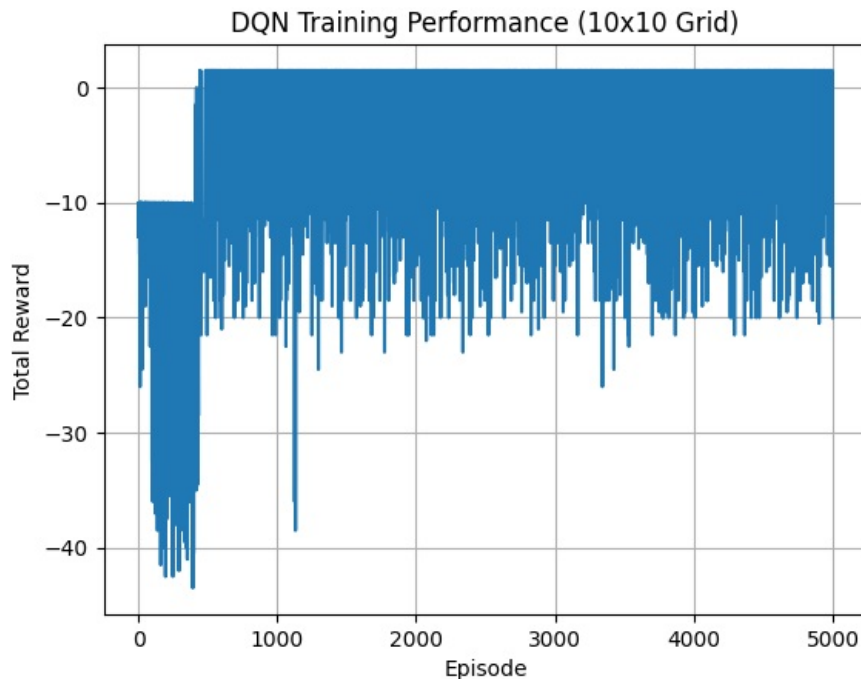
[illegible]

[illegible]

Episode 4995 | Total Reward: -4.50 | Epsilon: 0.100
 Episode 4996 | Total Reward: 1.50 | Epsilon: 0.100
 Episode 4997 | Total Reward: -1.50 | Epsilon: 0.100
 Episode 4998 | Total Reward: 0.00 | Epsilon: 0.100
 Episode 4999 | Total Reward: -11.00 | Epsilon: 0.100
 Episode 5000 | Total Reward: -20.00 | Epsilon: 0.100

Step 3 : Plot the Rewards for Episodes

```
In [16]: plt.plot(rewards)
plt.xlabel("Episode")
plt.ylabel("Total Reward")
plt.title("DQN Training Performance (10x10 Grid)")
plt.grid(True)
plt.show()
```



Note: We have Trained model again

Interpretations

1. First Phase of Learning (Episodes 0–500)
 - Low and extremely unfavourable rewards are continuously given to the agent.
 - Given that the agent is haphazardly exploring the surroundings and is ignorant of the best course of action, this is to be expected.
2. Phase of Improvement (Episodes 500–1200)
 - The agent is starting to learn efficient behaviours and avoid barriers when the total reward starts to rise with fewer sharp negative spikes.
3. Phase of Stability (Episodes ~1200 onward)
 - The agent routinely receives rewards that are nearly zero, indicating that it is either:
 - Achieving the objective with little penalty.
 - Reducing -1 step penalties by walking fewer steps.
 - The less frequent significant negative dips point to sporadic investigation or failures brought on by the complexity of the environment.
4. Variability in Exploration (Continuous till 5000)
 - Even late in training, the rare drops below -20 indicate that:
 - the agent is still exploring because of the ϵ -greedy policy (exploration rate epsilon).
 - Occasionally, bad pathways may result from random initialization or environment fluctuation.
 - Even trained agents may occasionally exhibit inferior performance in environments with scarce rewards, such as RWARE.

Step 4 : Visualizing Trained Agent

```
In [17]: def print_grid(state, goal, obstacles, grid_size=(10, 10)):
grid = ""
for i in range(grid_size[0]):
    for j in range(grid_size[1]):
        if (i, j) == state:
```

```
def run_trained_agent(env, model, device, delay=0.3):
    state = env.reset()
    done = False
    path = [state]
    print(" Visualizing trained agent on 10x10 grid...\n")
    step = 1
    while not done:
        print(f"Step {step}:")
        print(print_grid(state, env.goal, env.obstacles))
        time.sleep(delay)
        with torch.no_grad():
            state_tensor = torch.FloatTensor(state).unsqueeze(0)
            action = model(state_tensor).argmax().item()
        next_state, reward, done = env.step(env.actions[action])
        state = next_state
        path.append(state)
        step += 1

    print(f"Step {step}:")
    print(print_grid(state, env.goal, env.obstacles))
    print("💖 Agent reached the goal or terminated.\n")
    print(" Full path visited:")
    for i, p in enumerate(path):
        print(f"Step {i + 1}: {p}")
```

```
run_trained_agent(env, model, device)
```

Visualizing trained agent on 10x10 grid...

Step 1:

Step 2:

Step 3:

Step 4:

[illegible]

Step 5:

Step 6:

Step 7:

Step 8:

A 10x10 grid of small squares. Most squares are light gray. A few squares are highlighted in a darker shade of gray, forming a sparse pattern. The highlighted squares are located at the following coordinates (row, column) starting from the top-left corner (0,0): (0,8), (1,9), (2,1), (3,4), (4,2), (5,5), (6,7), (7,9), (8,3), and (9,6).

Step 9:

Step 10:

A 10x10 grid of small squares. Some squares are highlighted in a darker shade, forming a sparse pattern. The highlighted squares are located at the following (row, column) coordinates (starting from the top-left corner): (1, 1), (1, 3), (1, 5), (1, 7), (1, 9), (2, 1), (2, 3), (2, 5), (2, 7), (2, 9), (3, 1), (3, 3), (3, 5), (3, 7), (3, 9), (4, 1), (4, 3), (4, 5), (4, 7), (4, 9), (5, 1), (5, 3), (5, 5), (5, 7), (5, 9), (6, 1), (6, 3), (6, 5), (6, 7), (6, 9), (7, 1), (7, 3), (7, 5), (7, 7), (7, 9), (8, 1), (8, 3), (8, 5), (8, 7), (8, 9), (9, 1), (9, 3), (9, 5), (9, 7), (9, 9), (10, 1), (10, 3), (10, 5), (10, 7), (10, 9).

Step 11:

Step 12:

Step 13:

A 10x10 grid of small squares. The grid contains 100 squares in total. Some squares are shaded gray, while others are white. The shaded squares are located at the following (row, column) positions (assuming the top-left square is (0,0) and the bottom-right is (9,9)):

- (0,1), (0,2), (0,3), (0,4), (0,5), (0,6), (0,7), (0,8), (0,9)
- (1,0), (1,1), (1,2), (1,3), (1,4), (1,5), (1,6), (1,7), (1,8), (1,9)
- (2,0), (2,1), (2,2), (2,3), (2,4), (2,5), (2,6), (2,7), (2,8), (2,9)
- (3,0), (3,1), (3,2), (3,3), (3,4), (3,5), (3,6), (3,7), (3,8), (3,9)
- (4,0), (4,1), (4,2), (4,3), (4,4), (4,5), (4,6), (4,7), (4,8), (4,9)
- (5,0), (5,1), (5,2), (5,3), (5,4), (5,5), (5,6), (5,7), (5,8), (5,9)
- (6,0), (6,1), (6,2), (6,3), (6,4), (6,5), (6,6), (6,7), (6,8), (6,9)
- (7,0), (7,1), (7,2), (7,3), (7,4), (7,5), (7,6), (7,7), (7,8), (7,9)
- (8,0), (8,1), (8,2), (8,3), (8,4), (8,5), (8,6), (8,7), (8,8), (8,9)
- (9,0), (9,1), (9,2), (9,3), (9,4), (9,5), (9,6), (9,7), (9,8), (9,9)

Step 14:

Step 15:

Step 16:

Step 17:

Step 18:

```

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```

Step 19:

```

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```

✓ Agent reached the goal or terminated.

Full path visited:

```

Step 1: (0, 0)
Step 2: (0, 1)
Step 3: (0, 2)
Step 4: (0, 3)
Step 5: (0, 4)
Step 6: (0, 5)
Step 7: (0, 6)
Step 8: (0, 7)
Step 9: (0, 8)
Step 10: (0, 9)
Step 11: (1, 9)
Step 12: (2, 9)
Step 13: (3, 9)
Step 14: (4, 9)
Step 15: (5, 9)
Step 16: (6, 9)
Step 17: (7, 9)
Step 18: (8, 9)
Step 19: (9, 9)

```

Phase 4 : Deep Q-Network for Multi-Agent

Step 1 : Multi-Agent RWARE- Style Environment

```

In [19]: import torch
import torch.nn as nn
import torch.optim as optim
import random
import numpy as np
from collections import deque
import matplotlib.pyplot as plt
from IPython.display import clear_output
import time

# -----
# Multi-Agent RWARE-style Environment
# -----
class MultiAgentWarehouse:
    def __init__(self, grid_size=(10, 10), goal=(9, 9), obstacles=None, n_agents=2):
        self.grid_size = grid_size
        self.goal = goal
        self.start_positions = [(0, 0 + i) for i in range(n_agents)]
        self.positions = list(self.start_positions)
        self.n_agents = n_agents
        self.actions = ['up', 'down', 'left', 'right']
        self.obstacles = obstacles if obstacles else []

    def reset(self):
        self.positions = list(self.start_positions)
        return list(self.positions)

    def manhattan(self, p1, p2):
        return abs(p1[0] - p2[0]) + abs(p1[1] - p2[1])

    def step(self, actions):
        rewards, dones, next_states = [], [], []
        for idx, (pos, action) in enumerate(zip(self.positions, actions)):
            x, y = pos
            old_distance = self.manhattan(pos, self.goal)

            if action == 'up': x -= 1

```

```

        elif action == 'down': x += 1
        elif action == 'left': y -= 1
        elif action == 'right': y += 1

        new_pos = (x, y)
        if not (0 <= x < self.grid_size[0] and 0 <= y < self.grid_size[1]) or new_pos in self.obstacles:
            rewards.append(-10)
            dones.append(True)
            next_states.append(pos)
            continue

        if new_pos == self.goal:
            rewards.append(10)
            dones.append(True)
            next_states.append(new_pos)
            continue

        new_distance = self.manhattan(new_pos, self.goal)
        reward = -1
        if new_distance < old_distance:
            reward += 0.5

        rewards.append(reward)
        dones.append(False)
        next_states.append(new_pos)

    self.positions = next_states
    return next_states, rewards, dones

```

Step 2 : DQN Model for Multiple agents

```

In [20]: # -----
# DQN Model Definition
# -----
class DQN(nn.Module):
    def __init__(self, input_dim=2, output_dim=4):
        super(DQN, self).__init__()
        self.net = nn.Sequential(
            nn.Linear(input_dim, 64), nn.ReLU(),
            nn.Linear(64, 32), nn.ReLU(),
            nn.Linear(32, output_dim)
        )
    def forward(self, x):
        return self.net(x)

```

Step 3 : Replay Buffer For Multiple agents

```

In [21]: # -----
# Replay Buffer
# -----
class ReplayBuffer:
    def __init__(self, capacity=2000):
        self.buffer = deque(maxlen=capacity)
    def push(self, s, a, r, ns, d):
        self.buffer.append((s, a, r, ns, d))
    def sample(self, batch_size):
        batch = random.sample(self.buffer, batch_size)
        s, a, r, ns, d = zip(*batch)
        return np.array(s), a, r, np.array(ns), d
    def __len__(self):
        return len(self.buffer)

```

Step 4 : Multi-Agent DQN Training

```

In [22]: # -----
# Multi-Agent DQN Training
# -----
def train_multi_agent_dqn(n_agents=2, episodes=5000, grid_size=(10, 10), goal=(9, 9), obstacles=None):
    env = MultiAgentWarehouse(grid_size=grid_size, goal=goal, obstacles=obstacles, n_agents=n_agents)
    device = torch.device("cpu")

    models = [DQN().to(device) for _ in range(n_agents)]
    target_models = [DQN().to(device) for _ in range(n_agents)]
    for t, m in zip(target_models, models):
        t.load_state_dict(m.state_dict())

    optimizers = [optim.Adam(model.parameters(), lr=0.001) for model in models]
    loss_fn = nn.MSELoss()
    buffers = [ReplayBuffer() for _ in range(n_agents)]

    batch_size = 32

```

```

gamma = 0.95
epsilon = 1.0
epsilon_decay = 0.995
min_epsilon = 0.1
target_update = 10
max_steps = 50

rewards_per_agent = [[] for _ in range(n_agents)]

for ep in range(epochs):
    states = env.reset()
    done_flags = [False] * n_agents
    total_rewards = [0] * n_agents
    steps = 0

    while not all(done_flags) and steps < max_steps:
        actions = []
        for i in range(n_agents):
            if done_flags[i]:
                actions.append(0)
            else:
                state_tensor = torch.FloatTensor(states[i]).unsqueeze(0).to(device)
                if random.random() < epsilon:
                    actions.append(random.randint(0, 3))
                else:
                    actions.append(models[i](state_tensor).argmax().item())

        next_states, rewards, dones = env.step([env.actions[a] for a in actions])

        for i in range(n_agents):
            if not done_flags[i]:
                buffers[i].push(states[i], actions[i], rewards[i], next_states[i], dones[i])
                total_rewards[i] += rewards[i]
                done_flags[i] = dones[i]

        states = next_states
        steps += 1

        for i in range(n_agents):
            if len(buffers[i]) >= batch_size:
                s, a, r, ns, d = buffers[i].sample(batch_size)
                s = torch.FloatTensor(s).to(device)
                ns = torch.FloatTensor(ns).to(device)
                a = torch.LongTensor(a).unsqueeze(1).to(device)
                r = torch.FloatTensor(r).unsqueeze(1).to(device)
                d = torch.FloatTensor(d).unsqueeze(1).to(device)

                q_vals = models[i](s).gather(1, a)
                max_next_q = target_models[i](ns).max(1)[0].unsqueeze(1).detach()
                target = r + gamma * max_next_q * (1 - d)

                loss = loss_fn(q_vals, target)
                optimizers[i].zero_grad()
                loss.backward()
                optimizers[i].step()

        for i in range(n_agents):
            rewards_per_agent[i].append(total_rewards[i])

        epsilon = max(min_epsilon, epsilon * epsilon_decay)

        if ep % target_update == 0:
            for t, m in zip(target_models, models):
                t.load_state_dict(m.state_dict())

    print(f"Episode {ep+1}")
    for i in range(n_agents):
        print(f"Agent {i} | Total Reward: {total_rewards[i]:.2f} | Epsilon: {epsilon:.3f}")

    return models, rewards_per_agent

```

In [23]: `models, rewards = train_multi_agent_dqn(n_agents=2, episodes=5000)`

```

Episode 1
Agent 0 | Total Reward: -10.00 | Epsilon: 0.995
Agent 1 | Total Reward: -16.50 | Epsilon: 0.995
Episode 2
Agent 0 | Total Reward: -14.50 | Epsilon: 0.990
Agent 1 | Total Reward: -10.00 | Epsilon: 0.990
Episode 3
Agent 0 | Total Reward: -10.50 | Epsilon: 0.985
Agent 1 | Total Reward: -12.00 | Epsilon: 0.985
Episode 4

```

Agent 0		Total Reward: -10.00		Epsilon: 0.980
Agent 1		Total Reward: -10.00		Epsilon: 0.980
Episode 5				
Agent 0		Total Reward: -10.00		Epsilon: 0.975
Agent 1		Total Reward: -30.50		Epsilon: 0.975
Episode 6				
Agent 0		Total Reward: -10.50		Epsilon: 0.970
Agent 1		Total Reward: -13.00		Epsilon: 0.970
Episode 7				
Agent 0		Total Reward: -10.50		Epsilon: 0.966
Agent 1		Total Reward: -13.00		Epsilon: 0.966
Episode 8				
Agent 0		Total Reward: -10.00		Epsilon: 0.961
Agent 1		Total Reward: -12.50		Epsilon: 0.961
Episode 9				
Agent 0		Total Reward: -10.00		Epsilon: 0.956
Agent 1		Total Reward: -13.50		Epsilon: 0.956
Episode 10				
Agent 0		Total Reward: -20.00		Epsilon: 0.951
Agent 1		Total Reward: -10.50		Epsilon: 0.951
Episode 11				
Agent 0		Total Reward: -10.00		Epsilon: 0.946
Agent 1		Total Reward: -24.50		Epsilon: 0.946
Episode 12				
Agent 0		Total Reward: -10.00		Epsilon: 0.942
Agent 1		Total Reward: -12.00		Epsilon: 0.942
Episode 13				
Agent 0		Total Reward: -13.00		Epsilon: 0.937
Agent 1		Total Reward: -20.50		Epsilon: 0.937
Episode 14				
Agent 0		Total Reward: -12.00		Epsilon: 0.932
Agent 1		Total Reward: -19.00		Epsilon: 0.932
Episode 15				
Agent 0		Total Reward: -10.50		Epsilon: 0.928
Agent 1		Total Reward: -11.00		Epsilon: 0.928
Episode 16				
Agent 0		Total Reward: -13.00		Epsilon: 0.923
Agent 1		Total Reward: -12.00		Epsilon: 0.923
Episode 17				
Agent 0		Total Reward: -10.50		Epsilon: 0.918
Agent 1		Total Reward: -11.50		Epsilon: 0.918
Episode 18				
Agent 0		Total Reward: -15.00		Epsilon: 0.914
Agent 1		Total Reward: -10.00		Epsilon: 0.914
Episode 19				
Agent 0		Total Reward: -10.00		Epsilon: 0.909
Agent 1		Total Reward: -10.00		Epsilon: 0.909
Episode 20				
Agent 0		Total Reward: -10.00		Epsilon: 0.905
Agent 1		Total Reward: -11.00		Epsilon: 0.905
Episode 21				
Agent 0		Total Reward: -31.00		Epsilon: 0.900
Agent 1		Total Reward: -10.00		Epsilon: 0.900
Episode 22				
Agent 0		Total Reward: -10.00		Epsilon: 0.896
Agent 1		Total Reward: -21.50		Epsilon: 0.896
Episode 23				
Agent 0		Total Reward: -10.00		Epsilon: 0.891
Agent 1		Total Reward: -35.00		Epsilon: 0.891
Episode 24				
Agent 0		Total Reward: -10.00		Epsilon: 0.887
Agent 1		Total Reward: -29.00		Epsilon: 0.887
Episode 25				
Agent 0		Total Reward: -10.50		Epsilon: 0.882
Agent 1		Total Reward: -11.00		Epsilon: 0.882
Episode 26				
Agent 0		Total Reward: -14.50		Epsilon: 0.878
Agent 1		Total Reward: -10.50		Epsilon: 0.878
Episode 27				
Agent 0		Total Reward: -10.50		Epsilon: 0.873
Agent 1		Total Reward: -15.00		Epsilon: 0.873
Episode 28				
Agent 0		Total Reward: -10.00		Epsilon: 0.869
Agent 1		Total Reward: -13.00		Epsilon: 0.869
Episode 29				
Agent 0		Total Reward: -10.00		Epsilon: 0.865
Agent 1		Total Reward: -11.00		Epsilon: 0.865
Episode 30				
Agent 0		Total Reward: -11.50		Epsilon: 0.860
Agent 1		Total Reward: -12.00		Epsilon: 0.860
Episode 31				
Agent 0		Total Reward: -15.00		Epsilon: 0.856
Agent 1		Total Reward: -11.00		Epsilon: 0.856

Episode 32
Agent 0 | Total Reward: -10.50 | Epsilon: 0.852
Agent 1 | Total Reward: -27.00 | Epsilon: 0.852
Episode 33
Agent 0 | Total Reward: -10.00 | Epsilon: 0.848
Agent 1 | Total Reward: -13.00 | Epsilon: 0.848
Episode 34
Agent 0 | Total Reward: -10.00 | Epsilon: 0.843
Agent 1 | Total Reward: -35.50 | Epsilon: 0.843
Episode 35
Agent 0 | Total Reward: -10.00 | Epsilon: 0.839
Agent 1 | Total Reward: -12.50 | Epsilon: 0.839
Episode 36
Agent 0 | Total Reward: -10.50 | Epsilon: 0.835
Agent 1 | Total Reward: -11.00 | Epsilon: 0.835
Episode 37
Agent 0 | Total Reward: -23.00 | Epsilon: 0.831
Agent 1 | Total Reward: -25.50 | Epsilon: 0.831
Episode 38
Agent 0 | Total Reward: -14.00 | Epsilon: 0.827
Agent 1 | Total Reward: -11.00 | Epsilon: 0.827
Episode 39
Agent 0 | Total Reward: -10.00 | Epsilon: 0.822
Agent 1 | Total Reward: -35.50 | Epsilon: 0.822
Episode 40
Agent 0 | Total Reward: -10.00 | Epsilon: 0.818
Agent 1 | Total Reward: -30.00 | Epsilon: 0.818
Episode 41
Agent 0 | Total Reward: -10.00 | Epsilon: 0.814
Agent 1 | Total Reward: -26.00 | Epsilon: 0.814
Episode 42
Agent 0 | Total Reward: -11.50 | Epsilon: 0.810
Agent 1 | Total Reward: -22.50 | Epsilon: 0.810
Episode 43
Agent 0 | Total Reward: -18.00 | Epsilon: 0.806
Agent 1 | Total Reward: -11.50 | Epsilon: 0.806
Episode 44
Agent 0 | Total Reward: -10.50 | Epsilon: 0.802
Agent 1 | Total Reward: -10.50 | Epsilon: 0.802
Episode 45
Agent 0 | Total Reward: -11.50 | Epsilon: 0.798
Agent 1 | Total Reward: -23.50 | Epsilon: 0.798
Episode 46
Agent 0 | Total Reward: -10.00 | Epsilon: 0.794
Agent 1 | Total Reward: -11.00 | Epsilon: 0.794
Episode 47
Agent 0 | Total Reward: -11.50 | Epsilon: 0.790
Agent 1 | Total Reward: -11.00 | Epsilon: 0.790
Episode 48
Agent 0 | Total Reward: -11.00 | Epsilon: 0.786
Agent 1 | Total Reward: -10.50 | Epsilon: 0.786
Episode 49
Agent 0 | Total Reward: -10.00 | Epsilon: 0.782
Agent 1 | Total Reward: -37.50 | Epsilon: 0.782
Episode 50
Agent 0 | Total Reward: -38.50 | Epsilon: 0.778
Agent 1 | Total Reward: -11.50 | Epsilon: 0.778
Episode 51
Agent 0 | Total Reward: -36.00 | Epsilon: 0.774
Agent 1 | Total Reward: -10.50 | Epsilon: 0.774
Episode 52
Agent 0 | Total Reward: -21.00 | Epsilon: 0.771
Agent 1 | Total Reward: -34.50 | Epsilon: 0.771
Episode 53
Agent 0 | Total Reward: -16.50 | Epsilon: 0.767
Agent 1 | Total Reward: -10.00 | Epsilon: 0.767
Episode 54
Agent 0 | Total Reward: -10.00 | Epsilon: 0.763
Agent 1 | Total Reward: -10.00 | Epsilon: 0.763
Episode 55
Agent 0 | Total Reward: -11.50 | Epsilon: 0.759
Agent 1 | Total Reward: -30.50 | Epsilon: 0.759
Episode 56
Agent 0 | Total Reward: -10.00 | Epsilon: 0.755
Agent 1 | Total Reward: -10.00 | Epsilon: 0.755
Episode 57
Agent 0 | Total Reward: -10.50 | Epsilon: 0.751
Agent 1 | Total Reward: -23.00 | Epsilon: 0.751
Episode 58
Agent 0 | Total Reward: -10.00 | Epsilon: 0.748
Agent 1 | Total Reward: -10.00 | Epsilon: 0.748
Episode 59
Agent 0 | Total Reward: -29.00 | Epsilon: 0.744

Agent 1		Total Reward: -29.50		Epsilon: 0.744
Episode 60				
Agent 0		Total Reward: -13.00		Epsilon: 0.740
Agent 1		Total Reward: -10.50		Epsilon: 0.740
Episode 61				
Agent 0		Total Reward: -10.00		Epsilon: 0.737
Agent 1		Total Reward: -29.00		Epsilon: 0.737
Episode 62				
Agent 0		Total Reward: -38.00		Epsilon: 0.733
Agent 1		Total Reward: -35.50		Epsilon: 0.733
Episode 63				
Agent 0		Total Reward: -10.50		Epsilon: 0.729
Agent 1		Total Reward: -37.00		Epsilon: 0.729
Episode 64				
Agent 0		Total Reward: -35.50		Epsilon: 0.726
Agent 1		Total Reward: -20.00		Epsilon: 0.726
Episode 65				
Agent 0		Total Reward: -17.50		Epsilon: 0.722
Agent 1		Total Reward: -12.50		Epsilon: 0.722
Episode 66				
Agent 0		Total Reward: -10.00		Epsilon: 0.718
Agent 1		Total Reward: -36.00		Epsilon: 0.718
Episode 67				
Agent 0		Total Reward: -10.00		Epsilon: 0.715
Agent 1		Total Reward: -28.00		Epsilon: 0.715
Episode 68				
Agent 0		Total Reward: -11.50		Epsilon: 0.711
Agent 1		Total Reward: -19.00		Epsilon: 0.711
Episode 69				
Agent 0		Total Reward: -40.00		Epsilon: 0.708
Agent 1		Total Reward: -35.00		Epsilon: 0.708
Episode 70				
Agent 0		Total Reward: -12.00		Epsilon: 0.704
Agent 1		Total Reward: -14.50		Epsilon: 0.704
Episode 71				
Agent 0		Total Reward: -10.50		Epsilon: 0.701
Agent 1		Total Reward: -11.00		Epsilon: 0.701
Episode 72				
Agent 0		Total Reward: -10.50		Epsilon: 0.697
Agent 1		Total Reward: -16.00		Epsilon: 0.697
Episode 73				
Agent 0		Total Reward: -10.50		Epsilon: 0.694
Agent 1		Total Reward: -36.00		Epsilon: 0.694
Episode 74				
Agent 0		Total Reward: -10.50		Epsilon: 0.690
Agent 1		Total Reward: -34.50		Epsilon: 0.690
Episode 75				
Agent 0		Total Reward: -35.50		Epsilon: 0.687
Agent 1		Total Reward: -35.00		Epsilon: 0.687
Episode 76				
Agent 0		Total Reward: -30.50		Epsilon: 0.683
Agent 1		Total Reward: -35.50		Epsilon: 0.683
Episode 77				
Agent 0		Total Reward: -41.50		Epsilon: 0.680
Agent 1		Total Reward: -35.00		Epsilon: 0.680
Episode 78				
Agent 0		Total Reward: -35.00		Epsilon: 0.676
Agent 1		Total Reward: -35.00		Epsilon: 0.676
Episode 79				
Agent 0		Total Reward: -35.00		Epsilon: 0.673
Agent 1		Total Reward: -34.00		Epsilon: 0.673
Episode 80				
Agent 0		Total Reward: -10.00		Epsilon: 0.670
Agent 1		Total Reward: -13.50		Epsilon: 0.670
Episode 81				
Agent 0		Total Reward: -10.50		Epsilon: 0.666
Agent 1		Total Reward: -11.50		Epsilon: 0.666
Episode 82				
Agent 0		Total Reward: -10.50		Epsilon: 0.663
Agent 1		Total Reward: -11.00		Epsilon: 0.663
Episode 83				
Agent 0		Total Reward: -34.50		Epsilon: 0.660
Agent 1		Total Reward: -31.50		Epsilon: 0.660
Episode 84				
Agent 0		Total Reward: -10.00		Epsilon: 0.656
Agent 1		Total Reward: -11.50		Epsilon: 0.656
Episode 85				
Agent 0		Total Reward: -10.00		Epsilon: 0.653
Agent 1		Total Reward: -10.00		Epsilon: 0.653
Episode 86				
Agent 0		Total Reward: -10.50		Epsilon: 0.650
Agent 1		Total Reward: -10.00		Epsilon: 0.650
Episode 87				

Agent 0		Total Reward: -34.50		Epsilon: 0.647
Agent 1		Total Reward: -12.00		Epsilon: 0.647
Episode 88				
Agent 0		Total Reward: -10.00		Epsilon: 0.643
Agent 1		Total Reward: -10.00		Epsilon: 0.643
Episode 89				
Agent 0		Total Reward: -10.50		Epsilon: 0.640
Agent 1		Total Reward: -11.00		Epsilon: 0.640
Episode 90				
Agent 0		Total Reward: -10.00		Epsilon: 0.637
Agent 1		Total Reward: -20.50		Epsilon: 0.637
Episode 91				
Agent 0		Total Reward: -10.00		Epsilon: 0.634
Agent 1		Total Reward: -33.00		Epsilon: 0.634
Episode 92				
Agent 0		Total Reward: -11.00		Epsilon: 0.631
Agent 1		Total Reward: -11.00		Epsilon: 0.631
Episode 93				
Agent 0		Total Reward: -10.00		Epsilon: 0.627
Agent 1		Total Reward: -34.00		Epsilon: 0.627
Episode 94				
Agent 0		Total Reward: -10.00		Epsilon: 0.624
Agent 1		Total Reward: -10.00		Epsilon: 0.624
Episode 95				
Agent 0		Total Reward: -10.00		Epsilon: 0.621
Agent 1		Total Reward: -10.50		Epsilon: 0.621
Episode 96				
Agent 0		Total Reward: -10.00		Epsilon: 0.618
Agent 1		Total Reward: -12.00		Epsilon: 0.618
Episode 97				
Agent 0		Total Reward: -35.50		Epsilon: 0.615
Agent 1		Total Reward: -10.50		Epsilon: 0.615
Episode 98				
Agent 0		Total Reward: -34.50		Epsilon: 0.612
Agent 1		Total Reward: -11.00		Epsilon: 0.612
Episode 99				
Agent 0		Total Reward: -35.50		Epsilon: 0.609
Agent 1		Total Reward: -40.50		Epsilon: 0.609
Episode 100				
Agent 0		Total Reward: -34.50		Epsilon: 0.606
Agent 1		Total Reward: -10.00		Epsilon: 0.606
Episode 101				
Agent 0		Total Reward: -10.00		Epsilon: 0.603
Agent 1		Total Reward: -29.00		Epsilon: 0.603
Episode 102				
Agent 0		Total Reward: -34.50		Epsilon: 0.600
Agent 1		Total Reward: -29.50		Epsilon: 0.600
Episode 103				
Agent 0		Total Reward: -11.50		Epsilon: 0.597
Agent 1		Total Reward: -31.00		Epsilon: 0.597
Episode 104				
Agent 0		Total Reward: -35.00		Epsilon: 0.594
Agent 1		Total Reward: -21.00		Epsilon: 0.594
Episode 105				
Agent 0		Total Reward: -10.00		Epsilon: 0.591
Agent 1		Total Reward: -11.00		Epsilon: 0.591
Episode 106				
Agent 0		Total Reward: -10.00		Epsilon: 0.588
Agent 1		Total Reward: -34.50		Epsilon: 0.588
Episode 107				
Agent 0		Total Reward: -36.00		Epsilon: 0.585
Agent 1		Total Reward: -10.00		Epsilon: 0.585
Episode 108				
Agent 0		Total Reward: -27.50		Epsilon: 0.582
Agent 1		Total Reward: -15.50		Epsilon: 0.582
Episode 109				
Agent 0		Total Reward: -11.50		Epsilon: 0.579
Agent 1		Total Reward: -10.00		Epsilon: 0.579
Episode 110				
Agent 0		Total Reward: -10.00		Epsilon: 0.576
Agent 1		Total Reward: -19.00		Epsilon: 0.576
Episode 111				
Agent 0		Total Reward: -11.50		Epsilon: 0.573
Agent 1		Total Reward: -20.50		Epsilon: 0.573
Episode 112				
Agent 0		Total Reward: -10.00		Epsilon: 0.570
Agent 1		Total Reward: -35.00		Epsilon: 0.570
Episode 113				
Agent 0		Total Reward: -10.00		Epsilon: 0.568
Agent 1		Total Reward: -11.50		Epsilon: 0.568
Episode 114				
Agent 0		Total Reward: -34.50		Epsilon: 0.565
Agent 1		Total Reward: -11.50		Epsilon: 0.565

Episode 115
Agent 0 | Total Reward: -10.00 | Epsilon: 0.562
Agent 1 | Total Reward: -13.00 | Epsilon: 0.562
Episode 116
Agent 0 | Total Reward: -10.00 | Epsilon: 0.559
Agent 1 | Total Reward: -22.00 | Epsilon: 0.559
Episode 117
Agent 0 | Total Reward: -38.50 | Epsilon: 0.556
Agent 1 | Total Reward: -15.00 | Epsilon: 0.556
Episode 118
Agent 0 | Total Reward: -10.00 | Epsilon: 0.554
Agent 1 | Total Reward: -10.50 | Epsilon: 0.554
Episode 119
Agent 0 | Total Reward: -34.00 | Epsilon: 0.551
Agent 1 | Total Reward: -37.50 | Epsilon: 0.551
Episode 120
Agent 0 | Total Reward: -10.00 | Epsilon: 0.548
Agent 1 | Total Reward: -41.00 | Epsilon: 0.548
Episode 121
Agent 0 | Total Reward: -21.00 | Epsilon: 0.545
Agent 1 | Total Reward: -33.50 | Epsilon: 0.545
Episode 122
Agent 0 | Total Reward: -37.50 | Epsilon: 0.543
Agent 1 | Total Reward: -10.50 | Epsilon: 0.543
Episode 123
Agent 0 | Total Reward: -10.00 | Epsilon: 0.540
Agent 1 | Total Reward: -8.50 | Epsilon: 0.540
Episode 124
Agent 0 | Total Reward: -11.50 | Epsilon: 0.537
Agent 1 | Total Reward: -24.00 | Epsilon: 0.537
Episode 125
Agent 0 | Total Reward: -35.50 | Epsilon: 0.534
Agent 1 | Total Reward: -22.50 | Epsilon: 0.534
Episode 126
Agent 0 | Total Reward: -10.00 | Epsilon: 0.532
Agent 1 | Total Reward: -35.50 | Epsilon: 0.532
Episode 127
Agent 0 | Total Reward: -35.50 | Epsilon: 0.529
Agent 1 | Total Reward: -36.00 | Epsilon: 0.529
Episode 128
Agent 0 | Total Reward: -20.50 | Epsilon: 0.526
Agent 1 | Total Reward: -31.50 | Epsilon: 0.526
Episode 129
Agent 0 | Total Reward: -14.00 | Epsilon: 0.524
Agent 1 | Total Reward: -17.00 | Epsilon: 0.524
Episode 130
Agent 0 | Total Reward: -36.50 | Epsilon: 0.521
Agent 1 | Total Reward: -34.00 | Epsilon: 0.521
Episode 131
Agent 0 | Total Reward: -12.50 | Epsilon: 0.519
Agent 1 | Total Reward: -10.00 | Epsilon: 0.519
Episode 132
Agent 0 | Total Reward: -11.00 | Epsilon: 0.516
Agent 1 | Total Reward: -10.50 | Epsilon: 0.516
Episode 133
Agent 0 | Total Reward: -10.00 | Epsilon: 0.513
Agent 1 | Total Reward: -10.50 | Epsilon: 0.513
Episode 134
Agent 0 | Total Reward: -12.50 | Epsilon: 0.511
Agent 1 | Total Reward: -8.50 | Epsilon: 0.511
Episode 135
Agent 0 | Total Reward: -36.50 | Epsilon: 0.508
Agent 1 | Total Reward: -7.00 | Epsilon: 0.508
Episode 136
Agent 0 | Total Reward: -16.50 | Epsilon: 0.506
Agent 1 | Total Reward: -21.00 | Epsilon: 0.506
Episode 137
Agent 0 | Total Reward: -15.00 | Epsilon: 0.503
Agent 1 | Total Reward: -27.00 | Epsilon: 0.503
Episode 138
Agent 0 | Total Reward: -11.00 | Epsilon: 0.501
Agent 1 | Total Reward: -11.00 | Epsilon: 0.501
Episode 139
Agent 0 | Total Reward: -10.00 | Epsilon: 0.498
Agent 1 | Total Reward: -7.00 | Epsilon: 0.498
Episode 140
Agent 0 | Total Reward: -10.50 | Epsilon: 0.496
Agent 1 | Total Reward: -8.50 | Epsilon: 0.496
Episode 141
Agent 0 | Total Reward: -10.50 | Epsilon: 0.493
Agent 1 | Total Reward: -10.00 | Epsilon: 0.493
Episode 142
Agent 0 | Total Reward: -10.00 | Epsilon: 0.491

Agent 1 | Total Reward: -12.00 | Epsilon: 0.491
Episode 143
Agent 0 | Total Reward: -21.00 | Epsilon: 0.488
Agent 1 | Total Reward: -7.00 | Epsilon: 0.488
Episode 144
Agent 0 | Total Reward: -35.50 | Epsilon: 0.486
Agent 1 | Total Reward: -4.00 | Epsilon: 0.486
Episode 145
Agent 0 | Total Reward: -10.50 | Epsilon: 0.483
Agent 1 | Total Reward: -10.50 | Epsilon: 0.483
Episode 146
Agent 0 | Total Reward: -34.50 | Epsilon: 0.481
Agent 1 | Total Reward: -14.50 | Epsilon: 0.481
Episode 147
Agent 0 | Total Reward: -11.50 | Epsilon: 0.479
Agent 1 | Total Reward: -11.00 | Epsilon: 0.479
Episode 148
Agent 0 | Total Reward: -10.00 | Epsilon: 0.476
Agent 1 | Total Reward: -11.00 | Epsilon: 0.476
Episode 149
Agent 0 | Total Reward: -10.50 | Epsilon: 0.474
Agent 1 | Total Reward: -4.00 | Epsilon: 0.474
Episode 150
Agent 0 | Total Reward: -11.50 | Epsilon: 0.471
Agent 1 | Total Reward: -28.50 | Epsilon: 0.471
Episode 151
Agent 0 | Total Reward: -11.50 | Epsilon: 0.469
Agent 1 | Total Reward: -11.50 | Epsilon: 0.469
Episode 152
Agent 0 | Total Reward: -10.00 | Epsilon: 0.467
Agent 1 | Total Reward: -12.50 | Epsilon: 0.467
Episode 153
Agent 0 | Total Reward: -36.00 | Epsilon: 0.464
Agent 1 | Total Reward: -13.00 | Epsilon: 0.464
Episode 154
Agent 0 | Total Reward: -39.00 | Epsilon: 0.462
Agent 1 | Total Reward: -10.00 | Epsilon: 0.462
Episode 155
Agent 0 | Total Reward: -10.50 | Epsilon: 0.460
Agent 1 | Total Reward: -2.50 | Epsilon: 0.460
Episode 156
Agent 0 | Total Reward: -10.00 | Epsilon: 0.458
Agent 1 | Total Reward: -2.50 | Epsilon: 0.458
Episode 157
Agent 0 | Total Reward: -10.50 | Epsilon: 0.455
Agent 1 | Total Reward: -10.00 | Epsilon: 0.455
Episode 158
Agent 0 | Total Reward: -10.00 | Epsilon: 0.453
Agent 1 | Total Reward: -8.50 | Epsilon: 0.453
Episode 159
Agent 0 | Total Reward: -10.00 | Epsilon: 0.451
Agent 1 | Total Reward: -28.00 | Epsilon: 0.451
Episode 160
Agent 0 | Total Reward: -10.00 | Epsilon: 0.448
Agent 1 | Total Reward: -8.50 | Epsilon: 0.448
Episode 161
Agent 0 | Total Reward: -11.00 | Epsilon: 0.446
Agent 1 | Total Reward: -1.00 | Epsilon: 0.446
Episode 162
Agent 0 | Total Reward: -21.00 | Epsilon: 0.444
Agent 1 | Total Reward: -14.50 | Epsilon: 0.444
Episode 163
Agent 0 | Total Reward: -10.00 | Epsilon: 0.442
Agent 1 | Total Reward: -25.50 | Epsilon: 0.442
Episode 164
Agent 0 | Total Reward: -10.00 | Epsilon: 0.440
Agent 1 | Total Reward: -8.50 | Epsilon: 0.440
Episode 165
Agent 0 | Total Reward: -34.50 | Epsilon: 0.437
Agent 1 | Total Reward: -10.50 | Epsilon: 0.437
Episode 166
Agent 0 | Total Reward: -34.00 | Epsilon: 0.435
Agent 1 | Total Reward: -14.50 | Epsilon: 0.435
Episode 167
Agent 0 | Total Reward: -13.50 | Epsilon: 0.433
Agent 1 | Total Reward: -28.00 | Epsilon: 0.433
Episode 168
Agent 0 | Total Reward: -7.50 | Epsilon: 0.431
Agent 1 | Total Reward: -10.50 | Epsilon: 0.431
Episode 169
Agent 0 | Total Reward: -10.00 | Epsilon: 0.429
Agent 1 | Total Reward: -22.00 | Epsilon: 0.429
Episode 170

Agent 0 | Total Reward: -25.50 | Epsilon: 0.427
Agent 1 | Total Reward: 2.00 | Epsilon: 0.427
Episode 171
Agent 0 | Total Reward: -10.00 | Epsilon: 0.424
Agent 1 | Total Reward: -10.00 | Epsilon: 0.424
Episode 172
Agent 0 | Total Reward: -10.00 | Epsilon: 0.422
Agent 1 | Total Reward: -22.00 | Epsilon: 0.422
Episode 173
Agent 0 | Total Reward: -28.50 | Epsilon: 0.420
Agent 1 | Total Reward: -10.50 | Epsilon: 0.420
Episode 174
Agent 0 | Total Reward: -25.00 | Epsilon: 0.418
Agent 1 | Total Reward: -10.00 | Epsilon: 0.418
Episode 175
Agent 0 | Total Reward: -12.00 | Epsilon: 0.416
Agent 1 | Total Reward: -11.00 | Epsilon: 0.416
Episode 176
Agent 0 | Total Reward: -12.50 | Epsilon: 0.414
Agent 1 | Total Reward: -10.50 | Epsilon: 0.414
Episode 177
Agent 0 | Total Reward: -15.50 | Epsilon: 0.412
Agent 1 | Total Reward: -10.00 | Epsilon: 0.412
Episode 178
Agent 0 | Total Reward: -28.50 | Epsilon: 0.410
Agent 1 | Total Reward: -16.50 | Epsilon: 0.410
Episode 179
Agent 0 | Total Reward: -21.00 | Epsilon: 0.408
Agent 1 | Total Reward: -11.50 | Epsilon: 0.408
Episode 180
Agent 0 | Total Reward: -29.00 | Epsilon: 0.406
Agent 1 | Total Reward: -16.00 | Epsilon: 0.406
Episode 181
Agent 0 | Total Reward: -10.00 | Epsilon: 0.404
Agent 1 | Total Reward: -2.50 | Epsilon: 0.404
Episode 182
Agent 0 | Total Reward: -10.50 | Epsilon: 0.402
Agent 1 | Total Reward: -13.00 | Epsilon: 0.402
Episode 183
Agent 0 | Total Reward: -10.50 | Epsilon: 0.400
Agent 1 | Total Reward: -13.00 | Epsilon: 0.400
Episode 184
Agent 0 | Total Reward: 0.00 | Epsilon: 0.398
Agent 1 | Total Reward: -14.00 | Epsilon: 0.398
Episode 185
Agent 0 | Total Reward: -33.50 | Epsilon: 0.396
Agent 1 | Total Reward: -24.00 | Epsilon: 0.396
Episode 186
Agent 0 | Total Reward: -10.00 | Epsilon: 0.394
Agent 1 | Total Reward: -10.50 | Epsilon: 0.394
Episode 187
Agent 0 | Total Reward: -1.50 | Epsilon: 0.392
Agent 1 | Total Reward: -5.50 | Epsilon: 0.392
Episode 188
Agent 0 | Total Reward: -10.00 | Epsilon: 0.390
Agent 1 | Total Reward: -10.50 | Epsilon: 0.390
Episode 189
Agent 0 | Total Reward: -10.00 | Epsilon: 0.388
Agent 1 | Total Reward: -13.50 | Epsilon: 0.388
Episode 190
Agent 0 | Total Reward: -10.00 | Epsilon: 0.386
Agent 1 | Total Reward: -12.50 | Epsilon: 0.386
Episode 191
Agent 0 | Total Reward: -21.00 | Epsilon: 0.384
Agent 1 | Total Reward: -11.50 | Epsilon: 0.384
Episode 192
Agent 0 | Total Reward: -24.50 | Epsilon: 0.382
Agent 1 | Total Reward: -10.50 | Epsilon: 0.382
Episode 193
Agent 0 | Total Reward: -25.50 | Epsilon: 0.380
Agent 1 | Total Reward: -22.50 | Epsilon: 0.380
Episode 194
Agent 0 | Total Reward: -40.50 | Epsilon: 0.378
Agent 1 | Total Reward: -24.00 | Epsilon: 0.378
Episode 195
Agent 0 | Total Reward: -3.00 | Epsilon: 0.376
Agent 1 | Total Reward: -18.50 | Epsilon: 0.376
Episode 196
Agent 0 | Total Reward: -10.00 | Epsilon: 0.374
Agent 1 | Total Reward: -10.50 | Epsilon: 0.374
Episode 197
Agent 0 | Total Reward: -10.00 | Epsilon: 0.373
Agent 1 | Total Reward: -2.50 | Epsilon: 0.373

Episode 198
Agent 0 | Total Reward: -10.50 | Epsilon: 0.371
Agent 1 | Total Reward: -12.50 | Epsilon: 0.371
Episode 199
Agent 0 | Total Reward: -10.00 | Epsilon: 0.369
Agent 1 | Total Reward: -11.00 | Epsilon: 0.369
Episode 200
Agent 0 | Total Reward: -4.50 | Epsilon: 0.367
Agent 1 | Total Reward: -1.00 | Epsilon: 0.367
Episode 201
Agent 0 | Total Reward: -26.00 | Epsilon: 0.365
Agent 1 | Total Reward: -7.00 | Epsilon: 0.365
Episode 202
Agent 0 | Total Reward: -12.50 | Epsilon: 0.363
Agent 1 | Total Reward: -4.00 | Epsilon: 0.363
Episode 203
Agent 0 | Total Reward: -21.50 | Epsilon: 0.361
Agent 1 | Total Reward: -16.00 | Epsilon: 0.361
Episode 204
Agent 0 | Total Reward: -20.00 | Epsilon: 0.360
Agent 1 | Total Reward: -11.00 | Epsilon: 0.360
Episode 205
Agent 0 | Total Reward: -23.50 | Epsilon: 0.358
Agent 1 | Total Reward: -14.50 | Epsilon: 0.358
Episode 206
Agent 0 | Total Reward: -23.00 | Epsilon: 0.356
Agent 1 | Total Reward: -2.50 | Epsilon: 0.356
Episode 207
Agent 0 | Total Reward: -19.50 | Epsilon: 0.354
Agent 1 | Total Reward: -10.00 | Epsilon: 0.354
Episode 208
Agent 0 | Total Reward: -22.00 | Epsilon: 0.353
Agent 1 | Total Reward: -10.00 | Epsilon: 0.353
Episode 209
Agent 0 | Total Reward: -18.00 | Epsilon: 0.351
Agent 1 | Total Reward: -7.00 | Epsilon: 0.351
Episode 210
Agent 0 | Total Reward: -21.00 | Epsilon: 0.349
Agent 1 | Total Reward: -2.50 | Epsilon: 0.349
Episode 211
Agent 0 | Total Reward: -19.00 | Epsilon: 0.347
Agent 1 | Total Reward: 0.50 | Epsilon: 0.347
Episode 212
Agent 0 | Total Reward: -22.00 | Epsilon: 0.346
Agent 1 | Total Reward: -11.00 | Epsilon: 0.346
Episode 213
Agent 0 | Total Reward: -7.50 | Epsilon: 0.344
Agent 1 | Total Reward: -10.00 | Epsilon: 0.344
Episode 214
Agent 0 | Total Reward: -20.00 | Epsilon: 0.342
Agent 1 | Total Reward: -12.00 | Epsilon: 0.342
Episode 215
Agent 0 | Total Reward: -32.00 | Epsilon: 0.340
Agent 1 | Total Reward: -10.00 | Epsilon: 0.340
Episode 216
Agent 0 | Total Reward: -7.50 | Epsilon: 0.339
Agent 1 | Total Reward: 2.00 | Epsilon: 0.339
Episode 217
Agent 0 | Total Reward: -10.50 | Epsilon: 0.337
Agent 1 | Total Reward: -13.00 | Epsilon: 0.337
Episode 218
Agent 0 | Total Reward: -9.00 | Epsilon: 0.335
Agent 1 | Total Reward: 0.50 | Epsilon: 0.335
Episode 219
Agent 0 | Total Reward: -10.00 | Epsilon: 0.334
Agent 1 | Total Reward: -1.00 | Epsilon: 0.334
Episode 220
Agent 0 | Total Reward: -3.00 | Epsilon: 0.332
Agent 1 | Total Reward: -10.00 | Epsilon: 0.332
Episode 221
Agent 0 | Total Reward: -10.50 | Epsilon: 0.330
Agent 1 | Total Reward: -1.00 | Epsilon: 0.330
Episode 222
Agent 0 | Total Reward: -10.50 | Epsilon: 0.329
Agent 1 | Total Reward: -28.50 | Epsilon: 0.329
Episode 223
Agent 0 | Total Reward: -9.00 | Epsilon: 0.327
Agent 1 | Total Reward: -10.00 | Epsilon: 0.327
Episode 224
Agent 0 | Total Reward: -1.50 | Epsilon: 0.325
Agent 1 | Total Reward: 2.00 | Epsilon: 0.325
Episode 225
Agent 0 | Total Reward: -4.50 | Epsilon: 0.324

Agent 1 | Total Reward: -12.50 | Epsilon: 0.324
Episode 226
Agent 0 | Total Reward: -10.00 | Epsilon: 0.322
Agent 1 | Total Reward: -10.00 | Epsilon: 0.322
Episode 227
Agent 0 | Total Reward: 1.50 | Epsilon: 0.321
Agent 1 | Total Reward: 2.00 | Epsilon: 0.321
Episode 228
Agent 0 | Total Reward: -27.50 | Epsilon: 0.319
Agent 1 | Total Reward: -4.00 | Epsilon: 0.319
Episode 229
Agent 0 | Total Reward: -13.50 | Epsilon: 0.317
Agent 1 | Total Reward: -2.50 | Epsilon: 0.317
Episode 230
Agent 0 | Total Reward: 0.00 | Epsilon: 0.316
Agent 1 | Total Reward: 0.50 | Epsilon: 0.316
Episode 231
Agent 0 | Total Reward: -7.50 | Epsilon: 0.314
Agent 1 | Total Reward: -5.50 | Epsilon: 0.314
Episode 232
Agent 0 | Total Reward: 0.00 | Epsilon: 0.313
Agent 1 | Total Reward: 2.00 | Epsilon: 0.313
Episode 233
Agent 0 | Total Reward: -10.50 | Epsilon: 0.311
Agent 1 | Total Reward: 0.50 | Epsilon: 0.311
Episode 234
Agent 0 | Total Reward: -1.50 | Epsilon: 0.309
Agent 1 | Total Reward: -28.50 | Epsilon: 0.309
Episode 235
Agent 0 | Total Reward: -23.00 | Epsilon: 0.308
Agent 1 | Total Reward: -4.00 | Epsilon: 0.308
Episode 236
Agent 0 | Total Reward: -11.50 | Epsilon: 0.306
Agent 1 | Total Reward: -10.00 | Epsilon: 0.306
Episode 237
Agent 0 | Total Reward: -7.50 | Epsilon: 0.305
Agent 1 | Total Reward: 0.50 | Epsilon: 0.305
Episode 238
Agent 0 | Total Reward: -10.00 | Epsilon: 0.303
Agent 1 | Total Reward: -5.50 | Epsilon: 0.303
Episode 239
Agent 0 | Total Reward: -11.50 | Epsilon: 0.302
Agent 1 | Total Reward: -1.00 | Epsilon: 0.302
Episode 240
Agent 0 | Total Reward: -1.50 | Epsilon: 0.300
Agent 1 | Total Reward: 2.00 | Epsilon: 0.300
Episode 241
Agent 0 | Total Reward: -10.00 | Epsilon: 0.299
Agent 1 | Total Reward: -1.00 | Epsilon: 0.299
Episode 242
Agent 0 | Total Reward: -13.50 | Epsilon: 0.297
Agent 1 | Total Reward: 2.00 | Epsilon: 0.297
Episode 243
Agent 0 | Total Reward: -18.50 | Epsilon: 0.296
Agent 1 | Total Reward: -10.50 | Epsilon: 0.296
Episode 244
Agent 0 | Total Reward: -14.50 | Epsilon: 0.294
Agent 1 | Total Reward: -5.50 | Epsilon: 0.294
Episode 245
Agent 0 | Total Reward: -1.50 | Epsilon: 0.293
Agent 1 | Total Reward: -2.50 | Epsilon: 0.293
Episode 246
Agent 0 | Total Reward: -11.50 | Epsilon: 0.291
Agent 1 | Total Reward: -4.00 | Epsilon: 0.291
Episode 247
Agent 0 | Total Reward: -11.00 | Epsilon: 0.290
Agent 1 | Total Reward: -1.00 | Epsilon: 0.290
Episode 248
Agent 0 | Total Reward: 1.50 | Epsilon: 0.288
Agent 1 | Total Reward: -5.50 | Epsilon: 0.288
Episode 249
Agent 0 | Total Reward: -1.50 | Epsilon: 0.287
Agent 1 | Total Reward: -10.00 | Epsilon: 0.287
Episode 250
Agent 0 | Total Reward: -1.50 | Epsilon: 0.286
Agent 1 | Total Reward: 2.00 | Epsilon: 0.286
Episode 251
Agent 0 | Total Reward: -24.50 | Epsilon: 0.284
Agent 1 | Total Reward: -7.00 | Epsilon: 0.284
Episode 252
Agent 0 | Total Reward: 1.50 | Epsilon: 0.283
Agent 1 | Total Reward: 0.50 | Epsilon: 0.283
Episode 253

Agent 0 | Total Reward: -3.00 | Epsilon: 0.281
Agent 1 | Total Reward: 0.50 | Epsilon: 0.281
Episode 254
Agent 0 | Total Reward: 0.00 | Epsilon: 0.280
Agent 1 | Total Reward: -4.00 | Epsilon: 0.280
Episode 255
Agent 0 | Total Reward: -3.00 | Epsilon: 0.279
Agent 1 | Total Reward: -12.50 | Epsilon: 0.279
Episode 256
Agent 0 | Total Reward: 0.00 | Epsilon: 0.277
Agent 1 | Total Reward: -2.50 | Epsilon: 0.277
Episode 257
Agent 0 | Total Reward: -11.00 | Epsilon: 0.276
Agent 1 | Total Reward: -10.50 | Epsilon: 0.276
Episode 258
Agent 0 | Total Reward: -18.50 | Epsilon: 0.274
Agent 1 | Total Reward: 0.50 | Epsilon: 0.274
Episode 259
Agent 0 | Total Reward: -7.50 | Epsilon: 0.273
Agent 1 | Total Reward: -5.50 | Epsilon: 0.273
Episode 260
Agent 0 | Total Reward: -3.00 | Epsilon: 0.272
Agent 1 | Total Reward: -2.50 | Epsilon: 0.272
Episode 261
Agent 0 | Total Reward: -4.50 | Epsilon: 0.270
Agent 1 | Total Reward: -19.50 | Epsilon: 0.270
Episode 262
Agent 0 | Total Reward: 0.00 | Epsilon: 0.269
Agent 1 | Total Reward: 0.50 | Epsilon: 0.269
Episode 263
Agent 0 | Total Reward: -10.00 | Epsilon: 0.268
Agent 1 | Total Reward: -7.00 | Epsilon: 0.268
Episode 264
Agent 0 | Total Reward: -10.00 | Epsilon: 0.266
Agent 1 | Total Reward: -10.00 | Epsilon: 0.266
Episode 265
Agent 0 | Total Reward: -1.50 | Epsilon: 0.265
Agent 1 | Total Reward: -5.50 | Epsilon: 0.265
Episode 266
Agent 0 | Total Reward: -10.50 | Epsilon: 0.264
Agent 1 | Total Reward: 0.50 | Epsilon: 0.264
Episode 267
Agent 0 | Total Reward: 0.00 | Epsilon: 0.262
Agent 1 | Total Reward: -2.50 | Epsilon: 0.262
Episode 268
Agent 0 | Total Reward: -7.50 | Epsilon: 0.261
Agent 1 | Total Reward: -5.50 | Epsilon: 0.261
Episode 269
Agent 0 | Total Reward: -11.50 | Epsilon: 0.260
Agent 1 | Total Reward: -5.50 | Epsilon: 0.260
Episode 270
Agent 0 | Total Reward: -3.00 | Epsilon: 0.258
Agent 1 | Total Reward: 2.00 | Epsilon: 0.258
Episode 271
Agent 0 | Total Reward: -3.00 | Epsilon: 0.257
Agent 1 | Total Reward: -2.50 | Epsilon: 0.257
Episode 272
Agent 0 | Total Reward: 0.00 | Epsilon: 0.256
Agent 1 | Total Reward: -25.50 | Epsilon: 0.256
Episode 273
Agent 0 | Total Reward: -10.00 | Epsilon: 0.255
Agent 1 | Total Reward: 0.50 | Epsilon: 0.255
Episode 274
Agent 0 | Total Reward: -23.00 | Epsilon: 0.253
Agent 1 | Total Reward: -5.50 | Epsilon: 0.253
Episode 275
Agent 0 | Total Reward: -23.00 | Epsilon: 0.252
Agent 1 | Total Reward: 0.50 | Epsilon: 0.252
Episode 276
Agent 0 | Total Reward: -6.00 | Epsilon: 0.251
Agent 1 | Total Reward: -16.00 | Epsilon: 0.251
Episode 277
Agent 0 | Total Reward: -10.00 | Epsilon: 0.249
Agent 1 | Total Reward: -2.50 | Epsilon: 0.249
Episode 278
Agent 0 | Total Reward: -24.50 | Epsilon: 0.248
Agent 1 | Total Reward: -1.00 | Epsilon: 0.248
Episode 279
Agent 0 | Total Reward: 1.50 | Epsilon: 0.247
Agent 1 | Total Reward: -24.00 | Epsilon: 0.247
Episode 280
Agent 0 | Total Reward: -3.00 | Epsilon: 0.246
Agent 1 | Total Reward: 0.50 | Epsilon: 0.246

Episode 281
Agent 0 | Total Reward: -10.00 | Epsilon: 0.245
Agent 1 | Total Reward: -22.50 | Epsilon: 0.245
Episode 282
Agent 0 | Total Reward: -10.00 | Epsilon: 0.243
Agent 1 | Total Reward: -1.00 | Epsilon: 0.243
Episode 283
Agent 0 | Total Reward: -10.00 | Epsilon: 0.242
Agent 1 | Total Reward: -2.50 | Epsilon: 0.242
Episode 284
Agent 0 | Total Reward: 0.00 | Epsilon: 0.241
Agent 1 | Total Reward: 0.50 | Epsilon: 0.241
Episode 285
Agent 0 | Total Reward: -3.00 | Epsilon: 0.240
Agent 1 | Total Reward: -21.00 | Epsilon: 0.240
Episode 286
Agent 0 | Total Reward: -10.00 | Epsilon: 0.238
Agent 1 | Total Reward: -11.50 | Epsilon: 0.238
Episode 287
Agent 0 | Total Reward: 1.50 | Epsilon: 0.237
Agent 1 | Total Reward: -2.50 | Epsilon: 0.237
Episode 288
Agent 0 | Total Reward: -24.00 | Epsilon: 0.236
Agent 1 | Total Reward: 0.50 | Epsilon: 0.236
Episode 289
Agent 0 | Total Reward: -3.00 | Epsilon: 0.235
Agent 1 | Total Reward: 2.00 | Epsilon: 0.235
Episode 290
Agent 0 | Total Reward: -21.50 | Epsilon: 0.234
Agent 1 | Total Reward: 2.00 | Epsilon: 0.234
Episode 291
Agent 0 | Total Reward: -4.50 | Epsilon: 0.233
Agent 1 | Total Reward: 0.50 | Epsilon: 0.233
Episode 292
Agent 0 | Total Reward: -10.00 | Epsilon: 0.231
Agent 1 | Total Reward: -11.00 | Epsilon: 0.231
Episode 293
Agent 0 | Total Reward: 1.50 | Epsilon: 0.230
Agent 1 | Total Reward: -2.50 | Epsilon: 0.230
Episode 294
Agent 0 | Total Reward: -3.00 | Epsilon: 0.229
Agent 1 | Total Reward: -4.00 | Epsilon: 0.229
Episode 295
Agent 0 | Total Reward: -1.50 | Epsilon: 0.228
Agent 1 | Total Reward: -1.00 | Epsilon: 0.228
Episode 296
Agent 0 | Total Reward: -18.50 | Epsilon: 0.227
Agent 1 | Total Reward: -4.00 | Epsilon: 0.227
Episode 297
Agent 0 | Total Reward: 1.50 | Epsilon: 0.226
Agent 1 | Total Reward: 0.50 | Epsilon: 0.226
Episode 298
Agent 0 | Total Reward: -6.00 | Epsilon: 0.225
Agent 1 | Total Reward: -7.00 | Epsilon: 0.225
Episode 299
Agent 0 | Total Reward: -4.50 | Epsilon: 0.223
Agent 1 | Total Reward: 2.00 | Epsilon: 0.223
Episode 300
Agent 0 | Total Reward: -3.00 | Epsilon: 0.222
Agent 1 | Total Reward: 0.50 | Epsilon: 0.222
Episode 301
Agent 0 | Total Reward: 0.00 | Epsilon: 0.221
Agent 1 | Total Reward: 0.50 | Epsilon: 0.221
Episode 302
Agent 0 | Total Reward: -10.00 | Epsilon: 0.220
Agent 1 | Total Reward: -1.00 | Epsilon: 0.220
Episode 303
Agent 0 | Total Reward: -12.00 | Epsilon: 0.219
Agent 1 | Total Reward: -1.00 | Epsilon: 0.219
Episode 304
Agent 0 | Total Reward: 0.00 | Epsilon: 0.218
Agent 1 | Total Reward: -12.00 | Epsilon: 0.218
Episode 305
Agent 0 | Total Reward: 0.00 | Epsilon: 0.217
Agent 1 | Total Reward: -10.00 | Epsilon: 0.217
Episode 306
Agent 0 | Total Reward: 0.00 | Epsilon: 0.216
Agent 1 | Total Reward: -24.00 | Epsilon: 0.216
Episode 307
Agent 0 | Total Reward: 0.00 | Epsilon: 0.215
Agent 1 | Total Reward: -11.50 | Epsilon: 0.215
Episode 308
Agent 0 | Total Reward: -1.50 | Epsilon: 0.214

Agent 1 | Total Reward: -4.00 | Epsilon: 0.214
Episode 309
Agent 0 | Total Reward: 0.00 | Epsilon: 0.212
Agent 1 | Total Reward: 0.50 | Epsilon: 0.212
Episode 310
Agent 0 | Total Reward: -1.50 | Epsilon: 0.211
Agent 1 | Total Reward: -4.00 | Epsilon: 0.211
Episode 311
Agent 0 | Total Reward: -12.50 | Epsilon: 0.210
Agent 1 | Total Reward: 2.00 | Epsilon: 0.210
Episode 312
Agent 0 | Total Reward: -1.50 | Epsilon: 0.209
Agent 1 | Total Reward: 0.50 | Epsilon: 0.209
Episode 313
Agent 0 | Total Reward: -12.00 | Epsilon: 0.208
Agent 1 | Total Reward: 2.00 | Epsilon: 0.208
Episode 314
Agent 0 | Total Reward: -10.00 | Epsilon: 0.207
Agent 1 | Total Reward: 0.50 | Epsilon: 0.207
Episode 315
Agent 0 | Total Reward: -10.00 | Epsilon: 0.206
Agent 1 | Total Reward: 2.00 | Epsilon: 0.206
Episode 316
Agent 0 | Total Reward: -1.50 | Epsilon: 0.205
Agent 1 | Total Reward: 2.00 | Epsilon: 0.205
Episode 317
Agent 0 | Total Reward: -10.50 | Epsilon: 0.204
Agent 1 | Total Reward: -2.50 | Epsilon: 0.204
Episode 318
Agent 0 | Total Reward: 0.00 | Epsilon: 0.203
Agent 1 | Total Reward: -5.50 | Epsilon: 0.203
Episode 319
Agent 0 | Total Reward: -10.00 | Epsilon: 0.202
Agent 1 | Total Reward: -2.50 | Epsilon: 0.202
Episode 320
Agent 0 | Total Reward: -4.50 | Epsilon: 0.201
Agent 1 | Total Reward: -1.00 | Epsilon: 0.201
Episode 321
Agent 0 | Total Reward: 1.50 | Epsilon: 0.200
Agent 1 | Total Reward: -7.00 | Epsilon: 0.200
Episode 322
Agent 0 | Total Reward: -18.00 | Epsilon: 0.199
Agent 1 | Total Reward: -1.00 | Epsilon: 0.199
Episode 323
Agent 0 | Total Reward: -1.50 | Epsilon: 0.198
Agent 1 | Total Reward: -2.50 | Epsilon: 0.198
Episode 324
Agent 0 | Total Reward: 0.00 | Epsilon: 0.197
Agent 1 | Total Reward: -7.00 | Epsilon: 0.197
Episode 325
Agent 0 | Total Reward: 1.50 | Epsilon: 0.196
Agent 1 | Total Reward: 2.00 | Epsilon: 0.196
Episode 326
Agent 0 | Total Reward: -11.00 | Epsilon: 0.195
Agent 1 | Total Reward: 0.50 | Epsilon: 0.195
Episode 327
Agent 0 | Total Reward: -1.50 | Epsilon: 0.194
Agent 1 | Total Reward: 0.50 | Epsilon: 0.194
Episode 328
Agent 0 | Total Reward: -4.50 | Epsilon: 0.193
Agent 1 | Total Reward: -1.00 | Epsilon: 0.193
Episode 329
Agent 0 | Total Reward: -1.50 | Epsilon: 0.192
Agent 1 | Total Reward: -4.00 | Epsilon: 0.192
Episode 330
Agent 0 | Total Reward: -7.50 | Epsilon: 0.191
Agent 1 | Total Reward: -4.00 | Epsilon: 0.191
Episode 331
Agent 0 | Total Reward: -3.00 | Epsilon: 0.190
Agent 1 | Total Reward: -1.00 | Epsilon: 0.190
Episode 332
Agent 0 | Total Reward: 1.50 | Epsilon: 0.189
Agent 1 | Total Reward: 2.00 | Epsilon: 0.189
Episode 333
Agent 0 | Total Reward: 1.50 | Epsilon: 0.188
Agent 1 | Total Reward: 2.00 | Epsilon: 0.188
Episode 334
Agent 0 | Total Reward: -1.50 | Epsilon: 0.187
Agent 1 | Total Reward: -4.00 | Epsilon: 0.187
Episode 335
Agent 0 | Total Reward: 1.50 | Epsilon: 0.187
Agent 1 | Total Reward: 0.50 | Epsilon: 0.187
Episode 336

Agent 0 | Total Reward: -1.50 | Epsilon: 0.186
Agent 1 | Total Reward: -1.00 | Epsilon: 0.186
Episode 337
Agent 0 | Total Reward: 0.00 | Epsilon: 0.185
Agent 1 | Total Reward: 2.00 | Epsilon: 0.185
Episode 338
Agent 0 | Total Reward: 0.00 | Epsilon: 0.184
Agent 1 | Total Reward: 2.00 | Epsilon: 0.184
Episode 339
Agent 0 | Total Reward: -4.50 | Epsilon: 0.183
Agent 1 | Total Reward: -1.00 | Epsilon: 0.183
Episode 340
Agent 0 | Total Reward: -10.00 | Epsilon: 0.182
Agent 1 | Total Reward: -1.00 | Epsilon: 0.182
Episode 341
Agent 0 | Total Reward: -11.00 | Epsilon: 0.181
Agent 1 | Total Reward: 0.50 | Epsilon: 0.181
Episode 342
Agent 0 | Total Reward: 0.00 | Epsilon: 0.180
Agent 1 | Total Reward: 2.00 | Epsilon: 0.180
Episode 343
Agent 0 | Total Reward: 1.50 | Epsilon: 0.179
Agent 1 | Total Reward: 2.00 | Epsilon: 0.179
Episode 344
Agent 0 | Total Reward: -10.00 | Epsilon: 0.178
Agent 1 | Total Reward: -1.00 | Epsilon: 0.178
Episode 345
Agent 0 | Total Reward: 1.50 | Epsilon: 0.177
Agent 1 | Total Reward: 2.00 | Epsilon: 0.177
Episode 346
Agent 0 | Total Reward: 0.00 | Epsilon: 0.177
Agent 1 | Total Reward: -1.00 | Epsilon: 0.177
Episode 347
Agent 0 | Total Reward: 1.50 | Epsilon: 0.176
Agent 1 | Total Reward: 0.50 | Epsilon: 0.176
Episode 348
Agent 0 | Total Reward: -10.00 | Epsilon: 0.175
Agent 1 | Total Reward: 2.00 | Epsilon: 0.175
Episode 349
Agent 0 | Total Reward: -1.50 | Epsilon: 0.174
Agent 1 | Total Reward: 0.50 | Epsilon: 0.174
Episode 350
Agent 0 | Total Reward: 0.00 | Epsilon: 0.173
Agent 1 | Total Reward: -4.00 | Epsilon: 0.173
Episode 351
Agent 0 | Total Reward: 1.50 | Epsilon: 0.172
Agent 1 | Total Reward: -21.00 | Epsilon: 0.172
Episode 352
Agent 0 | Total Reward: 0.00 | Epsilon: 0.171
Agent 1 | Total Reward: -4.00 | Epsilon: 0.171
Episode 353
Agent 0 | Total Reward: 0.00 | Epsilon: 0.170
Agent 1 | Total Reward: -2.50 | Epsilon: 0.170
Episode 354
Agent 0 | Total Reward: -1.50 | Epsilon: 0.170
Agent 1 | Total Reward: 2.00 | Epsilon: 0.170
Episode 355
Agent 0 | Total Reward: -10.00 | Epsilon: 0.169
Agent 1 | Total Reward: -1.00 | Epsilon: 0.169
Episode 356
Agent 0 | Total Reward: -24.50 | Epsilon: 0.168
Agent 1 | Total Reward: -4.00 | Epsilon: 0.168
Episode 357
Agent 0 | Total Reward: 1.50 | Epsilon: 0.167
Agent 1 | Total Reward: 0.50 | Epsilon: 0.167
Episode 358
Agent 0 | Total Reward: 0.00 | Epsilon: 0.166
Agent 1 | Total Reward: -2.50 | Epsilon: 0.166
Episode 359
Agent 0 | Total Reward: -10.00 | Epsilon: 0.165
Agent 1 | Total Reward: 2.00 | Epsilon: 0.165
Episode 360
Agent 0 | Total Reward: -1.50 | Epsilon: 0.165
Agent 1 | Total Reward: -2.50 | Epsilon: 0.165
Episode 361
Agent 0 | Total Reward: 1.50 | Epsilon: 0.164
Agent 1 | Total Reward: -1.00 | Epsilon: 0.164
Episode 362
Agent 0 | Total Reward: -3.00 | Epsilon: 0.163
Agent 1 | Total Reward: 0.50 | Epsilon: 0.163
Episode 363
Agent 0 | Total Reward: -12.00 | Epsilon: 0.162
Agent 1 | Total Reward: -5.50 | Epsilon: 0.162

Episode 364
Agent 0 | Total Reward: -10.50 | Epsilon: 0.161
Agent 1 | Total Reward: 0.50 | Epsilon: 0.161
Episode 365
Agent 0 | Total Reward: -18.50 | Epsilon: 0.160
Agent 1 | Total Reward: 2.00 | Epsilon: 0.160
Episode 366
Agent 0 | Total Reward: 1.50 | Epsilon: 0.160
Agent 1 | Total Reward: -2.50 | Epsilon: 0.160
Episode 367
Agent 0 | Total Reward: 0.00 | Epsilon: 0.159
Agent 1 | Total Reward: 2.00 | Epsilon: 0.159
Episode 368
Agent 0 | Total Reward: -1.50 | Epsilon: 0.158
Agent 1 | Total Reward: -21.00 | Epsilon: 0.158
Episode 369
Agent 0 | Total Reward: -21.50 | Epsilon: 0.157
Agent 1 | Total Reward: -7.00 | Epsilon: 0.157
Episode 370
Agent 0 | Total Reward: -1.50 | Epsilon: 0.157
Agent 1 | Total Reward: 2.00 | Epsilon: 0.157
Episode 371
Agent 0 | Total Reward: 0.00 | Epsilon: 0.156
Agent 1 | Total Reward: -10.00 | Epsilon: 0.156
Episode 372
Agent 0 | Total Reward: 0.00 | Epsilon: 0.155
Agent 1 | Total Reward: -2.50 | Epsilon: 0.155
Episode 373
Agent 0 | Total Reward: -1.50 | Epsilon: 0.154
Agent 1 | Total Reward: -5.50 | Epsilon: 0.154
Episode 374
Agent 0 | Total Reward: -10.00 | Epsilon: 0.153
Agent 1 | Total Reward: -1.00 | Epsilon: 0.153
Episode 375
Agent 0 | Total Reward: -3.00 | Epsilon: 0.153
Agent 1 | Total Reward: 2.00 | Epsilon: 0.153
Episode 376
Agent 0 | Total Reward: 0.00 | Epsilon: 0.152
Agent 1 | Total Reward: 0.50 | Epsilon: 0.152
Episode 377
Agent 0 | Total Reward: -1.50 | Epsilon: 0.151
Agent 1 | Total Reward: -19.00 | Epsilon: 0.151
Episode 378
Agent 0 | Total Reward: -3.00 | Epsilon: 0.150
Agent 1 | Total Reward: -1.00 | Epsilon: 0.150
Episode 379
Agent 0 | Total Reward: -10.00 | Epsilon: 0.150
Agent 1 | Total Reward: 2.00 | Epsilon: 0.150
Episode 380
Agent 0 | Total Reward: -1.50 | Epsilon: 0.149
Agent 1 | Total Reward: -19.50 | Epsilon: 0.149
Episode 381
Agent 0 | Total Reward: 1.50 | Epsilon: 0.148
Agent 1 | Total Reward: 2.00 | Epsilon: 0.148
Episode 382
Agent 0 | Total Reward: -12.00 | Epsilon: 0.147
Agent 1 | Total Reward: 0.50 | Epsilon: 0.147
Episode 383
Agent 0 | Total Reward: -1.50 | Epsilon: 0.147
Agent 1 | Total Reward: 0.50 | Epsilon: 0.147
Episode 384
Agent 0 | Total Reward: -10.00 | Epsilon: 0.146
Agent 1 | Total Reward: 2.00 | Epsilon: 0.146
Episode 385
Agent 0 | Total Reward: 1.50 | Epsilon: 0.145
Agent 1 | Total Reward: -1.00 | Epsilon: 0.145
Episode 386
Agent 0 | Total Reward: 0.00 | Epsilon: 0.144
Agent 1 | Total Reward: 2.00 | Epsilon: 0.144
Episode 387
Agent 0 | Total Reward: 1.50 | Epsilon: 0.144
Agent 1 | Total Reward: 2.00 | Epsilon: 0.144
Episode 388
Agent 0 | Total Reward: -10.00 | Epsilon: 0.143
Agent 1 | Total Reward: -1.00 | Epsilon: 0.143
Episode 389
Agent 0 | Total Reward: 0.00 | Epsilon: 0.142
Agent 1 | Total Reward: 2.00 | Epsilon: 0.142
Episode 390
Agent 0 | Total Reward: -3.00 | Epsilon: 0.142
Agent 1 | Total Reward: -4.00 | Epsilon: 0.142
Episode 391
Agent 0 | Total Reward: 0.00 | Epsilon: 0.141

Agent 1 | Total Reward: 2.00 | Epsilon: 0.141
Episode 392
Agent 0 | Total Reward: 0.00 | Epsilon: 0.140
Agent 1 | Total Reward: -1.00 | Epsilon: 0.140
Episode 393
Agent 0 | Total Reward: -21.00 | Epsilon: 0.139
Agent 1 | Total Reward: -2.50 | Epsilon: 0.139
Episode 394
Agent 0 | Total Reward: 0.00 | Epsilon: 0.139
Agent 1 | Total Reward: -4.00 | Epsilon: 0.139
Episode 395
Agent 0 | Total Reward: 0.00 | Epsilon: 0.138
Agent 1 | Total Reward: -11.50 | Epsilon: 0.138
Episode 396
Agent 0 | Total Reward: -1.50 | Epsilon: 0.137
Agent 1 | Total Reward: 2.00 | Epsilon: 0.137
Episode 397
Agent 0 | Total Reward: -1.50 | Epsilon: 0.137
Agent 1 | Total Reward: -1.00 | Epsilon: 0.137
Episode 398
Agent 0 | Total Reward: 0.00 | Epsilon: 0.136
Agent 1 | Total Reward: 2.00 | Epsilon: 0.136
Episode 399
Agent 0 | Total Reward: 0.00 | Epsilon: 0.135
Agent 1 | Total Reward: 0.50 | Epsilon: 0.135
Episode 400
Agent 0 | Total Reward: -1.50 | Epsilon: 0.135
Agent 1 | Total Reward: 0.50 | Epsilon: 0.135
Episode 401
Agent 0 | Total Reward: -1.50 | Epsilon: 0.134
Agent 1 | Total Reward: -10.00 | Epsilon: 0.134
Episode 402
Agent 0 | Total Reward: 1.50 | Epsilon: 0.133
Agent 1 | Total Reward: 0.50 | Epsilon: 0.133
Episode 403
Agent 0 | Total Reward: -1.50 | Epsilon: 0.133
Agent 1 | Total Reward: 2.00 | Epsilon: 0.133
Episode 404
Agent 0 | Total Reward: -3.00 | Epsilon: 0.132
Agent 1 | Total Reward: 2.00 | Epsilon: 0.132
Episode 405
Agent 0 | Total Reward: 0.00 | Epsilon: 0.131
Agent 1 | Total Reward: 0.50 | Epsilon: 0.131
Episode 406
Agent 0 | Total Reward: -20.00 | Epsilon: 0.131
Agent 1 | Total Reward: 0.50 | Epsilon: 0.131
Episode 407
Agent 0 | Total Reward: 0.00 | Epsilon: 0.130
Agent 1 | Total Reward: -19.50 | Epsilon: 0.130
Episode 408
Agent 0 | Total Reward: 0.00 | Epsilon: 0.129
Agent 1 | Total Reward: 2.00 | Epsilon: 0.129
Episode 409
Agent 0 | Total Reward: 1.50 | Epsilon: 0.129
Agent 1 | Total Reward: 0.50 | Epsilon: 0.129
Episode 410
Agent 0 | Total Reward: 0.00 | Epsilon: 0.128
Agent 1 | Total Reward: -4.00 | Epsilon: 0.128
Episode 411
Agent 0 | Total Reward: 1.50 | Epsilon: 0.127
Agent 1 | Total Reward: -1.00 | Epsilon: 0.127
Episode 412
Agent 0 | Total Reward: -1.50 | Epsilon: 0.127
Agent 1 | Total Reward: -1.00 | Epsilon: 0.127
Episode 413
Agent 0 | Total Reward: 0.00 | Epsilon: 0.126
Agent 1 | Total Reward: -13.00 | Epsilon: 0.126
Episode 414
Agent 0 | Total Reward: 0.00 | Epsilon: 0.126
Agent 1 | Total Reward: 2.00 | Epsilon: 0.126
Episode 415
Agent 0 | Total Reward: 1.50 | Epsilon: 0.125
Agent 1 | Total Reward: 2.00 | Epsilon: 0.125
Episode 416
Agent 0 | Total Reward: -10.00 | Epsilon: 0.124
Agent 1 | Total Reward: 2.00 | Epsilon: 0.124
Episode 417
Agent 0 | Total Reward: 0.00 | Epsilon: 0.124
Agent 1 | Total Reward: 0.50 | Epsilon: 0.124
Episode 418
Agent 0 | Total Reward: 1.50 | Epsilon: 0.123
Agent 1 | Total Reward: -25.50 | Epsilon: 0.123
Episode 419

Agent 0 | Total Reward: 1.50 | Epsilon: 0.122
Agent 1 | Total Reward: 0.50 | Epsilon: 0.122
Episode 420
Agent 0 | Total Reward: -1.50 | Epsilon: 0.122
Agent 1 | Total Reward: 2.00 | Epsilon: 0.122
Episode 421
Agent 0 | Total Reward: 0.00 | Epsilon: 0.121
Agent 1 | Total Reward: -24.00 | Epsilon: 0.121
Episode 422
Agent 0 | Total Reward: 1.50 | Epsilon: 0.121
Agent 1 | Total Reward: 2.00 | Epsilon: 0.121
Episode 423
Agent 0 | Total Reward: 0.00 | Epsilon: 0.120
Agent 1 | Total Reward: 0.50 | Epsilon: 0.120
Episode 424
Agent 0 | Total Reward: 1.50 | Epsilon: 0.119
Agent 1 | Total Reward: 0.50 | Epsilon: 0.119
Episode 425
Agent 0 | Total Reward: -18.50 | Epsilon: 0.119
Agent 1 | Total Reward: 2.00 | Epsilon: 0.119
Episode 426
Agent 0 | Total Reward: 0.00 | Epsilon: 0.118
Agent 1 | Total Reward: 2.00 | Epsilon: 0.118
Episode 427
Agent 0 | Total Reward: -1.50 | Epsilon: 0.118
Agent 1 | Total Reward: -1.00 | Epsilon: 0.118
Episode 428
Agent 0 | Total Reward: 0.00 | Epsilon: 0.117
Agent 1 | Total Reward: -1.00 | Epsilon: 0.117
Episode 429
Agent 0 | Total Reward: 0.00 | Epsilon: 0.116
Agent 1 | Total Reward: -19.50 | Epsilon: 0.116
Episode 430
Agent 0 | Total Reward: 1.50 | Epsilon: 0.116
Agent 1 | Total Reward: 2.00 | Epsilon: 0.116
Episode 431
Agent 0 | Total Reward: -3.00 | Epsilon: 0.115
Agent 1 | Total Reward: 0.50 | Epsilon: 0.115
Episode 432
Agent 0 | Total Reward: 1.50 | Epsilon: 0.115
Agent 1 | Total Reward: -15.00 | Epsilon: 0.115
Episode 433
Agent 0 | Total Reward: 0.00 | Epsilon: 0.114
Agent 1 | Total Reward: 2.00 | Epsilon: 0.114
Episode 434
Agent 0 | Total Reward: 1.50 | Epsilon: 0.114
Agent 1 | Total Reward: 2.00 | Epsilon: 0.114
Episode 435
Agent 0 | Total Reward: 1.50 | Epsilon: 0.113
Agent 1 | Total Reward: 0.50 | Epsilon: 0.113
Episode 436
Agent 0 | Total Reward: 0.00 | Epsilon: 0.112
Agent 1 | Total Reward: 2.00 | Epsilon: 0.112
Episode 437
Agent 0 | Total Reward: 0.00 | Epsilon: 0.112
Agent 1 | Total Reward: 0.50 | Epsilon: 0.112
Episode 438
Agent 0 | Total Reward: -1.50 | Epsilon: 0.111
Agent 1 | Total Reward: -10.00 | Epsilon: 0.111
Episode 439
Agent 0 | Total Reward: 1.50 | Epsilon: 0.111
Agent 1 | Total Reward: 0.50 | Epsilon: 0.111
Episode 440
Agent 0 | Total Reward: 1.50 | Epsilon: 0.110
Agent 1 | Total Reward: 2.00 | Epsilon: 0.110
Episode 441
Agent 0 | Total Reward: 1.50 | Epsilon: 0.110
Agent 1 | Total Reward: 0.50 | Epsilon: 0.110
Episode 442
Agent 0 | Total Reward: 1.50 | Epsilon: 0.109
Agent 1 | Total Reward: -10.00 | Epsilon: 0.109
Episode 443
Agent 0 | Total Reward: 1.50 | Epsilon: 0.109
Agent 1 | Total Reward: -22.50 | Epsilon: 0.109
Episode 444
Agent 0 | Total Reward: 1.50 | Epsilon: 0.108
Agent 1 | Total Reward: 2.00 | Epsilon: 0.108
Episode 445
Agent 0 | Total Reward: -18.50 | Epsilon: 0.107
Agent 1 | Total Reward: 0.50 | Epsilon: 0.107
Episode 446
Agent 0 | Total Reward: -3.00 | Epsilon: 0.107
Agent 1 | Total Reward: 0.50 | Epsilon: 0.107

Episode 447
Agent 0 | Total Reward: 1.50 | Epsilon: 0.106
Agent 1 | Total Reward: 0.50 | Epsilon: 0.106
Episode 448
Agent 0 | Total Reward: 1.50 | Epsilon: 0.106
Agent 1 | Total Reward: -1.00 | Epsilon: 0.106
Episode 449
Agent 0 | Total Reward: 0.00 | Epsilon: 0.105
Agent 1 | Total Reward: 0.50 | Epsilon: 0.105
Episode 450
Agent 0 | Total Reward: 1.50 | Epsilon: 0.105
Agent 1 | Total Reward: 2.00 | Epsilon: 0.105
Episode 451
Agent 0 | Total Reward: 0.00 | Epsilon: 0.104
Agent 1 | Total Reward: -1.00 | Epsilon: 0.104
Episode 452
Agent 0 | Total Reward: 1.50 | Epsilon: 0.104
Agent 1 | Total Reward: -2.50 | Epsilon: 0.104
Episode 453
Agent 0 | Total Reward: 0.00 | Epsilon: 0.103
Agent 1 | Total Reward: 0.50 | Epsilon: 0.103
Episode 454
Agent 0 | Total Reward: 0.00 | Epsilon: 0.103
Agent 1 | Total Reward: 2.00 | Epsilon: 0.103
Episode 455
Agent 0 | Total Reward: 1.50 | Epsilon: 0.102
Agent 1 | Total Reward: 0.50 | Epsilon: 0.102
Episode 456
Agent 0 | Total Reward: -10.50 | Epsilon: 0.102
Agent 1 | Total Reward: 0.50 | Epsilon: 0.102
Episode 457
Agent 0 | Total Reward: -10.00 | Epsilon: 0.101
Agent 1 | Total Reward: 0.50 | Epsilon: 0.101
Episode 458
Agent 0 | Total Reward: -1.50 | Epsilon: 0.101
Agent 1 | Total Reward: -2.50 | Epsilon: 0.101
Episode 459
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 460
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 461
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 462
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 463
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 464
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 465
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -27.50 | Epsilon: 0.100
Episode 466
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 467
Agent 0 | Total Reward: -12.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 468
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 469
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 470
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 471
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 472
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 473
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -19.50 | Epsilon: 0.100
Episode 474
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100

Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 475
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 476
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 477
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 478
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 479
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 480
Agent 0 | Total Reward: -20.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 481
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -19.50 | Epsilon: 0.100
Episode 482
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 483
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 484
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 485
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 486
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 487
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 488
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 489
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 490
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 491
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 492
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 493
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 494
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 495
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 496
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 497
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 498
Agent 0 | Total Reward: -17.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 499
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: -12.50 | Epsilon: 0.100
Episode 500
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 501
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 502

[illegible]

Episode 530	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 531	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: -19.50	Epsilon: 0.100
Episode 532	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 533	Agent 0	Total Reward: -11.50	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 534	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 535	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: -1.00	Epsilon: 0.100
Episode 536	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: -1.00	Epsilon: 0.100
Episode 537	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 538	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 539	Agent 0	Total Reward: -1.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 540	Agent 0	Total Reward: -1.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 541	Agent 0	Total Reward: -10.00	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 542	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: -1.00	Epsilon: 0.100
Episode 543	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 544	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 545	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 546	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 547	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 548	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 549	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 550	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: -2.50	Epsilon: 0.100
Episode 551	Agent 0	Total Reward: -10.00	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 552	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 553	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: -1.00	Epsilon: 0.100
Episode 554	Agent 0	Total Reward: -12.50	Epsilon: 0.100
	Agent 1	Total Reward: -1.00	Epsilon: 0.100
Episode 555	Agent 0	Total Reward: -1.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 556	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 557	Agent 0	Total Reward: 0.00	Epsilon: 0.100

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Episode 558
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Episode 559
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Episode 560
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Episode 561
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Episode 585

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Episode 605
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Episode 607
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Episode 608
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Episode 613
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Episode 630
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Episode 639
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Episode 640
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[illegible]

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Episode 751

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Episode 764
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Episode 917

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	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 947	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 948	Agent 0	Total Reward: -1.50	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 949	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 950	Agent 0	Total Reward: -11.00	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 951	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: -1.00	Epsilon: 0.100
Episode 952	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 953	Agent 0	Total Reward: -11.50	Epsilon: 0.100
	Agent 1	Total Reward: -2.50	Epsilon: 0.100
Episode 954	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 955	Agent 0	Total Reward: -1.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 956	Agent 0	Total Reward: -18.50	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 957	Agent 0	Total Reward: -1.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 958	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: -1.00	Epsilon: 0.100
Episode 959	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: -1.00	Epsilon: 0.100
Episode 960	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 961	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 962	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 963	Agent 0	Total Reward: -10.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 964	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: -1.00	Epsilon: 0.100
Episode 965	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 966	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: -2.50	Epsilon: 0.100
Episode 967	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 968	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 2.00	Epsilon: 0.100
Episode 969	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: -10.00	Epsilon: 0.100
Episode 970	Agent 0	Total Reward: 0.00	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 971	Agent 0	Total Reward: 1.50	Epsilon: 0.100
	Agent 1	Total Reward: 0.50	Epsilon: 0.100
Episode 972	Agent 0	Total Reward: 1.50	Epsilon: 0.100

Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 973
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 974
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 975
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Episode 976
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 977
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 978
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Episode 979
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 980
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 981
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 982
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 983
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 984
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 985
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 986
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 987
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 988
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
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Episode 990
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 991
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 992
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Episode 993
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 994
Agent 0 | Total Reward: -18.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 995
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 996
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
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Episode 997
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 998
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 999
Agent 0 | Total Reward: -12.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1000

Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1001
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1002
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1003
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Episode 1004
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Episode 1005
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Episode 1006
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Episode 1007
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Episode 1008
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1009
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
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Episode 1010
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1011
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1012
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1013
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1014
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1015
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1016
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1017
Agent 0 | Total Reward: -18.50 | Epsilon: 0.100
Agent 1 | Total Reward: -16.50 | Epsilon: 0.100
Episode 1018
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1019
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1020
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1021
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1022
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Episode 1023
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Episode 1024
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Episode 1025
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Episode 1026
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Agent 1 | Total Reward: -11.50 | Epsilon: 0.100
Episode 1027
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[illegible]

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Episode 1056
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Episode 1057
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Episode 1058
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1059
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1060
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1061
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1062
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Episode 1063
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Episode 1064
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Episode 1065
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Episode 1066
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Episode 1067
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Episode 1069
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1070
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Episode 1071
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Episode 1074
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Episode 1075
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Episode 1077
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Episode 1078
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Episode 1079
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Episode 1080
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Episode 1081
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Episode 1082
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1083

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Episode 1084
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Agent 1 | Total Reward: -5.50 | Epsilon: 0.100
Episode 1085
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Episode 1086
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Episode 1087
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Episode 1088
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Episode 1090
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Episode 1091
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Episode 1092
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Episode 1093
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Episode 1094
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Episode 1095
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Episode 1096
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Episode 1098
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Episode 1099
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Episode 1100
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Episode 1101
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Episode 1102
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1103
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1104
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1105
Agent 0 | Total Reward: -11.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1106
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1107
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1108
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1109
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1110
Agent 0 | Total Reward: -4.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100

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[illegible]

Agent 0 | Total Reward: -16.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1167
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Episode 1168
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Episode 1169
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1170
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1171
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Episode 1172
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Episode 1173
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Episode 1174
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1175
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1176
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1177
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1178
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Episode 1182
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Episode 1183
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Episode 1184
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1185
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1186
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Agent 1 | Total Reward: -5.50 | Epsilon: 0.100
Episode 1187
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Episode 1188
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1189
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Episode 1190
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1191
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Episode 1192
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1193
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100

Episode 1194
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1195
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Episode 1196
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Episode 1197
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1198
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Episode 1199
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Episode 1200
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Episode 1201
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Episode 1202
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Episode 1203
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1204
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Episode 1205
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Episode 1206
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1207
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1208
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1209
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1210
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1211
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1212
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1213
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1214
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1215
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1216
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1217
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1218
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1219
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1220
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1221
Agent 0 | Total Reward: -12.00 | Epsilon: 0.100

[illegible]

[illegible]

Episode 1277
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1278
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Episode 1279
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Episode 1280
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Episode 1281
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Episode 1282
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Episode 1283
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Episode 1284
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Episode 1285
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Episode 1286
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1287
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Episode 1292
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Episode 1303
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Episode 1304
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Episode 1314
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Episode 1319
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Episode 1320
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Episode 1323
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Episode 1324
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Episode 1325
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Episode 1327
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Episode 1328
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Episode 1329
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Episode 1330
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1331
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Episode 1332

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Episode 1333
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Episode 1335
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Episode 1336
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Episode 1337
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Episode 1338
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Episode 1339
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Episode 1340
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Episode 1341
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Episode 1342
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Episode 1343
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1344
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Episode 1345
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1346
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Episode 1347
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Episode 1348
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Episode 1349
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Episode 1359
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Episode 1360
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Episode 1362
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Episode 1364
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Episode 1366
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Episode 1370
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Episode 1375
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Episode 1376
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Episode 1378
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Episode 1387
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Episode 1389
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Episode 1390
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Episode 1391
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Episode 1399
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Episode 1415

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Episode 1419
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Episode 1425
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Episode 1426
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Episode 1427
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Episode 1428
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Episode 1429
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Episode 1430
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Episode 1431
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Episode 1432
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Episode 1433
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Episode 1439
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Episode 1440
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Episode 1441
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Episode 1442
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Episode 1443
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Episode 1444
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Episode 1445
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Episode 1446
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Episode 1447
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Episode 1448
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1449
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1450
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1451
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1452
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Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1454
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1455
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Episode 1456
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1457
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1458
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1459
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Episode 1460
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Episode 1461
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Episode 1462
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1463
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1464
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1465
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1466
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1467
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Episode 1468
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Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 1469
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1470
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1471
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Episode 1472
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Episode 1473
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Episode 1483
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Episode 1484
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Episode 1489
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Episode 1491
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Agent 1 | Total Reward: -11.50 | Epsilon: 0.100
Episode 1492
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1493
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Episode 1494
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
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Episode 1496
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Episode 1497
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Episode 1498

[illegible]

[illegible]

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Episode 1555
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Episode 1556
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Episode 1557
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Episode 1559
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Episode 1578
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Episode 1581

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Episode 1596
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Episode 1601
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Episode 1602
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Episode 1603
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Episode 1604
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Episode 1605
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Episode 1607
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Episode 1608
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Episode 1609
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Episode 1613
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Episode 1614
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Episode 1616
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Episode 1617
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Episode 1618
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Episode 1623
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Episode 1624
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Episode 1625
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Episode 1626
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Episode 1627
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Episode 1630
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Episode 1631
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Episode 1632
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Episode 1633
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Episode 1637
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Episode 1638
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Episode 1639
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Episode 1640
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Episode 1641
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Episode 1642
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Episode 1643
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Episode 1644
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Episode 1645
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Episode 1646
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Episode 1647
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Episode 1648
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Episode 1649
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Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 1650
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Episode 1651
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Episode 1652
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1653
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Episode 1654
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Episode 1655
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Episode 1656
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1657
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Episode 1658
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Episode 1659
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1660
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Episode 1661
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Episode 1662
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1663
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1664

[illegible]

Episode 1692
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Episode 1693
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Episode 1694
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1695
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1696
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Episode 1697
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1698
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Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 1699
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Episode 1700
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Episode 1701
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Episode 1704
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Episode 1711
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Episode 1713
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1714
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 1715
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1716
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -17.00 | Epsilon: 0.100
Episode 1717
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 1718
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1719
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100

Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1720
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1721
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1722
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1723
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1724
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1725
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1726
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1727
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1728
Agent 0 | Total Reward: -11.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1729
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1730
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1731
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1732
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1733
Agent 0 | Total Reward: -18.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1734
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1735
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1736
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 1737
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1738
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -15.00 | Epsilon: 0.100
Episode 1739
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1740
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1741
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -11.00 | Epsilon: 0.100
Episode 1742
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1743
Agent 0 | Total Reward: -12.00 | Epsilon: 0.100
Agent 1 | Total Reward: -4.00 | Epsilon: 0.100
Episode 1744
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 1745
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1746
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1747

[illegible]

Episode 1775
Agent 0 | Total Reward: -16.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 1776
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -12.00 | Epsilon: 0.100
Episode 1777
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1778
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1779
Agent 0 | Total Reward: -11.00 | Epsilon: 0.100
Agent 1 | Total Reward: -12.00 | Epsilon: 0.100
Episode 1780
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1781
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1782
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1783
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1784
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1785
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1786
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1787
Agent 0 | Total Reward: -11.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1788
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1789
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 1790
Agent 0 | Total Reward: -12.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1791
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: -11.50 | Epsilon: 0.100
Episode 1792
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 1793
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1794
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1795
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1796
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1797
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1798
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 1799
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1800
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1801
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1802
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100

Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1803
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -5.50 | Epsilon: 0.100
Episode 1804
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1805
Agent 0 | Total Reward: -21.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1806
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1807
Agent 0 | Total Reward: -13.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1808
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -5.50 | Epsilon: 0.100
Episode 1809
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1810
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1811
Agent 0 | Total Reward: -18.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1812
Agent 0 | Total Reward: -6.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1813
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -4.00 | Epsilon: 0.100
Episode 1814
Agent 0 | Total Reward: -14.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1815
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1816
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -17.00 | Epsilon: 0.100
Episode 1817
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1818
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1819
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1820
Agent 0 | Total Reward: -13.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1821
Agent 0 | Total Reward: -13.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1822
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1823
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1824
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1825
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1826
Agent 0 | Total Reward: -12.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1827
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 1828
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -14.00 | Epsilon: 0.100
Episode 1829
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1830

[illegible]

Episode 1858
Agent 0 | Total Reward: -13.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1859
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1860
Agent 0 | Total Reward: -11.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1861
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1862
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1863
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -14.00 | Epsilon: 0.100
Episode 1864
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1865
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1866
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1867
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1868
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1869
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1870
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1871
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1872
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1873
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -5.50 | Epsilon: 0.100
Episode 1874
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1875
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1876
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1877
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1878
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1879
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1880
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1881
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1882
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1883
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1884
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1885
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100

[illegible]

Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1914
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1915
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1916
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1917
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1918
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1919
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1920
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1921
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -17.50 | Epsilon: 0.100
Episode 1922
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1923
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1924
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1925
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1926
Agent 0 | Total Reward: -13.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1927
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1928
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1929
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1930
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1931
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1932
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1933
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1934
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1935
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1936
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1937
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1938
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1939
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1940
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100

Episode 1941
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1942
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1943
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1944
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1945
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1946
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1947
Agent 0 | Total Reward: -12.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1948
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1949
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1950
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1951
Agent 0 | Total Reward: -4.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1952
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1953
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1954
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1955
Agent 0 | Total Reward: -20.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1956
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1957
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1958
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1959
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 1960
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1961
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1962
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1963
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1964
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1965
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1966
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1967
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 1968
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100

Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1969
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1970
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1971
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1972
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1973
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1974
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1975
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1976
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1977
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1978
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1979
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1980
Agent 0 | Total Reward: -4.50 | Epsilon: 0.100
Agent 1 | Total Reward: -5.50 | Epsilon: 0.100
Episode 1981
Agent 0 | Total Reward: -11.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1982
Agent 0 | Total Reward: -19.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1983
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: -11.50 | Epsilon: 0.100
Episode 1984
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1985
Agent 0 | Total Reward: -12.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1986
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1987
Agent 0 | Total Reward: -11.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1988
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1989
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1990
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 1991
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1992
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1993
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 1994
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1995
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 1996

Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 1997
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 1998
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 1999
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2000
Agent 0 | Total Reward: -6.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2001
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2002
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2003
Agent 0 | Total Reward: -13.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2004
Agent 0 | Total Reward: -13.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2005
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2006
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2007
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2008
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2009
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 2010
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2011
Agent 0 | Total Reward: -11.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2012
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2013
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2014
Agent 0 | Total Reward: -12.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2015
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2016
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2017
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2018
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2019
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2020
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2021
Agent 0 | Total Reward: -12.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2022
Agent 0 | Total Reward: -16.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2023
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100

Episode 2024
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2025
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2026
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2027
Agent 0 | Total Reward: -14.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2028
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2029
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2030
Agent 0 | Total Reward: -26.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2031
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2032
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2033
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2034
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2035
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2036
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2037
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2038
Agent 0 | Total Reward: -12.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 2039
Agent 0 | Total Reward: -16.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2040
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2041
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 2042
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2043
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2044
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2045
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2046
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2047
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2048
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -12.50 | Epsilon: 0.100
Episode 2049
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2050
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2051
Agent 0 | Total Reward: -13.00 | Epsilon: 0.100

Agent 0	Total Reward:	2.00	Epsilon:	0.100
Episode 2052				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2053				
Agent 0	Total Reward:	-4.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2054				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2055				
Agent 0	Total Reward:	-11.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2056				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	-18.00	Epsilon:	0.100
Episode 2057				
Agent 0	Total Reward:	-13.00	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2058				
Agent 0	Total Reward:	-18.50	Epsilon:	0.100
Agent 1	Total Reward:	-10.00	Epsilon:	0.100
Episode 2059				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2060				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2061				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2062				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2063				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2064				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2065				
Agent 0	Total Reward:	-1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2066				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	-1.00	Epsilon:	0.100
Episode 2067				
Agent 0	Total Reward:	-19.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2068				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2069				
Agent 0	Total Reward:	-12.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2070				
Agent 0	Total Reward:	-12.50	Epsilon:	0.100
Agent 1	Total Reward:	-1.00	Epsilon:	0.100
Episode 2071				
Agent 0	Total Reward:	-1.50	Epsilon:	0.100
Agent 1	Total Reward:	-1.00	Epsilon:	0.100
Episode 2072				
Agent 0	Total Reward:	-1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2073				
Agent 0	Total Reward:	-10.50	Epsilon:	0.100
Agent 1	Total Reward:	-2.50	Epsilon:	0.100
Episode 2074				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2075				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2076				
Agent 0	Total Reward:	-1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2077				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2078				
Agent 0	Total Reward:	-1.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2079				

[illegible]

Episode 2107
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2108
Agent 0 | Total Reward: -16.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2109
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2110
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2111
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2112
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2113
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2114
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2115
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 2116
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2117
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2118
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2119
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Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 2120
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Episode 2121
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2122
Agent 0 | Total Reward: -20.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2123
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Episode 2124
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2125
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2126
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2127
Agent 0 | Total Reward: -17.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2128
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2129
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2130
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2131
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: -4.00 | Epsilon: 0.100
Episode 2132
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2133
Agent 0 | Total Reward: -18.50 | Epsilon: 0.100
Agent 1 | Total Reward: -4.00 | Epsilon: 0.100
Episode 2134
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100

Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2135
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2136
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2137
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2138
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Agent 1 | Total Reward: -19.50 | Epsilon: 0.100
Episode 2139
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2140
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2141
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2142
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Agent 1 | Total Reward: -17.50 | Epsilon: 0.100
Episode 2143
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2144
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2145
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2146
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2147
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2148
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2149
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2150
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2151
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Episode 2152
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2153
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -19.00 | Epsilon: 0.100
Episode 2154
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -4.00 | Epsilon: 0.100
Episode 2155
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2156
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2157
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2158
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2159
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2160
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 2161
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2162

Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2163
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2164
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2165
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2166
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2167
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 2168
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -16.50 | Epsilon: 0.100
Episode 2169
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2170
Agent 0 | Total Reward: -12.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2171
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -21.00 | Epsilon: 0.100
Episode 2172
Agent 0 | Total Reward: -6.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2173
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2174
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 2175
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2176
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2177
Agent 0 | Total Reward: -14.00 | Epsilon: 0.100
Agent 1 | Total Reward: -4.00 | Epsilon: 0.100
Episode 2178
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2179
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2180
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2181
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2182
Agent 0 | Total Reward: -12.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 2183
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 2184
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2185
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2186
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 2187
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2188
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2189
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100

[illegible]

Agent 0	Total Reward:	0.50	Epsilon:	0.100
Episode 2218				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	-1.00	Epsilon:	0.100
Episode 2219				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2220				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2221				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2222				
Agent 0	Total Reward:	-13.00	Epsilon:	0.100
Agent 1	Total Reward:	-4.00	Epsilon:	0.100
Episode 2223				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2224				
Agent 0	Total Reward:	-3.00	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2225				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2226				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2227				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2228				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2229				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2230				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2231				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2232				
Agent 0	Total Reward:	-10.00	Epsilon:	0.100
Agent 1	Total Reward:	-1.00	Epsilon:	0.100
Episode 2233				
Agent 0	Total Reward:	-10.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2234				
Agent 0	Total Reward:	-4.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2235				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2236				
Agent 0	Total Reward:	-3.00	Epsilon:	0.100
Agent 1	Total Reward:	-4.00	Epsilon:	0.100
Episode 2237				
Agent 0	Total Reward:	-3.00	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2238				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	-10.50	Epsilon:	0.100
Episode 2239				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2240				
Agent 0	Total Reward:	-10.00	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2241				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	-10.00	Epsilon:	0.100
Episode 2242				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2243				
Agent 0	Total Reward:	-18.50	Epsilon:	0.100
Agent 1	Total Reward:	-20.00	Epsilon:	0.100
Episode 2244				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2245				

Agent 0 | Total Reward: -11.00 | Epsilon: 0.100
Agent 1 | Total Reward: -16.00 | Epsilon: 0.100
Episode 2246
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2247
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -21.00 | Epsilon: 0.100
Episode 2248
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2249
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -4.00 | Epsilon: 0.100
Episode 2250
Agent 0 | Total Reward: -17.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2251
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2252
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -17.00 | Epsilon: 0.100
Episode 2253
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2254
Agent 0 | Total Reward: -12.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2255
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2256
Agent 0 | Total Reward: -4.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2257
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2258
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2259
Agent 0 | Total Reward: -12.00 | Epsilon: 0.100
Agent 1 | Total Reward: -19.50 | Epsilon: 0.100
Episode 2260
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2261
Agent 0 | Total Reward: -12.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2262
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2263
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2264
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2265
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2266
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2267
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2268
Agent 0 | Total Reward: -16.50 | Epsilon: 0.100
Agent 1 | Total Reward: -19.00 | Epsilon: 0.100
Episode 2269
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2270
Agent 0 | Total Reward: -11.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2271
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2272
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -5.50 | Epsilon: 0.100

[illegible]

Agent 0	Total Reward:	2.00	Epsilon:	0.100
Episode 2301				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2302				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	-10.00	Epsilon:	0.100
Episode 2303				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2304				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	-10.00	Epsilon:	0.100
Episode 2305				
Agent 0	Total Reward:	-11.50	Epsilon:	0.100
Agent 1	Total Reward:	-2.50	Epsilon:	0.100
Episode 2306				
Agent 0	Total Reward:	-18.00	Epsilon:	0.100
Agent 1	Total Reward:	-19.50	Epsilon:	0.100
Episode 2307				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2308				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2309				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2310				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	-1.00	Epsilon:	0.100
Episode 2311				
Agent 0	Total Reward:	-17.50	Epsilon:	0.100
Agent 1	Total Reward:	-10.00	Epsilon:	0.100
Episode 2312				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2313				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2314				
Agent 0	Total Reward:	-18.50	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2315				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2316				
Agent 0	Total Reward:	-1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2317				
Agent 0	Total Reward:	-1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2318				
Agent 0	Total Reward:	-13.00	Epsilon:	0.100
Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 2319				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	-1.00	Epsilon:	0.100
Episode 2320				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2321				
Agent 0	Total Reward:	-1.50	Epsilon:	0.100
Agent 1	Total Reward:	-1.00	Epsilon:	0.100
Episode 2322				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	-2.50	Epsilon:	0.100
Episode 2323				
Agent 0	Total Reward:	0.00	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2324				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	-10.00	Epsilon:	0.100
Episode 2325				
Agent 0	Total Reward:	-1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2326				
Agent 0	Total Reward:	1.50	Epsilon:	0.100
Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 2327				
Agent 0	Total Reward:	-1.50	Epsilon:	0.100
Agent 1	Total Reward:	-1.00	Epsilon:	0.100
Episode 2328				

Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2329
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -19.50 | Epsilon: 0.100
Episode 2330
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2331
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2332
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2333
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2334
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2335
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2336
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2337
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2338
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2339
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2340
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2341
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2342
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2343
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2344
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 2345
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2346
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2347
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2348
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2349
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2350
Agent 0 | Total Reward: -11.00 | Epsilon: 0.100
Agent 1 | Total Reward: -11.50 | Epsilon: 0.100
Episode 2351
Agent 0 | Total Reward: -11.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2352
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2353
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2354
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2355
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100

Episode 2356
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2357
Agent 0 | Total Reward: -12.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2358
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2359
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2360
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2361
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2362
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 2363
Agent 0 | Total Reward: -11.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2364
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2365
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2366
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2367
Agent 0 | Total Reward: -23.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2368
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2369
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2370
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: -21.00 | Epsilon: 0.100
Episode 2371
Agent 0 | Total Reward: -6.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2372
Agent 0 | Total Reward: -4.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 2373
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 2374
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2375
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2376
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 2377
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2378
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 2379
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2380
Agent 0 | Total Reward: -4.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2381
Agent 0 | Total Reward: -11.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2382
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2383
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100

Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2384
Agent 0 | Total Reward: -20.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2385
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2386
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2387
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2388
Agent 0 | Total Reward: -11.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2389
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2390
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2391
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2392
Agent 0 | Total Reward: -20.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2393
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2394
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2395
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2396
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2397
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2398
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2399
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 2400
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 2401
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2402
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2403
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2404
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 2405
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2406
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 2407
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2408
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2409
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 2410
Agent 0 | Total Reward: -14.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2411

[illegible]

Episode 2439
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2440
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2441
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2442
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2443
Agent 0 | Total Reward: -11.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2444
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2445
Agent 0 | Total Reward: -13.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 2446
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2447
Agent 0 | Total Reward: -18.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 2448
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[illegible]

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Episode 2850
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Episode 2851
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Episode 2854
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Episode 2862
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Episode 2908
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Episode 2909

[illegible]

[illegible]

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Episode 2992

[illegible]

[illegible]

[illegible]

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Episode 3158

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Episode 3160
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3161
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 3162
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3164
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 3165
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Episode 3166
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 3167
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 3168
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 3169
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
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Episode 3171
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
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Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3176
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 3181
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3185
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100

[illegible]

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Episode 3215
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Episode 3216
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Episode 3217
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Episode 3218
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Episode 3219
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Episode 3220
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
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Episode 3230
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Episode 3231
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Episode 3232
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 3237
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3240
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 3241

[illegible]

Episode 3269
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Episode 3270
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Episode 3271
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
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Episode 3280
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Episode 3299
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Episode 3300
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Episode 3317
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Episode 3324

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Episode 3325
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Episode 3341
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Episode 3350
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Episode 3351
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Episode 3352
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Episode 3364
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Episode 3370
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Episode 3371
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Episode 3375
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Episode 3380
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Episode 3381
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Agent 1 | Total Reward: -4.00 | Epsilon: 0.100
Episode 3394
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 3396
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
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Episode 3407

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Episode 3490

[illegible]

[illegible]

[illegible]

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Episode 3656

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Episode 3845
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 3846
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Episode 3847
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Episode 3848
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Agent 1 | Total Reward: -20.50 | Epsilon: 0.100
Episode 3849
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100

Episode 3850
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3851
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3852
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Episode 3853
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 3854
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 3855
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 3856
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Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 3857
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Episode 3858
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3859
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3860
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Episode 3861
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Episode 3862
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 3863
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Episode 3864
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Episode 3865
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 3866
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3867
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Episode 3868
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Episode 3869
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Episode 3871
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Episode 3873
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Episode 3875
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Episode 3876
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Episode 3877
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3878
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Episode 3879
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Episode 3880
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Episode 3881
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Episode 3882
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Episode 3883
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Episode 3884
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Episode 3886
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3888
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Episode 3890
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 3891
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Episode 3892
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3893
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Agent 1 | Total Reward: -21.00 | Epsilon: 0.100
Episode 3894
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Episode 3895
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Episode 3896
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Episode 3897
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 3898
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3899
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 3900
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3901
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3902
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3903
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 3904
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Episode 3905

[illegible]

Episode 3933
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Episode 3934
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 3935
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3936
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 3937
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 3938
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Agent 1 | Total Reward: -4.00 | Epsilon: 0.100
Episode 3939
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Episode 3940
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Episode 3941
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Episode 3942
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Episode 3943
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Episode 3944
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Episode 3945
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Episode 3946
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Episode 3947
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Episode 3948
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Episode 3950
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Episode 3951
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Episode 3952
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Episode 3953
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Episode 3954
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Episode 3955
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Episode 3956
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Episode 3957
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Episode 3958
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Episode 3959
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Episode 3960
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Episode 3961				
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Episode 3962				
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Episode 3963				
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Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 3964				
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Episode 3965				
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Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 3966				
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Episode 3967				
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Agent 1	Total Reward:	-10.00	Epsilon:	0.100
Episode 3968				
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Agent 1	Total Reward:	-1.00	Epsilon:	0.100
Episode 3969				
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Episode 3970				
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Episode 3971				
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Episode 3972				
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Agent 1	Total Reward:	-1.00	Epsilon:	0.100
Episode 3973				
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Episode 3974				
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Episode 3975				
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Episode 3976				
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Agent 1	Total Reward:	0.50	Epsilon:	0.100
Episode 3977				
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Agent 1	Total Reward:	-1.00	Epsilon:	0.100
Episode 3978				
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Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 3979				
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Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 3980				
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Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 3981				
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Episode 3982				
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Episode 3983				
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Episode 3984				
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Episode 3985				
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Episode 3986				
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Episode 3987				
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Agent 1	Total Reward:	2.00	Epsilon:	0.100
Episode 3988				

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Episode 3989
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Episode 3990
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Episode 3991
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Episode 3992
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Episode 3993
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Episode 3994
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Episode 3996
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Episode 3997
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Episode 3999
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Episode 4002
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Episode 4011
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Episode 4012
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Episode 4013
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Episode 4014
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4015
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Episode 4016
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Episode 4017
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Episode 4018
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Episode 4019
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Episode 4020
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Episode 4021
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Episode 4022
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Episode 4023
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Episode 4024
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Episode 4025
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4026
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Episode 4027
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Episode 4028
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Episode 4029
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Episode 4030
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4031
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Episode 4032
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4033
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4034
Agent 0 | Total Reward: -14.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4035
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4036
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4037
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4038
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4039
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4040
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Episode 4041
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4042
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4043
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Episode 4044
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Episode 4045
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4046
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Episode 4047
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Episode 4048
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Episode 4049
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4050
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4051
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4052
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4053
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -11.50 | Epsilon: 0.100
Episode 4054
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Episode 4055
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Episode 4056
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Episode 4057
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Episode 4058
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4059
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Episode 4060
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Episode 4061
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4062
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4063
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Episode 4064
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4065
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4066
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4067
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4068
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4069
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4070
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4071

[illegible]

Episode 4099
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4100
Agent 0 | Total Reward: -20.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4101
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Episode 4102
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
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Episode 4110
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Episode 4111
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Episode 4112
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Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4119
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Episode 4153
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Episode 4154

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Episode 4200
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Episode 4201
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Episode 4204
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Episode 4207
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Episode 4209
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Episode 4210
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Episode 4211
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Episode 4215
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Episode 4216
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Episode 4217
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Episode 4218
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Episode 4219
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Episode 4220
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Episode 4222
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Episode 4223
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Episode 4224
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Episode 4225
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Episode 4226
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Episode 4227
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Episode 4228
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Episode 4229
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Episode 4230
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Episode 4231
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Episode 4232
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Episode 4234
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Episode 4235
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4236
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Episode 4237

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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Episode 4380
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Episode 4381
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Episode 4382
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Episode 4383
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Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 4384
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Episode 4385
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Episode 4386
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4387
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Episode 4388
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Episode 4390
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4391
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Episode 4392
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Agent 1 | Total Reward: -11.00 | Epsilon: 0.100
Episode 4393
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4394
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Episode 4395
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Episode 4396
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4397
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4398
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Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 4399
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Episode 4400
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Episode 4402
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Episode 4403

[illegible]

[illegible]

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Episode 4638
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Episode 4639
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Episode 4640
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Episode 4641
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4642
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4643
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4644
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4645
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4646
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4647
Agent 0 | Total Reward: -13.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4648
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -11.00 | Epsilon: 0.100
Episode 4649
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4650
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4651
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4652

Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4653
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4654
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4655
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4656
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4657
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4658
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4659
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4660
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Episode 4661
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4662
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Episode 4663
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4664
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4665
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4666
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Episode 4667
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Episode 4668
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Episode 4669
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Episode 4670
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4671
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Agent 1 | Total Reward: -12.50 | Epsilon: 0.100
Episode 4672
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4673
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4674
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Agent 1 | Total Reward: -11.50 | Epsilon: 0.100
Episode 4675
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4676
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Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 4677
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4678
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Agent 1 | Total Reward: -16.50 | Epsilon: 0.100
Episode 4679
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100

Episode 4680
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4682
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4683
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Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 4684
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4685
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4686
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4687
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4688
Agent 0 | Total Reward: -19.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4689
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4690
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4691
Agent 0 | Total Reward: -14.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4692
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 4693
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -11.00 | Epsilon: 0.100
Episode 4694
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4695
Agent 0 | Total Reward: -11.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4696
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4697
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4698
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4699
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4700
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4701
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4702
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4703
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4704
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4705
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4706
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4707
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100

Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4708
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 4709
Agent 0 | Total Reward: -18.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4710
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4711
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4712
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4713
Agent 0 | Total Reward: -4.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4714
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4715
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4716
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4717
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4718
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4719
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Agent 1 | Total Reward: -19.50 | Epsilon: 0.100
Episode 4720
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4721
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4722
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Episode 4723
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4724
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4725
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4726
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 4727
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4728
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4729
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4730
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Agent 1 | Total Reward: -22.00 | Epsilon: 0.100
Episode 4731
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4732
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4733
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -22.50 | Epsilon: 0.100
Episode 4734
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4735

[illegible]

Episode 4763
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Episode 4764
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Episode 4765
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4766
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4767
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4768
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4769
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4770
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4771
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4772
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4773
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4774
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Episode 4775
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Episode 4776
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Episode 4777
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Episode 4778
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Episode 4779
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Episode 4780
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Episode 4781
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Episode 4782
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Episode 4783
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Episode 4784
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Episode 4785
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Episode 4786
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Episode 4787
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Agent 1 | Total Reward: -4.00 | Epsilon: 0.100
Episode 4788
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4789
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4790
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Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4791
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4792
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4793
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4794
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4795
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4796
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4797
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4798
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4799
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4800
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4801
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4802
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Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4803
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Agent 1 | Total Reward: -12.50 | Epsilon: 0.100
Episode 4804
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Episode 4805
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4806
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4807
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Episode 4808
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Agent 1 | Total Reward: -19.50 | Epsilon: 0.100
Episode 4809
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4810
Agent 0 | Total Reward: -12.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4811
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4812
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4813
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4814
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 4815
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -20.50 | Epsilon: 0.100
Episode 4816
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4817
Agent 0 | Total Reward: -4.50 | Epsilon: 0.100
Agent 1 | Total Reward: -16.00 | Epsilon: 0.100
Episode 4818

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Episode 4846
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4847
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Episode 4848
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4849
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4850
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4851
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4852
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4853
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -13.50 | Epsilon: 0.100
Episode 4854
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 4855
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4856
Agent 0 | Total Reward: -18.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4857
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4858
Agent 0 | Total Reward: -14.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4859
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4860
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4861
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Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4862
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Agent 1 | Total Reward: -5.50 | Epsilon: 0.100
Episode 4863
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4864
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Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4865
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 4866
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4867
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4868
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4869
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4870
Agent 0 | Total Reward: -11.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 4871
Agent 0 | Total Reward: -7.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4872
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4873
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100

Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4874
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4875
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4876
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4877
Agent 0 | Total Reward: -18.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4878
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4879
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4880
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4881
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4882
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4883
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4884
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4885
Agent 0 | Total Reward: -18.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4886
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -19.00 | Epsilon: 0.100
Episode 4887
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4888
Agent 0 | Total Reward: -14.50 | Epsilon: 0.100
Agent 1 | Total Reward: -21.00 | Epsilon: 0.100
Episode 4889
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4890
Agent 0 | Total Reward: -21.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4891
Agent 0 | Total Reward: -18.50 | Epsilon: 0.100
Agent 1 | Total Reward: -4.00 | Epsilon: 0.100
Episode 4892
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4893
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4894
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4895
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4896
Agent 0 | Total Reward: -11.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4897
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4898
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -16.50 | Epsilon: 0.100
Episode 4899
Agent 0 | Total Reward: -18.50 | Epsilon: 0.100
Agent 1 | Total Reward: -19.50 | Epsilon: 0.100
Episode 4900
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4901

Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 4902
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4903
Agent 0 | Total Reward: -14.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4904
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4905
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4906
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4907
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4908
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4909
Agent 0 | Total Reward: -11.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4910
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4911
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4912
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4913
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4914
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4915
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4916
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4917
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4918
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4919
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4920
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -12.50 | Epsilon: 0.100
Episode 4921
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4922
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4923
Agent 0 | Total Reward: -18.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4924
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4925
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -11.50 | Epsilon: 0.100
Episode 4926
Agent 0 | Total Reward: -15.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4927
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4928
Agent 0 | Total Reward: -20.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100

Episode 4929
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4930
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4931
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4932
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4933
Agent 0 | Total Reward: -21.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4934
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -20.50 | Epsilon: 0.100
Episode 4935
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4936
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4937
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -14.50 | Epsilon: 0.100
Episode 4938
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.00 | Epsilon: 0.100
Episode 4939
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4940
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4941
Agent 0 | Total Reward: -14.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4942
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -7.00 | Epsilon: 0.100
Episode 4943
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4944
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: -11.50 | Epsilon: 0.100
Episode 4945
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 4946
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4947
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4948
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4949
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4950
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -11.00 | Epsilon: 0.100
Episode 4951
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4952
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4953
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4954
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4955
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4956
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100

Agent 1 | Total Reward: -13.50 | Epsilon: 0.100
Episode 4957
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4958
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4959
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4960
Agent 0 | Total Reward: -11.50 | Epsilon: 0.100
Agent 1 | Total Reward: -10.50 | Epsilon: 0.100
Episode 4961
Agent 0 | Total Reward: -4.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4962
Agent 0 | Total Reward: -12.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4963
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4964
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4965
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4966
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4967
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4968
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4969
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4970
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4971
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4972
Agent 0 | Total Reward: -12.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4973
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4974
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4975
Agent 0 | Total Reward: -18.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4976
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4977
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4978
Agent 0 | Total Reward: -3.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4979
Agent 0 | Total Reward: -11.00 | Epsilon: 0.100
Agent 1 | Total Reward: -18.00 | Epsilon: 0.100
Episode 4980
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4981
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4982
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4983
Agent 0 | Total Reward: -4.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4984

```

Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4985
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4986
Agent 0 | Total Reward: -12.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4987
Agent 0 | Total Reward: -10.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4988
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4989
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4990
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4991
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4992
Agent 0 | Total Reward: -10.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4993
Agent 0 | Total Reward: -11.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4994
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100
Episode 4995
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 0.50 | Epsilon: 0.100
Episode 4996
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: -5.50 | Epsilon: 0.100
Episode 4997
Agent 0 | Total Reward: 0.00 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 4998
Agent 0 | Total Reward: -18.50 | Epsilon: 0.100
Agent 1 | Total Reward: -2.50 | Epsilon: 0.100
Episode 4999
Agent 0 | Total Reward: 1.50 | Epsilon: 0.100
Agent 1 | Total Reward: 2.00 | Epsilon: 0.100
Episode 5000
Agent 0 | Total Reward: -1.50 | Epsilon: 0.100
Agent 1 | Total Reward: -1.00 | Epsilon: 0.100

```

Step 5 : Plot the Rewards per episodes for Multiple Agents

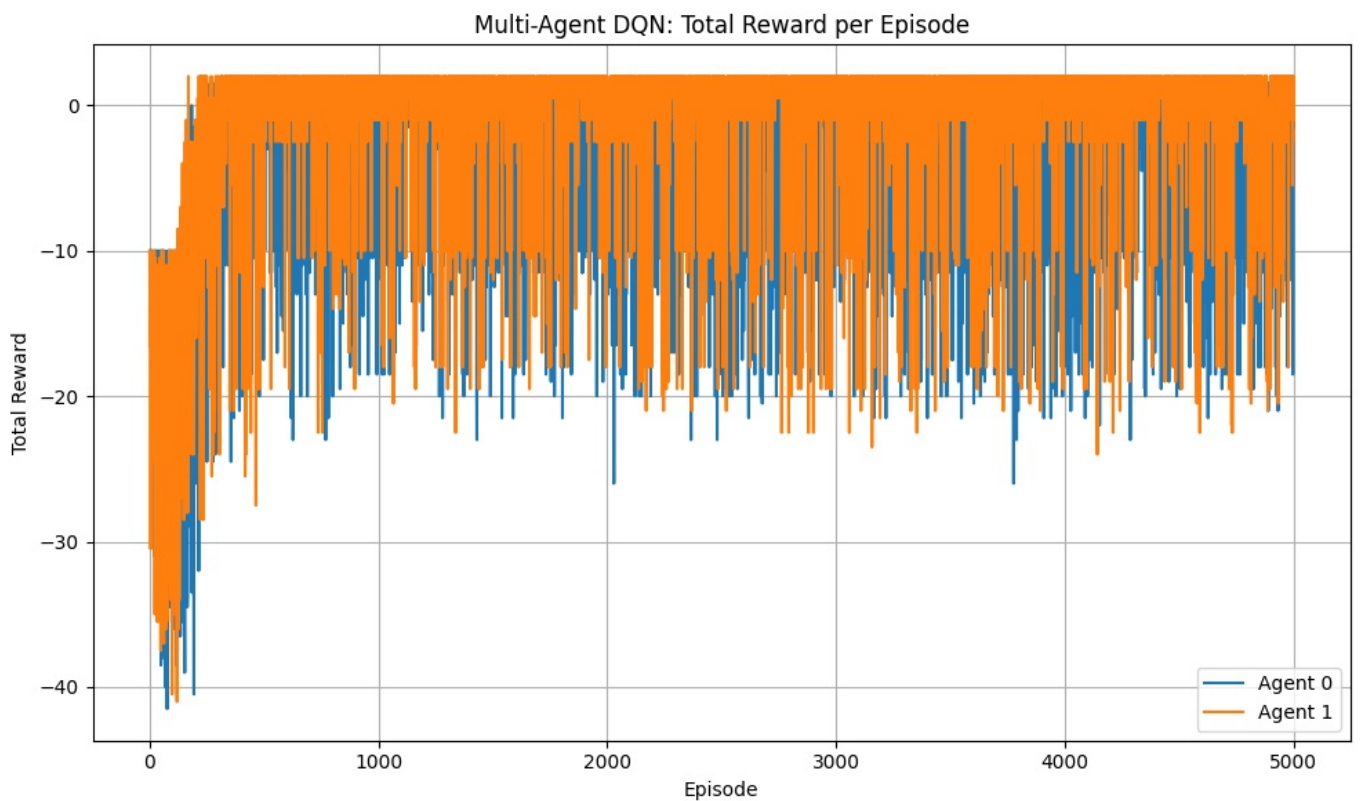
```

In [24]: import matplotlib.pyplot as plt

def plot_rewards(rewards_per_agent):
    """
    Plot total rewards per episode for multiple agents.
    Input:
        rewards_per_agent: List of lists where each inner list is the reward history of one agent.
    """
    plt.figure(figsize=(10, 6))
    for i, rewards in enumerate(rewards_per_agent):
        plt.plot(rewards, label=f"Agent {i}")
    plt.title("Multi-Agent DQN: Total Reward per Episode")
    plt.xlabel("Episode")
    plt.ylabel("Total Reward")
    plt.legend()
    plt.grid(True)
    plt.tight_layout()
    plt.show()

# Example usage:
plot_rewards(rewards) # where 'rewards' is returned from train_multi_agent_dqn()

```



Note : trained the model again

Interpretation

1. The first phase, which includes episodes 0–500:

- Very low and negative rewards—as low as -40 to -50—are given to both agents.
- Shows erratic behaviour and repeated sanctions because of:
 - Invalid behaviour
 - Wandering without completing a task
 - Potential collisions, assuming they are modelled

2. Phase of Learning (~500–1500):

- Rewards are clearly on the rise.
- Better navigation techniques are taught to both agents.
- Although there is variability, there are noticeable advancements.

3. Stability (about 1500–5000):

- The majority of episodes produce rewards that are nearly zero (and sometimes higher). Goal-reaching behaviour; fewer penalties per episode; and sporadic drops brought on by exploration or more challenging environmental circumstances are some indicators.
- It appears that Agent 1 (orange) performs somewhat better than Agent 0 (more constant higher payouts).

Step 6 : Visualizing Multi Trained Agents

```
In [25]: import time
from IPython.display import clear_output
import torch
import matplotlib.pyplot as plt

# Define grid display for multiple agents
def display_multi_agent_grid(positions, goal, obstacles, grid_size=(10, 10)):
    grid = ""
    for i in range(grid_size[0]):
        for j in range(grid_size[1]):
            cell = " "
            for k, pos in enumerate(positions):
                if (i, j) == pos:
                    cell = f"{k} "
            if (i, j) == goal:
                cell = "G"
            elif (i, j) in obstacles:
                cell = "X"
            grid += cell + " "
        grid += "\n"
    return grid
```

```
# Visualize step-by-step movements of trained agents and print all grid states
def visualize_multi_agent(env, model_list, device, delay=0.5):
    states = env.reset()
    done_flags = [False] * env.n_agents
    all_paths = [[pos] for pos in states]

    step = 0
    print(" Visualizing trained agents on 10x10 grid...\n")
    while not all(done_flags):
        print(f"Step {step}:")
        grid_snapshot = display_multi_agent_grid(states, env.goal, env.obstacles)
        print(grid_snapshot)
        time.sleep(delay)

        actions = []
        for i, state in enumerate(states):
            if done_flags[i]:
                actions.append(0)
            else:
                with torch.no_grad():
                    s_tensor = torch.FloatTensor(state).unsqueeze(0).to(device)
                    action = model_list[i](s_tensor).argmax().item()
                    actions.append(action)

        next_states, _, dones = env.step([env.actions[a] for a in actions])
        for i in range(env.n_agents):
            if not done_flags[i]:
                all_paths[i].append(next_states[i])
            done_flags[i] = done_flags[i] or dones[i]
        states = next_states
        step += 1

    print(f"Final Step {step}:")
    print(display_multi_agent_grid(states, env.goal, env.obstacles))
    for i, path in enumerate(all_paths):
        print(f"\nAgent {i} final path:")
        for step, pos in enumerate(path):
            print(f" Step {step+1}: {pos}")
```

```
In [26]: multi_env = MultiAgentWarehouse(goal=(9, 9), obstacles=[(2, 2), (3, 3)], n_agents=2)
visualize_multi_agent(multi_env, models, device)
```

Visualizing trained agents on 10x10 grid...

Step 0:

```
0 1  0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0  0 0 0 0 0 0 0 0
0 0 0  0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0  0
```

Step 1:

```
0 0 1 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0  0 0 0 0 0 0 0 0
0 0 0  0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0  0
```

Step 2:

```
0 0 0 1 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0  0 0 0 0 0 0 0 0
0 0 0  0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0  0
```

Step 3:

```
0 0 0 0 1 0 0 0 0 0
```

Step 4:

Step 5:

Step 6:

Step 7:

Step 8:

Step 9:

Step 10:

Step 11:

Step 12:

Step 13:

Step 14:

Step 15:

Step 16:

Step 17:

```
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Final Step 18:

```
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```

Agent 0 final path:

```
Step 1: (0, 0)
Step 2: (0, 1)
Step 3: (0, 2)
Step 4: (0, 3)
Step 5: (1, 3)
Step 6: (2, 3)
Step 7: (2, 4)
Step 8: (3, 4)
Step 9: (4, 4)
Step 10: (5, 4)
Step 11: (5, 5)
Step 12: (6, 5)
Step 13: (7, 5)
Step 14: (8, 5)
Step 15: (8, 6)
Step 16: (8, 7)
Step 17: (8, 8)
Step 18: (8, 9)
Step 19: (9, 9)
```

Agent 1 final path:

```
Step 1: (0, 1)
Step 2: (0, 2)
Step 3: (0, 3)
Step 4: (0, 4)
Step 5: (1, 4)
Step 6: (2, 4)
Step 7: (3, 4)
Step 8: (4, 4)
Step 9: (5, 4)
Step 10: (6, 4)
Step 11: (7, 4)
Step 12: (7, 5)
Step 13: (7, 6)
Step 14: (8, 6)
Step 15: (8, 7)
Step 16: (8, 8)
Step 17: (8, 9)
Step 18: (9, 9)
```

Training Performance (Reward per Episode)

Q-Learning (United States)

Training Curve

- The training curve begins with minimal rewards and varies between -30 and -50.
- It progressively gets better until roughly episode 1000, at which point it stabilizes at 0.
- Periodic drops in reward brought on either exploration or less-than-ideal decisions.
 - Interpretation: Through tabular updates, the agent gradually learns the best course of action. Because there is no function approximation, it finally converges but with variations.

Single Agent DQN

Training Curve

- Has minimal rewards at first, much like Q-learning.
- Acquires knowledge faster and stabilizes rewards close to zero faster.
- Because of stochastic exploration (epsilon-greedy), there are persistent little reward dips.
 - Interpretation: Neural network generalization speeds up convergence and aids in learning a smoother value function.

Multi-Agent DQN

Training Curve for Multi-Agent DQN (two agents):

- The learning behaviours of the two agents are comparable.
- Around episode 1000, rewards for both agents increase and level off at zero.
- A little noisier because of agent interactions (non-stationarity).
 - Interpretation: DQN performs well in multi-agent training; nevertheless, as agents influence one another's surroundings, there is more unpredictability. Both eventually pick up efficient policies.

Comparison of Path and Movement

Single Agent Q-Learning

- The agent takes a direct, effective route to the objective.
- Movement involves avoiding roadblocks and making steady movement toward the objective.
- There is no going back, which suggests a well-learned policy.

DQN (Single Agent)

- Every action is purposefully and strategically focused toward the objective.
- Because of neural approximation of future rewards, this approach is marginally superior to Q-learning.

DQN with Multiple Agents

- The two agents move in unison and arrive at the objective without running into each other.
- Agents occupy distinct rows and columns, indicating learned cooperation, demonstrating coordination.
- Good for decentralized policies; demonstrates that agents know one another.

Comparison

Aspect	Q-Learning (Single Agent)	DQN (Single Agent)	Multi-Agent DQN
Learning Speed	Slower convergence	Faster convergence	Moderate (due to 2 agents)
Reward Stability	High fluctuation	Lower fluctuation	Higher fluctuation (interference)
Path Efficiency	Optimal after learning	More optimal, fewer steps	Coordinated and efficient
Scalability	Not scalable	Scalable via neural network	Handles multiple agents effectively
Cooperation Needed	No	No	Yes – Successfully achieved

Concluding Remarks

- DQN is obviously superior in terms of convergence speed, efficiency, and scalability
- Q-Learning functions, but its flexibility and generalization are constrained.
- Multi-Agent DQN exhibits great potential since it teaches agents to collaborate, navigate effectively, and avoid collisions—all of which are critical for practical warehouse robotics applications.