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The WindyGridworldEnv Environment

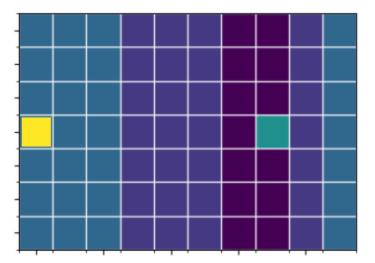
The WindyGridworldEnv Environment

In this exercise, you will examine another implementation of a grid world type environment, with a different reward structure.

Make sure that you have completed the setup requirements as described in the Set Up Lab Environments section.

Credit to Denny Britz for the implementation of the WindyGridworldEnv Environment

The WindyGridworld environment is a simple environment of a 7x10 tiles, which has "winds" that forced state transitions in certain state, irregardless to which action was taken.

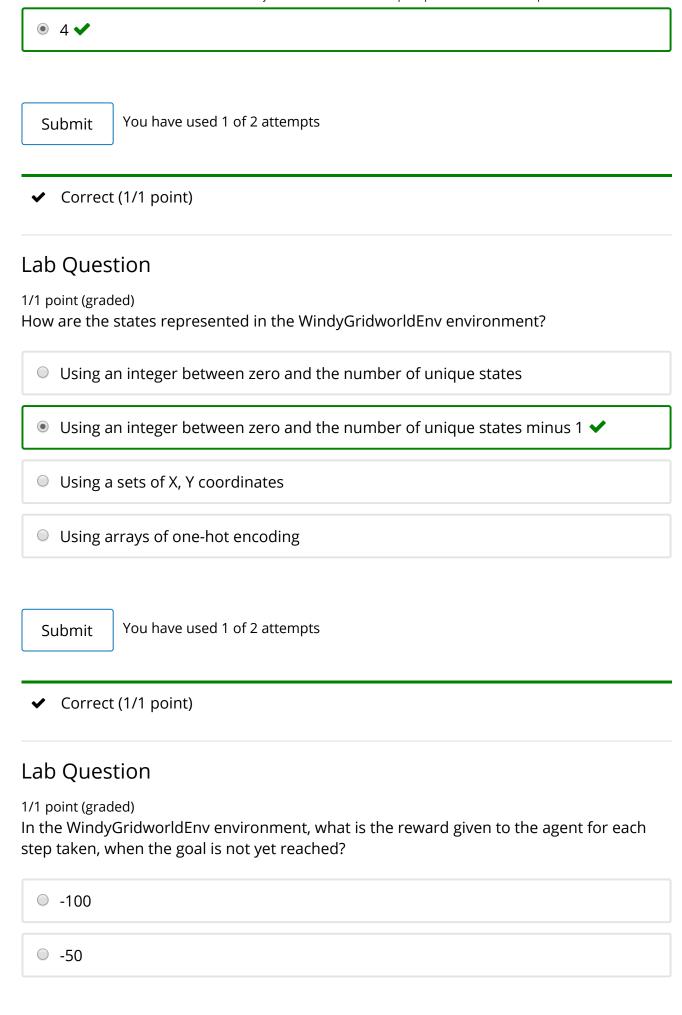


Examine the windy_gridworld.py file under the lib\envs folder. Specifically, take a look at the WindyGridworldEnv class. Similar to the CliffWalkingEnv class, the WindyGridworldEnv class implements the DiscreteEnv class from open Al's gym.envs.toy_text.discrete.

Take some time to study the implementation of this environment. Start by examining how the states are represented in this environment. Unlike the CliffWalkingEnv class, the WindyGridworldEnv class does not override the reset() and step() function from the DiscreteEnv class.

Once you are familiar with the code, answer the following questions.

Lab Question	
1/1 point (graded) How many unique states does the	e WindyGridworldEnv environment has?
O 16	
O 48	
● 70 ✔	
O 256	
Submit You have used 1 of 2 a	attempts
✓ Correct (1/1 point)	
Lab Question 1/1 point (graded) How many unique actions can an	agent perform in the WindyGridworldEnv environment?
O 0	
0 1	
© 2	



O 1	
0 1	
O 50	
0 100	
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Submit

You have used 1 of 2 attempts

✓ Correct (1/1 point)

Lab Question

1/1 point (graded)

When will an episode ends in the WindyGridworldEnv environment (when will the environment reset)?

- When the agent has taken 5 steps
- When the agent has taken 50 steps
- When the agent hits a wall
- When the agent moves to one of the cliffs
- When the agent has reached the goal
- When the agent has reached the goal 5 times
- When the agent has reached the goal 50 times

Submit

You have used 1 of 2 attempts

✓ Correct (1/1 point)

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