Congratulations! You passed!

Grade received 100% Latest Submission Grade 100% To pass 80% or higher

Go to next item

1/1 point

1.

You are using reinforcement learning to control a four legged robot. The position of the robot would be its _____.

- action
- O reward
- state
- O return

✓ Correct Great!

1/1 point

You are controlling a Mars rover. You will be very very happy if it gets to state 1 (significant scientific discovery), slightly happy if it gets to state 2 (small scientific discovery), and unhappy if it gets to state 3 (rover is permanently damaged). To reflect this, choose a reward function so that:

- R(1) > R(2) > R(3), where R(1) and R(2) are positive and R(3) is negative.
- \bigcirc R(1) > R(2) > R(3), where R(1), R(2) and R(3) are positive.
- \bigcirc R(1) > R(2) > R(3), where R(1), R(2) and R(3) are negative.
- \bigcirc R(1) < R(2) < R(3), where R(1) and R(2) are negative and R(3) is positive.

✓ Correct Good job!

1/1point

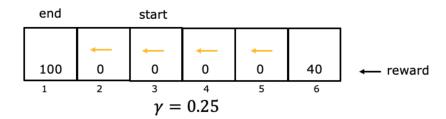
You are using reinforcement learning to fly a helicopter. Using a discount factor of 0.75, your helicopter starts in some state and receives rewards -100 on the first step, -100 on the second step, and 1000 on the third and final step (where it has reached a terminal state). What is the return?

- -0.25*100 0.25^2*100 + 0.25^3*1000
- -100 0.25*100 + 0.25^2*1000
- -100 0.75*100 + 0.75^2*1000
- 0.75*100 0.75^2*100 + 0.75^3*1000

Correct
Awesome!

1/1 point

Given the rewards and actions below, compute the return from state 3 with a discount factor of $\gamma=0.25$.



- O 25
- 0.39
- 6.25
- 0 0

(V) Correct

If starting from state 3, the rewards are in states 3, 2, and 1. The return is $0+(0.25) imes0+(0.25)^2 imes100=6.25$.