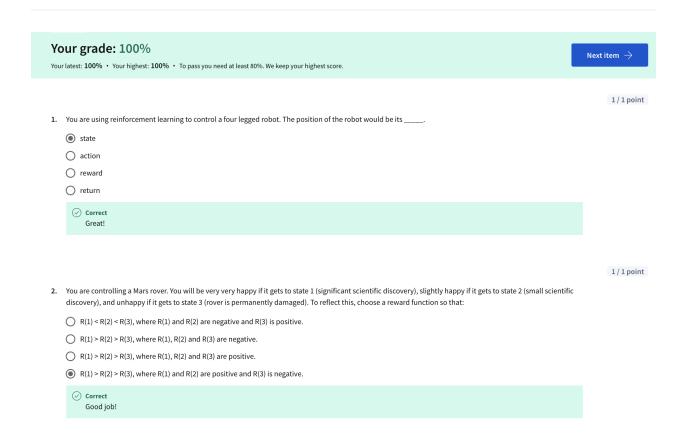
UnsupervisedLearning - WEEK 3 - ReinforcementLearning - QUIZ 1 - ReinforcementLearningIntroduction

Link: <u>UnsupervisedLearning - WEEK 3 - ReinforcementLearning - QUIZ 1 - ReinforcementLearningIntroduction</u>



- 3. 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?
 - O -0.75*100 0.75^2*100 + 0.75^3*1000
 - O -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
 - Correct
 Awesome!
- 4. Given the rewards and actions below, compute the return from state 3 with a discount factor of $\gamma=0.25$.



- 0
- 6.25
- O 25
- 0.39
 - **⊘** Correct
 - If starting from state 3, the rewards are in states 3, 2, and 1. The return is $0+(0.25) imes0+(0.25)^2 imes100=6.25$.