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Machine Learning with Python-From Linear Models to Deep Learning

Discussion Course **Progress** Resources Dates

Course / Unit 5. Reinforcement Learning (2 weeks) / Homework 5

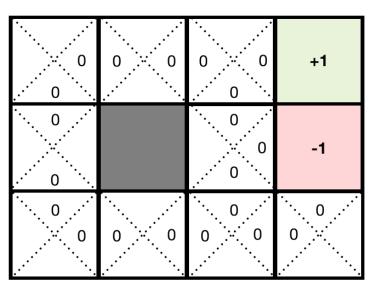


Homework due May 3, 2023 08:59 -03 Completed Recall the Q-value iteration update rule:

$$Q^{st}\left(s,a
ight)=\sum_{s^{\prime}}T\left(s,a,s^{\prime}
ight)\left(R\left(s,a,s^{\prime}
ight)+\gamma\max_{a^{\prime}}Q^{st}\left(s^{\prime},a^{\prime}
ight)
ight).$$

Let $\gamma=1$ in this problem. In the figure below, at each box, we can go up, down, left an is blocked and we initialize the Q value for all the actions in all states as 0. The Q value labeled in each box below. Moving into the upper right 2 boxes will result in a reward of move will also cost 0.04, or in another word, a reward of -0.04.

Q-table



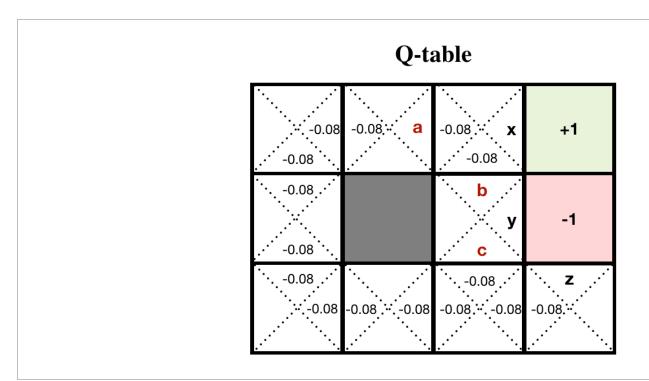
1st Iteration

3/3 points (graded)

Q-table

2nd Iteration

3/3 points (graded)



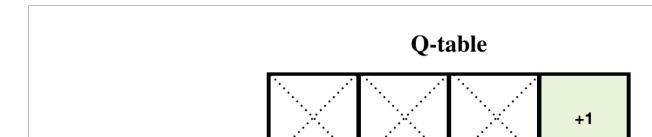
After 2nd iteration, enter the Q value at the position represented by , and below:

Submit

You have used 1 of 3 attempts

After Convergence

1/1 point (graded)





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i wouldn't milita, though, it it was a bit more challenging fit leels like it was one of the easiest 100% i got in th

2nd Iteration of Q-values

Is b the Q-value if you are in position y and going to the state directly above and c the Q-value if you are in p

epsilon-greedy question

I feel like this question is missing a lot of context. Does it mean epsilon = .999 permanently and is never adju

Hint on max_a'(Q_k(s',a'))

Just in case anyone has been struggling for a while (like me) to wonder why the Q values computed are not

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