MC & TD

测验, 4 个问题

1 point

1。
Why do we need function approximation in RL? Check all that apply.

- [ ] Learning with tabular methods is much more unstable compared to learning with function approximation.
- [ ] Relying on function approximation allows us to achieve greater reward in any environment.
- [x] Because we want our agent to be memory-, space- and data efficient.
- [x] Because the state and action space may be big or combinatorially enormous, rendering tabular methods impossible to use.

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1 point

2。
Monte-Carlo learning (MC) vs Temporal Difference learning (TD). Select all options that apply.

- [x] TD targets have small variance.
- [x] In MC learning we cannot update the model until the end of an episode is reached.
- [ ] In MC learning we can use as few as one step of experience (s, a, r, s') to update the model.
- [ ] MC targets have small variance.
- [ ] In TD learning we cannot update the model until the end of an episode is reached.
- [x] In TD learning we can use as few as one step of experience (s, a, r, s') to update the model.

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3。

In TD learning we approximate...

- [ ] Reward function.
- [ ] Policy function.
- [ ] Discount factor γ.
- [x] Expectation of targets.
- [x] Value function.

1 point

4。

What is correct about Offline and Online methods?

- [ ] TD is offline.
- [x] MC is offline.
- [x] TD is online.
- [ ] MC is online.

- [x] 我（**伟臣 沈**）了解提交不是我自己完成的作业 将永远不会通过此课程或导致我的 Coursera 帐号被关闭。

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