

✓ 恭喜！您通过了！

通过条件 80% 或更高

坚持学习

成绩
100%

Practice Quiz

总分: {TOTALPOINTS}

1. What is the target policy in Q-learning?

1/1 分

- ϵ -greedy with respect to the current action-value estimates
- Greedy with respect to the current action-value estimates

✓ Correct

Correct! Q-learning's target policy is greedy with respect to the current action-value estimates.

2. Which Bellman equation is the basis for the Q-learning update?

1/1 分

- Bellman equation for state values
- Bellman equation for action values
- Bellman optimality equation for state values
- Bellman optimality equation for action values

✓ Correct

Correct! The Q-learning update is based on the Bellman optimality equation for action values.

3. Which Bellman equation is the basis for the Sarsa update?

1/1 分

- Bellman equation for state values
- Bellman equation for action values
- Bellman optimality equation for state values
- Bellman optimality equation for action values

✓ Correct

Correct! The Sarsa update is based on the Bellman equation for action values.

4. Which Bellman equation is the basis for the Expected Sarsa update?

1/1 分

- Bellman equation for state values
- Bellman equation for action values
- Bellman optimality equation for state values
- Bellman optimality equation for action values

✓ Correct

Correct! The Expected Sarsa update is based on the Bellman equation for action values.

5. Which algorithm's update requires more computation per step?

1/1 分

- Expected Sarsa
- Sarsa

✓ Correct

Correct! Expected Sarsa computes the expectation over next actions.

✓ Correct

Correct! We saw that Sarsa was more sensitive to the choice of step-size because its target has higher variance.

7. Q-learning does not learn about the outcomes of exploratory actions.

1/1 分

- True
- False

✓ Correct

Correct! The update in Q-learning only learns about the greedy action. As demonstrated in Cliff World, it ignores the outcomes of exploratory actions.

8. Sarsa, Q-learning, and Expected Sarsa have similar targets on a transition to a terminal state.

1/1 分

- True
- False

✓ Correct

Correct! The target in this case only depends on the reward.

9. Sarsa needs to wait until the end of an episode before performing its update.

1/1 分

- True
- False

✓ Correct