Your grade: 100%

Your latest: 100% • Your highest: 100% • To pass you need at least 80%. We keep your highest score.

Next item →

1.	What is the target policy in Q-learning?	1/1 point
	\bigcirc 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 point
	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 point
	O Bellman equation for state values	
	Bellman equation for action values	
	O Bellman optimality equation for state values	
	O 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 point
	O Bellman equation for state values	
	Bellman equation for action values	
	O 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 point
	Expected Sarsa	
	Sarsa	

 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. Sarsa, Q-learning, and Expected Sarsa have similar targets on a transition to a terminal state. True False Correct Correct! The target in this case only depends on the reward. 	1 point
 ✓ 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. 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. False Correct Correct! The target in this case only depends on the reward. 	l point
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	1 point
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 point
○ True	
False	
Correct Correct! Unlike Monte Carlo methods, Sarsa performs its updates at every time-step using the reward and the next action-value estimate.	