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Practice Quiz

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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? Bellman equation for state values	1/1 point		-
	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		-
	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 point		
	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		U 2	u u

6. Which algorithm has a higher variance target?	1 / 1 point	
C Expected Sarsa		
Sarsa		
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 point	
True		
O False		
Correct Correctl 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 point	
True		 -
○ False		
Correct Correct! The target in this case only depends on the reward.		 ŭ
9. Sarsa needs to wait until the end of an episode before performing its update.	1/1 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.		

Correct! Expected Sarsa computes the expectation over next actions.