Exploration

测验, 3 个问题

1 point	t
1。 Which	of the following is true about regret?
	Regret estimates how quickly does a given exploration strategy converge to an optimal policy.
	Larger regret means better exploration
	Smaller regret means better exploration
	A better exploration strategy will have better regret for up to any given moment of time
1 point 2. Which	of the following is true about epsilon-greedy strategy?
	An epsilon-greedy strategy will reach optimal policy if you set epsilon = $1 - t / 1000$, where t is the total number of actions taken
	An epsilon-greedy strategy will reach optimal policy if you set epsilon = 1 / t , where t is the total number of actions taken
	With constant epsilon, e-greedy exploration has a linearly growing regret
	With constant epsilon, e-greedy exploration has a constant regret
1 point	t

3.

Which of the following is true about uncertainty-based exploration

EXPIOIATION _{验,3} 个问题		In case of a simple multi-armed bandit, Thompson Sampling has an asymptotically smaller regret than epsilon-greedy strategy with epsilon=0.5
		UCB has a linear regret if the percentile is constant over time
		UCB works better than epsilon-greedy strategy in any decision process
		In some cases, epsilon-greedy strategy with epsilon=0.2 can sometimes have smaller regret than Thompson Sampling by 100-th action.
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