

Congratulations! You passed!

Grade received 90%

Latest Submission Grade 90% **To pass** 80% or higher

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1.	Which of the following are the most accurate characterizations of sample models and distribution models? (Select all that apply)	0 / 1 point
	A sample model can be used to compute the probability of all possible trajectories in an episodic task based on the current state and action.	
	A sample model can be used to obtain a possible next state and reward given the current state and action, whereas a distribution model can only be used to compute the probability of this next state and reward given the current state and action.	
	☐ Both sample models and distribution models can be used to obtain a possible next state and reward, given the current state and action.	
	A distribution model can be used as a sample model.	
	Correct Correct; a distribution model contains all the information about the transition dynamics of the system, which can be used to 'sample' new states and rewards given the current state and action – just like a sample model.	
	You didn't select all the correct answers	
2.	Which of the following statements are TRUE for Dyna architecture? (Select all that apply)	1/1 point
	Real experience can be used to improve the value function and policy	
	 Correct Correct; we do this in the direct-RL step of the tabular Dyna-Q algorithm 	
	Simulated experience can be used to improve the value function and policy	
	 Correct Correct; we do this in the planning step of the tabular Dyna-Q algorithm 	
	Real experience can be used to improve the model	
	 Correct Correct; we do this in the model-learning step of the tabular Dyna-Q algorithm 	
	Simulated experience can be used to improve the model	
3.	Mark all the statements that are TRUE for the tabular Dyna-Q algorithm. (Select all that apply)	1/1 point
	The environment is assumed to be deterministic.	
	○ Correct Correct; the algorithm assumes that the environment deterministically transitions to a single next state and reward for a given state action pair if the environment is stochastic the undate model star in its	

current form would simply overwrite a state-action pair with a different next state and reward transition.