## MCTS

测验, 4 个问题

1 point	
1.	
What is	s true about planning in RL?
	Planning does not make use of Dynamic Programming
	Planning is computationaly intensive.
	Planning allows to <i>compute</i> (contrast with learning) the best possible action.
	For planning we do not need to explore – we are already given all the knowledge we would need for learning optimal decision making.
1 point	
2。 What a	re the differences between model-free and model-based settings?
	In a model-based setting we can find out which (reward, next state) pairs are possible given current state and action.
	In a model-free setting we know nothing about environment dynamics. Optimisation of agent decisions is based solely on sample based experiences of the world.
	In a model-based setting we know nothing about environment dynamics. Agent's learning is formulated as optimisation of some parametric model.
	In a model-free setting an agent's learning is formulated in way that is not related to any of parametric models.
	In a model-free setting we know which (reward, next state) pairs are possible given current state and action.

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3。

What are the different types of planning?

Decision time planning - planning starts after the agent falls into new state, this planning is performed to select the optimal decision only in current state.
Background planning - the approach of learning from environment model samples with any model-free method.
Decision time planning - the approach of learning correct action decisions from environment model samples with any model-free method.
Background planning - planning starts in the background after the agent falls into new state, this planning is performed to select the optimal decision only in current state.

1 point

4.

What are the ideas behind the strong planning algorithm?

Use binary search to select the best action.

Stop expanding the search tree as soon as the prespecified depth is reached.
departs reactica.

Save immediate rewards following each particular action and
each particular state.

Use heuristics to guide the search tree growth.

Replace MDP with its deterministic version with replacing all
the transitions with only the most probable ones.

Approximate the returns from the leaves of a search tree till
the end of episode.



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