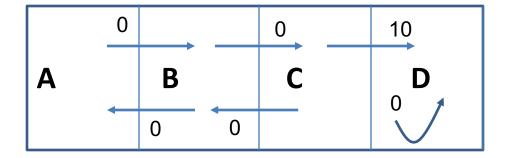
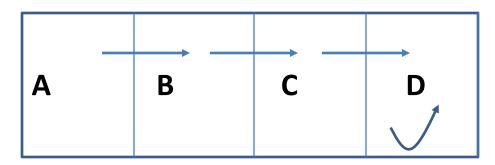
Given below is a robotic world with immediate rewards as specified



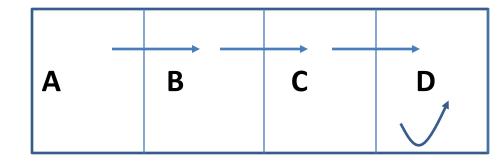
 Given the below policy, what is the total reward that we can expect starting from A assuming a discount factor of 0.5



• Ans: 0+0.5*0+0.5*0.5*10+0+0+.....

What is the optimal policy

Ans:



- What values would Q-learning converge to assuming a discount factor of 0.5?
- Ans: For this example, you don't really need to run Q-Learning algorithm, the optimal policy is evident from the example.
 Upon convergence, the value of Q for each state-action will be the optimal reward that can be received for an action if we follow the optimal policy

