Assignment 3

Due on 2020-10-15, 23:59 IST

Task: The task is to simulate the assignment described.

Instructions:

1. For all the two-arm bandit problems, first choose which of the following actions you would choose:

   a. Choose based on historical data.
   b. Choose based on the latest action taken.
   c. Choose based on the action with the highest reward.
   d. Choose based on the action with the lowest reward.

2. For all the two-arm bandit problems, then choose which of the following will give you a better outcome:

   a. Choose based on the latest action taken.
   b. Choose based on the action with the highest reward.
   c. Choose based on the action with the lowest reward.
   d. Choose based on historical data.

3. For the following problem graph in which each node represents an action taken in a given step, the correct action was chosen in the transition above. The task is to find an optimal policy for the given graph. The node with the highest value is the action with the highest reward.

   a. Choose based on the latest action taken.
   b. Choose based on the action with the highest reward.
   c. Choose based on the action with the lowest reward.
   d. Choose based on historical data.

4. For the following problem graph, choose the node that represents an action in the transition above. The task is to find an optimal policy for the given graph. The node with the highest value is the action with the highest reward.

   a. Choose based on the latest action taken.
   b. Choose based on the action with the highest reward.
   c. Choose based on the action with the lowest reward.
   d. Choose based on historical data.