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Exercise 1B Round Robin

Exercise 2.1B: Round Robin

In this exercise, you will implement a round-robin policy.

Make sure that you have:

- 1. Completed the setup requirements as described in the Set Up Lab Environments section.
- 2. Completed the Exercise 2.1A: Greedy

Now, run jupyter notebook and open the "Ex2.1B Round Robin.ipynb" notebook under **Module 2** folder.

- 1. Examine the notebook.
- 2. Your task is to implement a round-robin policy: that is "pulling" the arms in round robin fashion.
 - So for example, if you have three arms, the sequence will be arm 1, arm 2, arm 3 and then back to arm 1, and so on, until the trials finishes.
- 3. We have given you some boiler plate code, you only need to modify the part as indicated.
- 4. Once you have done that, run the notebook (don't change any parameter), observe the results, and answer the following questions.

Lab Question

1.0/1.0 point (graded)

Which of the following resembles the number of times each arm was pulled?
© [9996.0 1.0 1.0 1.0]
© [201.0 9195.0 217.0 180.0 207.0]
 [2000.0 2000.0 2000.0 2000.0] ✓
© [1.0 1.0 9996.0 1.0 1.0]
© [196.0 214.0 9175.0 197.0 218.0]
Submit You have used 1 of 2 attempts
Lab Question
1.0/1.0 point (graded)
Did the round-robin beat the greedy algorithm in this case?
Yes, because the greedy algorithm locks into a sub-optimal action
Yes, because the round-robin will always pick the best action
No, the greedy algorithm will always beat the round-robin
 No, in this case the greedy algorithm even with sub-optimal action still perform relatively better than the round-robin
Submit You have used 1 of 2 attempts