

Course > Bandits > Lab > Exercise 4 Thomps...

Exercise 4 Thompson Beta

Exercise 2.4: Thompson Beta

In this exercise, you will implement the Thompson Beta algorithm.

Make sure that you have:

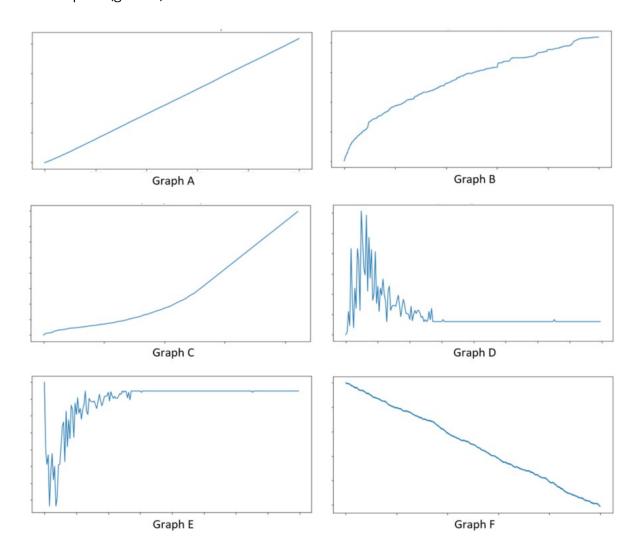
- 1. Completed the setup requirements as described in the Set Up Lab Environments section
- 2. Completed the previous exercises in this lab

Now, run jupyter notebook and open the "Ex2.4 Thompson Beta.ipynb" notebook under **Module 2** folder.

- 1. Examine the notebook.
- 2. Your task is to implement a thompson sampling beta bernoulli algorithm.
- 3. We have given you some boiler plate code, you only need to modify the part as indicated.
- 4. Once you have done that, prepare a simulation. Don't change any other parameter, that is:
 - evaluation_seed = 1239
 - num_actions = 10
 - trials = 10000
 - distribution = "bernoulli"
- 5. Run the simulation, observe the results, and answer the following questions.

Lab Question

1.0/1.0 point (graded)



Which of the following graph resembles the regret curve over time?

O Graph A	
● Graph B	
O Graph C	
O Graph D	
O Graph E	

O Graph F

Submit

You have used 2 of 2 attempts

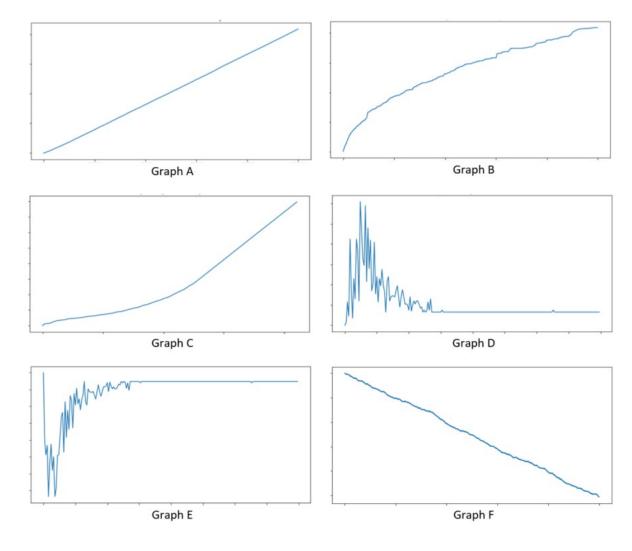
Now let's prepare another simulation by setting a different distribution, so your parameters should look like this:

- evaluation_seed = 1239
- num_actions = 10
- trials = 10000
- distribution = "normal"

Run the simulation and observe the results.

Lab Question

1.0/1.0 point (graded)



Which of the following graph resembles the regret curve over time?



Submit

You have used 1 of 2 attempts

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