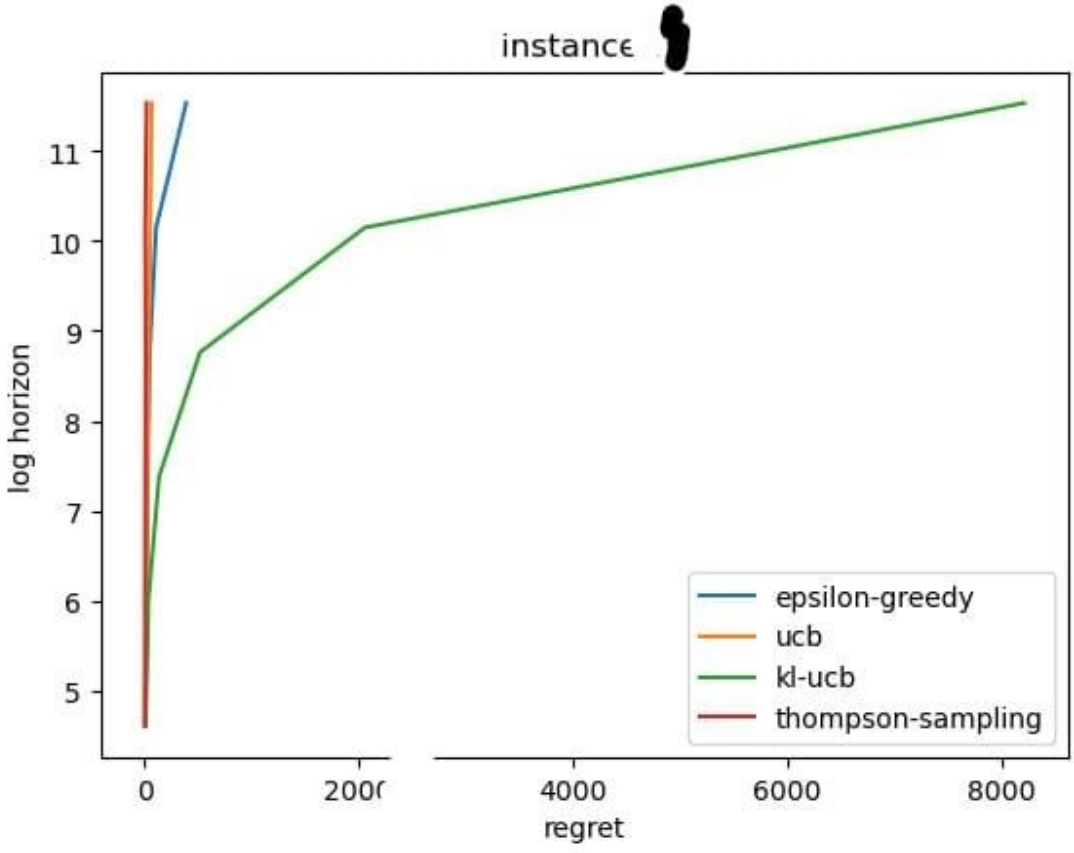
T2:
GIven the true mean of each arm , I made an epsilon-greedy-thompson-sampling that similar to the greedy-3 algorithm either does thompson sampling or picks the arm with the highest true mean based on the epsilon value and a random number generator.

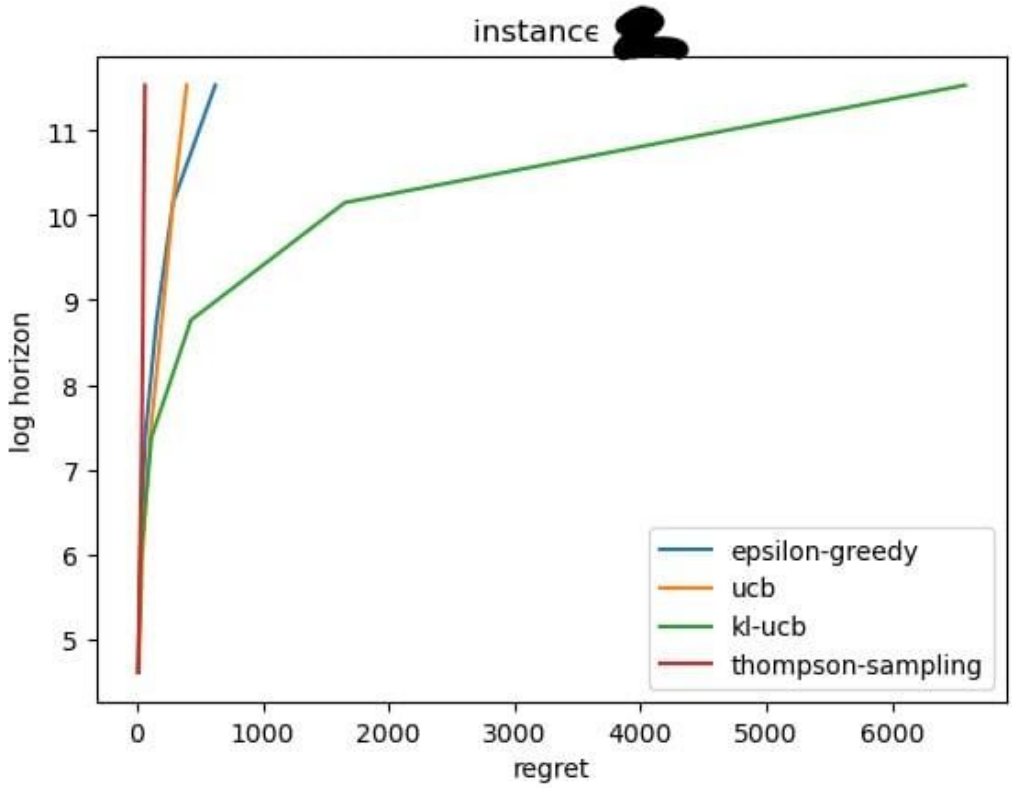
T3:
for instance **1**, I got an epsilon2 = **0.04**, which achieved a local minima
for instance **2**, I got an epsilon2 = **0.09**, which achieved a local minima
for instance **3**, I got an epsilon2 = **0.07**, which achieved a local minima

T4:
In case of a tie in the arm to choose, the one with the lowest value was chosen (np.argmax)
All pieces of code are mine, except for some snippets from stackoverflow
Epsilon greedy 3 algorithm from the slides was used

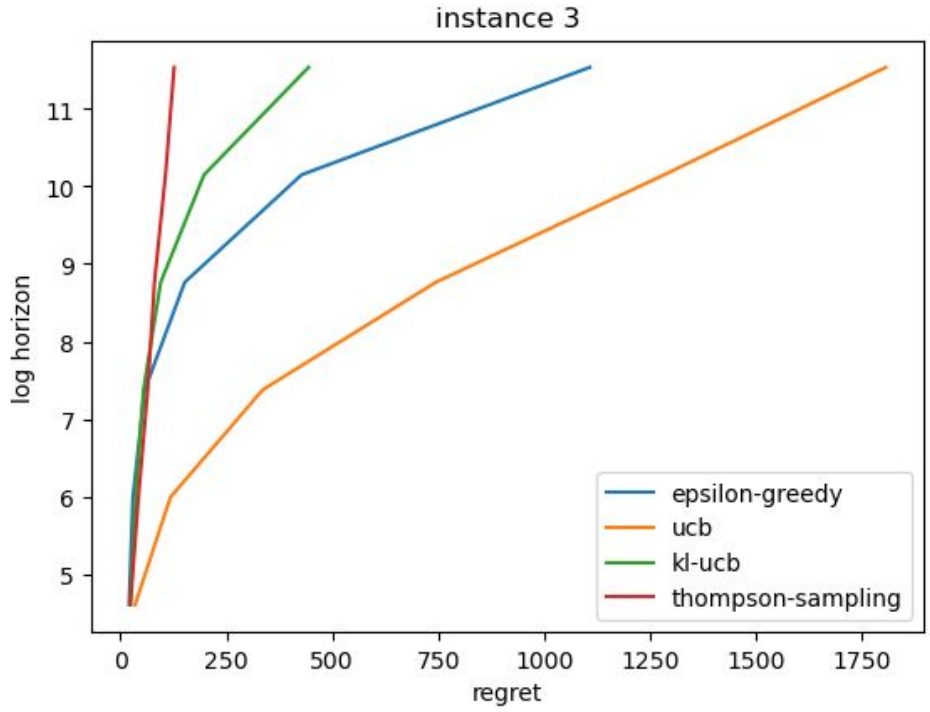
Instance 1:



Instance 2:


instance 2
log horizon
regret
epsilon-greedy
ucb
kl-ucb
thompson-sampling

Instance 3:


instance 3
log horizon
regret
epsilon-greedy
ucb
kl-ucb
thompson-sampling