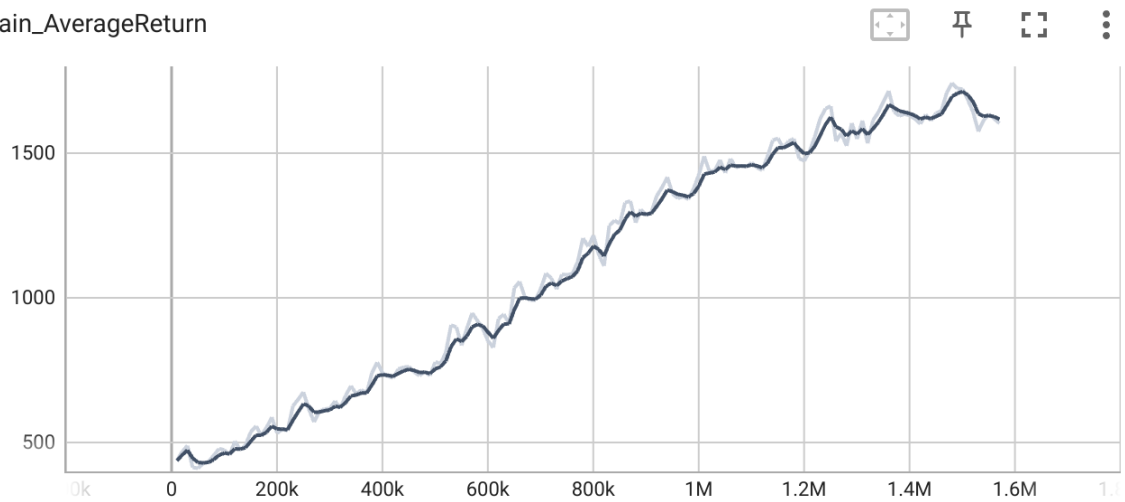


HW3

Question 1: DQN

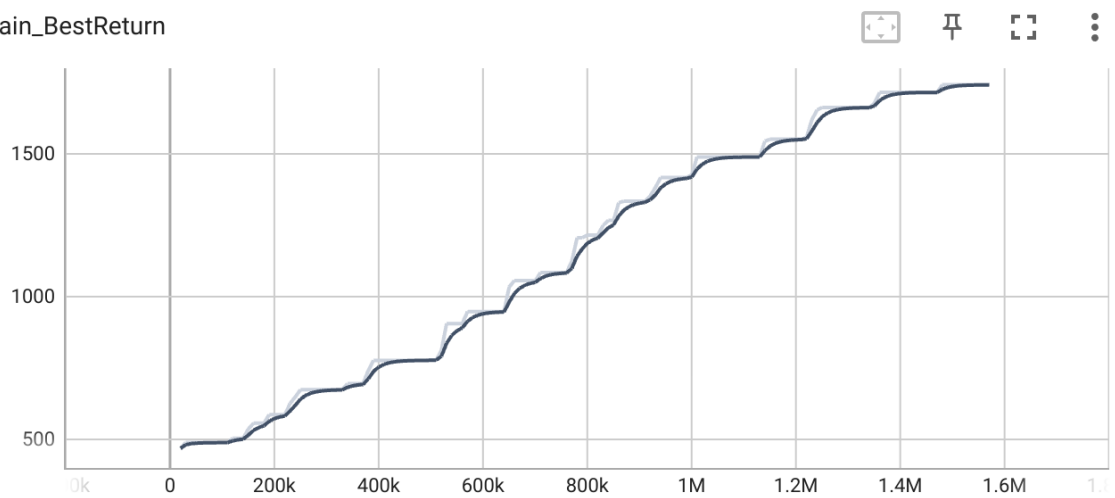
AverageReturn:

Train_AverageReturn



BestReturn:

Train_BestReturn

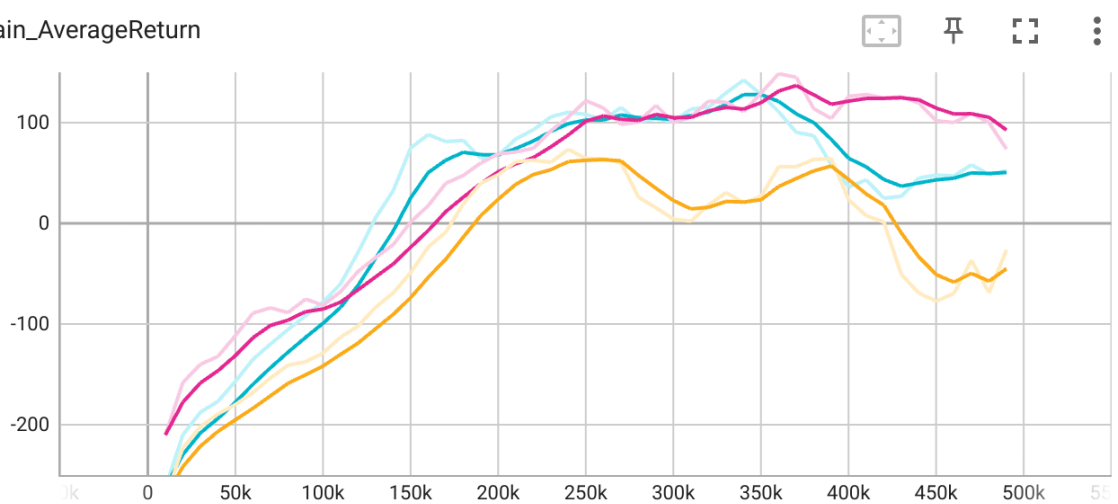


Question 2: DDQN

For DQN:

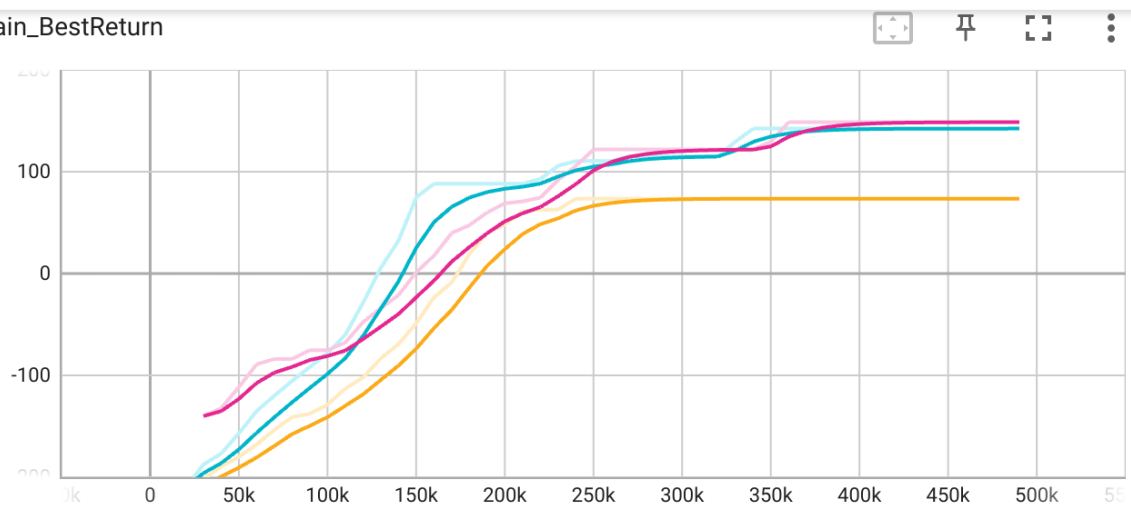
AverageReturn:

Train_AverageReturn



BestReturn

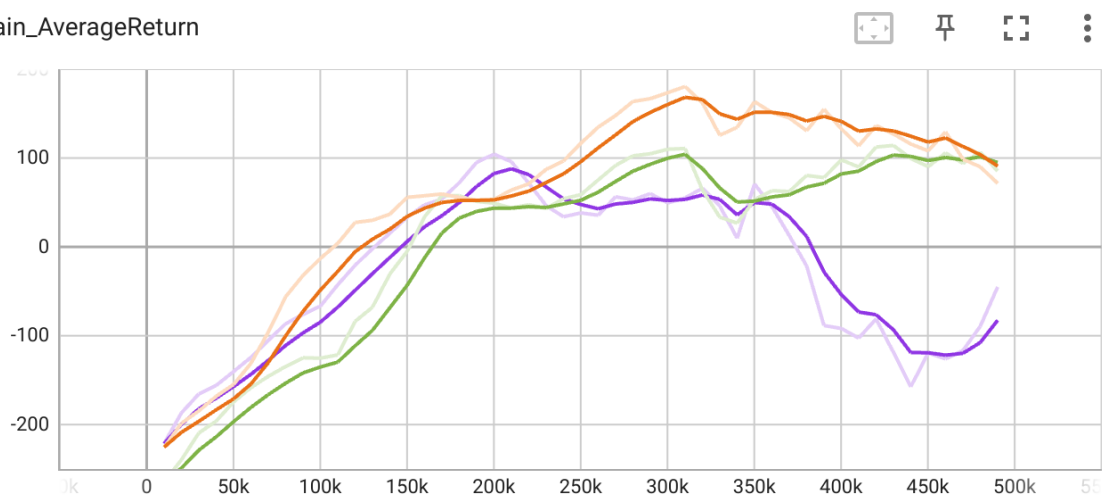
Train_BestReturn



For DDQN:

AverageReturn:

Train_AverageReturn



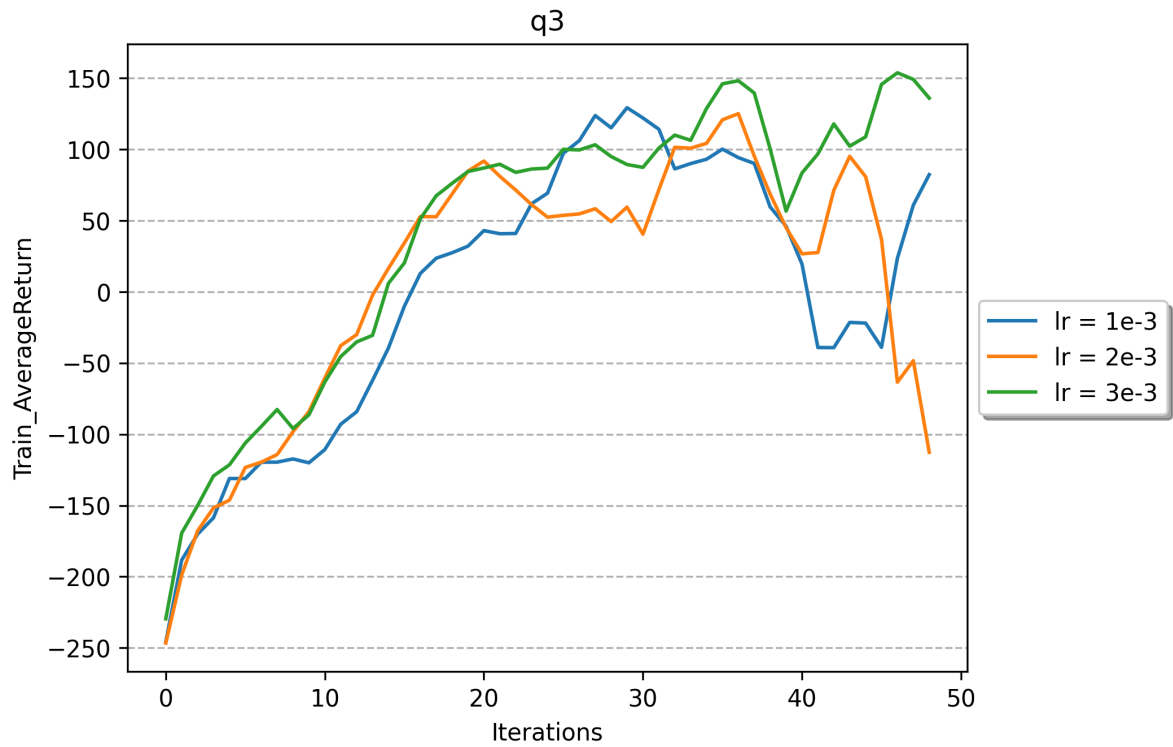
BestReturn:

'Train_AverageReturn'

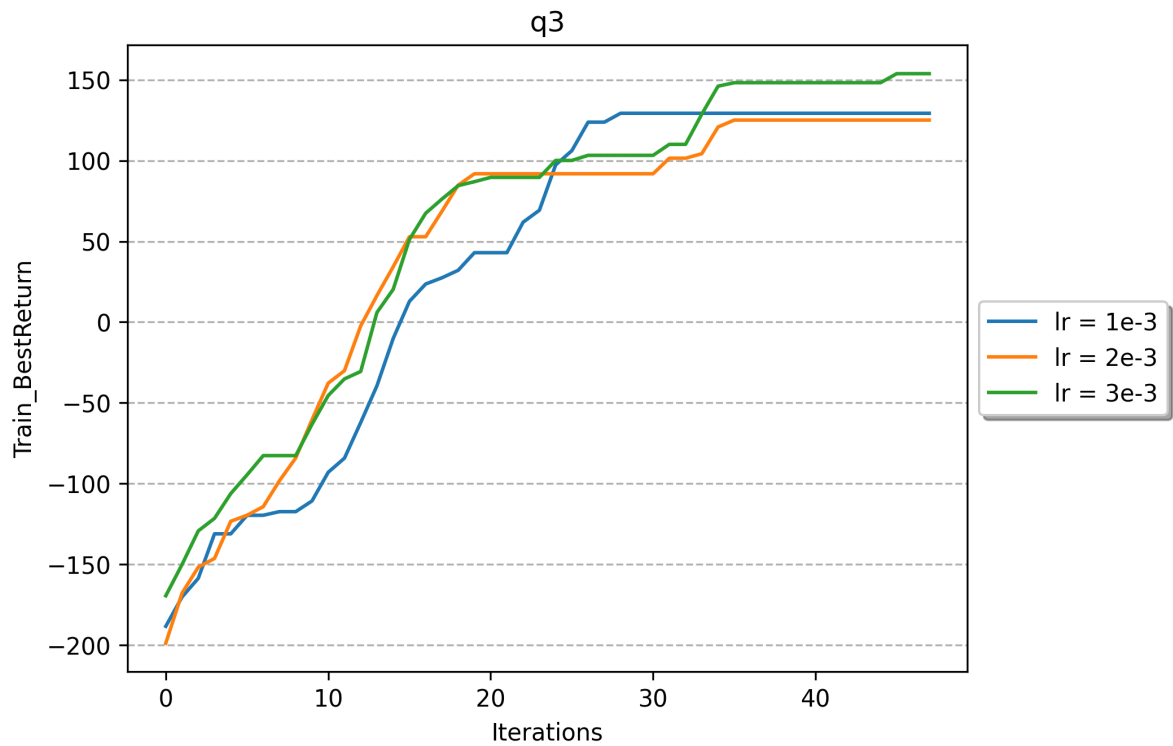
Question 3: Experiment

For learning rate = 1e-3, 2e-3, 3e-3:

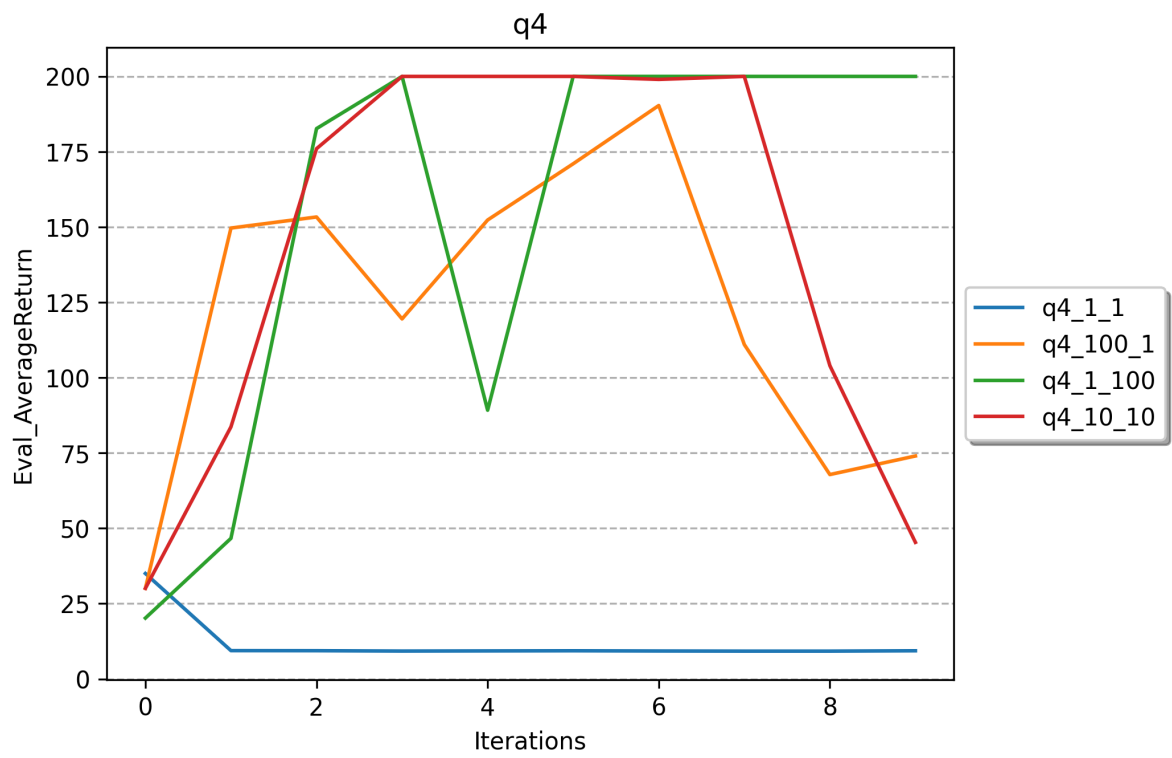
AverageReturn:



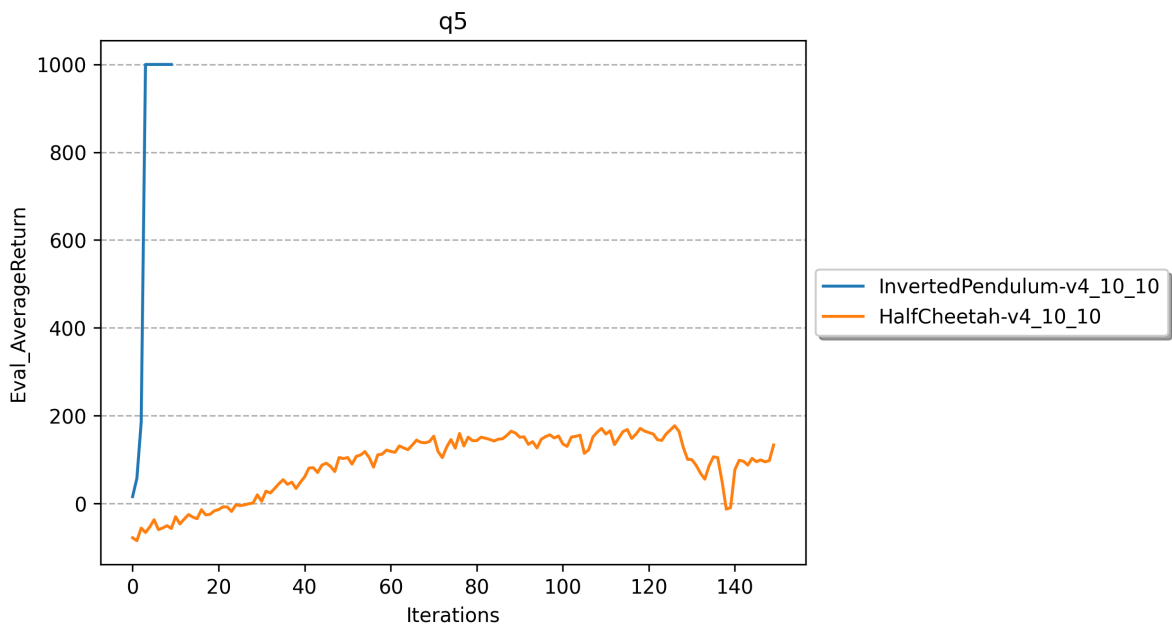
BestReturn:



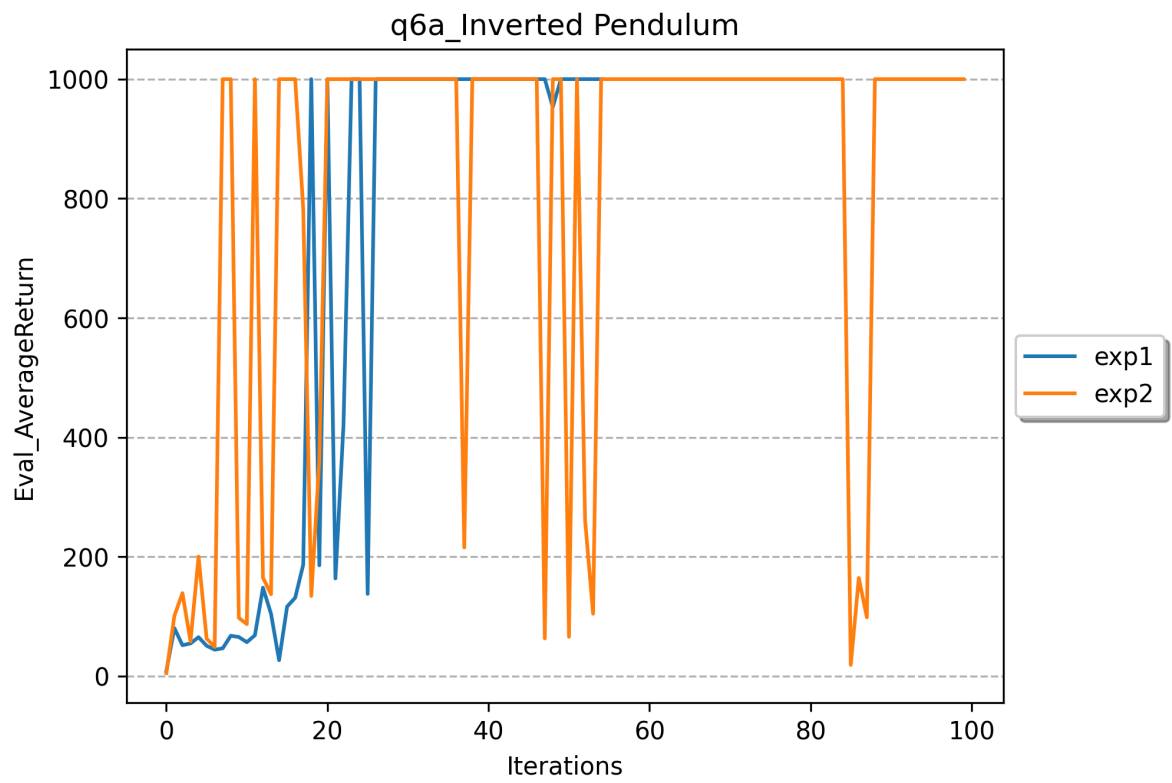
Question 4: Actor-Critic



Question 5: AC on more difficult task



Question 6: Soft Actor-Critic



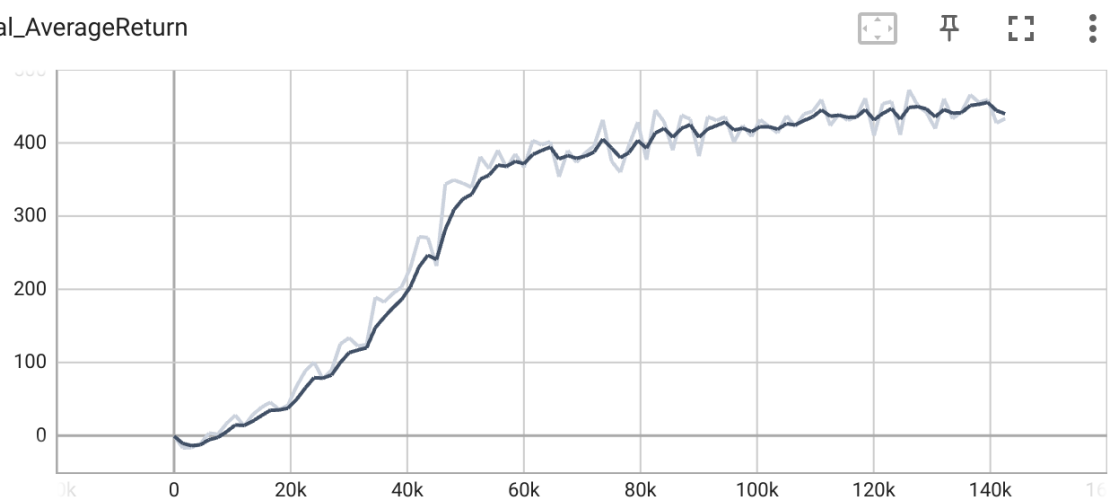
Half Cheetah:

Before:



After fixing the critical bug:

Eval_AverageReturn



Actor_Loss

