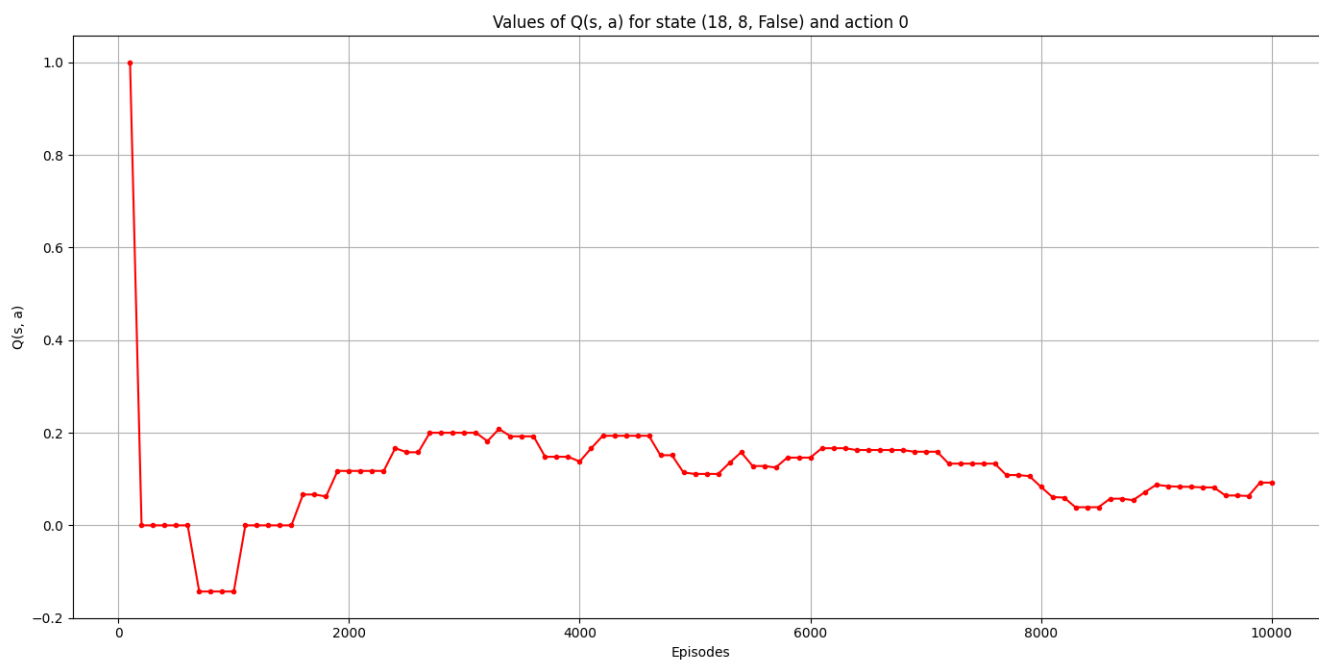


## Assignment 2

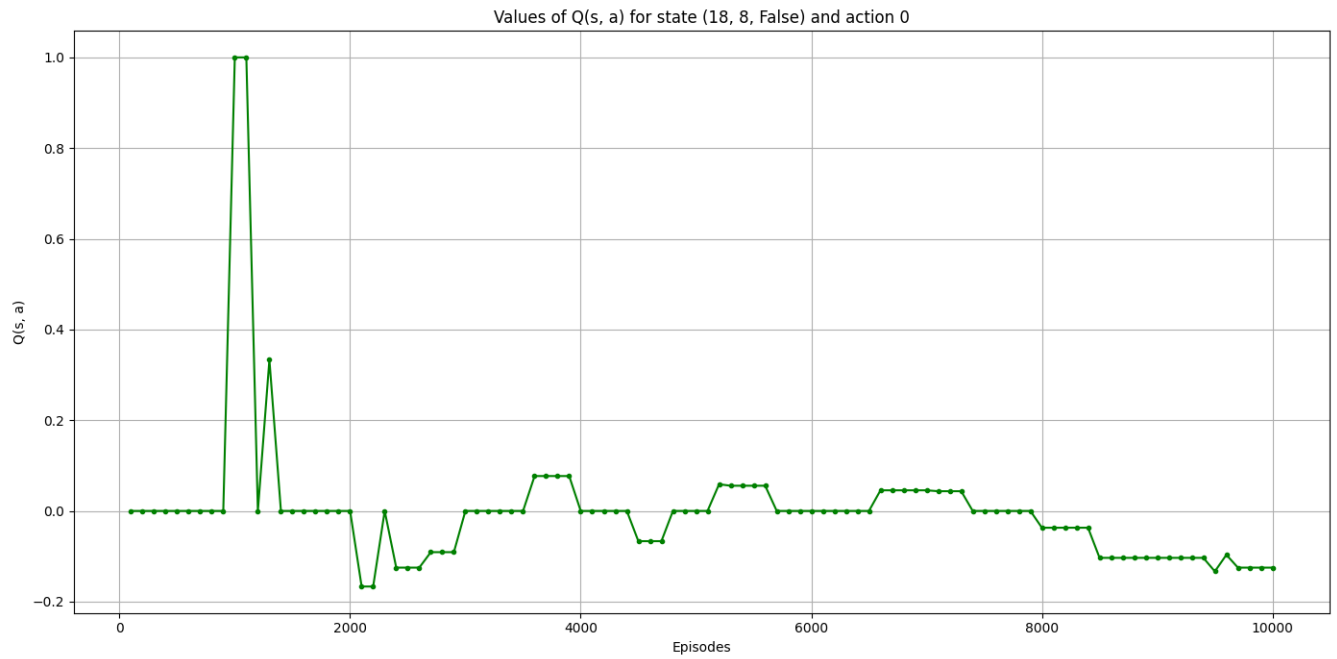
### Question 1

Below is the plotting of  $Q(s, \text{stick})$  where  $s := (\text{player total} = 18, \text{dealer showing} = 8, \text{no usable ace})$  in the first MCES version of the Blackjack game over 10,000 episodes (where every 100th episode was recorded).



### Question 2

Below is the plotting of  $Q(s, \text{stick})$  where  $s := (\text{player total} = 18, \text{dealer showing} = 8, \text{no usable ace})$  in the second MCES version of the Blackjack game over 10,000 episodes (where every 100th episode was recorded).



section\*Question 3