

# Assignment 1: Imitation Learning

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## 1 Behavioral Cloning (65 pt)

### 1.1 Part 2 (10 pt)

# TODO

Table 1: Report your result in this table.

Metric/Env	Ant-v2	Humanoid-v2	Walker2d-v2	Hopper-v2	HalfCheetah-v2
Mean	xxx	xxx	xxx	xxx	xxx
Std.	xxx	xxx	xxx	xxx	xxx

### 1.2 Part 3 (35 pt)

# TODO

Table 2: Fill your results in this table.

Env	Ant-v2		Humanoid-v2	
Metric	Mean	Std.	Mean	Std.
Expert	xxx	xxx	xxx	xxx
BC	xxx	xxx	xxx	xxx

### 1.3 Part 4 (20 pt)

# TODO, fill in the Fig. 1, provide some analysis.



Figure 1: BC agent's performance varies with the value of ??? parameter in ??? environment.

## 2 DAgger (35 pt)

### 2.1 Part 2 (35 pt)

# TODO, Report the results for Ant-v2 and Humanoid-v2 in Fig. 2:



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Figure 2: Learning curve, plotting the number of DAgger iterations vs. the policy's mean return, with error bars to show the standard deviation. Please show the Ant-v2 environment on the left and the right part demonstrates Humanoid-v2 environment.