Unit 7 - Week 6

Assignment 5

The due date for submitting this assignment has passed.
Assignment due: 2023-03-14, 21:58 IST.

1. For the following equation state that E(x) is a contraction on value function?

$$V(x) = V(x) - V(x)$$

2. Which of the following statements are true for value iteration and policy iteration?

- (a) Policy iteration is a greedy algorithm.
- (b) Value iteration is not a greedy algorithm.

3. In the value iteration algorithm, the mapping condition is that the values are updated.

$$V(x) = V(x) - V(x)$$

4. Which of the following policies are optimal policies?

- (a) Greedy policy
- (b) Random policy

5. What are the key steps in the policy iteration algorithm?

- (a) Policy evaluation
- (b) Policy improvement

6. Explain the difference between value iteration and policy iteration.

- (a) Value iteration updates the value function directly.
- (b) Policy iteration updates the policy directly.

7. Explain the difference between the Bellman equation and the dynamic programming equation.

- (a) Bellman equation is more general.
- (b) Dynamic programming equation is more specific.

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- (a) Bellman equation is more general.
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9. Explain the difference between the Bellman equation and the dynamic programming equation.

- (a) Bellman equation is more general.
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10. Explain the difference between the Bellman equation and the dynamic programming equation.

- (a) Bellman equation is more general.
- (b) Dynamic programming equation is more specific.