1 Basic Search

Do problem 3.8 from the text.

2 Search Implementation

This question is based upon problem 3.9 from the text.

1. For part (a) of question 3.9, provide a graph with nodes corresponding to problem states and arcs corresponding to actions. The state space is small enough that you can write out the entire thing.

2. For part (b), implement BFS, DFS, and IDDFS and compare their performance.

3. For part (c), it suffices to give one plausible reason.

3 Iterative Deepening

Do question 3.18. Also, explain why this is result is not inconsistent with what we proved in class about IDDFS.

4 Informed vs. Uninformed Search

Do question 3.21 from the text.

5 Consistency

Do problem 3.29 from the text. Be sure to read page 95 carefully to get a full appreciation of why consistency is important.