CS 180 Homework 3

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1. Exercise 10 Page 110

2. Exercise 6 on page 108

3. Exercise 7 on page 108

4. Exercise 3 on page 189

5. Exercise 6 on page 191

6. (a) Can you design an algorithm that nds the longest path in a directed

graph (DG)? (you can use an edge at most once)? If yes, describe

the algorithm and analyze its time complexity.

(b) Can you design an algorithm that nds the longest path in a directed

acyclic graph (DAG)? (you can use an edge at most once)? If yes,

describe the algorithm and analyze its time complexity.