

CSCI 570 - Spring 2017 - HW 2

1. Reading Assignment: Kleinberg and Tardos, Chapter 2 and 3.
2. Solve Kleinberg and Tardos, Chapter 2, Exercise 3.
3. Solve Kleinberg and Tardos, Chapter 2, Exercise 4.
4. Solve Kleinberg and Tardos, Chapter 2, Exercise 5.
5. Solve Kleinberg and Tardos, Chapter 2, Exercise 6.
6. Solve Kleinberg and Tardos, Chapter 3, Exercise 2.
7. Solve Kleinberg and Tardos, Chapter 3, Exercise 6.
8. Let $G = (V, E)$ be a connected undirected graph and let v be a vertex in G . Let T be the depth-first search tree of G starting from v , and let U be the breadth-first search tree of G starting from v . Prove that the depth of T is at least as great as the depth of U .