CS/DSA 4413 Algorithm Analysis

HW#7, Due on Oct 24, 19

1. Problem 22. 1-5 – Square of a directed graph. Apply your algorithm to the graph in Fig 22.2

2. Problem 22. 1-7- Incidence matrix of a graph. Apply it to the graph in Figure 22.1

3. Problem 22. 2-8 – Diameter of a graph

4. Problem 23. 2-7

5. Consider the graph where all the edge weights are the same and is taken to be 1. Find the shortest path from a to p

(i) Using BFS

(ii) Dijkstra's algorithm