

Algorithm Analysis – CS/DSA 4413

Homework 8

Date given: 04/03/25

Date due: 04/10/25

1. Problem 22.1-7 - Incidence matrix of a graph. Apply it to the graph in Fig 22.2 and ignore the self-loop.
2. Problem 22.2-8 - Diameter of a graph
3. Consider the graph where all the edge weights are the same and is taken to be 1. Find the shortest path from a to p₁
 - (i) Using BFS
 - (ii) Dijkstra's algorithm.

