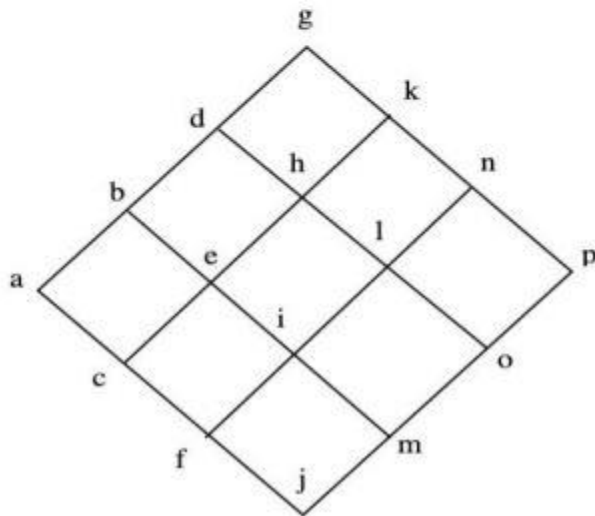


CS/DSA 4413 Algorithm Analysis

Due Date: March 14, 2019

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



Note: Edge weight = 1 for problem 5.