**Graph Traversal Worksheet**

**Part A: DFS / BFS**

Given a directed graph with nodes {a, b, c, d, e, f, g} and edges {(a,b), (a,c), (b,d), (c,d), (b,e), (d,e), (d,g), (d,f), (e,g)}

1. Draw the undirected graph.
2. Draw the directed graph.
3. Write the possible order of visiting the nodes of the above graph (directed and undirected) using depth first search (DFS) .

We assume that the algorithm will choose the neighbors in alphabetical order.

1. What are the appropriate data structures for DFS and BFS.

**Part B : Shortest Path Algorithm**

