

## CS165 graph traversal worksheet

**name:**

**id:**

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)}

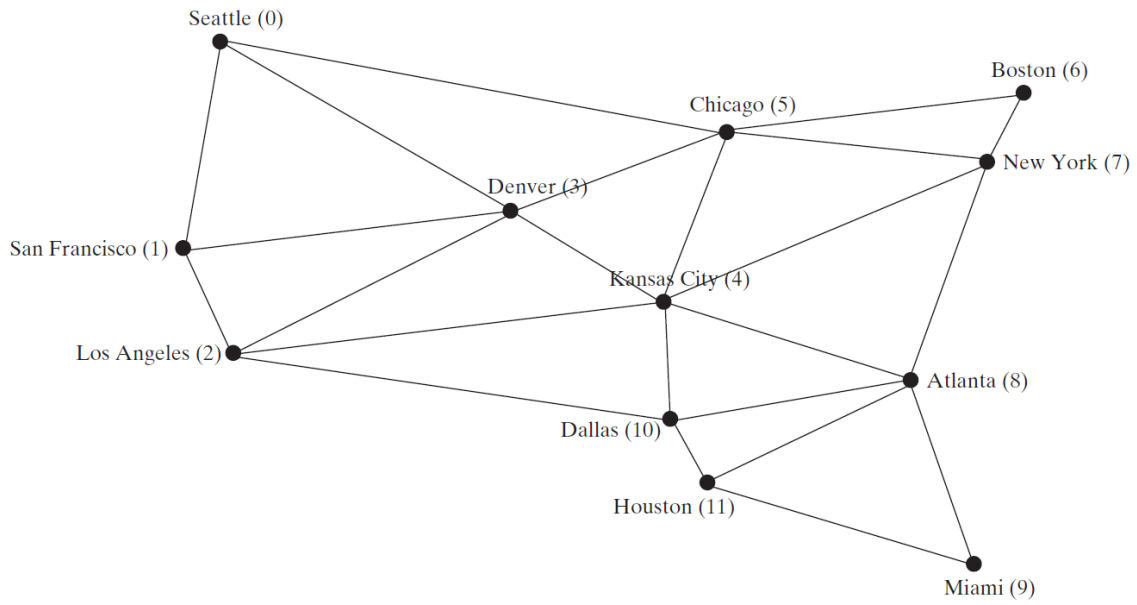
a) Draw the graph

b) Draw the DFS spanning tree from a, where node priority is letter order

c) Which of the following is depth first search (DFS), breadth first search (BFS), or Topological Sort (TS)

- |                     | DFS | BFS | TS |
|---------------------|-----|-----|----|
| a, b, c, d, e, f, g |     |     |    |
| a, b, d, e, g, f, c |     |     |    |
| a, b, c, e, d, g, f |     |     |    |

### DFS from Denver



### BFS from Denver

