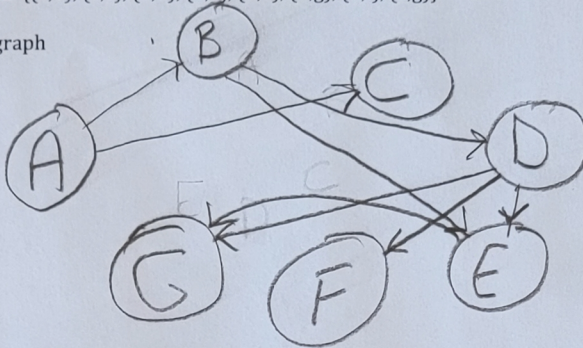


CS165 graph traversal worksheet

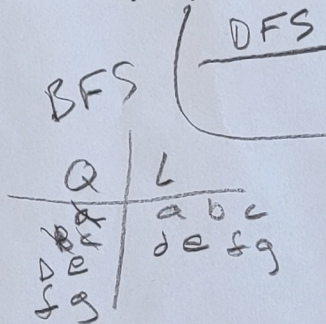
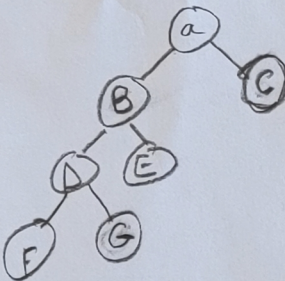
John
Farrell
name:
id:
836 257 500
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Given a directed graph with
nodes {a, b, c, d, e, f, g} and
edges {(a,b), (a,c), (b,d), (b,e), (d,e), (d,g), (d,f), (e,g)}

a) Draw the graph



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



stack	Set
a	a
b	b
c	c
d	d
e	e
f	f
g	g

c) Which of the following is depth first search (DFS), breadth first search (BFS), or Topological Sort (TS) (any valid letter order, no priorities)

DFS BFS TS

a, b, c, d, e, f, g BFS

a, b, d, e, g, f, c DFS

a, b, c, e, d, g, f TS