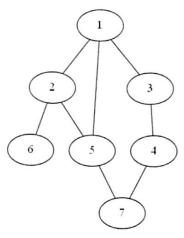
Namo	ulia Nelson	
Name:	10119 ME1201	

Date: 02 29 2020

Pledge: "I pledge my honor that I have swicked by the Stevens Honor System."

For each of the graphs below, list the order in which the vertices are visited in a **breadth-first search**, starting with vertex 1. If there are multiple vertices adjacent to a given vertex, visit the adjacent vertex with the lowest value first. Then repeat the process for **depth-first search**.

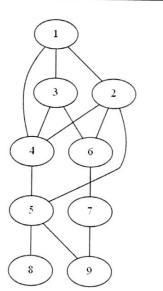
1.



BFS: 1,2,3,5,6,4,7

DFS: 1,2,5,7,4,3,6

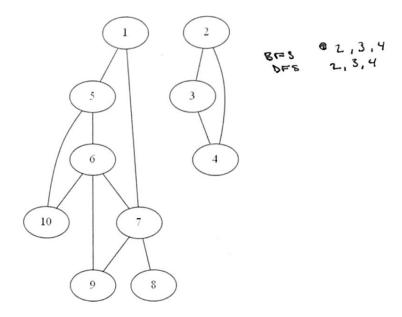
2.



BFS: 1,2,3,4,5,6,8,9,7

DFS: 1,2,4,3,6,7,9,5,8

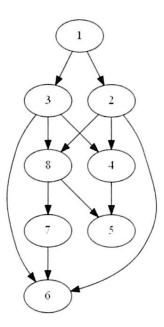
3.



DFS: 1,5,6,7,6,10,8,9

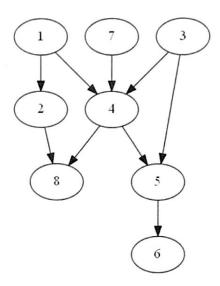
For each of the graphs below, list the order in which the vertices are visited in a **topological sort**, starting with vertex 1. If there are multiple vertices adjacent to a given vertex, visit the adjacent vertex with the lowest value first.

4.



Topological sort: 1, 2, 3, 4, 8, 5, 7, 6

5.



Topological sort: 1, 2, 3, 7, 4, 5, 8, 6