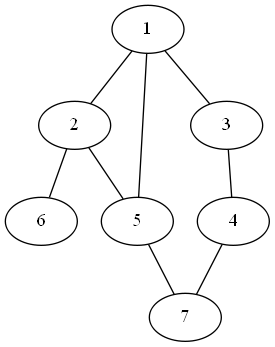
Name: \_\_\_Grace Miguel\_\_\_\_\_\_\_ Date: \_\_3/12/21\_\_\_

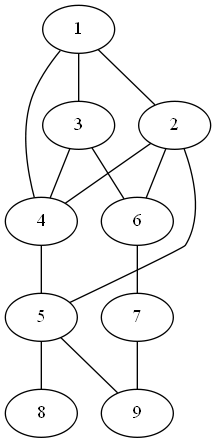
Pledge: \_\_\_I pledge my honor that I’ve abided by the Stevens Honor System.\_\_\_\_\_\_\_\_

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. 

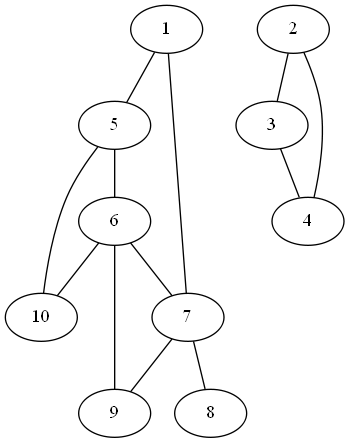
BFS: 1 2 3 5 6 7 4\_\_\_\_\_\_\_\_

DFS: \_\_\_1 2 5 7 6 3 4\_\_\_\_\_\_\_\_\_\_

1. 

BFS: \_\_1 2 3 4 5 6 8 9 7\_\_\_\_\_

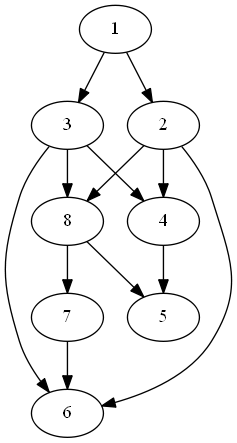
DFS: \_1 2 4 5 8 9 6 7 3 \_\_\_\_\_\_\_\_\_\_

1. 

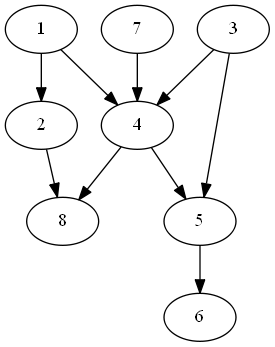
BFS: \_\_\_\_1 5 7 6 10 8 9 2 3 4 \_\_\_\_\_\_\_\_\_\_\_\_

DFS: \_1 5 6 7 8 9 10 2 3 4\_\_\_\_\_\_

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.

1. 

Topological sort: \_\_1 2 3 4 8 5 7 6\_\_\_\_\_\_\_\_\_

1. 

Topological sort: \_1 2 3 7 4 5 6 8\_\_\_\_\_\_\_\_\_