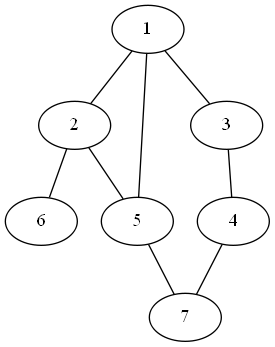
Name: \_\_Joshua Schmidt\_\_\_ Date: \_\_\_\_10/3/2019\_\_\_\_\_\_

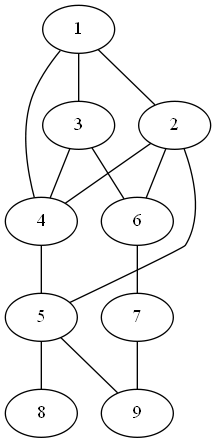
Pledge: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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. 

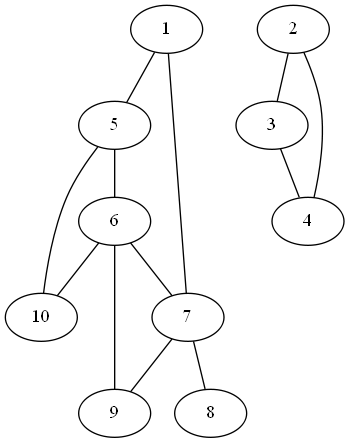
BFS: \_\_\_\_\_1 2 3 5 6 4 7\_\_\_\_\_\_\_\_

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

1. 

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

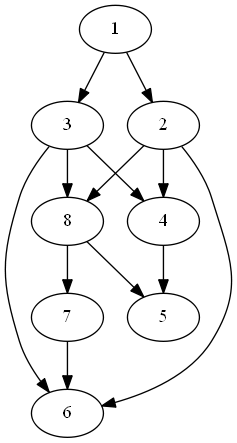
DFS: \_\_\_\_\_\_\_\_\_\_1 2 4 5 8 9 7 6 3\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. 

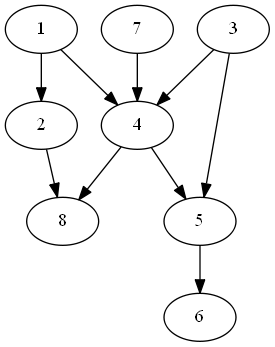
BFS: \_\_\_\_\_\_\_\_\_1 5 7 6 10 8 9 2 3 4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



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