Implementation of data structures and algorithms
Short Project 5: Depth First Search Applications

Version 1.0: Initial description (02/13/20).
Due: Sunday, Feb 23 2020 at 11:59 PM

Do not modify Graph.java
Submission procedure: same as usual.

Team task:

1. Implement topologicalOrdering1() in the starter code (DFS.java). This is the DFS-based algorithm for finding the topological ordering of a directed acyclic graph.

Practice task (optional):

2. Implement topologicalOrdering2(g) in the starter code. In this algorithm, we identify a node with no incoming edges, and remove it and all of its edges. Repeat this until the graph is empty.

3. Implement connectedComponents() in the starter code. In this algorithm, use DFS to find the number of connected components of a given undirected graph. Each node gets a cno. All nodes in the same connected component receive the same cno.