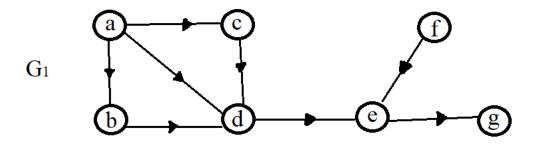
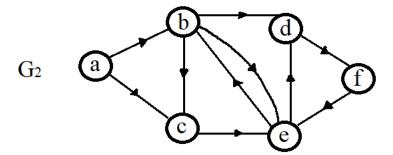
......

Note: you can have different names for vertices: $\{a \ b \ c \ d \ e ..\} = \{v1 \ v2 \ v3 \ v4 ..\} = \{1 \ 2 \ 3 \ 4 ..\}$

In this program you are required to implement DFS.

First, you can create the below graphs and print the resulting adjacency matrices/lists. Or create a random graph.





- 1. Run DFS function to check if the graph is a DAG (directed acyclic graph):
 - ✓ Search for backward edges. If there are any, print: "Cycle detected, topological sort is impossible".
- 2. If the graph is DAG, (while running DFS):
 - ✓ Insert the vertex into a linked list as it finishes.
 - ✓ Using your linked list, print the topological order of the vertices along with their *start/finish time*.