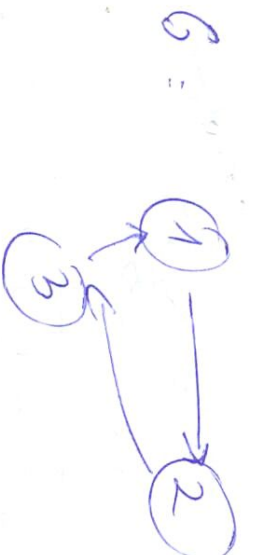


G : 
 It is not a DAG, there is no topological order of the vertices.

| calls. | x, y | inProcess | fullyProcessed | visited | ok. |
|--|----------------|--|----------------|---------------|--------|
| initialization | | | | | |
| $\text{TopoSortDFS}(G, 1, \{1\}, \{1\})$ | $x=1$ $y=3$ | $\{1\}$ $\{1, 3\}$ | $\{1\}$ | $\{1\}$ | |
| $\text{TopoSortDFS}(G, 3, \{1\}, \{1, 3\})$ | $x=3$ $y=2$ | $\{1, 3\}$ $\{1, 3, 2\}$ | $\{1\}$ | $\{1, 3\}$ | |
| $\text{TopoSortDFS}(G, 2, \{1\}, \{1, 3, 2\})$ | $x=2$ $y=1$ | $\{1, 3, 2\}$ $\{1, 3, 2, 1\}$ | $\{1\}$ | $\{1, 3, 2\}$ | false. |
| | $x=3$ | $y=1 \in \text{inProcess} \Rightarrow$ | | | false. |
| | $x=1$ | | | | false. |

G is not a DAG.