Topological sort

[def]

For a dag (directed acyclic graph) G=(V,E), it is linear ordering of all its vertices such that if G contains an edge (u,v), then u appears before v in the ordering.

[intro]

If the graph contains a cycle then no linear ordering is possible.

It can be implemented with DFS.

[analysis]

[theorem]

1.

2.

[pf]

1.

(1)

(2)

Hence proved.

2.

Hence proved.

[pseudo code]