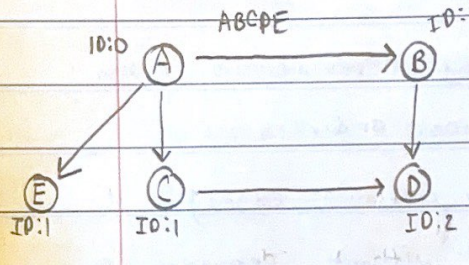
Topological Sort #5

Topological sort → of a directed graph is a linear ordering of its vertices such that for every directed edge UV from vertex u to vertex v, u comes before v in the ordering.



(in topological sort we just focus on the indegree of a vertex)

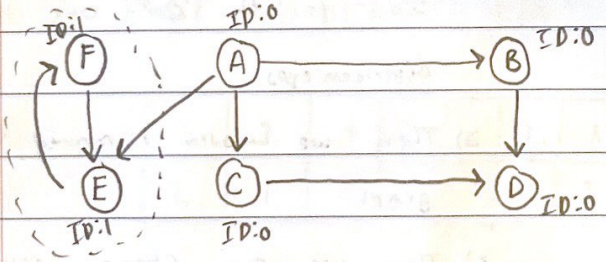
(1) we start out by going to A, as it is ID:0.

(2) After visiting A, all the Nodes that need A will turn into ID:0

(3) So now we can visit E, D, B in any order

(4) continue visiting all of them

Now if we have: ABCDE



↳ Cycle exists in the graph!

Steps

. we need to calculate in-degree for all vertices [Array]

.

Time Complexity

O(V+E)