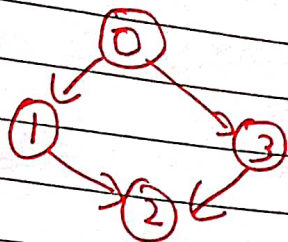


★ Topological sort

Date

A Directed Acyclic Graph (DAG) is a directed graph that contains no cycles.

Topological sort is a linear ordering of vertices such that for every edge $u \rightarrow v$, 'u' always appears before 'v' in that ordering.



0, 1, 3, 2 \rightarrow check if it is valid TS

adj list

0 \rightarrow 1, 3

1 \rightarrow 2

2 \rightarrow

3 \rightarrow 2

In it ~~every element~~ pattern me '0' jo hai wo '1' or '3' ke path ki same as in adj. list same goes for every other element. So, this pattern is valid TS

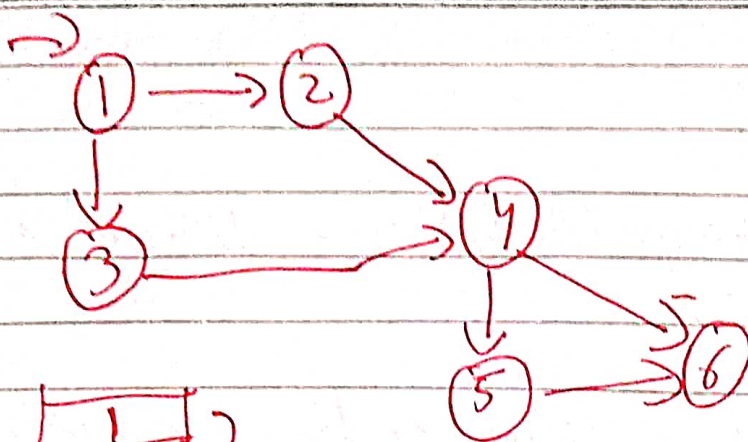
0 \rightarrow 1 ek edge ki to jo bhi hai

linear ordering nikalunga usme '0' '1' ke phle aayega

logic \rightarrow Dfs

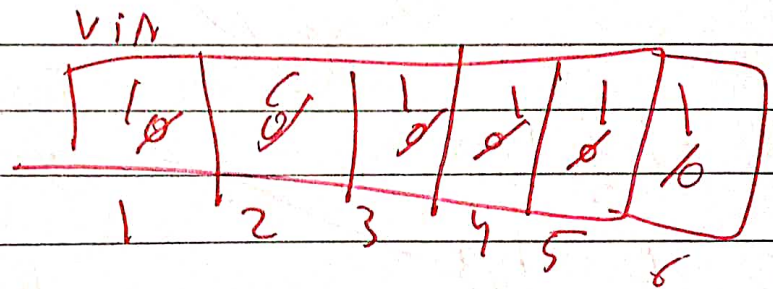
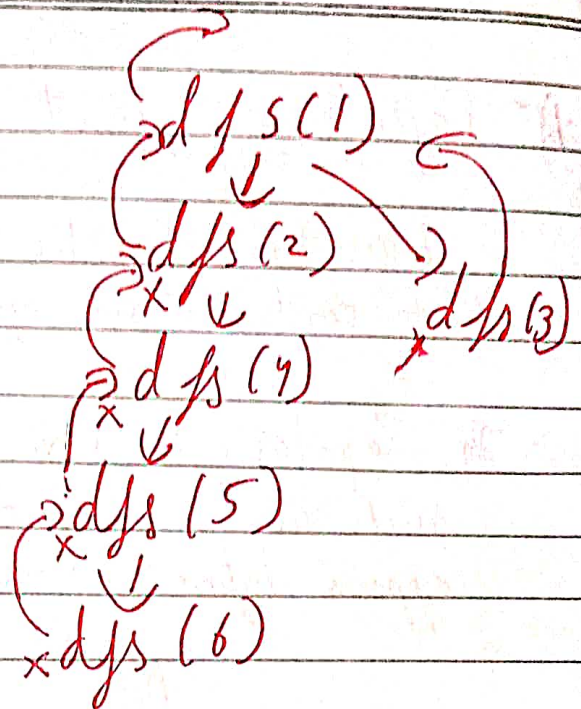
agar valid TPS nahi hai to matlab graph me cycle present hai

Date _____



→ 1, 3, 2, 4, 5, 6

Stack



- 1 → 2, 3
- 2 → 4
- 3 → 4
- 4 → 5, 6
- 5 → 6
- 6 →

"Stack me tab ja rha hai jab uske
aage nahi ja pa rahi"