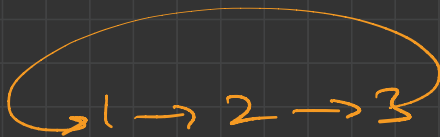


$\boxed{0 \rightarrow 1 \rightarrow 3 \rightarrow 2} \rightarrow \underline{\text{Valid TS}}$

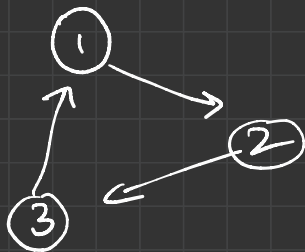
$3 \rightarrow 2 \rightarrow 1 \rightarrow 0 \rightarrow \underline{\text{Invalid TS}}$



$\boxed{1 \rightarrow 2}$

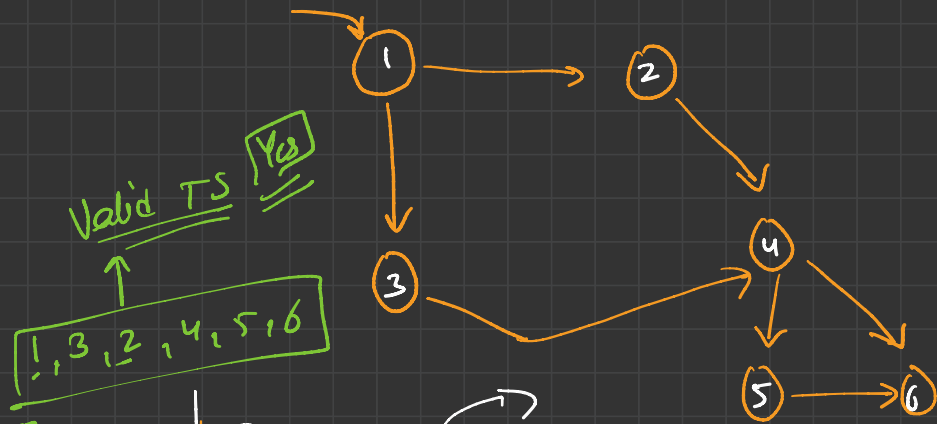
$\boxed{2 \rightarrow 3}$

$\boxed{3 \rightarrow 1}$



$\underline{1} \rightarrow \underline{2} \rightarrow \underline{3} \rightarrow ? \quad \boxed{\text{Valid TS}}$

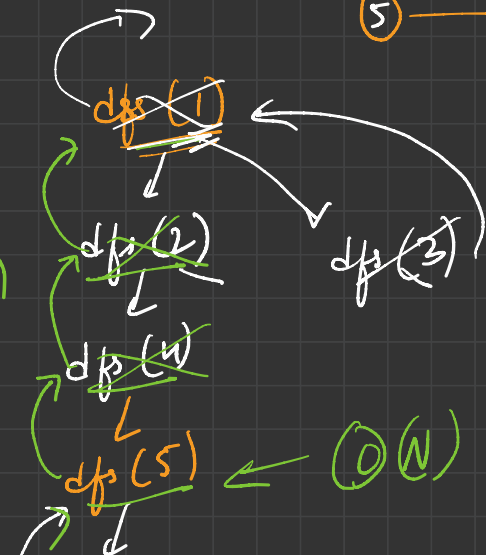
$\boxed{0 \rightarrow 1 \rightarrow 2 \rightarrow 3} \rightarrow ?$
 $\underline{1} \rightarrow \underline{2}$
 $\underline{2} \rightarrow \underline{3}$
 $\underline{3} \rightarrow \underline{2}$



Valid TS Yes
 [1, 3, 2, 4, 5, 6]

1
3
2
4
5
6

stack (LIFO)
 why?



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

logic → DFS
 flow

for (int i = 1; i ≤ n; i++)
 if (!vis[i])
 dfs(i)

T.C → $O(N+E)$
 S.C → Linear

1/0	1/0	1/0	1/0	1/0	1/0
1	2	3	4	5	6

↑

