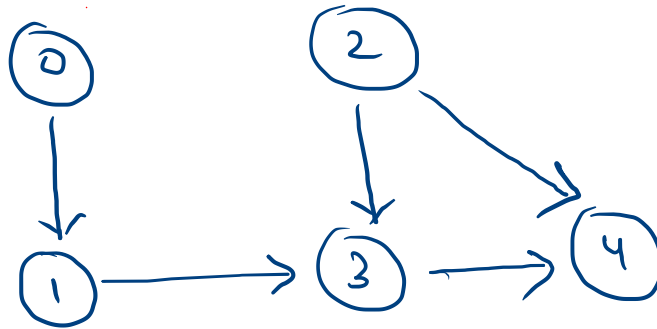


Topological Sort (DFS Based solution)

•> Till now, we understood, Topological Sort (BFS Based solⁿ)



⇒

0 2 1 3 4

~~2 0 1 3 4~~

~~0 1 2~~

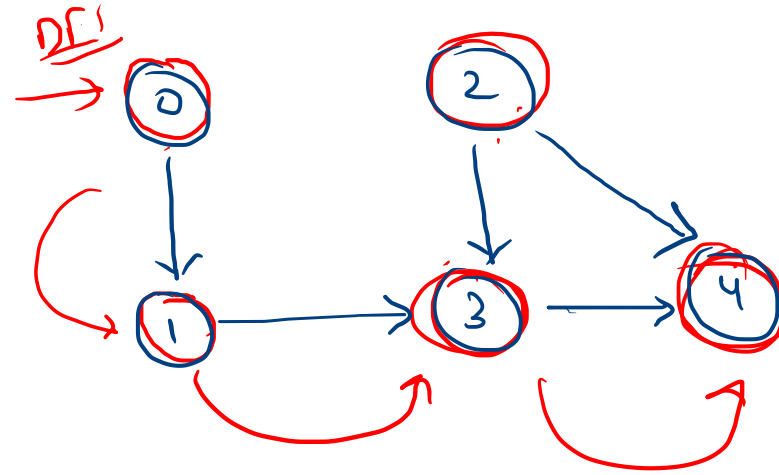
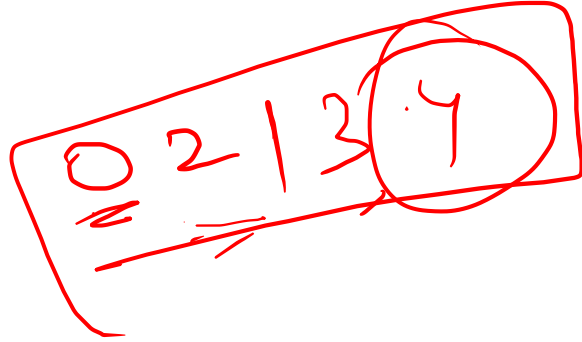
0 1 2 3 4

0 2 1 3 4

/

Common
Observation

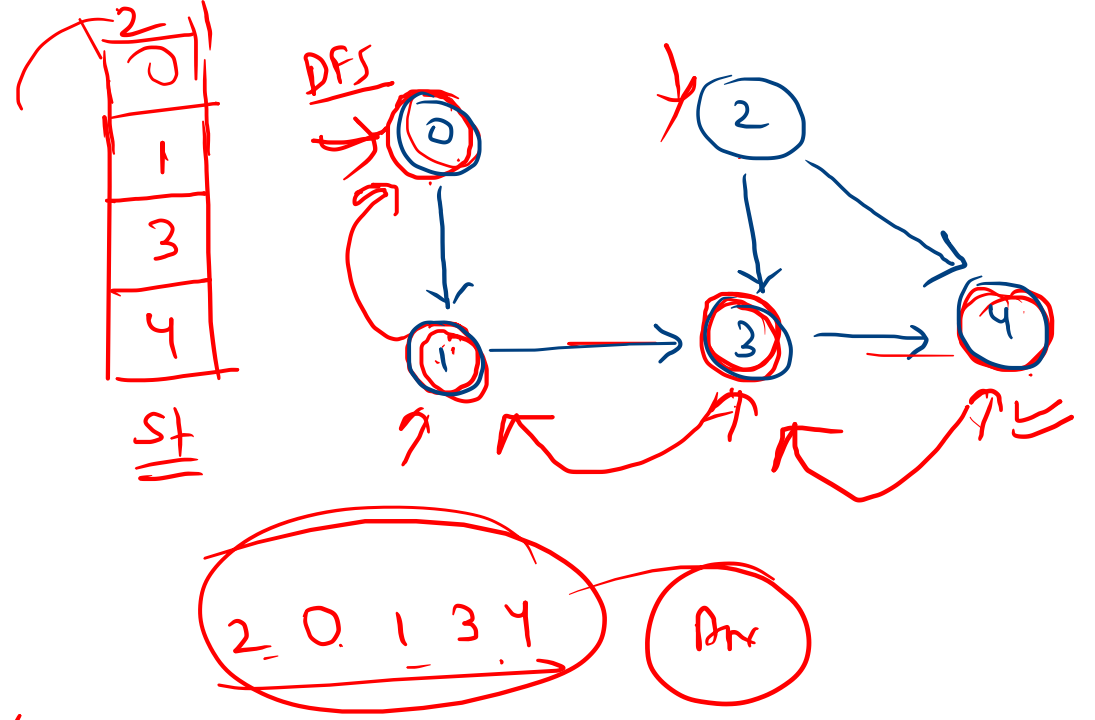
→ Topological Sort



DFS Based Solution

- 1) Create a Empty stack, st
- 2) Now, DFS traversal
for every vertex u , do following
if(u is not visited)
DFSRec(u , st)

- 3) Empty stack, and print vertex



DFSRec(u , st)

- 1) mark u is visited ✓
- 2) for every adjacent v of u , do following
if(v is not visited)
DFSRec(v , st) ✓
- 3) Push u to stack ✓