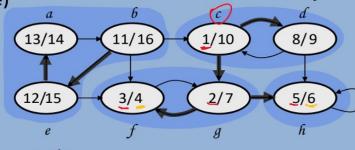
1. A directed graph is strongly connected if there is a path between all pairs of vertices.

2. A strongly connected component (SCC) of a directed graph is a maximal strongly connected subgraph.

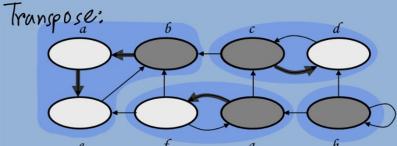


d (starting time) and f (finishing Example time)



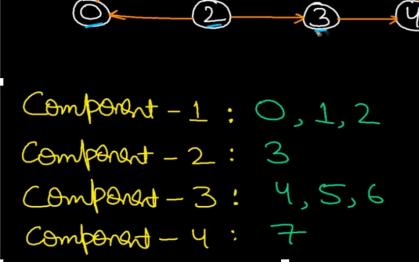
DFS on the initial graph G

b e a c d g h f 16 15 14 10 9 7 6 4



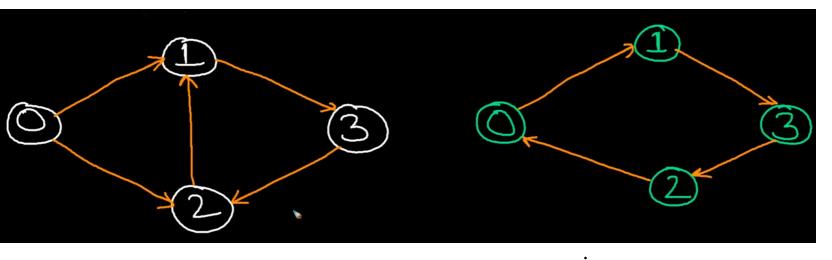
DFS on GT:

- start at b: visit a, e
- start at c: visit d
- start at g: visit f
- start at h



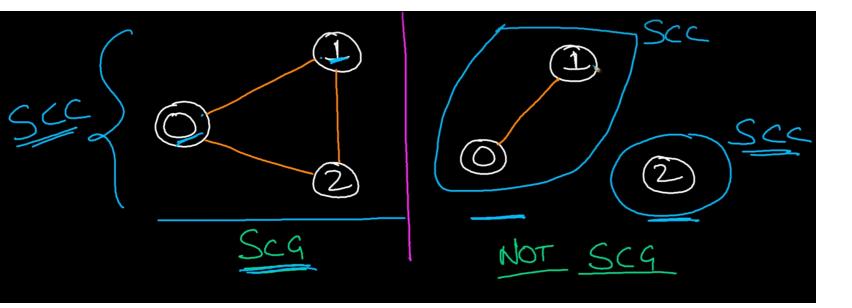
Single node is always strongly connected

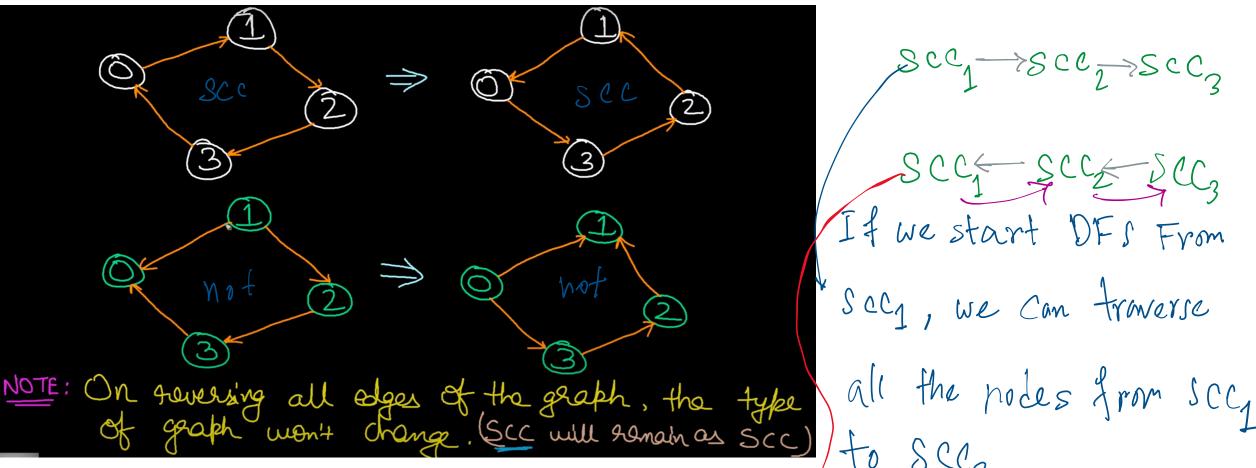
Scc:if we can reach from every vertex to every vertex in a component



We can reach to every vertex if we start from 0 but If we start from 1, we cant reach 2 and so it is not scc

SCC





When we jump monually component But if we so the same will be discovered. Time com. Of Kosaraju Algorithm: 3(v+e) from Scc1 to Scc2, we have Asl it takes 3 steps to create a manual path for the same and the same a