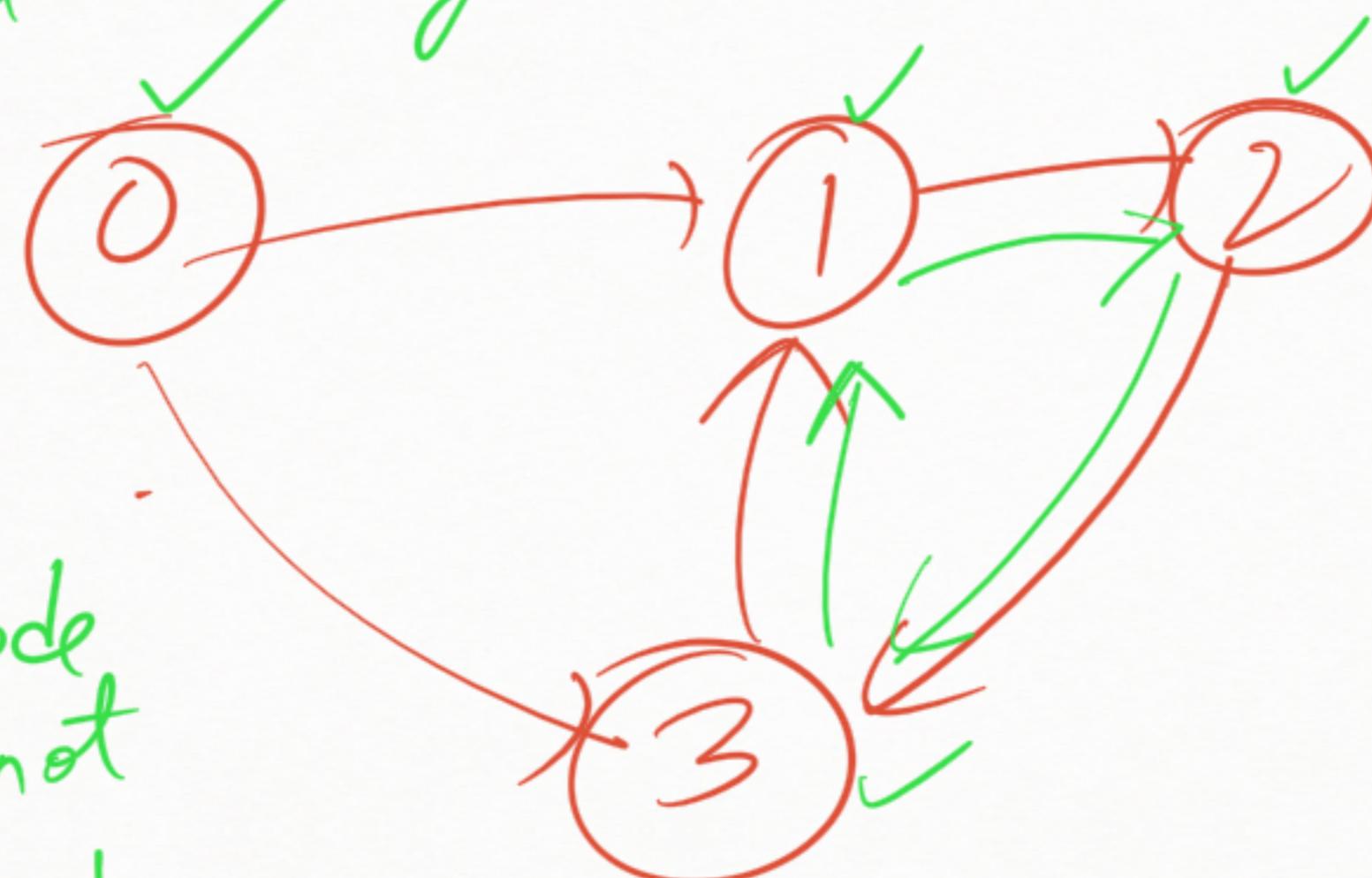


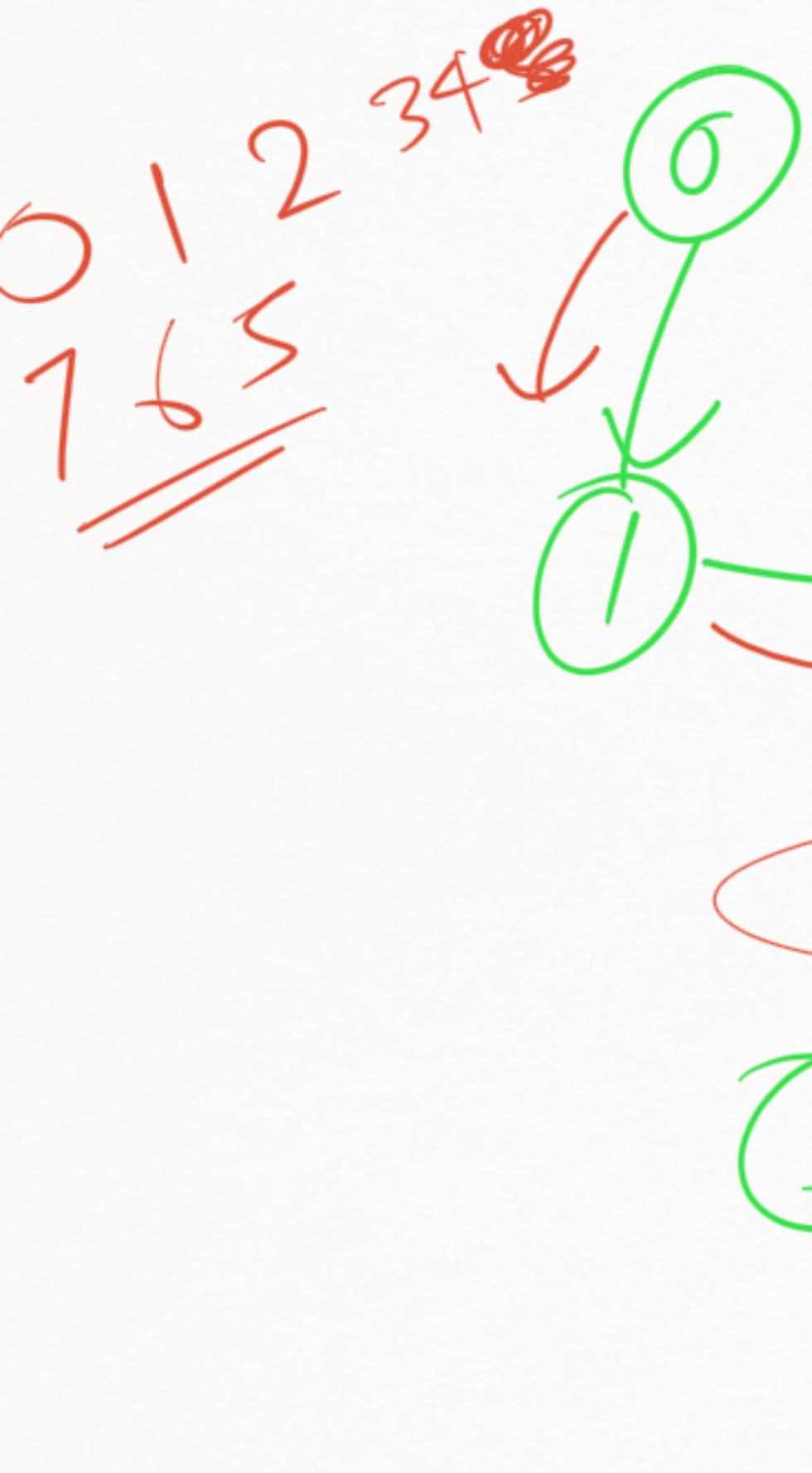
## = Topological Sorting

→ we start with <sup>one of</sup> the node which does not have a dependency

→ we start visiting the nodes whose dependency has been already called



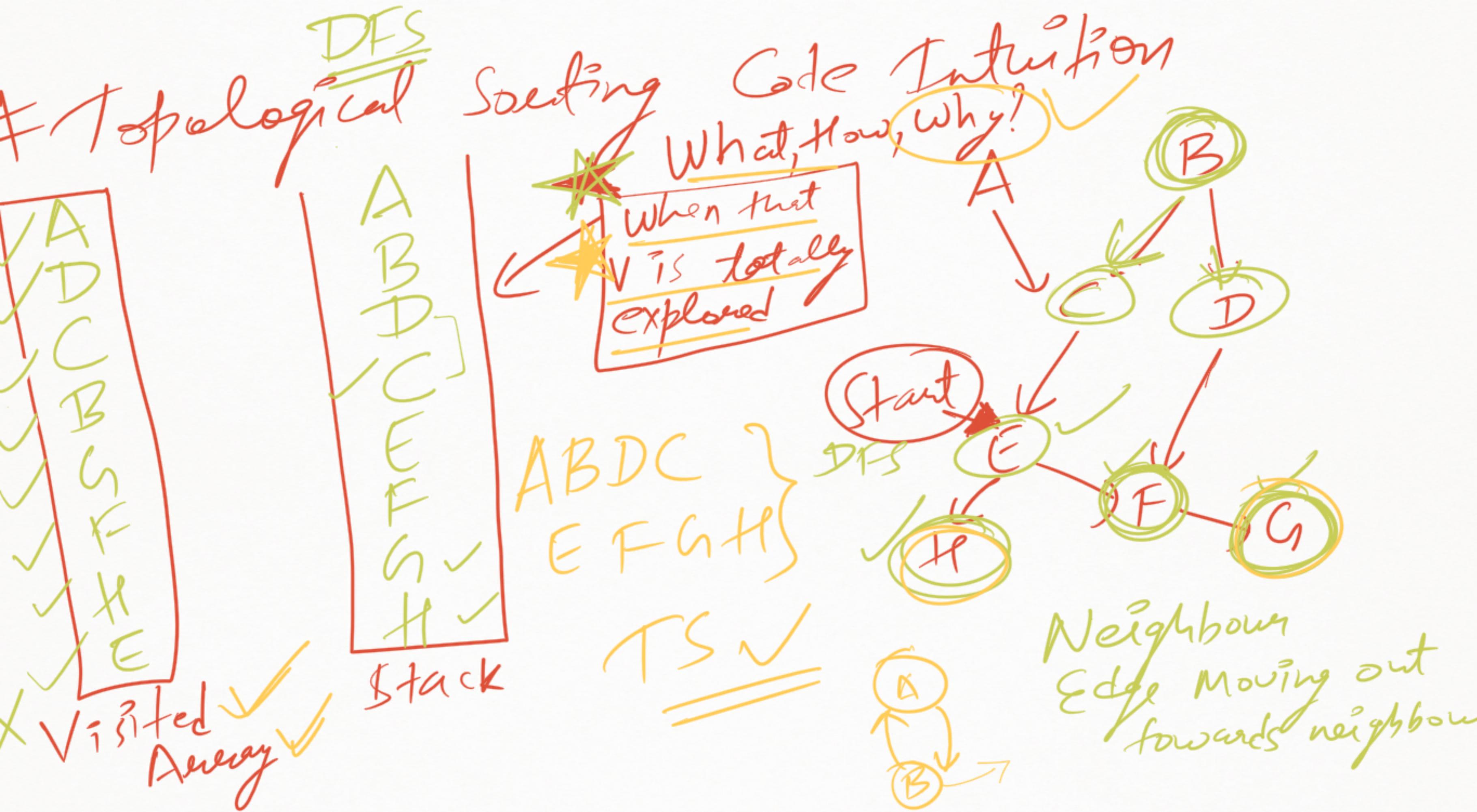
Whenever there is a cycle you can not write a T.S

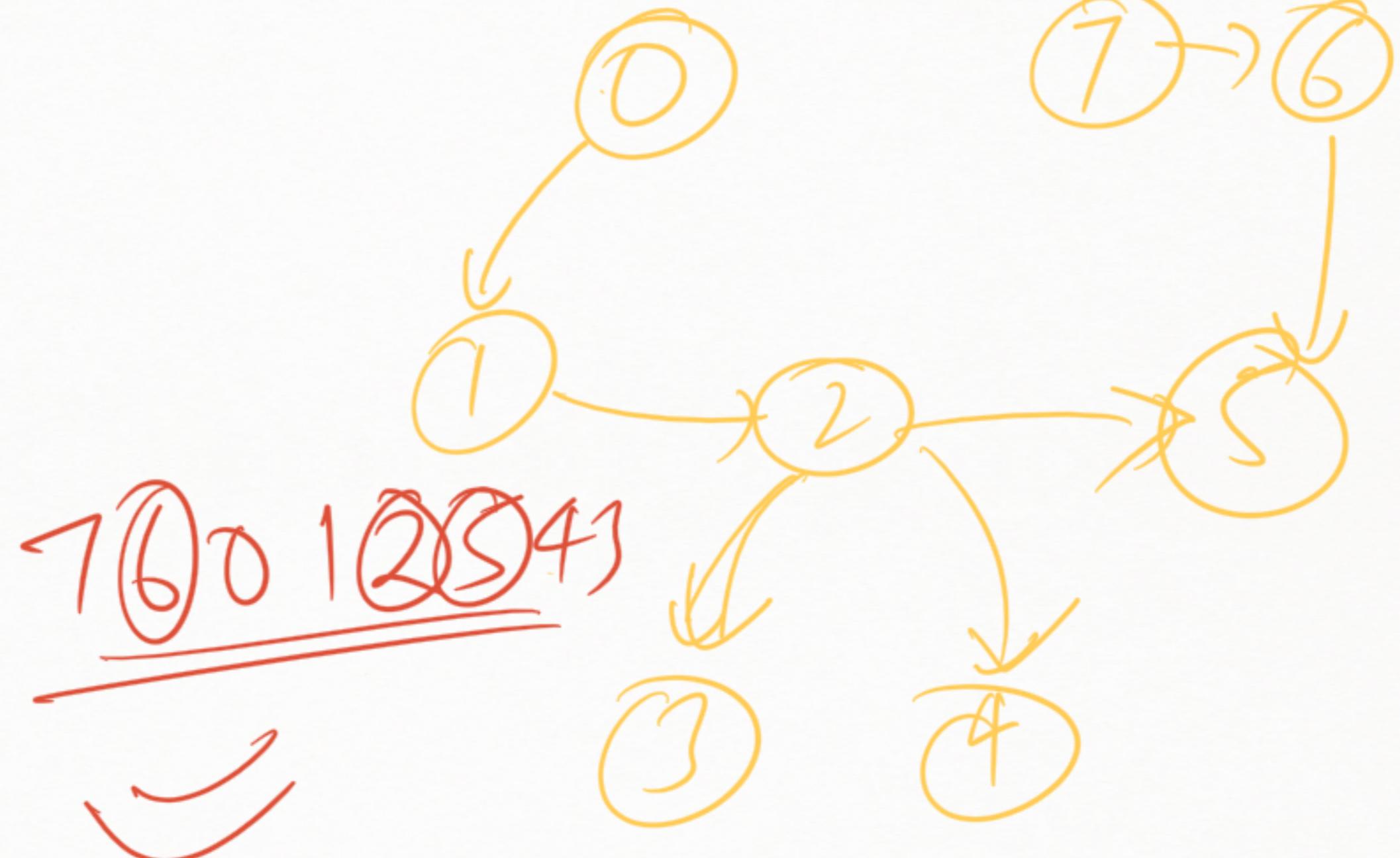
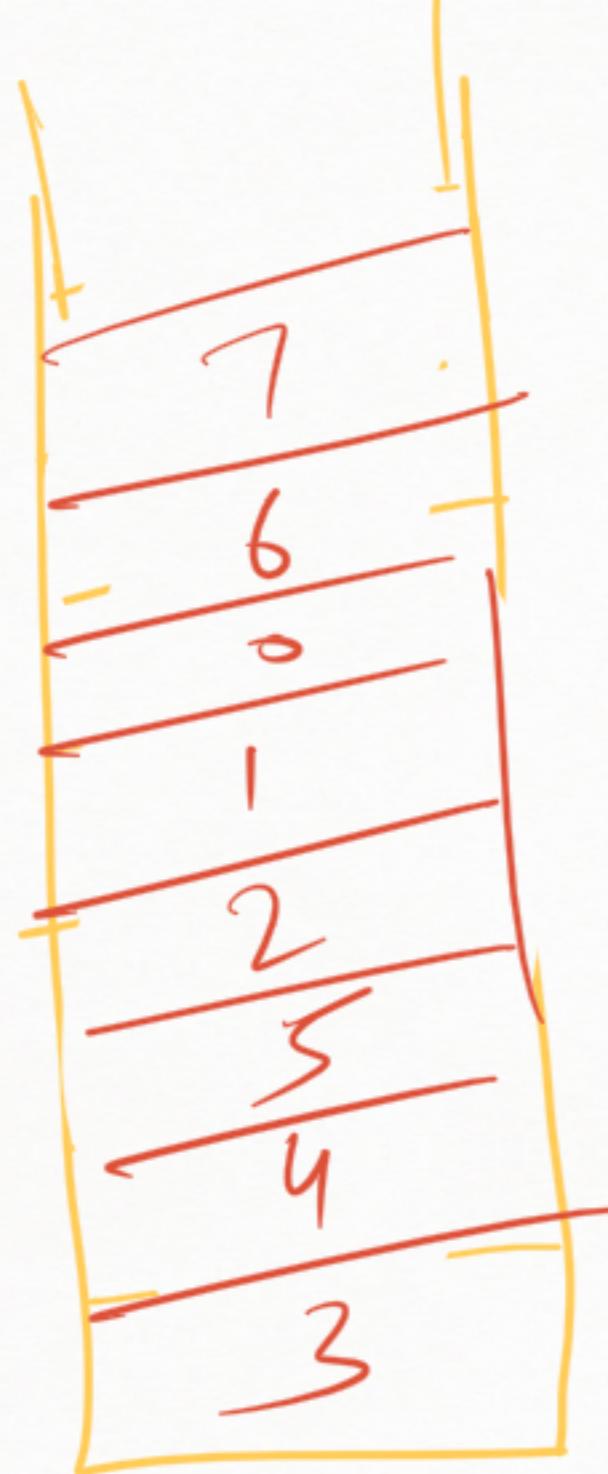


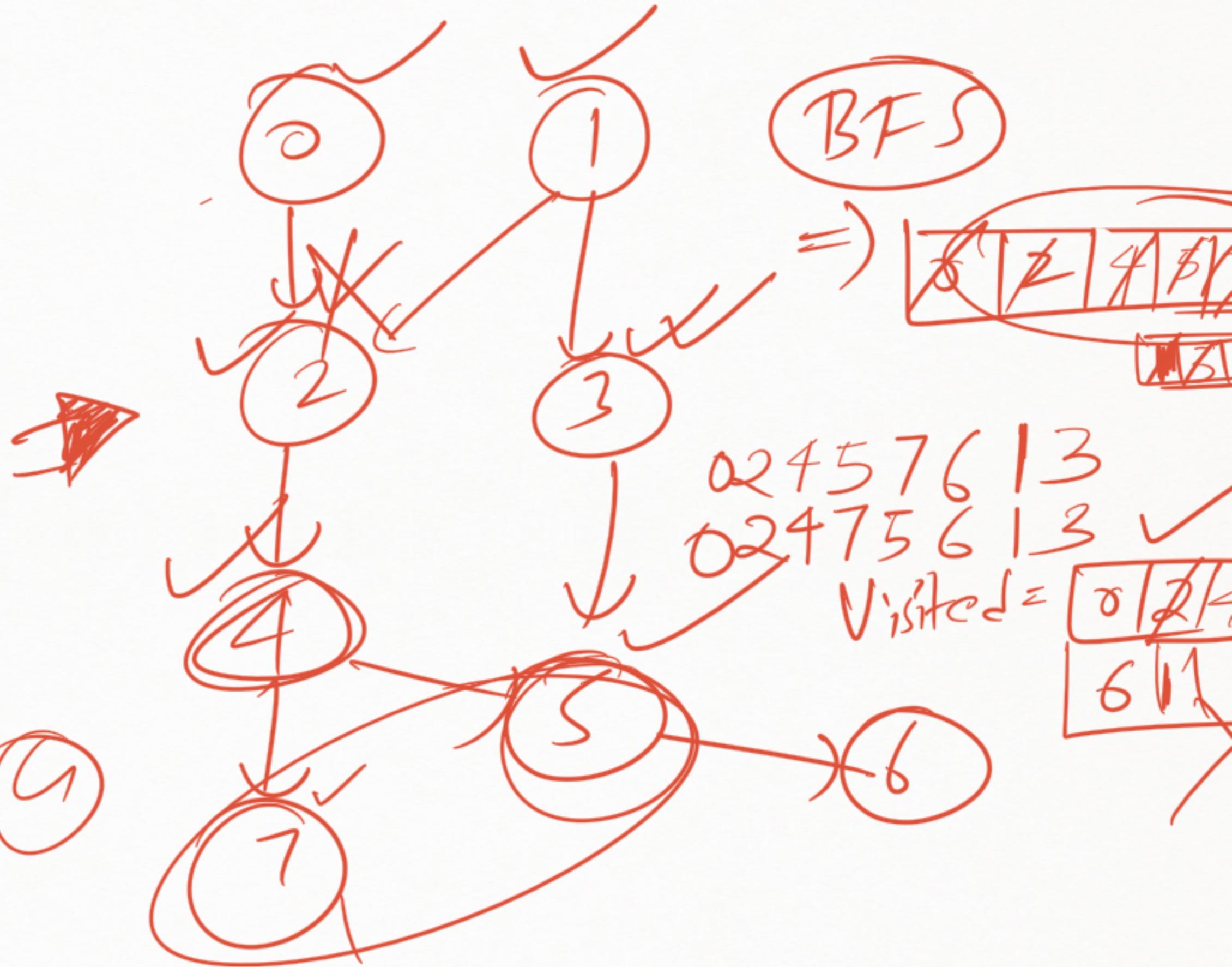
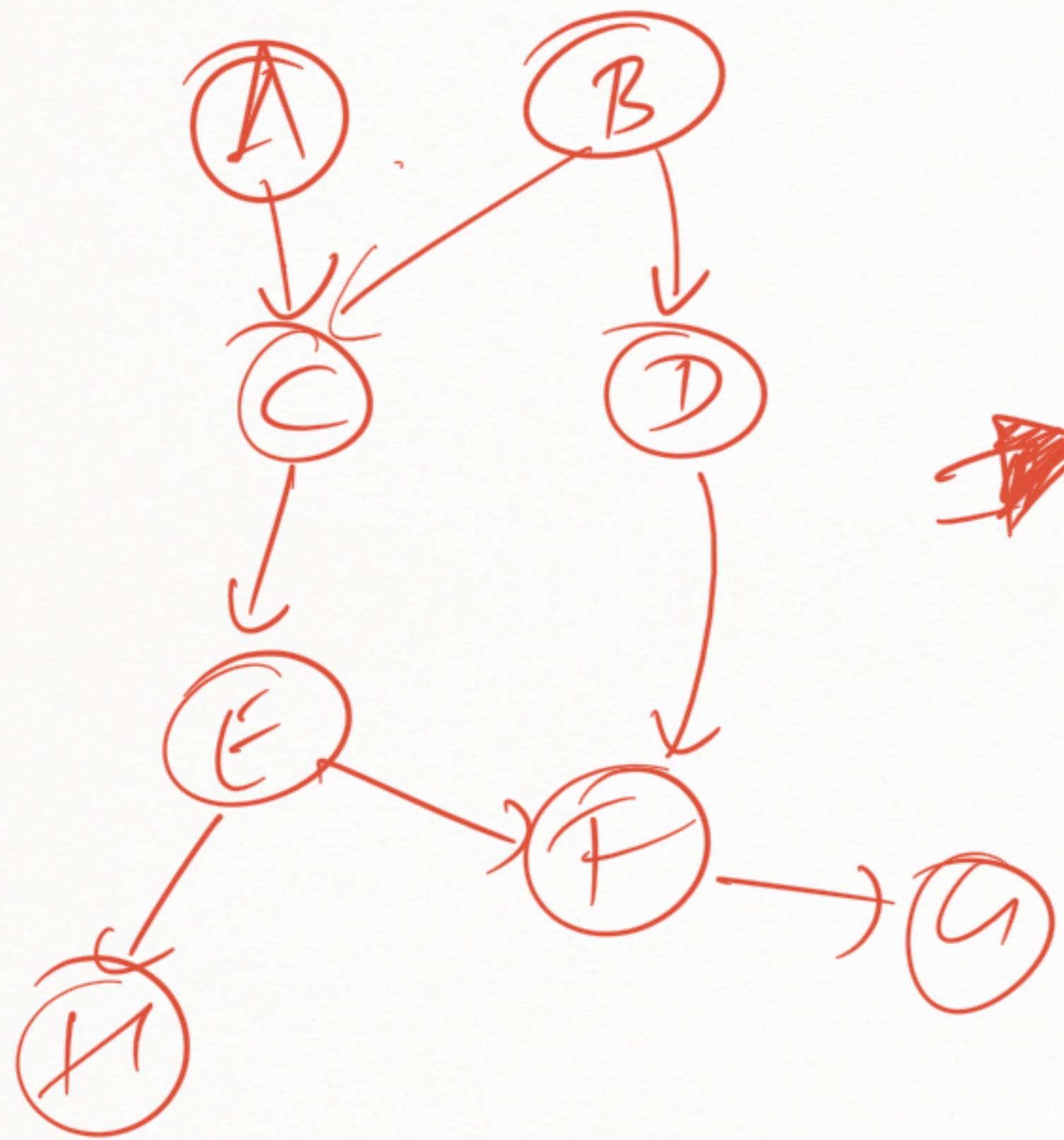
BFS 0 1 2 3 4 5 1 0 1 2 0 = 

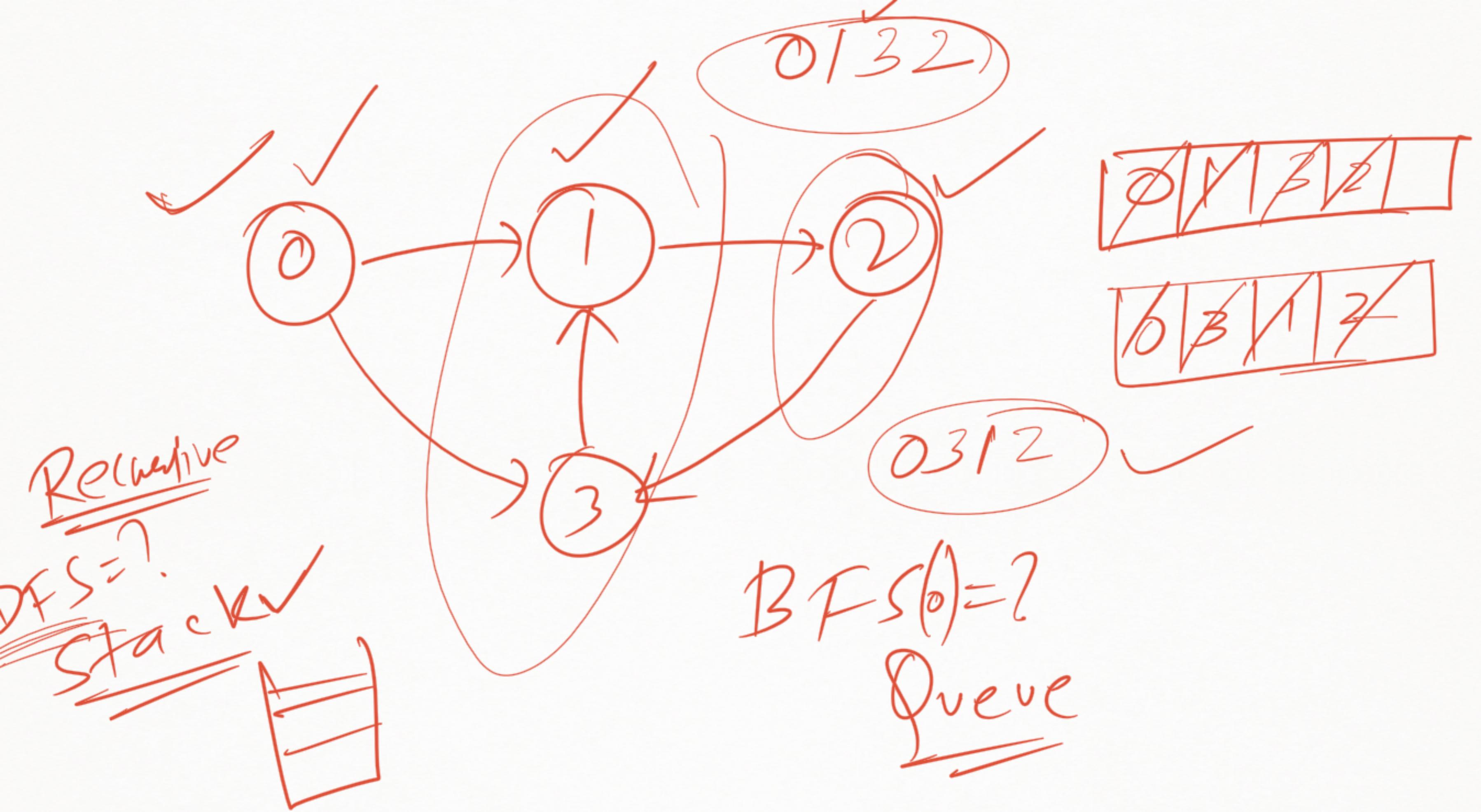
0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15

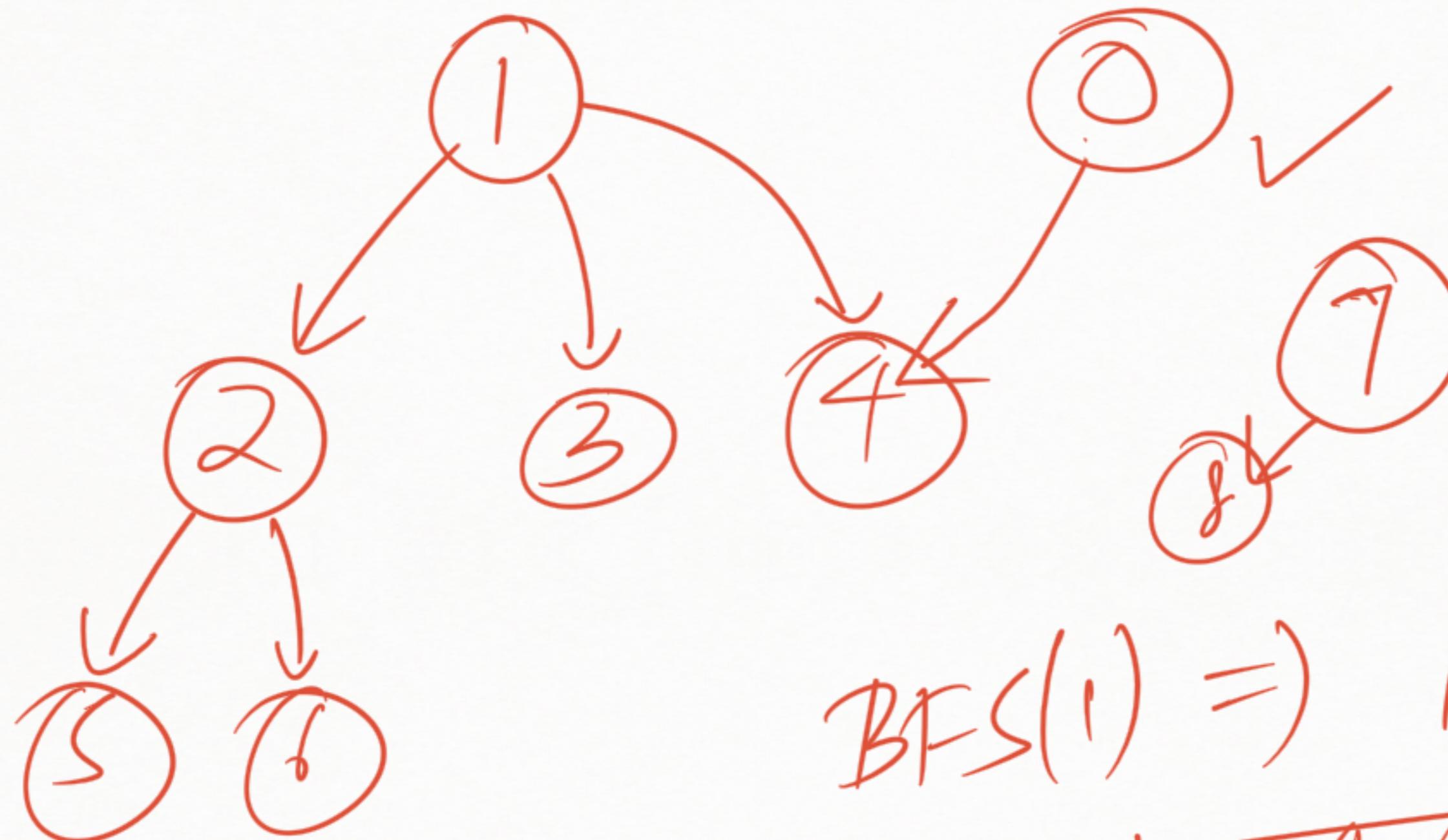
  
 ① BFS (0)  
 ② DFS (0)  
 ③ TS  
 BFS 0 1 2 3 4 5 1 0 1 2 0  
 DFS 0 1 2 3 4 5 1 0 1 2 0  
 → 0 1 2 4 5 3 1 0 1 2  
 ↗ 0 1 2 3 1 0 1 2 9 6  
 ↘ 7 6











$BFS(1) \Rightarrow 1 2 3 4 5 6 7$

