Matrix BFS & DFS Problems

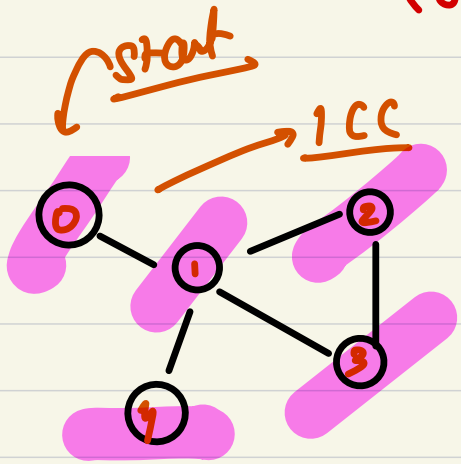
↓

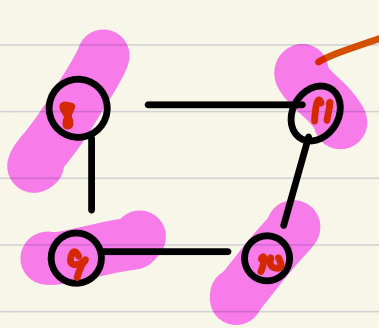
(we convert / visualize our matrix in the form of a graph.)

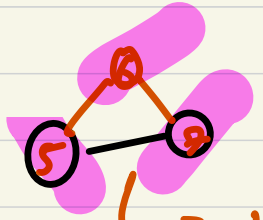
Connected Components → DFS / BFS

(every node represent land)

connected nodes are part of same island







visited bool

You try to do bfs/dfs from every node- except

those which are already visited.

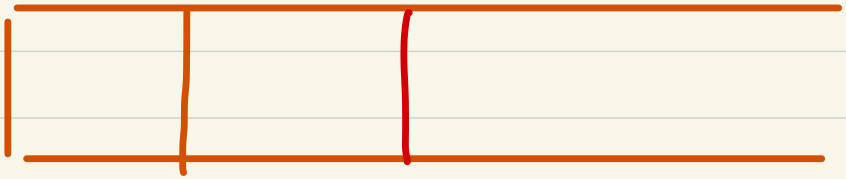
No. of times we hit the bfs/dfs func^n is our CC count.

CC = 1 / 2 / 3

	0	1	2	3	4
0	-1	-1	0	0	0
1	-1	-1	0	0	0
2	0	0	-1	0	0
3	0	0	0	0	0
4	0	0	0	-1	-1

go to every cell of grid assuming a node. if cell value is 0, skip it

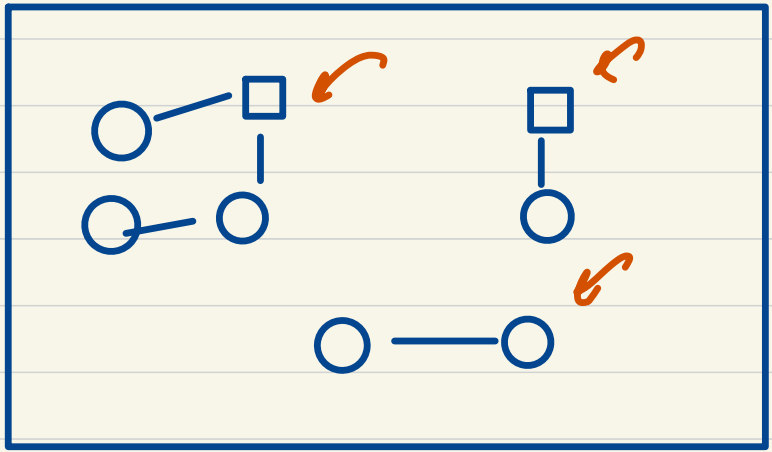
if you see 1, do bfs/dfs

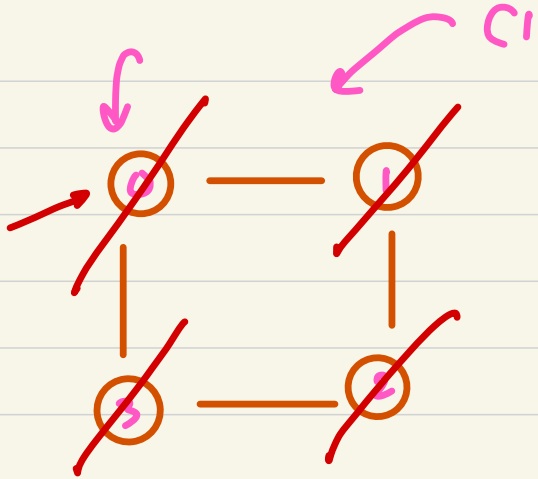


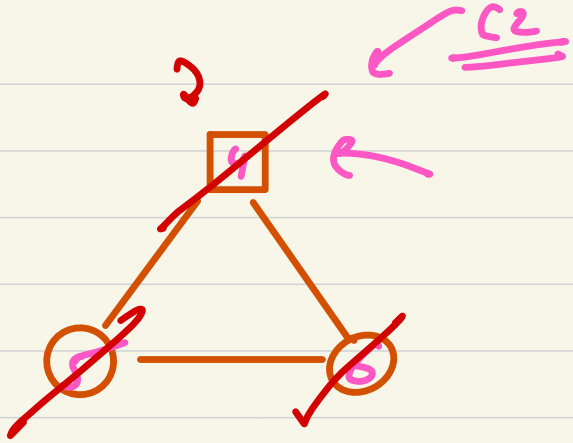
(4,3) (4,4)

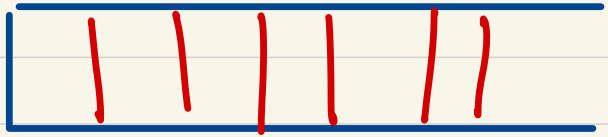
Multi Source Bfs Problems

Dfs









0 4 1 3 5 6 2

if one oray is rotten, it will not wait for any other rotten oraye to rot its neighbours.

That's why we have to parallely start notify the neighbours.