COP 4576   3/24/26
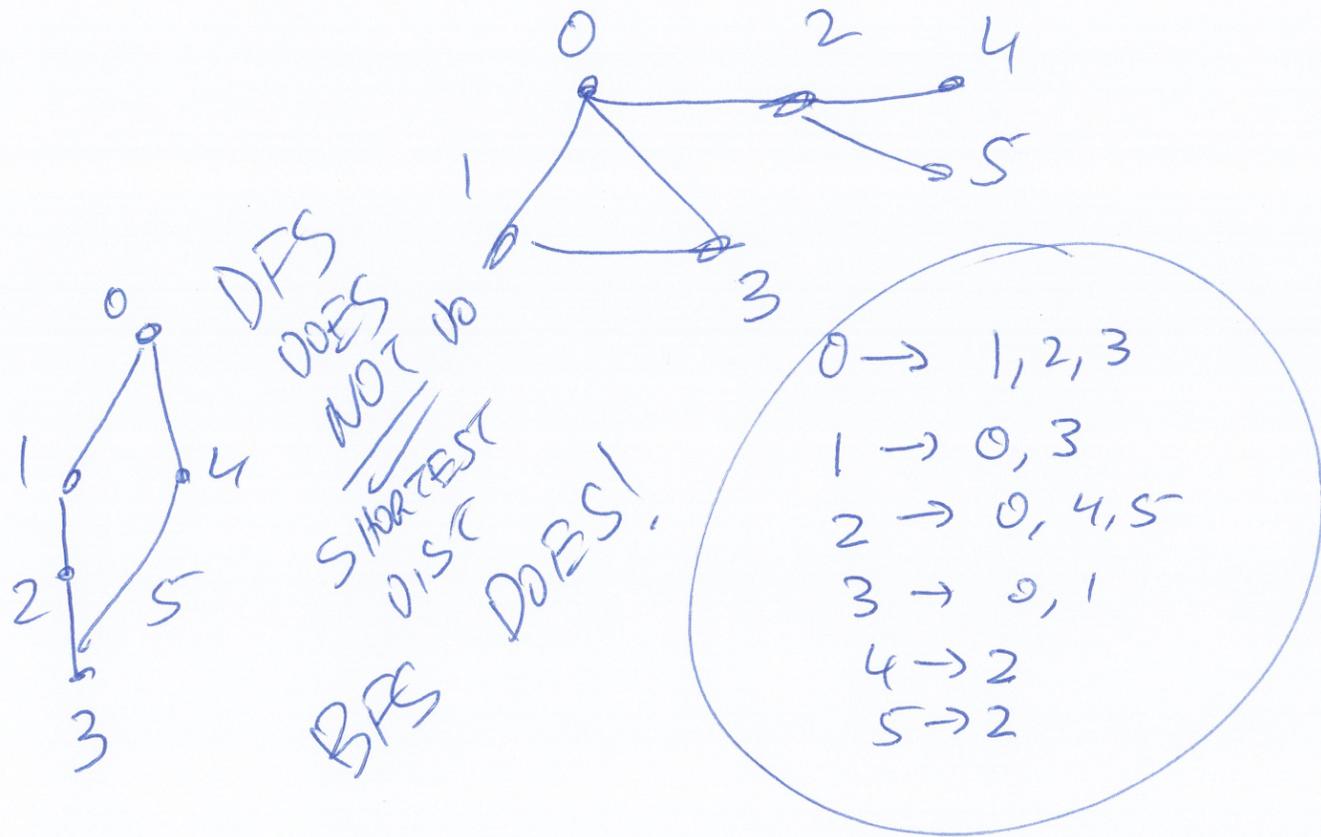
1) Individual Practice   COP4576.ucfprogrammingteam.org

2) Codeforces Reminder

3) FRIDAY - I'M NOT HERE !!!

4) DFS/BFS/Top Sort   unweighted graphs

DFS DOES NOT DO SHORTEST DIST

BFS DOES!

0 → 1, 2, 3
1 → 0, 3
2 → 0, 4, 5
3 → 0, 1
4 → 2
5 → 2

TOP SORT

S: 4, 6, 8, 1, 0, 3, 7
10, 5, 2, 9

Q: 6, 8, 4, 0, 3, 7, 10, 5, 2, 9
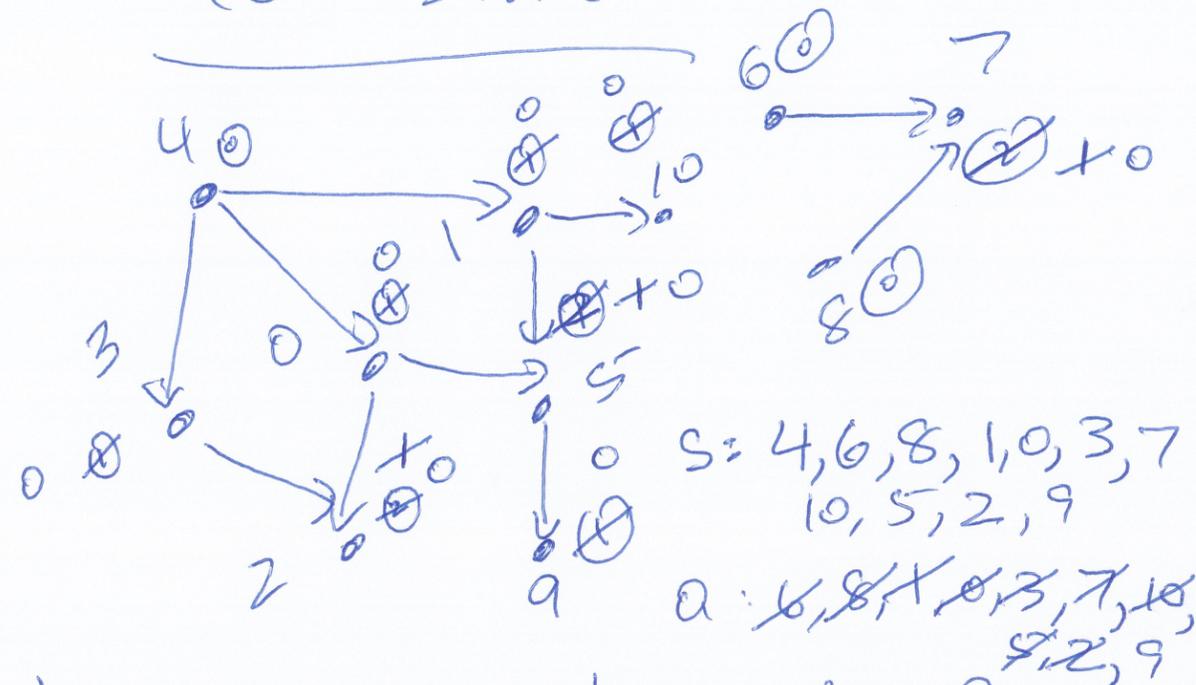
1) Init Q w/ all vertices in deg = 0

2) while q not empty:
    a) x = dequeue( )
    b) Add x to schedule
    c) Subtract 1 from target of
        each edge leaving x
    d) if any in deg goes to 0,
        add to queue

If you get stuck before
ordering everything then no top
sort is possible!