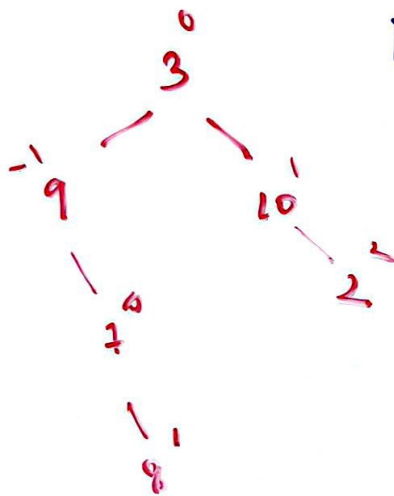Left: root dep −1

Right: root dep + 1

DFS:

0 : [3, 7, 1]

−1 : [9]

1 : [8, 10] → 10 should come before 8

2 : [2]

So for DFS, we would additionally have to maintain level & sort acc. to level.