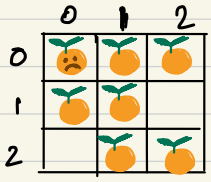
ROTTING ORANGES.

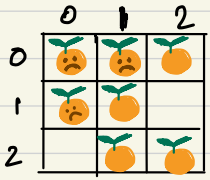
0 : EMPTY
1 : FRESH
2 : ROTTEN



$t = 0$

rotten = (0,0)

q [(0,0)]



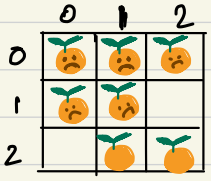
$t = 1$

(0,0) → (0,1)
→ (1,0)

current = (0,0)

q [(0,1), (1,0)]

AT EACH CLOCK TICK, INFECTED ORANGES, INFECT THEIR NEIGHBORS IF NOT ALREADY INFECTED.



$t = 2$

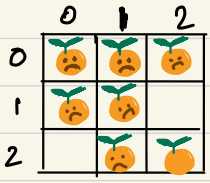
(0,0) → (0,1) → (0,2)
→ (1,1)
→ (1,1) ← same

current = (0,1)

q [(1,0) (0,2) (1,1)]

current = (1,0)

q [(0,2) (1,1) (1,1)]



$t = 3$

(0,0) → (0,1) → (0,2) → (2,1)
→ (1,0) → (1,1)
→ (1,1)

current = (0,2)

q [(1,1) (1,1)]

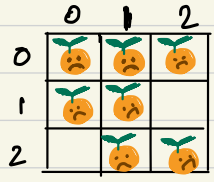
current = (1,1)

q [(1,1) (2,1)]

current = (1,1) already processed.

q [(2,1)]

NOTE:
TIME TICKS PER LEVEL AS INFECTION SPREADS.



$t = 4$

current = (2,1)

q [(2,2)]

WHAT DO WE TRACK:

- FRESH ORANGES
- TIME
- QUEUE HAS ROTTEN ORANGES.

YASH PRADHAN
STUDY NOTES