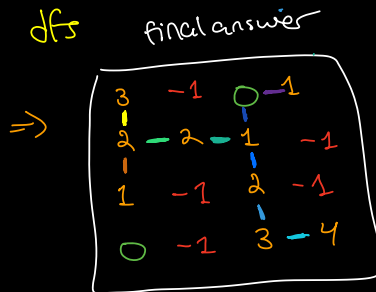
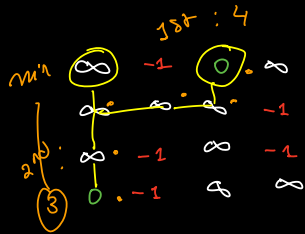


Problem: Given a 2d array containing -1: walls, 0: gates, INF: empty room
fill each room with the number of steps to the nearest gate

if it is impossible to reach a gate, leave INF as the value
INF = 2147483647



Intro:

- Verify Constraints
- Create Testcases

Brute Force:

- Brainstorming & Pattern Observations
- Pseudocode
- Write code
- Run through testcases
- Analyze time and space complexity

Optimal:

- Brainstorming & Pattern Observations
- Pseudocode
- Write code
- Run through testcases
- Analyze time and space complexity



start from gates and run dfs thru them

0: [0, 2]
@ → and

try to fill in all positions distances

stack dfs @ [0, 2]

sequential search

if 0:

start dfs @ mapping directions

0

1

dfs (row, col, grid, stepsFromGate) :

for direction in directions:

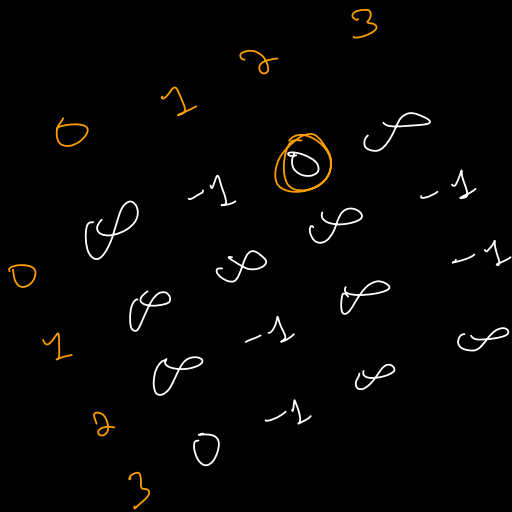
if row1 and col1 not in bounds

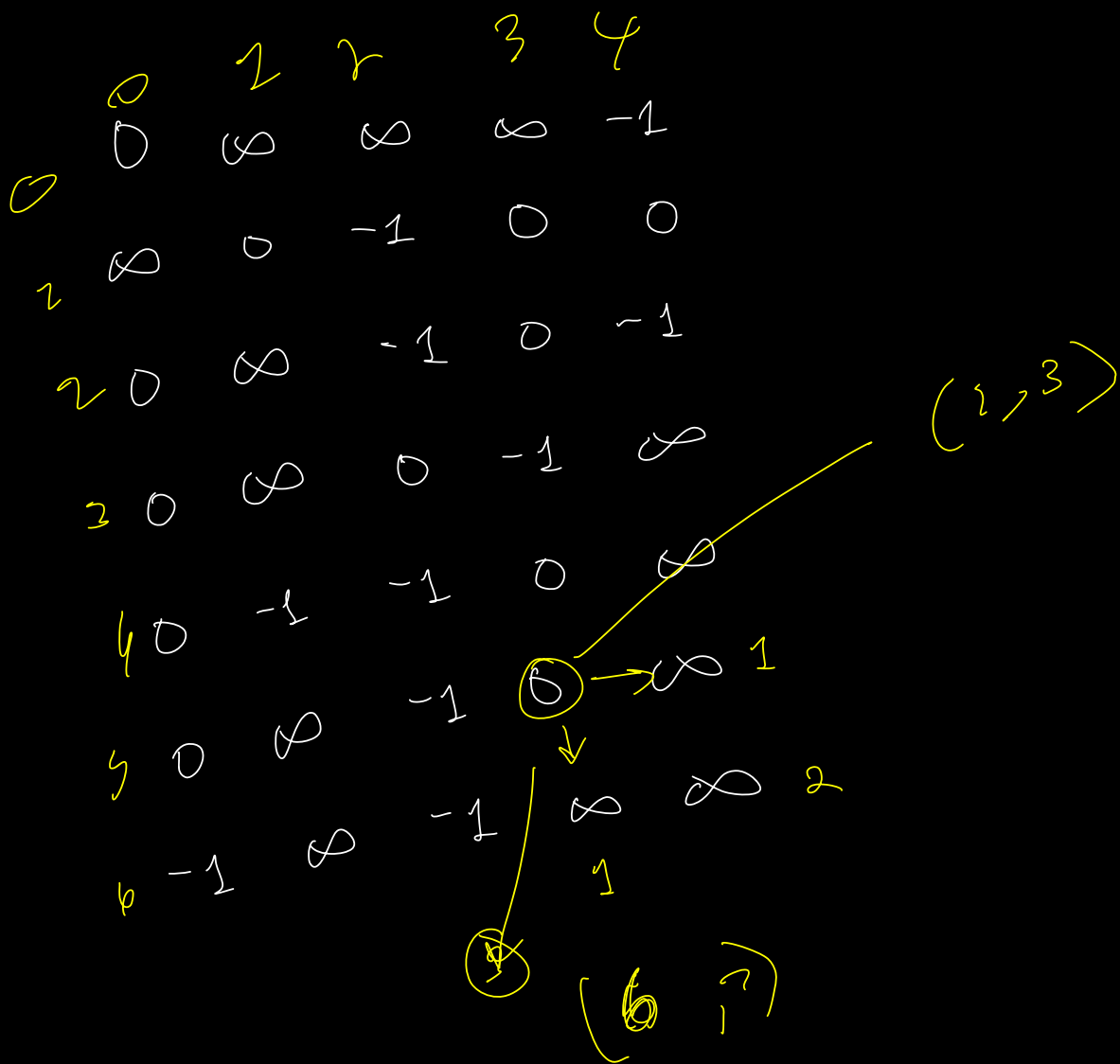
or
grid[row1][col1] <= 0 :

continue

else:

stepsFromGate += 1





skip if