



Ad



ARRAY : Video -

53

Medium

Leetcode
- 542

E.A.S.Y...



codestorywithMIK

01 Matrix

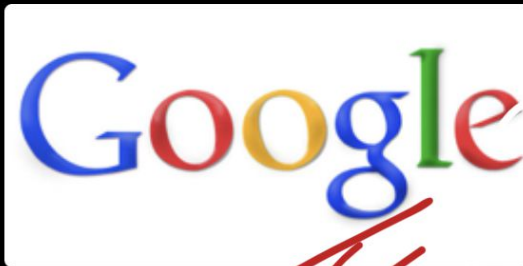
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Company :-



542. 01 Matrix

Medium

7755

350

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Given an $m \times n$ binary matrix `mat`, return the distance of the nearest 0 for each cell.

The distance between two adjacent cells is 1.

Example 1:

0	0	0
0	1	0
0	0	0

output:

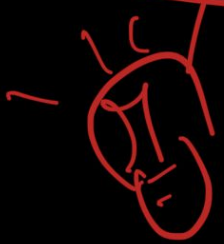
0	0	0
0	1	0
0	0	0

(1,1)

why BFS ?

Nearest distance / shortest path

Approach-1...



BFS from each 1 to their
nearest 0.

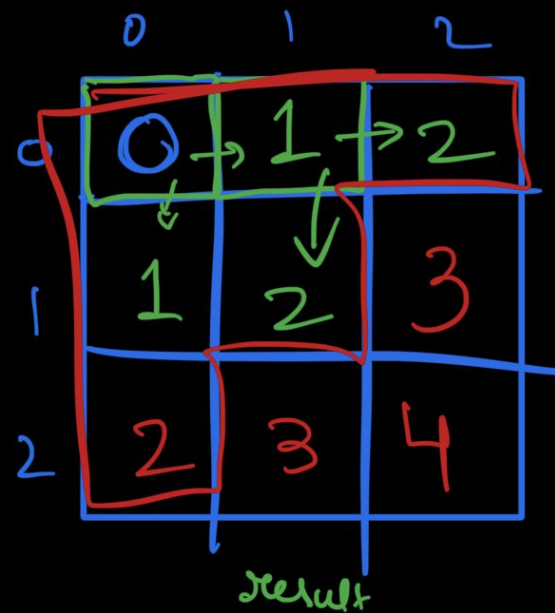
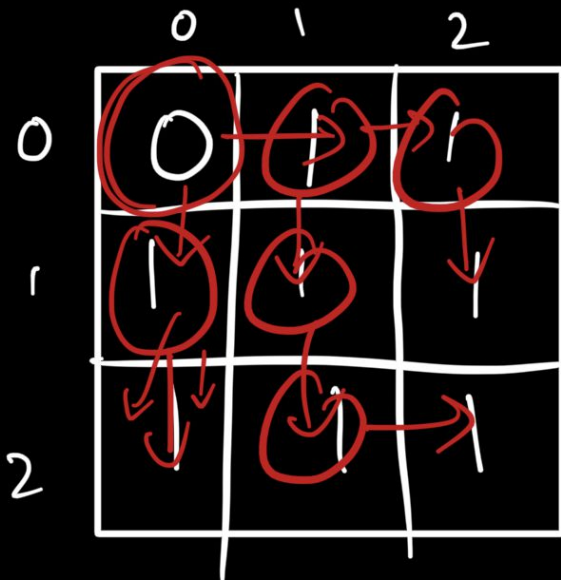
	0	1	2
0	0	1	1
1	1	1	1
2	1	1	1

0	1	2

Approach-2 (😊)

BFS from 0s to 1

1 +



~~(0,1) | (1,0) | (0,2) | (1,1) | (2,0)~~
 (1,0)

$$\begin{aligned} \text{result}[2][0] &= \text{result}[1,0] \\ &+ 1 \\ &= 1 + 1 = 2 \end{aligned}$$

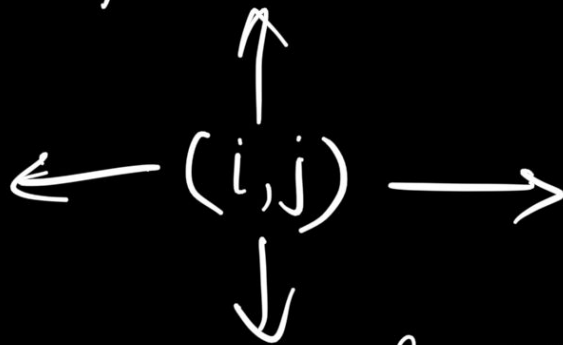
Story to Code:

① result \rightsquigarrow $\{-1\}$

② store co-ord of all 0's

③ Hit BFS from those co-ord.

④ Keep up to the result.



✓ {
 () out of Bound X
 () result == -1