



# Graphs 04

## Problem on Bids (Part 2)



BFS

1	2	1	<del>0</del>	<del>0</del>
1	1	1	1	2
1	<del>0</del>	1	1	<del>0</del>
<del>0</del>	1	<del>0</del>	<del>0</del>	<del>0</del>
1	1	1	1	1

a cell which is already 0,  
has the ans 0.

Brute force → start bfs from  
every cell with a value 1.

how abt us by multi src  
bfs from 0's.

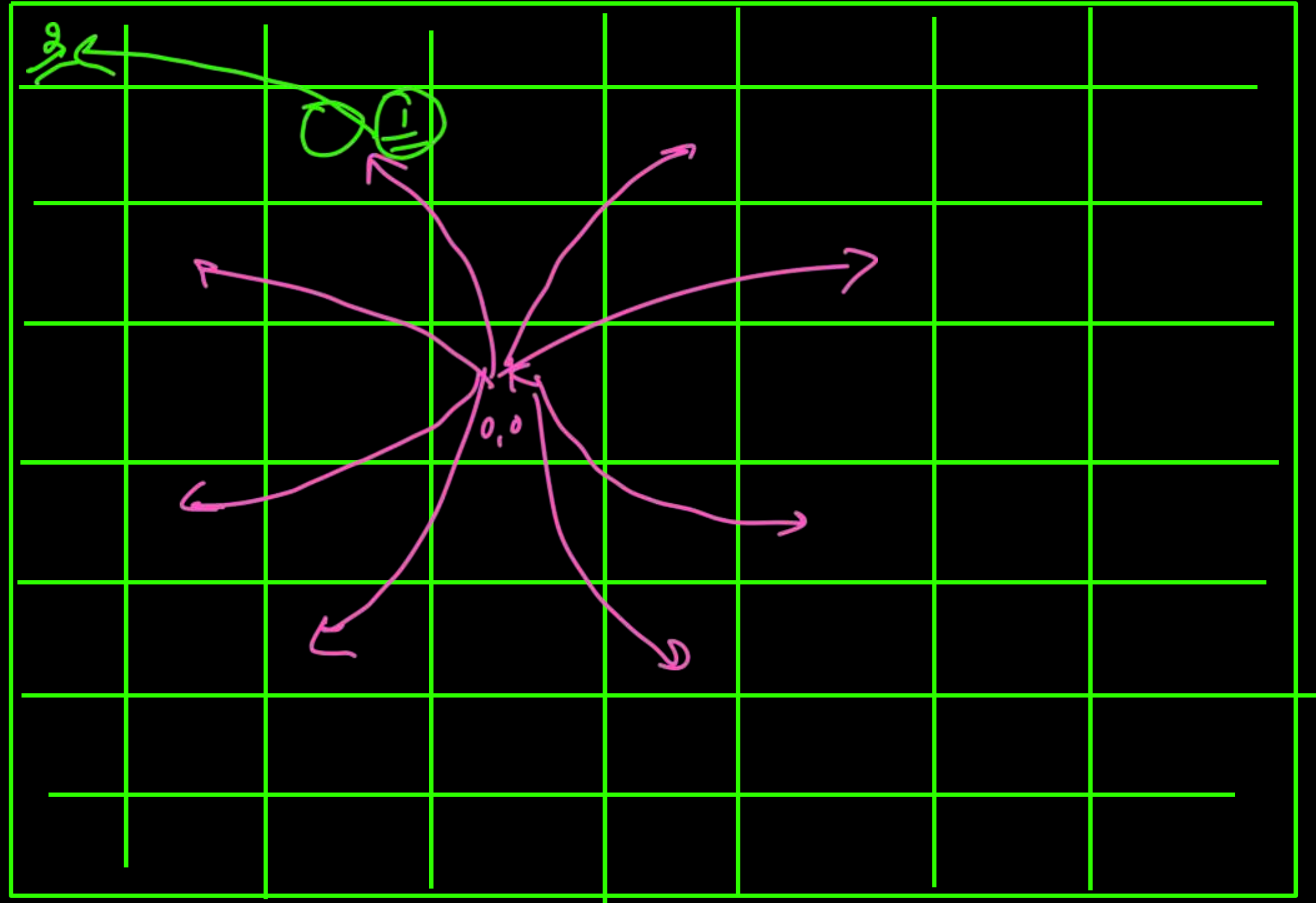
leetcode 1197

min steps

to reach (i,j)

from (0,0)

sol



i, j

$(i+1, j+2, 1)$

$, (i+2, j+1, 1), (i-2, j+1, 1) \dots$

a

$(i+3, j+3, 2)$

x	x	x	x	x
x	x	x	x	x
x	x	x	x	x
x	x	<del>0</del> -1	-1 <del>0</del>	<del>0</del> -1
x	x	-1 <del>0</del>	<del>0</del> -1	x
x	x	x	x	<del>0</del> -1

For all the zeroes present on the  
 boundary, do a dfs/bfs  
 & mark the whole set of  
 0 neighbors as non optimal

LeetCode 934

0	6	4	3	2	1	2
0	4	3	2	1	1	1
0	4	3	2	1	1	2
0	0	4	3	2	1	2
0	0	4	3	2	1	2
6	-1	-1	4	3	3	3
0	-1	-1	0	4	4	4

garr ←  $-(i, j) -$



▶ **THANK YOU** ◀