

BFS

| | | | | |
|---|---|---|---|---|
| 1 | 2 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 | 2 |
| 1 | 0 | 1 | 1 | 0 |
| 0 | 1 | 0 | 0 | 0 |
| 1 | 1 | 1 | 1 | 1 |

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

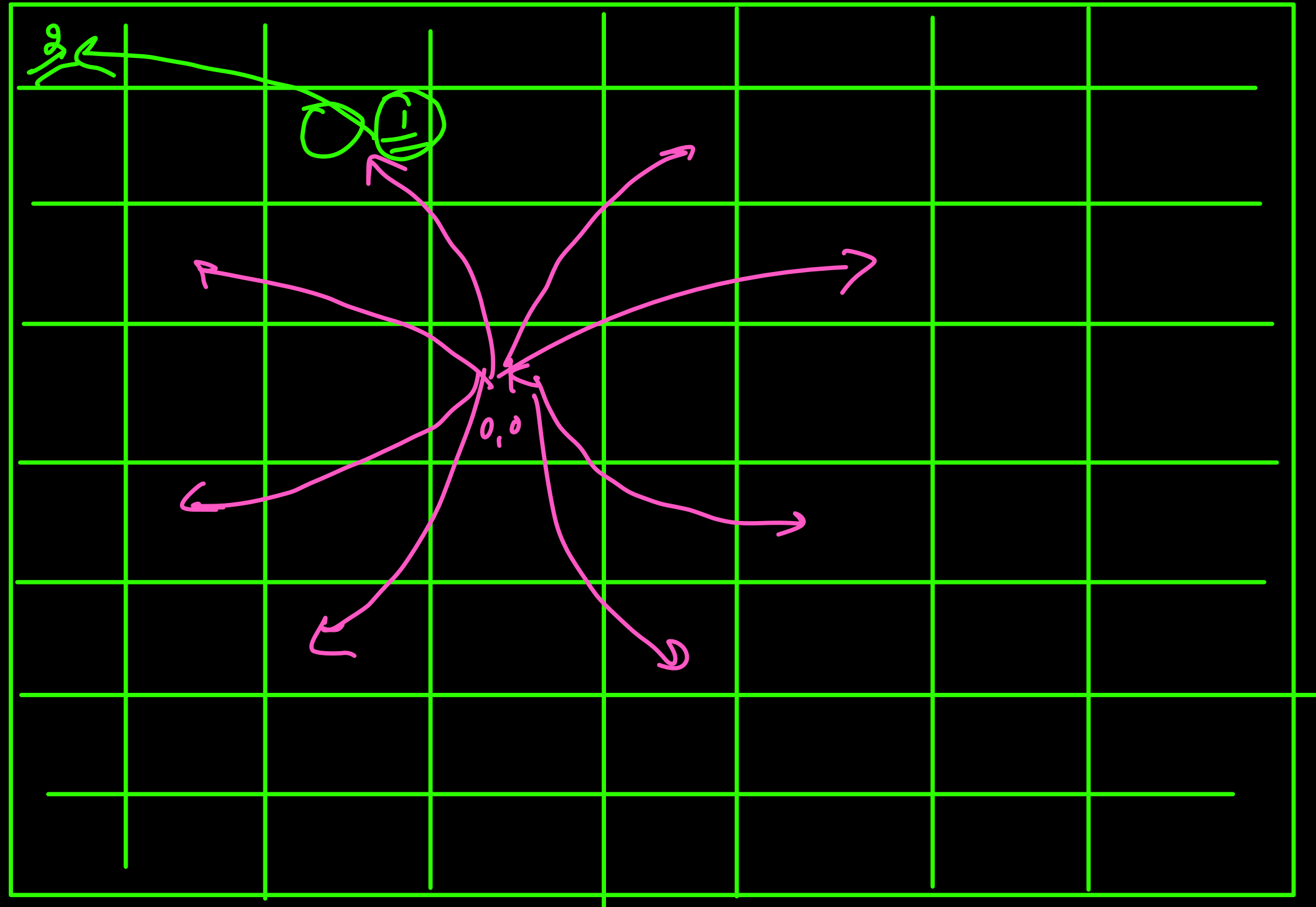
Brute force → start bfs from
every cell with a value 1.

how abt we try multi src
bfs from 0's.

leetcode 1197

Grid, step 7

min steps
to reach (i,j)
from (0,0)
sol



i, d

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

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

\textcircled{d}

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

| | | | | |
|---|---|--------------------|--------------------|-----------------|
| x | x | x | x | x |
| x | x | x | x | x |
| x | x | x | x | x |
| x | x | 0 -1 | -1 0 | 0 -1 |
| x | x | -1 0 | 0 -1 | x |
| x | x | x | x | 0 -1 |

For all the zeroes present on the
 boundary, do a dfs/bfs
 & mark the whole set of
 0 neighbour 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 | 0 | 3 | 3 |
| 0 | -1 | -1 | 0 | 4 | 4 | 4 |

garr $\rightarrow (i, j)$