3286. Find a Safe Walk Through a Grid   Solved ●

Medium   🏷 Topics   💡 Hint

You are given an `m x n` binary matrix `grid` and an integer `health`.

You start on the upper-left corner `(0, 0)` and would like to get to the lower-right corner `(m - 1, n - 1)`.

You can move up, down, left, or right from one cell to another adjacent cell as long as your health *remains* **positive**.

Cells `(i, j)` with `grid[i][j] = 1` are considered **unsafe** and reduce your health by 1.

Return `true` if you can reach the final cell with a health value of 1 or more, and `false` otherwise.

Example 1:

Input: grid = [[0,1,0,0,0],[0,1,0,1,0],[0,0,0,1,0]], health = 1

Output: true

Explanation:

The final cell can be reached safely by walking along the gray cells below.

0	1	0	0	0
0	1	0	1	0
0	0	0	1	0

Example 2:

Input: grid = [[0,1,1,0,0,0],[1,0,1,0,0,0],[0,1,1,1,0,1],[0,0,1,0,1,0]], health = 3

Output: false

Explanation:

A minimum of 4 health points is needed to reach the final cell safely.

0	1	1	0	0	0
1	0	1	0	0	0
0	1	1	1	0	1
0	0	1	0	1	0

Example 3:

Input: grid = [[1,1,1],[1,0,1],[1,1,1]], health = 5

Output: true

Explanation:

The final cell can be reached safely by walking along the gray cells below.

1	1	1
1	0	1
1	1	1

Any path that does not go through the cell `(1, 1)` is unsafe since your health will drop to 0 when reaching the final cell.

Constraints:

- `m == grid.length`
- `n == grid[i].length`
- `1 <= m, n <= 50`
- `2 <= m * n`
- `1 <= health <= m + n`
- `grid[i][j]` is either 0 or 1.

Seen this question in a real interview before?   1/5

Yes   No

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