

286. Walls and Gates Premium

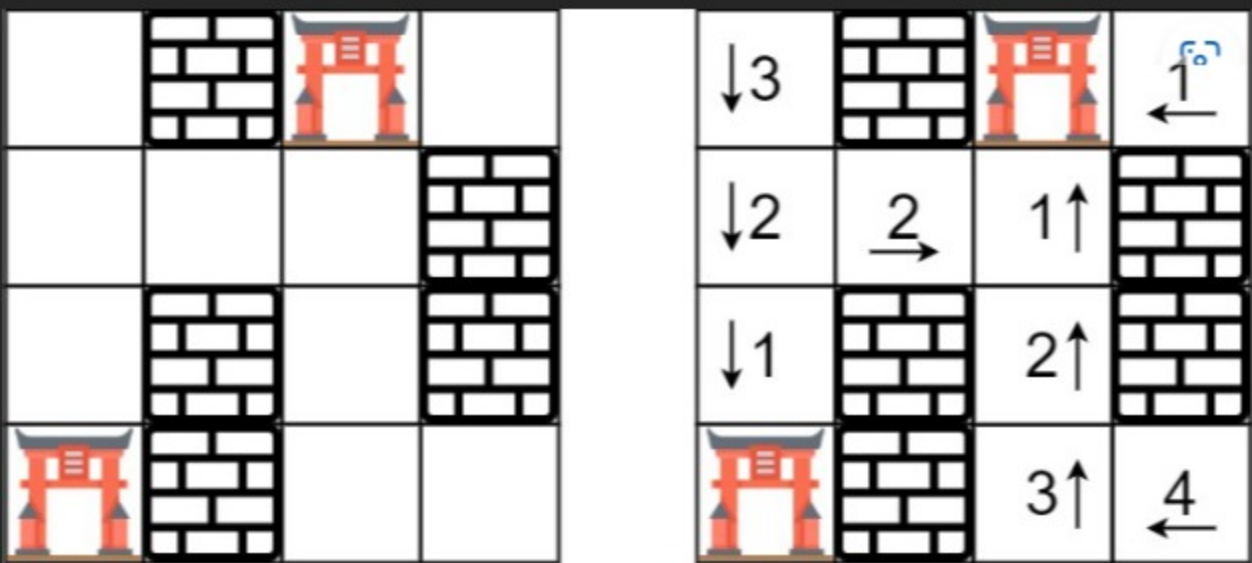
Medium Topics Companies

You are given an `m x n` grid `rooms` initialized with these three possible values.

- `-1` A wall or an obstacle.
- `0` A gate.
- `INF` Infinity means an empty room. We use the value `231 - 1 = 2147483647` to represent `INF` as you may assume that the distance to a gate is less than `2147483647`.

Fill each empty room with the distance to *its nearest gate*. If it is impossible to reach a gate, it should be filled with `INF`.

Example 1:



Input: `rooms = [[2147483647,-1,0,2147483647],[2147483647,2147483647,2147483647,-1],[2147483647,-1,2147483647,-1],[0,-1,2147483647,2147483647]]`
Output: `[[3,-1,0,1],[2,2,1,-1],[1,-1,2,-1],[0,-1,3,4]]`

Example 2:

Input: `rooms = [[-1]]`
Output: `[[-1]]`

Constraints:

- `m == rooms.length`
- `n == rooms[i].length`
- `1 <= m, n <= 250`
- `rooms[i][j]` is `-1`, `0`, or `231 - 1`.

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

Yes No

Accepted 344.2K | Submissions 554.7K | Acceptance Rate 62.1%

Topics Array Breadth-First Search Matrix

Companies 0 - 3 months DoorDash 20 Meta 2 0 - 6 months Google 4 TikTok 4 Uber 4 Visa 2 6 months ago Amazon 7

Similar Questions	
Surrounded Regions	Medium
Number of Islands	Medium
Shortest Distance from All Buildings	Hard
Battleships in a Board	Medium
Robot Room Cleaner	Hard
Rotting Oranges	Medium
Count the Number of Houses at a Certain Distance I	Medium
Count the Number of Houses at a Certain Distance II	Hard

Discussion (18)