286. Walls and Gates Premium

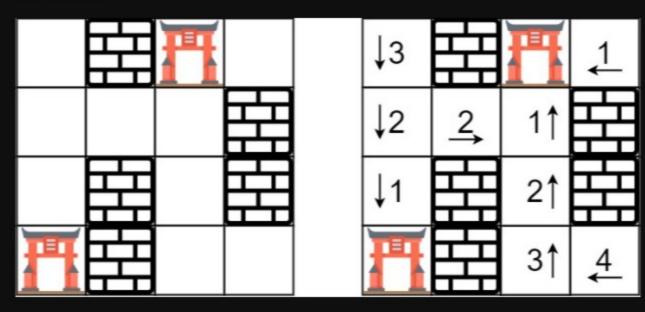
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You are given an m x n grid rooms initialized with these three possible values.

- A wall or an obstacle.
- Ø 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:

```
Output: [[-1]]
```

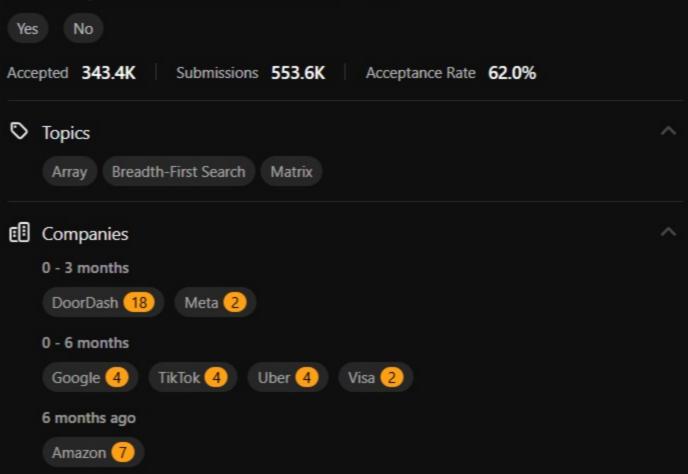
Input: rooms = [[-1]]

Constraints:

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

1 <= m, n <= 250

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



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Count the Number of Houses at a Certain Distance II