892. Surface Area of 3D Shapes

Solved ●

Easy Topics Companies

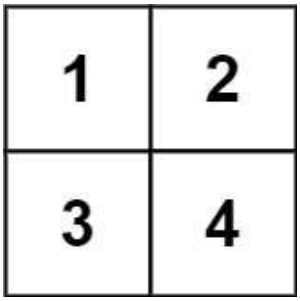
You are given an `n x n` `grid` where you have placed some `1 x 1 x 1` cubes. Each value `v = grid[i][j]` represents a tower of `v` cubes placed on top of cell `(i, j)`.

After placing these cubes, you have decided to glue any directly adjacent cubes to each other, forming several irregular 3D shapes.

Return *the total surface area of the resulting shapes*.

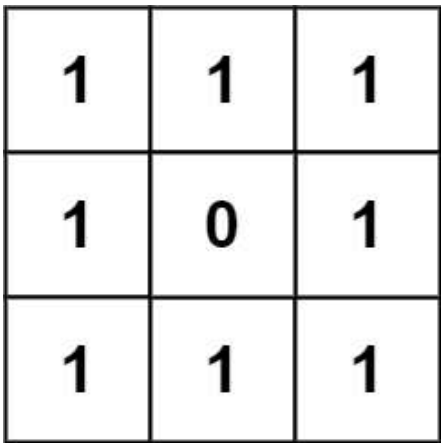
Note: The bottom face of each shape counts toward its surface area.

Example 1:



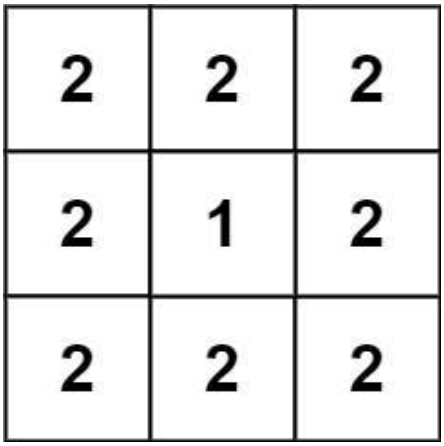
> **Input:** grid = [[1,2],[3,4]]
> **Output:** 34

Example 2:



> **Input:** grid = [[1,1,1],[1,0,1],[1,1,1]]
> **Output:** 32

Example 3:



> **Input:** grid = [[2,2,2],[2,1,2],[2,2,2]]
> **Output:** 46

Constraints:

- `n == grid.length == grid[i].length`
- `1 <= n <= 50`
- `0 <= grid[i][j] <= 50`

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

Yes No

Accepted **41.5K** Submissions **62.5K** Acceptance Rate **66.4%**

Topics

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Discussion (12)