892. Surface Area of 3D Shapes

Description

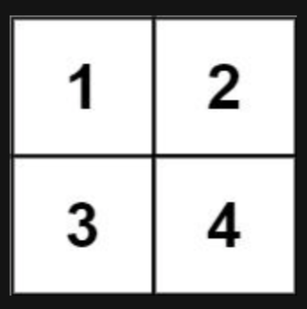
You are given an `n x n` `grid` where you have placed some `1 x 1 x 1` cubes. Each value `v = grid[i][j]` represents a tower of `v` cubes placed on top of cell `(i, j)`.

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*.

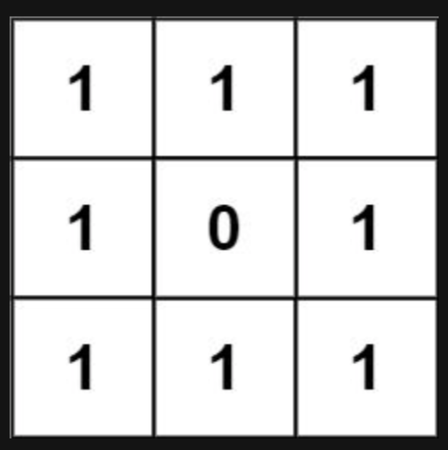
Note: The bottom face of each shape counts toward its surface area.

Example 1:



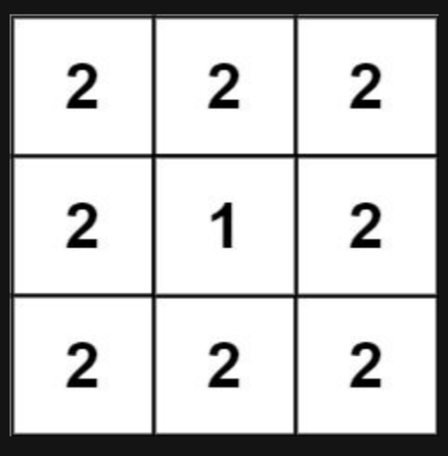

```
Input: grid = [[1,2],[3,4]]
Output: 34
```

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`