

## 695. Max Area of Island

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You are given an  $m \times n$  binary matrix `grid`. An island is a group of `1`'s (representing land) connected **4-directionally** (horizontal or vertical).

The **area** of an island is the number of cells with a value `1` in the island.

Return *the maximum **area** of an island in `grid`*. If there is no island, return `0`.

### Example 1:

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

**Input:** `grid = [[0,0,1,0,0,0,0,1,0,0,0,0,0],[0,0,0,0,0,0,0,1,1,1,0,0,0],[0,1,1,0,1,0,0,0,0,0,0,0,0],]`  
**Output:** `6`  
**Explanation:** The answer is not 11, because the island must be connected 4-directionally.

### Example 2:

**Input:** `grid = [[0,0,0,0,0,0,0,0]]`  
**Output:** `0`

### Constraints:

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

Seen this question in a real interview before? 1/4

☒ Yes ☐ No

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