5501. Minimum Number of Days to Disconnect Island

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to Contest (/contest/weekly-contest-204/)

Given a 2D grid consisting of 1 s (land) and 0 s (water). An *island* is a maximal 4-directionally (horizontal or vertical) connected group of 1 s.

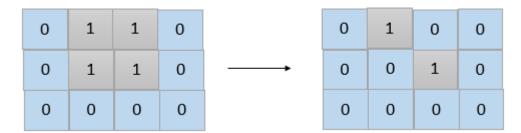
The grid is said to be **connected** if we have **exactly one island**, otherwise is said **disconnected**.

In one day, we are allowed to change any single land cell (1) into a water cell (0).

Return the minimum number of days to disconnect the grid.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Medium

Example 1:



Input: grid = [[0,1,1,0],[0,1,1,0],[0,0,0,0]]

Output: 2

Explanation: We need at least 2 days to get a disconnected grid.

Change land grid[1][1] and grid[0][2] to water and get 2 disconnected island.

Example 2:

Input: grid = [[1,1]]

Output: 2

Explanation: Grid of full water is also disconnected ($[[1,1]] \rightarrow [[0,0]]$), 0 islands.

Example 3:

Input: grid = [[1,0,1,0]]

Output: 0

Example 4:

Example 5:

Constraints:

- 1 <= grid.length, grid[i].length <= 30
- grid[i][j] is 0 or 1.