1568. Minimum Number of Days to Disconnect Island

Description

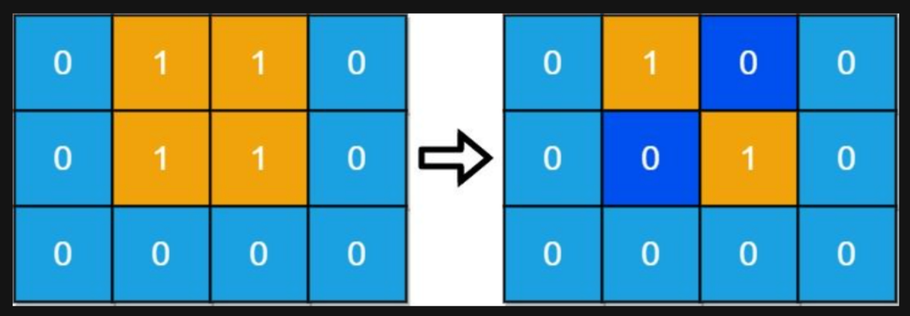
You are given an `m x n` binary grid `grid` where `1` represents land and `0` represents water. An **island** is a maximal **4-directionally** (horizontal or vertical) connected group of `1`'s.

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*.

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]] -> [[0,0]]), 0 islands.
```

Constraints:

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