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Farthest Point From Water

Question 49 of 1025

Hard

You are given a matrix `matrix` of `0`s and `1`s where `0` represents water and `1` represents land. Find the land with the largest Manhattan distance from water and return this distance. If there is no land or no water in the board, return `-1`.

Constraints

- `n, m ≤ 100` where `n` and `m` are the number of rows and columns in `matrix`

Example 1

Input

```
matrix = [
    [1, 1, 0],
    [1, 1, 0],
    [0, 0, 1]
]
```

Output

```
2
```

Explanation

`grid[0][0]` has a Manhattan distance of `2` to water.

Example 2

Input

```
matrix = [
    [1, 1],
    [1, 1]
]
```

Output

```
-1
```

```
1 import java.util.*;
2
3 class Solution {
4     public int solve(int[][] matrix) {
5
6     }
7 }
```

Explanation

There is no water in this grid.