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Peak Heights

Question 785 of 1028

Medium

You are given a two-dimensional integer `matrix` containing `0`s and `1`s where `0` represents water and `1` represents land. Return a new matrix of the same dimensions where we increase the height of every land cell as much as possible given that:

- The height of any water cell stays `0`
- Any cell can differ by at most `1` unit of height between neighboring cells (up, down, left, right)

You can assume there is at least one water cell.

Constraints

- `n, m ≤ 250` where `n` and `m` are the number of rows and columns in `matrix`

Example 1

Input

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

Output

```
[
    [0, 1, 0],
    [1, 2, 1],
    [2, 3, 2]
]
```

Solved	Attempted	Rate
289	382	75.66%

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```java
import java.util.*;

class Solution {
    public int[][] solve(int[][] matrix
    
    }
}
```

Reviewed by **Agnimandur**