Description | Editorial | Solutions (2.6K) | Submissions

542. 01 Matrix

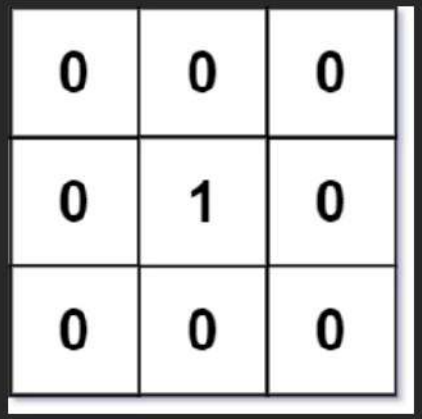
Medium 8.4K 377

Companies

Given an `m x n` binary matrix `mat`, return *the distance of the nearest* `0` *for each cell.*

The distance between two adjacent cells is `1`.

Example 1:



Input: `mat = [[0,0,0],[0,1,0],[0,0,0]]`
Output: `[[0,0,0],[0,1,0],[0,0,0]]`

Example 2:

Java | Auto

```java
import java.util.*;

class Solution {
    public int[][] updateMatrix(int[][] mat) {
        Queue<int[]> q = new LinkedList<>();
        int rows = mat.length;
        int cols = mat[0].length;

        for (int i = 0; i < rows; i++) {
            for (int j = 0; j < cols; j++) {
                if (mat[i][j] == 0) {
                    q.offer(new int[]{i, j});
                } else {
                    mat[i][j] = -1;
                }
            }
```

Ln 44, Col 2

Testcase | Result

Accepted Runtime: 0 ms

• Case 1 • Case 2

Input

mat =
`[[0,0,0],[0,1,0],[0,0,0]]`

Output

`[[0,0,0],[0,1,0],[0,0,0]]`

Expected

Console | Run | Submit

Description | Editorial | Solutions (2.8K) | Submissions

476. Number Complement

Easy | 2.5K | 118

Companies

The **complement** of an integer is the integer you get when you flip all the `0`'s to `1`'s and all the `1`'s to `0`'s in its binary representation.

- For example, The integer `5` is `"101"` in binary and its **complement** is `"010"` which is the integer `2`.

Given an integer `num`, return *its complement*.

Example 1:

```
Input: num = 5
Output: 2
Explanation: The binary representation of 5 is 101 (no leading zero bits), and its complement is 010. So you need to output 2.
```

Example 2:

```
Input: num = 1
Output: 0
Explanation: The binary representation of 1 is 1 (no leading zero bits), and its complement is 0. So you need to output 0.
```

Java | Auto

```java
class Solution {
    public int findComplement(int num) {
        int nBits = (int)Math.floor((Math.log(num) / Math.log(2)) + 1);
        int mask = (1 << nBits) - 1;
        return ~num & mask;
    }
}
```

Ln 7, Col 2

Testcase | Result

Accepted Runtime: 0 ms

Case 1 | Case 2

Input

num =
5

Output

2

Expected

Console | Run | Submit