# 73. Set Matrix Zeroes

#### <u>Hint</u>

Given an m x n integer matrix matrix, if an element is 0, set its entire row and column to 0's.

You must do it in place.

## Example 1:

1	1	1	1	0	1
1	0	1	0	0	0
1	1	1	1	0	1

<u>Input:</u> matrix = [[1,1,1],[1,0,1],[1,1,1]]

Output: [[1,0,1],[0,0,0],[1,0,1]]

### Example 2:

0	1	2	0	0	0	0	0
3	4	5	2	0	4	5	0
1	3	1	5	0	3	1	0

<u>Input:</u> matrix = [[0,1,2,0],[3,4,5,2],[1,3,1,5]]

Output: [[0,0,0,0],[0,4,5,0],[0,3,1,0]]

#### **Constraints:**

- m == matrix.length
- n == matrix[0].length
- $1 \le m, n \le 200$
- $-231 \le matrix[i][j] \le 231 1$

### Follow up:

- A straightforward solution using O(mn) space is probably a bad idea.
- A simple improvement uses O(m + n) space, but still not the best solution.
- Could you devise a constant space solution?