

## 73. Set Matrix Zeroes

Medium

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💡 Hint

Given an  $m \times n$  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	1	1

→

1	0	1
0	0	0
1	0	1

**Input:** `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
3	4	5	2
1	3	1	5

→

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

**Input:** `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 <= m, n <= 200`
- `-231 <= matrix[i][j] <= 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?

Seen this question in a real interview before? 1/4

Yes No

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