

Leet Code

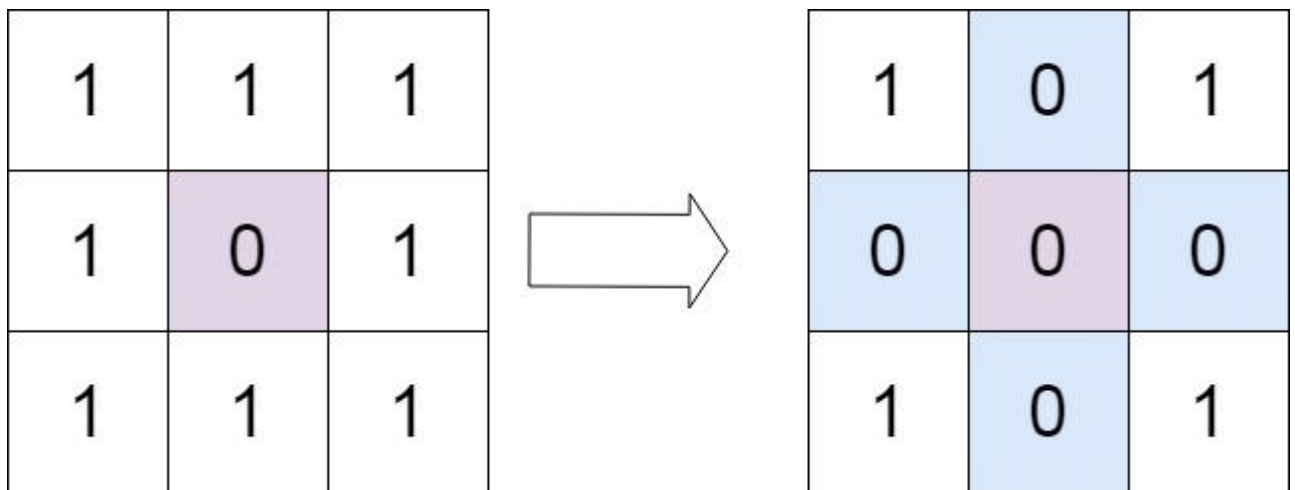
Day-41 Q-01 Set Matrix Zeroes

Given an $m \times n$ matrix. If an element is **0**, set its entire row and column to **0**. Do it **in-place**.

Follow up:

- A straight forward 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?

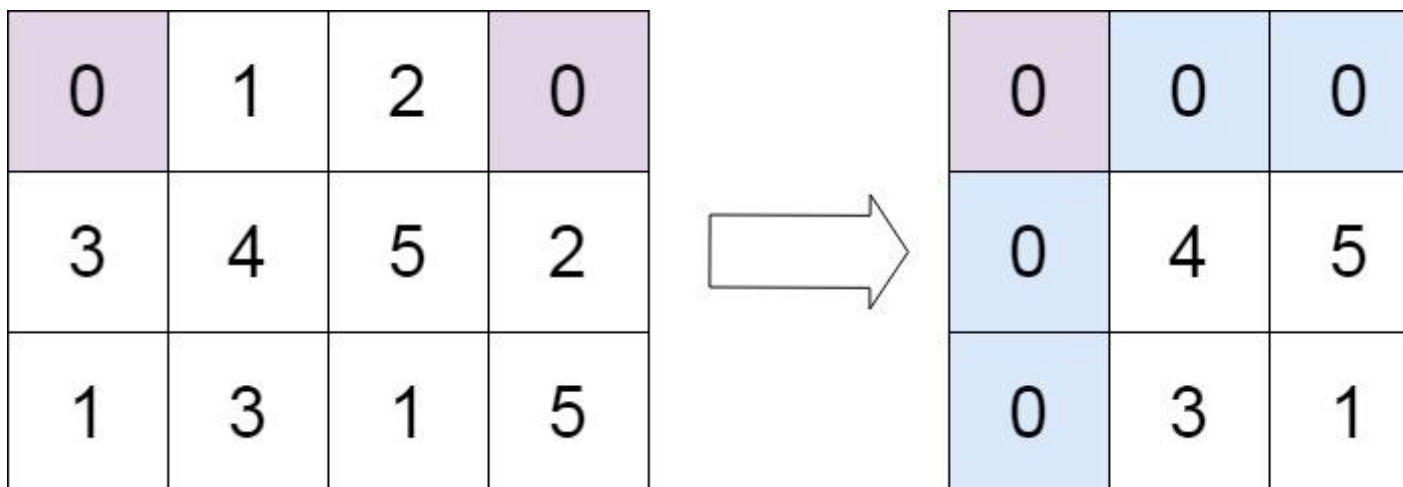
Example 1:



Input: matrix = [[1,1,1],[1,0,1],[1,1,1]]

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

Example 2:



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`