

73. Set Matrix Zeroes

Solved

Medium Topics Companies 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	0	1	→	0	0	0
1	1	1		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		0	0	0	0
3	4	5	2	→	0	4	5	0
1	3	1	5		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]]`

Python3 Auto

```
1 class Solution:
2     def setZeroes(self, matrix: List[List[int]]) -> None:
3         """
4         Do not return anything, modify matrix in-place instead.
5         """
6         row, col = set(), set()
7         m, n = len(matrix), len(matrix[0])
8         for i in range(m):
9             for j in range(n):
10                if matrix[i][j] == 0:
11                    row.add(i)
12                    col.add(j)
13
14        for i in range(m):
15            if i in row:
16                matrix[i] = [0] * n
17
18        for j in range(n):
19            if j in col:
20                for i in range(m):
21                    matrix[i][j] = 0
22
23
24
```

Ln 23, Col 1 Saved

Testcase Test Result

Accepted Runtime: 0 ms

Case 1 Case 2

Accepted 202 / 202 testcases passed

AndrewC275 submitted at May 21, 2025 14:45

Editorial

Solution

Runtime

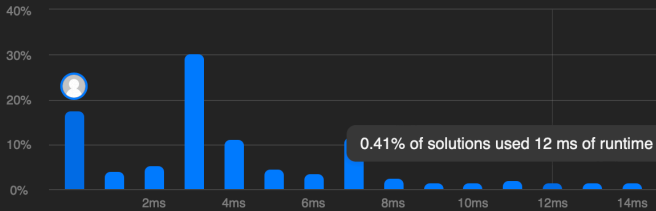
0 ms | Beats 100.00%

Analyze Complexity

Memory

18.30 MB | Beats 95.43%

Analyze Complexity



I was expected a better efficiency solution, but turns out this $O(m*n)$ solution is a best. lol