Set Matrix Zeroes

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Question

Solution

Total Accepted: 48342 Total Submissions: 152119 Difficulty: Medium

Given a *m* x *n* matrix, if an element is 0, set its entire row and column to 0. Do it in place.

click to show follow up.

Follow up:

Did you use extra space?

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?

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Have you met this question in a real interview? Yes No

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Python



```
1
    class Solution(object):
        def setZeroes(self, matrix):
 2
 3
 4
             :type matrix: List[List[int]]
 5
             :rtype: void Do not return anything, modify matrix in-place instead.
 6
 7
             row=len(matrix)
 8
             col=0 if row==0 else len(matrix[0])
 9
             R=0; C=0
             for i in range(row):
10
11
                 for j in range(col):
12
                     if matrix[i][j]==0:
                         if i==0:R=1
13
14
                         if j==0:C=1
15
                         matrix[i][0]=0
16
                         matrix[0][j]=0
17
             for i in range(1, row):
18
                 if matrix[i][0]==0:
19
   Send Feedback (frailto:admiragreetbogeldom?tsubytetl=Feledback)
20
             for j in range(1,col):
```

```
if matrix[0][j]==0:
    for i in range(1,row):matrix[i][j]=0
if R==1:
    for j in range(1,col):matrix[0][j]=0
if C==1:
    for i in range(1,row):matrix[i][0]=0
```

Custom Testcase

Run Code

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Submission Result: Accepted (/submissions/detail/42423502/)

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