

73. Set Matrix Zeroes ★

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Total Accepted: **77106** Total Submissions: **223715** Difficulty: **Medium**

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

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Notes

C++



</>

```
1 class Solution {
2 public:
3     void setRowZero(vector<vector<int>>& matrix, int col) {
4         for (int i = 0, n = matrix.size(); i < n; ++i) {
5             matrix[i][col] = 0;
6         }
7     }
8
9     void setColZero(vector<vector<int>>& matrix, int row) {
10        for (int i = 0, n = matrix[row].size(); i < n; ++i) {
11            matrix[row][i] = 0;
12        }
13    }
14
15    void setZeroes(vector<vector<int>>& matrix) {
16        vector<int> rows, cols;
17        for (int i = 0, n = matrix.size(); i < n; ++i) {
18            bool firstFlag = true;
19            for (int j = 0, m = matrix[0].size(); j < m; ++j) {
20                if (matrix[i][j] == 0) {
21                    if (firstFlag) {
22                        rows.push_back(i);
23                        firstFlag = false;
24                    }
25                    cols.push_back(j);
26                }
27            }
28        }
29        sort(cols.begin(), cols.end());
30        auto last = unique(cols.begin(), cols.end());
```



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```
31     cols.erase(last, cols.end());
32     for (auto& it : rows) {
33         setColZero(matrix, it);
34     }
35     for (auto& it : cols) {
36         setRowZero(matrix, it);
37     }
38 }
39 };
```

Custom Testcase ☐

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Notes

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