

## 73. Set Matrix Zeroes

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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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C++ ▾





```
1 class Solution {
2 public:
3     void setZeroes(vector<vector<int>>& matrix) {
4         int m = matrix.size();
5         int n = matrix[0].size();
6         //find first zero
7         int x = -1;
8         int y = -1;
9
10        for(int i=0;i<m;i++){
11            for(int j=0;j<n;j++){
12                if(matrix[i][j]==0){
13                    y=j;
14                    break;
15                }
16                if(y>=0){
17                    x=i;
18                    break;
19                }
20            }
21            if(x<0) return;
22
23            for(int i=x+1;i<m;i++){
24                for(int j=0;j<n;j++){
25                    if(matrix[i][j]==0){
26                        matrix[x][j]=0;
27                        matrix[i][y]=0;
28                    }
29                }
30            }
31
32            for(int i=0;i<m;i++){
33                if(i==x) continue;
34                for(int j=0;j<n;j++){
35                    if(j==y) continue;
36                    if(matrix[x][j]==0||matrix[i][y]==0)
37                        matrix[i][j] = 0;
38                }
39            }
40
41            for(int i=0;i<m;i++){
42                matrix[i][y]=0;
43            }
44            for(int j=0;j<n;j++){
45                matrix[x][j]=0;
46            }
47        }
48    }
49 }
```

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Shortcut: Command + enter

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Notes

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