

Assignment Solutions | 2D Arrays - 3 | Week 6

1. Given an m x n integer matrix matrix, if an element is 0, set its entire row and column to 0's.

You must do it in place.

Input:

1 1 1

1 0 1

1 1 1

Output:

1 0 1

0 0 0

1 0 1

Solution:

```
#include<iostream>
#include<vector>
using namespace std;
void setZeroes(vector<vector<int>>& matrix) {
   int n = matrix.size();
   int m = matrix[0].size();
   int col0 = 1;
   for(int i=0;i<n;i++){
       if(matrix[i][0] == 0)col0 = 0;
        for(int j=1;j<m;j++){</pre>
            if(matrix[i][j] == 0){
               matrix[0][j] = 0;
               matrix[i][0] = 0;
            }
       }
   }
    for(int i = n - 1; i \ge 0; i--){
        for(int j = m - 1 ; j > 0 ; j--){
            if(matrix[i][0] == 0 or matrix[0][j] == 0)
                matrix[i][j] = 0;
```