Problem Link:

<https://leetcode.com/problems/set-matrix-zeroes/?envType=daily-question&envId=2025-05-21>

Solution:

class Solution {

public:

void setZeroes(vector<vector<int>>& matrix) {

int m = matrix.size();

int n = matrix[0].size();

bool r = false, c = false;

for(int j = 0; j < n; j++)

{

if(matrix[0][j] == 0)

{

r = true;

break;

}

}

for (int i = 0; i < m; i++)

{

if (matrix[i][0] == 0)

{

c = true;

break;

}

}

for(int i = 1; i < m; i++)

{

for(int j = 1; j < n; j++)

{

if(matrix[i][j] == 0)

{

matrix[i][0] = 0;

matrix[0][j] = 0;

}

}

}

for(int i = 1; i < m; i++)

{

for(int j = 1; j < n; j++)

{

if(matrix[i][0] == 0 || matrix[0][j] == 0)

{

matrix[i][j] = 0;

}

}

}

if(r)

{

for(int j = 0; j < n; j++)

{

matrix[0][j] = 0;

}

}

if(c)

{

for(int i = 0; i < m; i++)

{

matrix[i][0] = 0;

}

}

}

};