Problem Link:

<https://leetcode.com/problems/first-completely-painted-row-or-column/?envType=daily-question&envId=2025-01-20>

Solution:

class Solution {

public:

int firstCompleteIndex(vector<int>& arr, vector<vector<int>>& mat) {

int m = mat.size(), n = mat[0].size();

vector<vector<int>> v(m \* n + 1, vector<int>(2));

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

{

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

{

v[mat[i][j]] = {i, j};

}

}

vector<int> r(m, 0), c(n, 0);

for(int i = 0; i < arr.size(); ++i)

{

int num = arr[i];

int row = v[num][0], col = v[num][1];

r[row]++;

c[col]++;

if(r[row] == n || c[col] == m)

{

return i;

}

}

return -1;

}

};