

6342. First Completely Painted Row or Column

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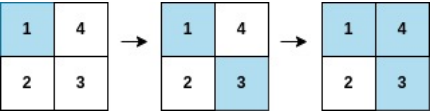
You are given a **0-indexed** integer array `arr`, and an `m x n` integer **matrix** `mat`. `arr` and `mat` both contain **all** the integers in the range `[1, m * n]`.

Go through each index `i` in `arr` starting from index `0` and paint the cell in `mat` containing the integer `arr[i]`.

Return the *smallest index i at which either a row or a column will be completely painted in mat*.

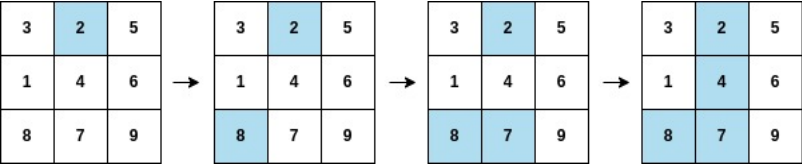
User Accepted:	0
User Tried:	3
Total Accepted:	0
Total Submissions:	3
Difficulty:	Medium

Example 1:



Input: `arr = [1,3,4,2]`, `mat = [[1,4],[2,3]]`
Output: 2
Explanation: The moves are shown in order, and both the first row and second column of the matrix become fully painted at `arr[2]`

Example 2:



Input: `arr = [2,8,7,4,1,3,5,6,9]`, `mat = [[3,2,5],[1,4,6],[8,7,9]]`
Output: 3
Explanation: The second column becomes fully painted at `arr[3]`.

Constraints:

- `m == mat.length`
- `n = mat[i].length`
- `arr.length == m * n`
- `1 <= m, n <= 105`
- `1 <= m * n <= 105`
- `1 <= arr[i], mat[r][c] <= m * n`
- All the integers of `arr` are **unique**.
- All the integers of `mat` are **unique**.

JavaScript

📄 ↺ ⚙️

```
1  const initialize2DArray = (n, m) => [...Array(n)].map(( ) => Array(m).fill(0));
2
3  const firstCompleteIndex = (a, g) => {
4      let ma = new Map(), n = g.length, m = g[0].length;
5      for (let i = 0; i < n; i++)
6          for (let j = 0; j < m; j++)
7              ma.set(g[i][j], [i, j])
8      let row = initialize2DArray(n, 2), col = initialize2DArray(m, 2), t = 1;
9      for (const v of a) {
10         let [x, y] = ma.get(v);
11         row[x][0]++;
12         col[y][0]++;
13         if (row[x][0] == m && row[x][1] == 0) row[x][1] = t;
14         if (col[y][0] == n && col[y][1] == 0) col[y][1] = t;
15         t++;
16     }
17 }
```

```
17     row.sort((x, y) => x[1] - y[1]);
18     col.sort((x, y) => x[1] - y[1]);
19     return row[0][1] < col[0][1] ? row[0][1] - 1 : col[0][1] - 1;
20 };
```

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