

1198. Find Smallest Common Element in All Rows Premium

Medium Topics Companies Hint

Given an `m x n` matrix `mat` where every row is sorted in **strictly increasing** order, return *the **smallest common element** in all rows*.

If there is no common element, return `-1`.

Example 1:

Input: `mat = [[1,2,3,4,5],[2,4,5,8,10],[3,5,7,9,11],[1,3,5,7,9]]`
Output: `5`

Example 2:

Input: `mat = [[1,2,3],[2,3,4],[2,3,5]]`
Output: `2`

Constraints:

- `m == mat.length`
- `n == mat[i].length`
- `1 <= m, n <= 500`
- `1 <= mat[i][j] <= 104`
- `mat[i]` is sorted in strictly increasing order.

Seen this question in a real interview before? 1/5

Yes No

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Hint 1

Notice that each row has no duplicates.

Hint 2

Is counting the frequency of elements enough to find the answer?

Hint 3

Use a data structure to count the frequency of elements.

Hint 4

Find an element whose frequency equals the number of rows.

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