

Hash Table

DescriptionEditorialSolutionsSubmissions

1198. Find Smallest Common Element in All Rows

Premium

Solved

Medium

TopicsCompaniesHint

Given an $m \times n$ 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:

- $m == mat.length$
- $n == mat[i].length$
- $1 \leq m, n \leq 500$
- $1 \leq mat[i][j] \leq 10^4$
- `mat[i]` is sorted in strictly increasing order.

Seen this question in a real interview before?

1/5

YesNo

Accepted

44.2K

Submissions

57.8K

Acceptance Rate

76.5%

Topics

Companies

Hint 1

Hint 2

Hint 3

Hint 4

Similar Questions

Discussion (1)

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</> Code

Python3Auto

```
1 class Solution:
2     def smallestCommonElement(self, mat: List[List[int]]) -> int:
3
4         dictx = {}
5         length = len(mat)
6
7
8         for arr in mat:
9             for i in range(0, len(arr)):
10                 if arr[i] not in dictx:
11                     dictx[arr[i]] = 1
12                 else:
13                     dictx[arr[i]] += 1
14
15
16
17         for key, value in dictx.items():
18             if value == length:
19                 return key
20
```

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TestcaseTest Result

AcceptedRuntime: 46 ms

Case 1Case 2

Input

mat =
[[1,2,3,4,5],[2,4,5,8,10],[3,5,7,9,11],[1,3,5,7,9]]

Output

5

Expected