

Hash Table

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Description

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1940. Longest Common Subsequence Between Sorted Arrays

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Hint

Given an array of integer arrays `arrays`, where each `arrays[i]` is sorted in **strictly increasing** order, return an integer array representing the **longest common subsequence** between **all** the arrays.

A **subsequence** is a sequence that can be derived from another sequence by deleting some elements (possibly none) without changing the order of the remaining elements.

**Example 1:**

**Input:** `arrays = [[1,3,4], [1,4,7,9]]`

**Output:** `[1,4]`

**Explanation:** The longest common subsequence in the two arrays is `[1,4]`.

**Example 2:**

**Input:** `arrays = [[2,3,6,8], [1,2,3,5,6,7,10], [2,3,4,6,9]]`

**Output:** `[2,3,6]`

**Explanation:** The longest common subsequence in all three arrays is `[2,3,6]`.

**Example 3:**

**Input:** `arrays = [[1,2,3,4,5], [6,7,8]]`

**Output:** `[]`

**Explanation:** There is no common subsequence between the two arrays.

**Constraints:**

- `2 <= arrays.length <= 100`
- `1 <= arrays[i].length <= 100`
- `1 <= arrays[i][j] <= 100`
- `arrays[i]` is sorted in **strictly increasing** order.

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

Yes

No

Accepted 6.3K | Submissions 8.1K | Acceptance Rate 78.5%

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Hint 1

Hint 2

Hint 3

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Discussion (3)

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</> Code

Python3

Auto

```
3
4     dictx = {}
5
6     length = len(arrays)
7
8     for arr in arrays:
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     res = []
17
18     for key, value in dictx.items():
19         if value == length:
20             res.append(key)
21
22     return res
23
```

Saved

Ln 10, Col 40

Testcase

Test Result

Accepted Runtime: 43 ms

Case 1

Case 2

Case 3

Input

arrays =

[[1,3,4],[1,4,7,9]]

Output

[1,4]

Expected

[1,4]