

# 1940. Longest Common Subsequence Between Sorted Arrays

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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.

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Hint 1



Hint 2



Hint 3

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