You have k lists of sorted integers in **non-decreasing order**. Find the **smallest** range that includes at least one number from each of the k lists.

We define the range [a, b] is smaller than range [c, d] if b - a < d - c **or** a < c if b - a == d - c.

**Example 1:**

Input: nums = [[4,10,15,24,26],[0,9,12,20],[5,18,22,30]]  
Output: [20,24]  
Explanation:   
List 1: [4, 10, 15, 24,26], 24 is in range [20,24].  
List 2: [0, 9, 12, 20], 20 is in range [20,24].  
List 3: [5, 18, 22, 30], 22 is in range [20,24].

**Example 2:**

Input: nums = [[1,2,3],[1,2,3],[1,2,3]]  
Output: [1,1]

**Constraints:**

* nums.length == k
* 1 <= k <= 3500
* 1 <= nums[i].length <= 50
* -105 <= nums[i][j] <= 105
* nums[i] is sorted in **non-decreasing** order.