23. Merge k Sorted Lists

Difficulty: Hard

https://leetcode.com/problems/merge-k-sorted-lists

You are given an array of k linked-lists lists, each linked-list is sorted in ascending order.

Merge all the linked-lists into one sorted linked-list and return it.

Example 1:

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Input: lists = [[1,4,5],[1,3,4],[2,6]]
Output: [1,1,2,3,4,4,5,6]
Explanation: The linked-lists are:
  1->4->5,
 1 -> 3 -> 4,
merging them into one sorted list:
1->1->2->3->4->4->5->6
Example 2:
Input: lists = []
Output: []
Example 3:
Input: lists = [[]]
Output: []
```

Constraints:

- k == lists.length \bullet 0 <= k <= 10⁴ • 0 <= lists[i].length <= 500 • $-10^4 \le lists[i][j] \le 10^4$ • lists[i] is sorted in ascending order.
- The sum of lists[i].length will not exceed 10⁴.