**[Merge k Sorted Lists](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:**

**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,

2->6

]

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
* 0 <= k <= 104
* 0 <= lists[i].length <= 500
* -104 <= lists[i][j] <= 104
* lists[i] is sorted in **ascending order**.
* The sum of lists[i].length will not exceed 104.