

23. Merge k Sorted Lists

Hard

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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`.