

23. Merge k Sorted Lists

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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:

- $k == \text{lists.length}$
- $0 \leq k \leq 10^4$
- $0 \leq \text{lists}[i].\text{length} \leq 500$
- $-10^4 \leq \text{lists}[i][j] \leq 10^4$
- `lists[i]` is sorted in **ascending order**.
- The sum of `lists[i].length` will not exceed 10^4 .

Seen this question in a real interview before? 1/4

☒ Yes ☐ No

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