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Merge k Sorted Lists - LeetCode

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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` won't exceed  $10^4$ .

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\* Definition for singly-linked list.

\* public class ListNode {

\* int val;

\* ListNode next;

\* ListNode() {}

\* ListNode(int val) { this.val = val; }

\* ListNode(int val, ListNode next) { this.val = val; this.next = next; }

\* }

\*/

class Solution {

public ListNode mergeKLists(ListNode[] lists) {

}

}

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