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/**
 * Definition for singly-linked list.
 * public class ListNode {
 *     int val;
 *     ListNode next;
 *     ListNode(int x) { val = x; }
 * }
 */
class Solution {
    public ListNode mergeKLists(ListNode[] lists) {
        Queue<ListNode> q = new PriorityQueue<>((a, b) -> a.val - b.val);
        for (ListNode node : lists) {
            if (node != null)
                q.offer(node);
        }
        ListNode dh = new ListNode(0);
        ListNode itr = dh;
        while (!q.isEmpty()) {
            ListNode node = q.poll();
            itr.next = node;
            itr = itr.next;
            if (node.next != null) {
                q.offer(node.next);
            }
        }
        return dh.next;
    }
}

```