

## MERGE K LISTS

```
class Solution {  
    public ListNode mergeKLists(ListNode[] lists) {  
  
        if (lists == null || lists.length == 0)  
            return null;  
  
        ListNode result = lists[0];  
  
        for (int i = 1; i < lists.length; i++) {  
            result = mergeTwoLists(result, lists[i]);  
        }  
  
        return result;  
    }  
    private ListNode mergeTwoLists(ListNode l1, ListNode l2) {  
        ListNode dummy = new ListNode(0);  
        ListNode curr = dummy;  
  
        while (l1 != null && l2 != null) {  
            if (l1.val < l2.val) {  
                curr.next = l1;  
                l1 = l1.next;  
            } else {  
                curr.next = l2;  
                l2 = l2.next;  
            }  
            curr = curr.next;  
        }  
    }  
}
```

```
curr.next = (l1 != null) ? l1 : l2;
```

```
return dummy.next;
```

```
}
```

```
}
```