```
k개의 정렬된 리스트를 1개의 정렬된 리스트로 병합하라.
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
# Definition for singly-linked list.
# class ListNode:
   def __init__(self, val=0, next=None):
#
      self.val = val
#
       self.next = next
1.브루트 포스
class Solution:
  def mergeKLists(self, lists: List[ListNode]) -> ListNode:
     list = ∏
     for i in lists:
       while i:
          _list.append(i.val)
          i = i.next
     _list.sort()
     list.reverse()
     result = None
     for i in list:
       result = ListNode(i, result)
     return result
2.heapq 활용
class Solution:
  def mergeKLists(self, lists: List[ListNode]) -> ListNode:
     root = result = ListNode(None)
     heap = []
     for i in range(len(lists)):
       if lists[i]:
          heapq.heappush(heap, (lists[i].val, i, lists[i]))
     while heap:
       node = heapq.heappop(heap)
```

heapq.heappush(heap, (result.next.val, idx, result.next))

idx = node[1]

return root.next

result.next = node[2] result = result.next if result.next: