

```

1  /*Merge two sorted linked lists and return it as a new list. The new list should be
   made by splicing together the nodes of the first two lists.
2
3  ..... Example:
4
5  ..... Input: 1->2->4, 1->3->4
6  ..... Output: 1->1->2->3->4->4*/
7
8  import java.util.*;
9  import java.lang.Math;
10 import java.lang.System;
11 import java.lang.Integer;
12
13
14 public class Main {
15
16     .... public static void main(String[] args) {
17         ..... int[] nums = {5, -5, -3, -5, 1, -5, 1, -2};
18
19         ..... Solution solution = new Solution();
20         ..... List<List<Integer>> receive = solution.fourSum(nums, 4);
21
22
23         ..... System.out.println("haha");
24         ....}
25
26     }
27
28
29     class ListNode {
30         .... int val;
31         .... ListNode next;
32
33         .... ListNode(int x) {
34             ..... val = x;
35             ....}
36     }
37
38     class Solution {
39         .... public ListNode mergeTwoLists(ListNode l1, ListNode l2) {
40
41             ..... ListNode pseudoHead = new ListNode(0);
42             ..... ListNode tempNode = pseudoHead;
43
44             ..... while (l1 != null && l2 != null) {
45                 ..... if (l1.val <= l2.val) {
46                     ..... tempNode.next = l1;
47                     ..... tempNode = tempNode.next;
48                     ..... l1 = l1.next;
49                 } else {
50                     ..... tempNode.next = l2;
51                     ..... tempNode = tempNode.next;
52                     ..... l2 = l2.next;
53                 }
54             }
55
56             ..... if (l1 != null) {
57                 ..... tempNode.next = l1;
58             } else if (l2 != null) {
59                 ..... tempNode.next = l2;
60             }
61
62             ..... return pseudoHead.next;
63         ....}
64     }

```