

```
5
        public static class ListNode{
 6
            int val;
 7
            ListNode next;
 8
            public ListNode(int val) {
 9(-)
                this.val = val;
10
            }
11
        }
12
13
        /*
         * 这里的链表是顺序的数字,不和第2道一样。
14
15
         * 思想是先计算两者的长度, 保持l1.length > l2.l
16
         */
        public ListNode addTwoNumbers(ListNode l1,
17
            ListNode pre = new ListNode(0);
18
19
            int length1 = 0, length2 = 0;
20
            ListNode next = l1, next2 = l2;
21
22
            while (next != null) {
23
                length1 ++;
24
                next = next.next:
25
            }
26
```

```
27
             while (next2 != null) {
28
                 length2 ++;
29
                 next2 = next2.next:
30
             }
31
32
             if(length1 < length2)</pre>
33
                 return addTwoNumbers(l2, l1);
34
35
             next = l1; next2 = l2;
36
             int [] temp = new int [length1];
37
38
             //因为l1.length > l2.length, 所以一开始te
             for(int i = 0; i < length1; i ++) {</pre>
39
                 if(i < length1 - length2) {</pre>
40
                     temp[i] = next.val;
41
                     next = next.next:
42
                 }else {
43
                     temp[i] = next.val + next2.val
44
                     next = next.next:
45
                     next2 = next2.next:
46
                 }
47
             }
48
49
             //然后逆序求,插入节点是直接插在头节点的后面,
             int carry = 0;
50
             pre.next = null;
51
             for(int j = length1 - 1; j >= 0; j --)
52
53
                 ListNode tmp = new ListNode((temp[
                 carry = (temp[j] + carry) / 10;
54
                 tmp.next = pre.next;
55
56
                 pre.next = tmp;
57
             if(carry != 0) {
58
                 ListNode tmp = new ListNode(carry)
59
                 tmn nevt - nre nevt:
60
```

```
61 pre.next = tmp;
62 }
63 return pre.next;
64 }
```