# 合并两个有序链表

合并两个已排序的链表，并将其作为一个新列表返回。新列表应该通过拼接前两个列表的节点来完成。

示例：

输入：1->2->4, 1->3->4 输出：1->1->2->3->4->4

(https://leetcode-cn.com/problems/merge-two-sorted-lists/description/)

```java
public ListNode mergeTwoLists(ListNode l1, ListNode l2) {
    ListNode dummy = new ListNode(Integer.MIN_VALUE);
    ListNode cur = dummy;
    while (l1 != null && l2 != null) {
        if (l1.val < l2.val) {
            cur.next = new ListNode(l1.val);
            l1 = l1.next;
        } else {
            cur.next = new ListNode(l2.val);
            l2 = l2.next;
        }
        cur = cur.next;
    }
    while (l2 != null) {
        cur.next = new ListNode(l2.val);
        l2 = l2.next;
        cur = cur.next;
    }
    while (l1 != null) {
        cur.next = new ListNode(l1.val);
        l1 = l1.next;
        cur = cur.next;
    }
    return dummy.next;
}
```