# 24. 反转链表

[NowCoder](https://www.nowcoder.com/practice/75e878df47f24fdc9dc3e400ec6058ca?tpId=13&tqId=11168&tPage=1&rp=1&ru=/ta/coding-interviews&qru=/ta/coding-interviews/question-ranking&from=cyc_github)

## 解题思路

### 递归

public ListNode ReverseList(ListNode head) {  
 if (head == null || head.next == null)  
 return head;  
 ListNode next = head.next;  
 head.next = null;  
 ListNode newHead = ReverseList(next);  
 next.next = head;  
 return newHead;  
}

### 迭代

使用头插法。

public ListNode ReverseList(ListNode head) {  
 ListNode newList = new ListNode(-1);  
 while (head != null) {  
 ListNode next = head.next;  
 head.next = newList.next;  
 newList.next = head;  
 head = next;  
 }  
 return newList.next;  
}