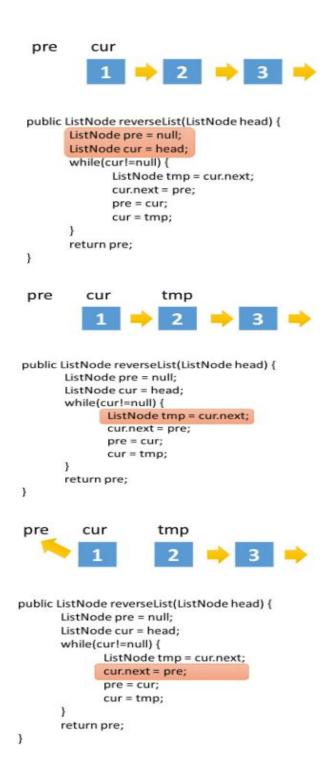
## 反转链表

## 反转一个单链表。

示例:

输入: 1->2->3->4->5->NULL

输出: 5->4->3->2->1->NUL



```
pre
                        tmp
public ListNode reverseList(ListNode head) {
       ListNode pre = null;
       ListNode cur = head;
       while(cur!=null) {
               ListNode tmp = cur.next;
               cur.next = pre;
               pre = cur;
               cur = tmp;
       }
       return pre;
}
                           cur
             pre
                          tmp
  public ListNode reverseList(ListNode head) {
         ListNode pre = null;
         ListNode cur = head;
         while(cur!=null) {
                 ListNode tmp = cur.next;
                 cur.next = pre;
                 pre = cur;
                 cur = tmp;
         return pre;
  }
                         cur
           pre
public ListNode reverseList(ListNode head) {
        ListNode pre = null;
        ListNode cur = head;
        while(cur!=null) {
               ListNode tmp = cur.next;
               cur.next = pre;
               pre = cur;
               cur = tmp;
        }
        return pre;
}
```

```
cur
                                      tmp
          pre
public ListNode reverseList(ListNode head) {
       ListNode pre = null;
       ListNode cur = head;
       while(cur!=null) {
              ListNode tmp = cur.next;
              cur.next = pre;
              pre = cur;
              cur = tmp;
       return pre;
}
            pre
                         cur
                                       tmp
 public ListNode reverseList(ListNode head) {
        ListNode pre = null;
        ListNode cur = head;
        while(cur!=null) {
               ListNode tmp = cur.next;
               cur.next = pre;
                pre = cur;
               cur = tmp;
        return pre;
 }
```

```
* Definition for singly-linked list.
 * struct ListNode {
       int val;
       struct ListNode *next;
* };
*/
struct ListNode* reverseList(struct ListNode* head){
    if(head==NULL)
        return NULL;
    struct ListNode* prev=NULL;
    struct ListNode* cur=head;
    while(cur)
    {
        struct ListNode* tmp=cur->next;
        cur->next=prev;
        prev=cur;
        cur=tmp;
```

```
}
return prev;
}
```