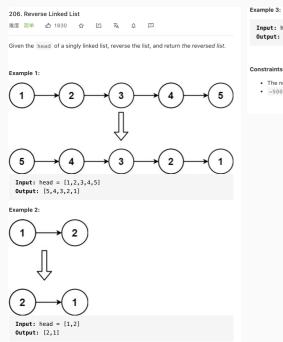
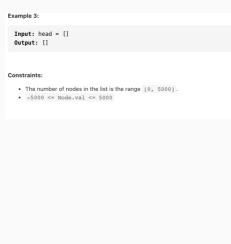
地址: の反转链表

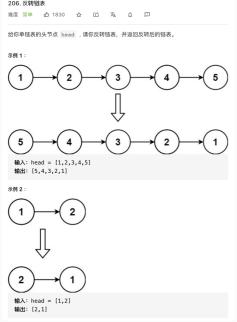
# 题目:

• English





中文





### 思路1: 双指针迭代法

### 分析

- ★ 双指针迭代赋值:
  - ★ pre pointer 迭代指针, 用来迭代链表;
  - ★ cur pointer 新建反转链表的头指针,倒叙存储当前节点。
- ★ 从链表开头迭代到尾部:
  - ★ 将当前节点连接到新建反转链表的头指针 cur pointer;
  - ★ 移动 cur pointer 作为 新建反转链表的头指针,倒叙存储当前节点。
- ★ 返回 反转链表 cur.

#### 代码:

```
// Java
// Time : 2021 - 07 - 12
public ListNode reverseList(ListNode head) {
   // head is empy list
   if (head == null) return head;
   ListNode cur = null; // head pointer for new interated linked list
   ListNode pre = head;  // iterate the linked list
   while (pre != null) {    // iterate the linked list until list is end
    ListNode temp = pre; // get the current node
     temp.next = cur;
                       // link the current node to new linked list
     cur = temp;
                       // move the cur pointer to the head of new linked list
     }
   return cur;
                    // return the interate linked list
```

```
# Python
# Time: 2021 - 07 - 12

class Solution:
def reverseList(self, head: ListNode) -> ListNode:
```

```
if head == None:
    return head

cur = None
pre = head

while pre:
    temp = pre
pre = pre.next
temp.next = cur
cur = temp

return cur
```

# 复杂度分析:

• 时间复杂度: O(n)

• 空间复杂度: O(1)