

```
public ListNode detectCycle(ListNode head) {  
    ListNode fast = head, slow = head;  
    while (fast != null && slow != null) {  
        if (fast.next != null) {  
            fast = fast.next.next;  
        } else {  
            return null;  
        }  
        slow = slow.next;  
        if (fast == slow) {  
            ListNode temp = head;  
            while (temp != slow) {  
                temp = temp.next;  
                slow = slow.next;  
            }  
            return temp;  
        }  
    }  
    return null;  
}
```

与链表结构变化相关的问题

- 反转链表 I/II
- 交换相邻结点
- 两数相加
- 删除排序链表中的重复元素 I/II
- 合并两个有序链表