

得到链表中点元素

给定一个链表，编写一个函数返回链表的中间节点
例：

Input: 1 -> 3 -> 5 -> 7 return 3

Input: 1 -> 3 -> 5 -> 7 -> 9 return 5

```
public ListNode getMiddleNode(ListNode head) {  
    int length = getLength(head);  
    int index = (length - 1) / 2;  
    ListNode curNode = head;  
    while (index-- != 0) {  
        curNode = curNode.next;  
    }  
    return curNode;  
}  
  
private int getLength(ListNode head) {  
    ListNode cur = head;  
    int length = 0;  
    while (cur != null) {  
        length++;  
        cur = cur.next;  
    }  
    return length;  
}
```

```
public ListNode getMiddleNode(ListNode head) {  
    ListNode fast = head;  
    ListNode slow = head;  
    while (fast.next != null && fast.next.next != null) {  
        fast = fast.next.next;  
        slow = slow.next;  
    }  
    return slow;  
}
```