MIDDLE OF LINKED LIST

```java
class Solution
{
    public ListNode middleNode(ListNode head)
    {
        ListNode slow = head;
        ListNode fast = head;
        ListNode dummy = new ListNode(0);
        ListNode result = dummy;
        while(fast != null && fast.next != null)
        {
            slow=slow.next;
            fast=fast.next.next;
        }
        while(slow != null)
        {
            result.next=slow;
            slow=slow.next;
            result=result.next;
        }
        return dummy.next;
    }
}
```