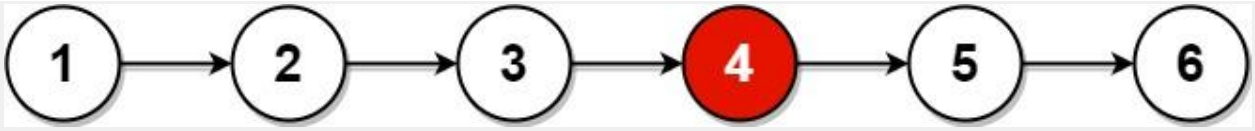
Given the head of a singly linked list, return *the middle node of the linked list*.

If there are two middle nodes, return the second middle node.

Example 1:

Input: head = [1,2,3,4,5]
Output: [3,4,5]
Explanation: The middle node of the list is node 3.

Example 2:



Input: head = [1,2,3,4,5,6]
Output: [4,5,6]
Explanation: Since the list has two middle nodes with values 3 and 4, we return the second one.

Constraints:

- **The number of nodes in the list is in the range [1, 100].**
- **1 <= Node.val <= 100**

Solution:

```
class Solution {
   public ListNode middleNode(ListNode head) {
      ListNode primary=head;
      ListNode secondary=head;

   while(primary!=null && primary.next!=null){
      primary=primary.next.next;
      secondary=secondary.next;
   }
      return secondary;
   }
}
```