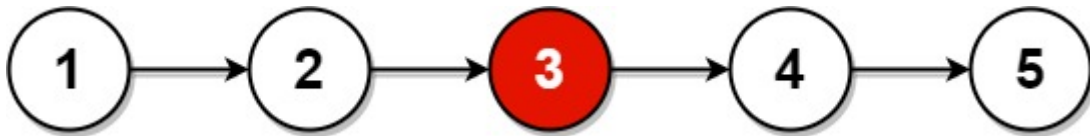


## 876. Middle of the Linked List

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:**

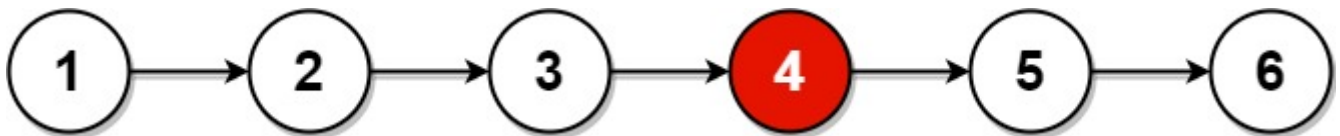


Input: `head = [1,2,3,4,5]`

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`

```
# Definition for singly-linked list.
# class ListNode:
#     def __init__(self, val=0, next=None):
#         self.val = val
#         self.next = next
class Solution:
    def middleNode(self, head: Optional[ListNode]) ->
Optional[ListNode]:

        if head is None or head.next is None:
            return head
```

```
slow = head
```

```
fast = head
```

```
while fast.next is not None and fast.next.next is not None:
```

```
    slow = slow.next
```

```
    fast = fast.next.next
```

```
if fast.next is None:
```

```
    return slow
```

```
elif fast.next.next is None:
```

```
    return slow.next
```