

Middle of the linked list
(Leet code 1)

code:

```
class Solution {
```

```
public:
```

```
ListNode* middleNode(ListNode* head) {
```

```
    ListNode* slow = head;
```

```
    ListNode* fast = head;
```

```
    while (fast != nullptr && fast->next !=  
           nullptr) {
```

```
        slow = slow->next;
```

```
        fast = fast->next->next;
```

```
    }
```

```
    return slow;
```

```
}
```

```
};
```

Output:

case 1

Input:

head =

[1, 2, 3, 4, 5]

Output:

[3, 4, 5]

Expected:

[3, 4, 5]

case 2

Input:

head =

[1, 2, 3, 4, 5, 6]

Output:

[4, 5, 6]

Expected:

[4, 5, 6]