



You have successfully solved Reverse a doubly linked list

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## Reverse a doubly linked list

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This challenge is part of a tutorial track by [MyCodeSchool](#)

You're given the pointer to the head node of a doubly linked list. Reverse the order of the nodes in the list. The head node might be NULL to indicate that the list is empty.

### Input Format

You have to complete the `Node* Reverse(Node* head)` method which takes one argument - the head of the doubly linked list. You should NOT read any input from stdin/console.

### Output Format

Change the `next` and `prev` pointers of all the nodes so that the direction of the list is reversed. Then `return` the head node of the reversed list. Do NOT print anything to stdout/console.

### Sample Input

```
NULL
NULL <-- 2 <--> 4 <--> 6 --> NULL
```

### Sample Output

```
NULL
NULL <-- 6 <--> 4 <--> 2 --> NULL
```

### Explanation

1. Empty list, so nothing to do.
2. 2,4,6 become 6,4,2 o reversing in the given doubly linked list.



Easy

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Python 3



```
1 """
2 Reverse a doubly linked list
3 head could be None as well for empty list
4 Node is defined as
5
6 class Node(object):
7
8     def __init__(self, data=None, next_node=None, prev_node = None):
9         self.data = data
10        self.next = next_node
11        self.prev = prev_node
12
13    return the head node of the updated list
14 """
15 def Reverse(head):
16     temp=head
17     while(temp):
18         head=temp
19         head.next,head.prev=head.prev,head.next
20         temp=temp.prev
21     return head
22
23
24
25
26
27
28
29
30
31
```

Line: 18 Col: 18

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✓ Test Case #0

✓ Test Case #1

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