

[Practice](#)[Compete](#)[Jobs](#)[Rank](#)[Leaderboard](#)[Dashboard](#) > [Data Structures](#) > [Linked Lists](#) > Reverse a doubly linked list

Points: 235 Rank: 34185

# Reverse a doubly linked list

 by [harsha\\_s](#)

Problem

Submissions

Leaderboard

Discussions

Editorial

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.

[f](#) [t](#) [in](#)Submissions: [29497](#)

Max Score: 5

Difficulty: Easy

Rate This Challenge:

☆☆☆☆☆

[More](#)

Current Buffer (saved locally, editable)

Java 7



```
1  ▾ /*
2    Insert Node at the end of a linked list
3    head pointer input could be NULL as well for empty list
4    Node is defined as
5    class Node {
6        int data;
7        Node next;
```

```
8      Node prev;  
9    }  
10   */  
11  
12   Node Reverse(Node head) {  
13  
14   }  
15
```

Line: 1 Col: 1

 [Upload Code as File](#)

Run Code

Submit Code

Join us on IRC at [#hackerrank](#) on freenode for hugs or bugs.

[Contest Calendar](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)