















Points: 150.00 Rank: 36104



Dashboard > Data Structures > Linked Lists > Insert a Node at the Tail of a Linked List

Insert a Node at the Tail of a Linked





Leaderboard Editorial **Problem** Submissions Discussions

This challenge is part of a tutorial track by MyCodeSchool and is accompanied by a video lesson.

You are given the pointer to the head node of a linked list and an integer to add to the list. Create a new node with the given integer. Insert this node at the tail of the linked list and return the head node. The given head pointer may be null, meaning that the initial list is empty.

You have to complete the Node* Insert(Node* head, int data) method. It takes two arguments: the head of the linked list and the integer to insert. You should **not** read any input from the stdin/console.

Insert the new node at the tail and just return the head of the updated linked list. Do not print anything to stdout/console.

Sample Input

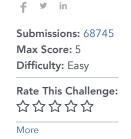
NULL, data = 2 2 --> NULL, data = 3

Sample Output

Explanation

- 1. We have an empty list, and we insert 2.
- 2. We start with a 2 in the tail. When 3 is inserted, 3 then becomes the tail.

Video lesson



C++ Current Buffer (saved locally, editable) 🦞 🔨 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 struct Node

```
6
 7
         int data;
 8
         struct Node *next;
 9
10
   Node* Insert(Node *head,int data)
11
12 ▼ {
        struct Node* buffer = (struct Node*)malloc(sizeof(Node));
13
14
        buffer->data = data;
15
        buffer->next = NULL;
16
        if (!head)
17
            return buffer;
18
        struct Node* answer = head;
19
        while (answer)
20 🔻
21
            if (answer->next == NULL)
22 🔻
23
                answer->next = buffer;
24
                return head;
25
26
            answer = answer->next;
27
        }
28
        return head;
29
30
                                                                                                         Line: 14 Col: 25
```

1 Upload Code as File

Run Code

Submit Code

Congratulations, you passed the sample test case. Click the Submit Code button to run your code against all the test cases.

Input (stdin)

Testcase 0 ✓

1

Your Output (stdout)

Right Answer!

Expected Output

Right Answer!

Copyright © 2017 HackerRank. All Rights Reserved

Join us on IRC at #hackerrank on freenode for hugs or bugs.

Contest Calendar | Interview Prep | Blog | Scoring | Environment | FAQ | About Us | Support | Careers | Terms Of Service | Privacy Policy | Request a Feature