

A *Node insert* function is also declared in your editor. It has two parameters: a pointer, , pointing to the first node of a linked list, and an integer value that must be added to the end of the list as a new *Node* object.

#### **Task**

Complete the *insert* function in your editor so that it creates a new *Node* (pass as the *Node* constructor argument) and inserts it at the tail of the linked list referenced by the parameter. Once the new node is added, return the reference to the node.

**Note:** If the argument passed to the *insert* function is *null*, then the initial list is empty.

# **Input Format**

The *insert* function has parameters: a pointer to a *Node* named , and an integer value, . The constructor for *Node* has parameter: an integer value for the field.

You do not need to read anything from stdin.

# **Output Format**

Your insert function should return a reference to the node of the linked list.

### Sample Input

The following input is handled for you by the locked code in the editor:

The first line contains *T*, the number of test cases.

The subsequent lines of test cases each contain an integer to be inserted at the list's tail.



# **Sample Output**

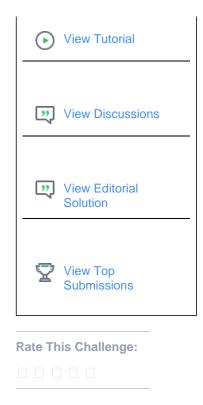
The locked code in your editor prints the ordered data values for each element in your list as a single line of space-separated integers:

2 3 4 1

# **Explanation**

, so the locked code in the editor will be inserting nodes.

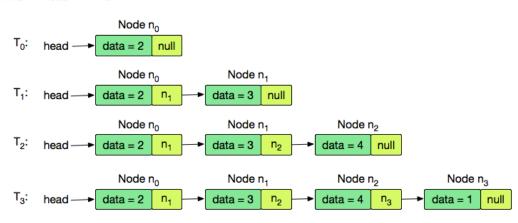
The list is initially empty, so is null; accounting for this, our code returns a new node containing the data value as the of our list. We then create and insert nodes , , and at the tail of our list. The resulting list returned by the last call to is , so the printed output is  $2 \ 3 \ 4 \ 1$ .



Download problem statement



Initial: head → null



```
Python 3
 Current Buffer (saved locally, editable)
 1 class Node:
        def __init__(self,data):
 3
            self.data = data
            self.next = None
 5 class Solution:
        def display(self,head):
 6
            current = head
 7
 8
            while current:
 9
                print(current.data,end=' ')
10
                current = current.next
11
        def insert(self,head,data):
12
        #Complete this method
13
            new_node = Node(data)
14
            if not head:
15
                return new_node
16
            else:
17
                current = head
18
                while current.next:
19
                     current = current.next
20
                current.next = new_node
21
                return head
22
23
24
   mylist= Solution()
   T=int(input())
25
26 head=None
27 \square for i in range(T):
28
        data=int(input())
29
        head=mylist.insert(head,data)
   mylist.display(head);
```

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	You've earned 30.00 points. You are no	ow 6 challenges away from the 4th star for your 30 days of co	ode badge. Next Challenge

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