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Insert a node at the head of a linked list *



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Problem

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Your Insert a node at the head of a linked list submission got 5.00 points.

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

Given a pointer to the head of a linked list, insert a new node before the head. The next value in the new node should point to head and the data value should be replaced with a given value. Return a reference to the new head of the list. The head pointer given may be null meaning that the initial list is empty.

Function Description

Complete the function *insertNodeAtHead* with the following parameter(s):

- SinglyLinkedListNode llist: a reference to the head of a list
- data: the value to insert in the data field of the new node

Input Format

The first line contains an integer n. the number of elements to be inserted at the head of the list.

The next \boldsymbol{n} lines contain an integer each, the elements to be inserted, one per function call.

Constraints

- $1 \le n \le 1000$
- $1 \leq list[i] \leq 1000$

Sample Input

STDIN	Function
5	n = 5
383	data items to insert 383 321
484	
392	
975	
321	

Sample Output

321

975

392

484

383

Explanation

Intially the list in NULL. After inserting 383, the list is 383 -> NULL.

After inserting 484, the list is 484 -> 383 -> NULL.

After inserting 392, the list is 392 -> 484 -> 383 -> NULL.

After inserting 975, the list is 975 -> 392 -> 484 -> 383 -> NULL.

After inserting 321, the list is 321 -> 975 -> 392 -> 484 -> 383 -> NULL.

```
Change Theme Language Python 3
                                                                                                     10 88 .
 1
     #!/bin/python3 --
27
     # Complete the insertNodeAtHead function below.
28
29
30
31
     # For your reference:
32
33
     # SinglyLinkedListNode:
           int data
34
35
           SinglyLinkedListNode next
36
37
38
    def insertNodeAtHead(llist, data):
39
         # Write your code here
40
         head = SinglyLinkedListNode(data)
41
         head.next = llist
         return head
42
    if __name__ == '__main__': --
```

EMACS

Line: 1 Col: 1

Test against custom input

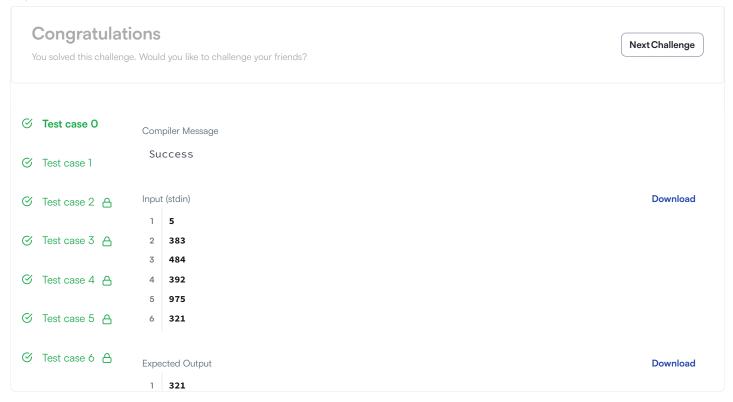
RunCode

Submit Code

You have earned 5.00 points!
You are now 9 points away from the 3rd star for your problem solving badge.

91%

191/200



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