Insert a node at the head of a linked list

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 n lines contain an integer each, the elements to be inserted, one per function call.

Constraints

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

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

```
1   #!/bin/python3 ⋯
27
28  # Complete the insertNodeAtHead function below.
29
30  #
31  # For your reference:
32  #
33  # SinglyLinkedListNode:
34  #     int data
35  #     SinglyLinkedListNode next
36  #
37  #
38  def insertNodeAtHead(llist, data):
39      # Write your code here
40      head = SinglyLinkedListNode(data)
41      head.next = llist
42      return head
43
44  if __name__ == '__main__': ⋯
```

EMACS Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code

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

91% 191/200

Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

- Test case 0
- Test case 1
- Test case 2
- Test case 3
- Test case 4
- Test case 5
- Test case 6

Compiler Message

Success

Input (stdin) Download

```
5
383
484
392
975
321
```

Expected Output Download

```
321
```