# Print in Reverse

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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 singly-linked list, print each $data$ value from the reversed list. If the given list is empty, do not print anything.

**Example**

$head*$ refers to the linked list with $data$ values $1 \rightarrow 2 \rightarrow 3 \rightarrow NULL$

Print the following:

3

2

1

**Function Description**

Complete the reversePrint function in the editor below.

reversePrint has the following parameters:

- SinglyLinkedListNode pointer head: a reference to the head of the list

**Prints**

The $data$ values of each node in the reversed list.

**Input Format**

The first line of input contains $t$, the number of test cases.

The input of each test case is as follows:

- The first line contains an integer $n$, the number of elements in the list.
- Each of the next n lines contains a data element for a list node.

**Constraints**

- $1 \leq n \leq 1000$
- $1 \leq list[i] \leq 1000$, where $list[i]$ is the $i^{th}$ element in the list.

**Sample Input**

```
3
5
16
12
4
2
5
3
7
```

```
3
9
5
5
1
18
3
13
```

**Sample Output**

```
5
2
4
12
16
9
3
7
13
3
18
1
5
```

**Explanation**

There are three test cases. There are no blank lines between test case output.

The first linked list has $\mathbf{5}$ elements: $\mathbf{16} \rightarrow \mathbf{12} \rightarrow \mathbf{4} \rightarrow \mathbf{2} \rightarrow \mathbf{5}$. Printing this in reverse order produces:

5

2

4

12

16

The second linked list has $\mathbf{3}$ elements: $\mathbf{7} \rightarrow \mathbf{3} \rightarrow \mathbf{9} \rightarrow \boldsymbol{NULL}$. Printing this in reverse order produces:

9

3

7

The third linked list has $\mathbf{5}$ elements: $\mathbf{5} \rightarrow \mathbf{1} \rightarrow \mathbf{18} \rightarrow \mathbf{3} \rightarrow \mathbf{13} \rightarrow \boldsymbol{NULL}$. Printing this in reverse order produces:

13

3

18

1

5

Change Theme Language Python 3

```
41  #
42  # The function accepts INTEGER_SINGLY_LINKED_LIST llist as parameter.
43  #
44
45  #
46  # For your reference:
47  #
48  # SinglyLinkedListNode:
49  #     int data
50  #     SinglyLinkedListNode next
```

```
#
#

def reversePrint(llist):
    # Write your code here
    if llist is None:
        return

    # Reverse list
    cur = llist
    pre = None
    while cur:
        buf = cur.next
        cur.next = pre
        pre = cur
        cur = buf

    # Print the reversed list
    while pre:
        print(pre.data)
        pre = pre.next


if   name   == '  main  ':…
```

EMACS Line: 42 Col: 1

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

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## 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

Compiler Message

Success

Input (stdin) Download

```
3
5
16
12
4
2
```

Test case 6

```
5
3
7
```