



# Print the Elements of a Linked List

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Problem

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This challenge is part of a [MyCodeSchool](#) tutorial track and is accompanied by a [video lesson](#).

If you're new to *linked lists*, this is a great exercise for learning about them. Given a pointer to the *head* node of a linked list, print its elements in order, one element per line. If the head pointer is null (indicating the list is empty), don't print anything.

## Input Format

The `void Print(Node* head)` method takes the head node of a linked list as a parameter. Each struct *Node* has a *data* field (which stores integer data) and a *next* field (which points to the next element in the list).

**Note:** Do not read any input from stdin/console. Each test case calls the *Print* method individually and passes it the head of a list.

## Output Format

Print the integer data for each element of the linked list to stdout/console (e.g.: using *printf*, *cout*, etc.). There should be one element per line.

## Sample Input

This example uses the following two linked lists:

```
NULL
1->2->3->NULL
```

**NULL** and **Node 1** are the two head nodes passed as arguments to `Print(Node* head)`.

**Note:** In linked list diagrams, `->` describes a pointer to the *next* node in the list.

## Sample Output

```
1
2
3
```

## Explanation

**Test Case 0:** **NULL**. An empty list is passed to the method, so nothing is printed.

**Test Case 1:** **1->2->3->NULL**. This is a non-empty list so we loop through each element, printing each element's data field on its own line.

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Submissions: 89804

Max Score: 5

Difficulty: Easy

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C++



```
1  /*
2   Print elements of a linked list on console
3   head pointer input could be NULL as well for empty list
4   Node is defined as
5   struct Node
6   {
7       int data;
8       struct Node *next;
9   }
10  */
11 void Print(Node *head)
12 {
13     while (head != NULL)
14     {
15         printf("%i\n", head->data);
16         head = head->next;
17     }
18 }
19
```

Line: 1 Col: 1

 [Upload Code as File](#)☐ Test against custom input

Run Code

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## Congrats, you solved this challenge!

✓ Test Case #0

✓ Test Case #1

✓ Test Case #2

✓ Test Case #3

✓ Test Case #4

✓ Test Case #5

✓ Test Case #6

✓ Test Case #7

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