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Compare two linked lists

by harsha_s

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This challenge is part of a tutorial track by MyCodeSchool

You're given the pointer to the head nodes of two linked lists. Compare the data in the nodes of the linked lists to check if they are equal. The lists are equal only if they have the same number of nodes and corresponding nodes contain the same data. Either head pointer given may be null meaning that the corresponding list is empty.

Input Format

You have to complete the `int CompareLists(Node* headA, Node* headB)` method which takes two arguments - the heads of the two linked lists to compare. You should NOT read any input from stdin/console.

Output Format

Compare the two linked lists and `return` 1 if the lists are equal. Otherwise, `return` 0. Do NOT print anything to stdout/console.

Sample Input

NULL, 1 --> NULL
1 --> 2 --> NULL, 1 --> 2 --> NULL

Sample Output

```
0
1
```

Explanation

1. We compare an empty list with a list containing 1. They don't match, hence return 0.
2. We have 2 similar lists. Hence return 1.

Submissions:49929

Max Score:5

Difficulty: Easy

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Current Buffer (saved locally, editable) C++14

```
/*
  Compare two linked lists A and B
  Return 1 if they are identical and 0 if they are not.
  Node is defined as
  struct Node
  {
     int data;
```

```
8       struct Node *next;
9     }
10  */
11  int CompareLists(Node *headA, Node* headB)
12  {
13    // This is a "method-only" submission.
14    // You only need to complete this method
15      struct Node *h1=headA;
16      struct Node *h2=headB;
17      int t =1, f =0;
18      if(h1==NULL && h2==NULL)
19          return t;
20      while(h1->next !=NULL && h2->next !=NULL)
21            {
22                 if(h1->data != h2->data)
23                     return f;
24                 h1=h1->next;
25                 h2=h2->next;
26
27             }
28      if((h1->data==h2->data)&& (h1->next ==NULL && h2->next ==NULL))
29          return t;
30
31      return f;
32  }
33
```

Line: 28 Col: 61

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

Congrats, you solved this challenge!

✔ Test Case #0 ✔ Test Case #1

You've earned 5.00 points! Next Challenge