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Dashboard > Data Structures > Linked Lists > Merge two sorted linked lists

Merge two sorted linked lists **■**





This challenge is part of a tutorial track by MyCodeSchool

You're given the pointer to the head nodes of two sorted linked lists. The data in both lists will be sorted in ascending order. Change the next pointers to obtain a single, merged linked list which also has data in ascending order. Either head pointer given may be null meaning that the corresponding list is empty.

Input Format

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

Output Format

Change the next pointer of individual nodes so that nodes from both lists are merged into a single list. Then return the head of this merged list. Do NOT print anything to stdout/console.

Sample Input

```
1 -> 3 -> 5 -> 6 -> NULL
2 -> 4 -> 7 -> NULL

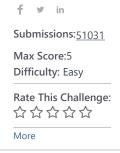
15 -> NULL
12 -> NULL

NULL
1 -> 2 -> NULL
```

Sample Output

Explanation

1. We merge elements in both list in sorted order and output.



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```
1 ▼ /*
     Merge two sorted lists A and B as one linked list
 2
 3
     Node is defined as
     struct Node
 4
 5
 6
        int data;
 7
        struct Node *next;
 8
     }
 9
10 Node* MergeLists(Node *headA, Node* headB)
11 ▼ {
     // This is a "method-only" submission.
12
     // You only need to complete this method
13
14
15
                                                                                                   Line: 1 Col: 1
Run Code
                                                                                                    Submit Code
```

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