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Dashboard › Data Structures › Linked Lists › Merge two sorted linked lists   **Points: 235   Rank: 34184**

Merge two sorted linked lists 🔖

Ⓗ by harsha_s

Problem	Submissions	Leaderboard	Discussions	Editorial

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.
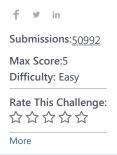
Sample Input

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

15 -> NULL
12 -> NULL

NULL
1 -> 2 -> NULL
```

Sample Output

```
1 -> 2 -> 3 -> 4 -> 5 -> 6 -> 7 -> NULL
12 -> 15 -> NULL
1 -> 2 -> NULL
```

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

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Submissions:50992

Max Score:5
Difficulty: Easy

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More

Current Buffer (saved locally, editable) 🔀 🕐   Java 7 ⌄   ⤢ ⚙

```
 1 ▼ /*
 2     Merge two linked lists
 3     head pointer input could be NULL as well for empty list
 4     Node is defined as
 5     class Node {
 6         int data;
 7         Node next;
 8     }
 9  */
10
11 ▼ Node mergeLists(Node headA, Node headB) {
12         // This is a "method-only" submission.
13         // You only need to complete this method
14
15  }
16
```

Line: 1 Col: 1

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

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