

LeetCode

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Description

Solution

Discuss (999+)

Submissions

148. Sort List

Medium

6748

222

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Given the head of a linked list, return the list after sorting it in **ascending order**.

Example 1:

4

2

1

3

1

2

3

4

Input: head = [4,2,1,3]
Output: [1,2,3,4]

Example 2:

-1

5

3

4

0

-1

0

3

4

5

Input: head = [-1,5,3,4,0]
Output: [-1,0,3,4,5]

Example 3:

Input: head = []
Output: []

Constraints:

- The number of nodes in the list is in the range $[0, 5 \cdot 10^4]$.
- $-10^5 \leq \text{Node.val} \leq 10^5$

Follow up: Can you sort the linked list in $O(n \log n)$ time and $O(1)$ memory (i.e. constant space)?

Accepted 469,167 Submissions 910,713

Seen this question in a real interview before?

Yes

No

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Autocomplete

```
1  /**
2   * Definition for singly-linked list.
3   * public class ListNode {
4   *     int val;
5   *     ListNode next;
6   *     ListNode() {}
7   *     ListNode(int val) { this.val = val; }
8   *     ListNode(int val, ListNode next) { this.val = val;
9   *         this.next = next; }
10  * }
11  */
12  class Solution {
13      public ListNode sortList(ListNode head) {
14      }
15  }
```

Problems

Pick One

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148/2188

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Console

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Run Code

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https://leetcode.com/problems/sort-list/

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