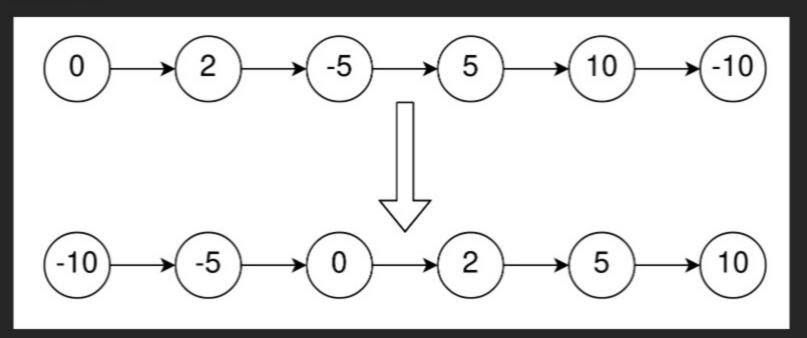
2046. Sort Linked List Already Sorted Using Absolute Values Personnia

Medium ♥ Topics ♥ Hint

Given the head of a singly linked list that is sorted in non-decreasing order using the absolute values of its nodes, return the list sorted in non-decreasing order using the actual values of its nodes.

Example 1:

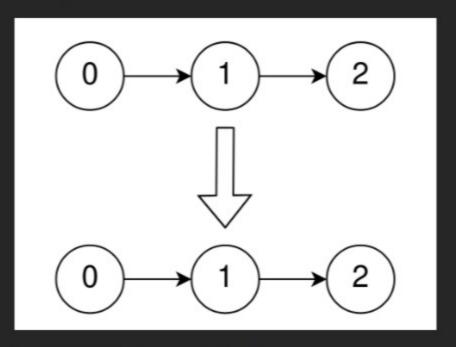


Input: head = [0,2,-5,5,10,-10]
Output: [-10,-5,0,2,5,10]

Explanation:

The list sorted in non-descending order using the absolute values of the nodes is [0,2,-5,5,10,-10]. The list sorted in non-descending order using the actual values is [-10,-5,0,2,5,10].

Example 2:



Input: head = [0,1,2]
Output: [0,1,2]
Explanation:

The linked list is already sorted in non-decreasing order.

Example 3:

Input: head = [1]
Output: [1]
Explanation:

The linked list is already sorted in non-decreasing order.

Constraints:

- The number of nodes in the list is the range $[1, 10^5]$.
- -5000 <= Node.val <= 5000
- head is sorted in non-decreasing order using the absolute value of its nodes.

Follow up:

Can you think of a solution with 0(n) time complexity?

Seen this question in a real interview before? 1/5

Yes No

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♥ Topics

O Hint 3

Linked List Two Pointers Sorting

Hint 1
The nodes with positive values are already in the correct order.

Nodes with negative values need to be moved to the front.

Nodes with negative values are in reversed order.

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Sort List

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Discussion (2)