

83. Remove Duplicates from Sorted List

Description

Hints

Submissions

Discuss

Solution

Pick One

Given a sorted linked list, delete all duplicates such that each element appear only *once*.

Example 1:

Input: 1->1->2
Output: 1->2

Example 2:

Input: 1->1->2->3->3
Output: 1->2->3

```
public class L83 {
    public class ListNode {
        int val;
        ListNode next;
        ListNode(int x) { val = x; }
    }
    /*
     * 这道题目是去除链表中的重复元素
     */
    public ListNode deleteDuplicates(ListNode head) {
        if (head == null || head.next == null) {
            return head;
        }
        //记住用一个preNode，不要利用原来的head
        ListNode preNode = new ListNode(0);
        preNode.next = head;

        ListNode node = head;
        ListNode next = head.next;
        //指针变换
        while (next != null) {
            if (node.val != next.val) {
                node.next = next;
                node = next;
                next = next.next;
            } else {
                next = next.next;
            }
        }
        //记住这儿要置空。[1,2,2,3,3]否则遇到这种情况，最后的结果是[1,2,3,3]，这时候node为第一个3，next为第二个3。
        //置空的时候就是去掉next
        node.next = null;
        return preNode.next;
    }
}
```