## 47. Remove Duplicates from Sorted List

Given the head of a sorted linked list, delete all duplicates such that each element appears

only once. Return the linked list sorted as well.

## Code:

```
class ListNode:
   def init (self, val=0, next=None):
        self.val = val
        self.next = next
def deleteDuplicates(head):
   current = head
   while current and current.next:
        if current.val == current.next.val:
            current.next = current.next.next
        else:
            current = current.next
    return head
def printList(node):
   while node:
       print(node.val, end=" -> ")
       node = node.next
   print("None")
head = ListNode(1)
head.next = ListNode(1)
head.next.next = ListNode(2)
head.next.next.next = ListNode(3)
head.next.next.next = ListNode(3)
print("Original list:")
printList(head)
head = deleteDuplicates(head)
print("List after removing duplicates:")
printList(head)
```

## **Output:**

```
Original list:

1 -> 1 -> 2 -> 3 -> None

List after removing duplicates:

1 -> 2 -> 3 -> None
```

## **Time Complexity:**

• T(n)=O(n)