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.

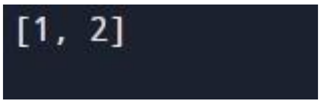
Example 1: Input: head = [1,1,2] Output: [1,2]

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

AIM: To remove duplicates in an array

PROGRAM:

```
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 list_from_linked_list(head):
    result = []
    while head:
        result.append(head.val)
        head = head.next
    return result
head1 = ListNode(1, ListNode(1, ListNode(2)))
result1 = deleteDuplicates(head1)
print(list_from_linked_list(result1))
```

OUTPUT: 

```
[1, 2]
```

TIME COMPLEXITY: O(n)