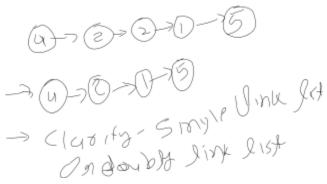
Remove Dups! Write code to remove duplicates from an unsorted linked list. **FOLLOW UP**

How would you solve this problem if a temporary buffer is not allowed?

Hints: #9. #40



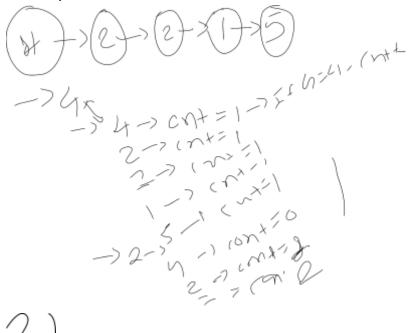
First approach: (1) Traverse through Linked list (2) Store each element in an array (3) Find out duplicates elements from an array and insert into a duplicate list array (4) Create a method to delete resultant set from a linked list (5) return the liked list

Second Approach: (1) Traverse through liked lists and add each element in Hashset where it will automatically remove the duplicate. Define a new linked list and add each element from hash

```
set and replace the linked list with the newly created linked list. --> Will develop the second
approach
Suppose we have LinkedListNode class
Class LinkedListNode{
```

```
LinkedListNode next = null;
       int data:
       public LinkedListNode(int d){
               this.data = d;
       }
void deleteDup(LinkedListNode n){
       HashSet<Integer> set = new Hashset<Integer>();
       LinkedListNode previous = null;
       // iteragte through the linked list
       while(n != null){
               if(set.contains(n.data)){
                       // following we have removed the node by cutting the link
                       previous.next = n.next;
               } else {
                       set.add(n.data)
                       previous = n;
               }
               n = n.next:
       }
}
```

Follow up



First Approach: 2 iterators where inner iterator iterate through each node and compare with the outer iterator if matches then replace the link of the previous node with next to next node