Lab2-1 Remove Duplicate Linked List

Write a program to input the sorted linked list. Delete all nodes that have duplicate numbers, leaving only distinct numbers from the sorted original list.

This is the structure of a linked list in this question

```
struct ListNode {

int val;

struct ListNode *next;

 };
```

You have to solve this question using pointer only
If output empty print None

Input: First line : integer Xi is a member of linked list, index equal to i

while -10000 <= Xi <= 10000 and with END

Output: First line : Distinct numbers from the original list.

Input	Output
3 4 5 5 5 6 7 7 7 8 9 10 END	3 4 6 8 9 10
28 30 32 32 34 36 END	28 30 34 36

Lab2-2 Reverse Linked List

Write a program to input the linked list. reverse the linked list from provided start point to the endpoint.

This is the structure of a linked list in this question

```
struct ListNode {

int val;

struct ListNode *next;

 };
```

You have to solve this question using pointer only

Input: First line : integer Xi is a member of linked list, index equal to i while -10000 <= Xi <= 10000 and with END

Second line : intger StartPoint and EndPoint # StartPoint <= EndPoint

Output: First line : Reverse Linked List.

Input	Output
3 4 5 6 7 8 9 END 2 4	3 6 5 4 7 8 9
28 30 32 32 34 36 END 2 6	28 36 34 32 32 30

Lab2-3 Palindrome (Drop One)

Write a program to input the linked list. Drop one number from linked list to create palindrome linked list, return the drop index.

if linked list alredy palindrome or can not make palindrome print None

You have to solve this question using pointer only

if multiple possible drop index found, output the smallest index

Input: First line : integer Xi is a member of linked list, index equal to i while -10000 <= Xi <= 10000 and with END

Output: First line : Drop index.

Input	Output
3 2 1 1 1 3 END	1
4 2 1 7 2 1 1 2 2 7 1 2 4 END	7