

Remove Duplicate

Problem

Submissions

Leaderboard

Discussions

Problem Statement

You will be given a singly linked list of integer values as input. You need to remove duplicate values from the linked list and finally print the linked list.

The process is, for each node **N**, traverse from that node and delete all nodes where the values are same with **N**.

Note: You must use singly linked list, otherwise you will not get marks.

Input Format

- First line will contain the values of the singly linked list, and will terminate with -1.

Constraints

- $1 \leq N \leq 1000$; Here **N** is the maximum number of nodes of the linked list.
- $0 \leq V \leq 1000$; Here **V** is the value of each node.

Output Format

- Output the final linked list where there will be no duplicate values.

Sample Input 0

```
1 2 3 4 5 -1
```

Sample Output 0

```
1 2 3 4 5
```

Sample Input 1

```
1 2 4 2 3 5 1 4 5 2 6 1 -1
```

Sample Output 1

```
1 2 4 3 5 6
```

Sample Input 2

```
5 5 1 1 2 4 2 4 1 3 5 0 -1
```

Sample Output 2

```
5 1 2 4 3 0
```

Sample Input 3

10 10 10 20 20 20 10 20 -1

Sample Output 3

10 20



Submissions: 503

Max Score: 20

Difficulty: Easy

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C++20



```
1 #include <bits/stdc++.h>
2 using namespace std;
3
4 class Node{
5     public:
6     int val;
7     Node* next;
8     Node(int val){
9         this->val = val;
10        this->next = NULL;
11    }
12 };
13
14 void print_linked_list(Node *head){
15     Node* temp = head;
16     while(temp != NULL){
17         cout << temp->val << " ";
18         temp = temp->next;
19     }
20 }
21
22 void insert_tail(Node* &head, Node *&tail, int val){
23     Node *newNode = new Node(val);
24     if(head == NULL){
25         head = newNode;
26         tail = newNode;
27         return;
28     }
29     tail->next = newNode;
30     tail = newNode;
31 }
32
33 void find_func(Node *head, int val){
34     Node* temp2 = head;
35
36     while(temp2->next != NULL){
37         if(val == temp2->next->val){
38             Node* delete_data = temp2->next;
39             temp2->next = delete_data->next;
40             delete delete_data;
41         }else{
42             temp2 = temp2->next;
43         }
44     }
45 }
46
47 }
48
49 int main(){
50
```

```
51 Node* head = NULL;
52 Node* tail = NULL;
53
54 int val;
55 while (true)
56 {
57     cin >> val;
58     if(val == -1){
59         break;
60     }
61     insert_tail(head, tail, val);
62 }
63
64 Node *temp = head;
65 while(temp->next != NULL){
66     find_func(temp,temp->val);
67     temp = temp->next;
68 }
69
70 print_linked_list(head);
71
72 return 0;
73 }
```

Line: 67 Col: 27

 [Upload Code as File](#) ☐ Test against custom input

Run Code

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