



Remove duplicates from a sorted doubly linked list 📖



Basic

Accuracy: 49.11%

Submissions: 2K+

Points: 1

Unlock your coding potential - Join our Hiring Coding Contest and land your dream job! ➦

Given a doubly linked list of n nodes sorted by values, the task is to remove duplicate nodes present in the linked list.

Example 1:

Input:

 $n = 6$ $1 \leftrightarrow 1 \leftrightarrow 1 \leftrightarrow 2 \leftrightarrow 3 \leftrightarrow 4$

Output:

 $1 \leftrightarrow 2 \leftrightarrow 3 \leftrightarrow 4$

Explanation:

Only the first occurrence of node with value 1 is retained, rest nodes with value = 1 are deleted.

Example 2:

```
1 // } Driver Code Ends
84
85 class Solution
86 {
87 public:
88
89     Node * removeDuplicates(struct Node *head)
90     {
91         // Your code here
92         Node *curr = head , *back = head;
93         while(curr != NULL){
94             if(curr->data != back->data){
95                 back->next = curr;
96                 curr->prev = back;
97                 back = curr;
98             }
99             curr = curr->next;
100         }
101         back->next = NULL;
102
103         return head;
104     }
105 };
106 // } Driver Code Ends
```





Find pairs with given sum in doubly linked list



Easy

Accuracy: 66.01%

Submissions: 17K+

Points: 2

Unlock your coding potential - Join our Hiring Coding Contest and land your dream job!



Given a sorted doubly linked list of positive distinct elements, the task is to find pairs in a doubly-linked list whose sum is equal to given value target.

Example 1:

Input:

1 <-> 2 <-> 4 <-> 5 <-> 6 <-> 8 <-> 9

target = 7

Output: (1, 6), (2,5)

Explanation: We can see that there are two pairs (1, 6) and (2,5) with sum 7.

```
1 // } Driver Code Ends
19 //User function Template for C++
20
21 class Solution
22 {
23 public:
24     vector<pair<int, int>> findPairsWithGivenSum(Node *head, int target)
25     {
26         // code here
27         vector<pair<int , int>>res ;
28         Node *slow = head , *fast = head;
29         while(fast->next != NULL){
30             fast = fast->next;
31         }
32         while(slow->data < fast->data){
33             if(slow->data + fast->data == target){
34                 res.push_back(make_pair(slow->data , fast->data));
35                 slow = slow->next;
36                 fast = fast->prev;
37             }else if(slow->data + fast->data < target){
38                 slow = slow->next;
39             }else if(slow->data + fast->data > target){
40                 fast = fast->prev;
41             }
42         }
43         return res;
44     }
45 };
46 // } Driver Code Ends
```



Delete all occurrences of a given key in a doubly linked list

Medium Accuracy: 45.08% Submissions: 3K+ Points: 4

Unlock your coding potential - Join our Hiring Coding Contest and land your dream job!

You are given the head of a doubly Linked List and a Key. Your task is to delete all occurrences of the given key and return the new DLL.

Note :- There exists atleast 1 distinct element other than key.

Example:

Input:

2<->2<->10<->8<->4<->2<->5<->2

2

Output:

10<->8<->4<->5

Explanation:

All Occurences of 2 have been deleted.

C++ (g++ 5.4)

Average Time: 30m

Start Timer



```
1 // } Driver Code Ends
37 // User function Template for C++
38
39 class Solution {
40 public:
41 void deleteAllOccurOfX(struct Node** head, int x) {
42 // Write your code here
43 Node *curr = *head;
44 Node* curr_next = NULL;
45
46 if(*head == NULL) return ;
47 while(curr != NULL){
48 if(curr->data == x){
49 curr_next = curr->next;
50
51 if(curr->prev == NULL){
52 *head = curr_next;
53 }
54 if(curr->next != NULL){
55 curr->next->prev = curr_next;
56 }
57 if(curr->prev != NULL){
58 curr->prev->next = curr_next;
59 }
60 delete curr;
61
62 curr = curr_next;
63 }else{
64 curr = curr->next;
65 }
66 }
67 }
68 };
69 // } Driver Code Ends
```



Custom Input

Compile & Run

Submit