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//Created By Ritwik Chandra Pandey on 03/03/21
//183215
//Remove Duplicates in LL (sort independent)
/* C Program to remove duplicates from a linked list */
#include<stdio.h>
#include<stdlib.h>
/* Structure for a node */
struct node
  int data:
  struct node* next;
void addNodes(struct node **first, int x) {
  struct node *temp = (struct node*) malloc(sizeof(struct node));
  struct node *lastNode = *first;
  temp \rightarrow data = x;
  if ((*first) == NULL) {
    (*first) = temp;
  } else {
     while (lastNode -> next != NULL) {
       lastNode = lastNode -> next;
     lastNode -> next = temp;
/* Function to print nodes */
void display_list(struct node *node)
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while (node!=NULL)
    printf("%d ", node->data);
    node = node -> next;
/* Function to remove duplicates from a sorted list */
void remove duplicate elements(struct node* head)
  struct node* current = head;
  struct node* next next;
  if (current == NULL)
    return;
  while (current -> next != NULL)
    /* Compare current node with its next */
    if (current -> data == current -> next -> data)
       next_next = current -> next -> next;
       free(current -> next);
       current -> next = next_next;
    else
       current = current -> next;
int main()
  struct node* head = NULL;
```

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int x;

printf("Enter elements up to -1 : ");
scanf("%d", &x);
while (x != -1) {
    addNodes(&head,x);
    scanf("%d", &x);
}

printf("\nLinked list before removing duplicates : ");
display_list(head);
printf("\n");
remove_duplicate_elements(head);
printf("\nLinked list after removing duplicates : ");
display_list(head);
printf("\n");

return 0;
}
```