```
C Program to remove duplicates from a linked list
#include<stdio.h>
#include<stdlib.h>
struct node
  int data;
  struct node* next;
};
/* Function to insert a node */
void insert_elements(struct node** head, int new_data)
  struct node* new_node = (struct node*) malloc(sizeof(struct node));
new_node -> data = new_data;
new\_node \rightarrow next = (*head);
  (*head) = new_node;
}
/* Function to print nodes */
void display_list(struct node *node)
  while (node!=NULL)
printf("%d ", node->data);
     node = node \rightarrow 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;
printf("Enter the total number of elements : ");
scanf("%d", &n);
printf("\nEnter the sorted linked list : ");
  int i;
  for(i = 0; i < n; i++)
     int data;
scanf("%d", &data);
insert_elements(&head, data);
  }
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;
```

OUTPUT

```
Enter the total number of elements: 7

Enter the sorted linked list: 1 2 2 3 3 3 4

Linked list before removing duplicates: 4 3 3 3 2 2 1

Linked list after removing duplicates: 4 3 2 1

...Program finished with exit code 0

Press ENTER to exit console.
```