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#include <stdio.h>
#include <conio.h>
#include <malloc.h>
#include <stdlib.h>

struct node {
    int data;
    struct node *next;
    struct node *prev;
};

struct node *start = NULL;

struct node *create(struct node *start);
struct node *display(struct node *start);
struct node *sort(struct node *start);

int main() {
    start = create(start);
    start = display(start);
    printf("\n");
    printf("sort \t");
    start = sort(start);

    return 0;
}

struct node *create(struct node *start) {
    struct node *new_node = NULL, *temp = NULL, *prev;
    int val;
    printf("Enter the data or enter -1 to exit:");
    scanf("%d", &val);
    while (val != -1) {
        new_node = (struct node *)malloc(sizeof(struct node));
        new_node->data = val;
        if (start == NULL) {
            start = new_node;
            new_node->next = NULL;
            new_node->prev = NULL;
        } else {
            temp = start;
            while (temp->next != NULL) {
                temp = temp->next;
            }

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        temp->next = new_node;
        new_node->prev = NULL;
        new_node->next = NULL;
    }
    printf("Enter the data or enter -1 to exit:");
    scanf("%d", &val);
}
printf("Linked list successfully created.\n");
return start;
}

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struct node *display(struct node *start) {
    struct node *temp = NULL;
    temp = start;
    printf("The Linked list is:");
    while (temp->next != NULL) {
        printf("\t %d \t", temp->data);
        temp = temp->next;
    }
    if (temp->next == NULL)
        printf("%d \n", temp->data);
    printf("\n");
    return start;
}

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struct node *sort(struct node *start) {
    struct node *temp1 = start;
    struct node *temp2, *temp;
    int x;
    while (temp1->next != NULL) {
        temp2 = start;
        while (temp2->next != NULL) {
            temp = temp2->next;
            if (temp2->data > temp->data) {
                x = temp->data;
                temp->data = temp2->data;
                temp2->data = x;
            }
            temp2 = temp2->next;
        }
        temp1 = temp1->next;
    }
    temp = start;
    printf("The Linked List is:");
}

```

```
while (temp->next != NULL) {  
    printf("%d \t", temp->data);  
    temp = temp->next;  
}  
if (temp->next == NULL)  
    printf("%d \n", temp->data);  
printf("\n");  
return start;  
}
```