10. Write a C program to implement Linked list operations

Program:

#include <stdio.h>

#include <stdlib.h>

struct Node {

int data;

struct Node\* next;

};

void insertAtBeginning(struct Node\*\* head\_ref, int new\_data) {

struct Node\* new\_node = (struct Node\*)malloc(sizeof(struct Node));

new\_node->data = new\_data;

new\_node->next = (\*head\_ref);

(\*head\_ref) = new\_node;

}

void displayList(struct Node\* node) {

while (node != NULL) {

printf("%d -> ", node->data);

node = node->next;

}

printf("NULL\n");

}

int main() {

struct Node\* head = NULL;

insertAtBeginning(&head, 3);

insertAtBeginning(&head, 7);

insertAtBeginning(&head, 9);

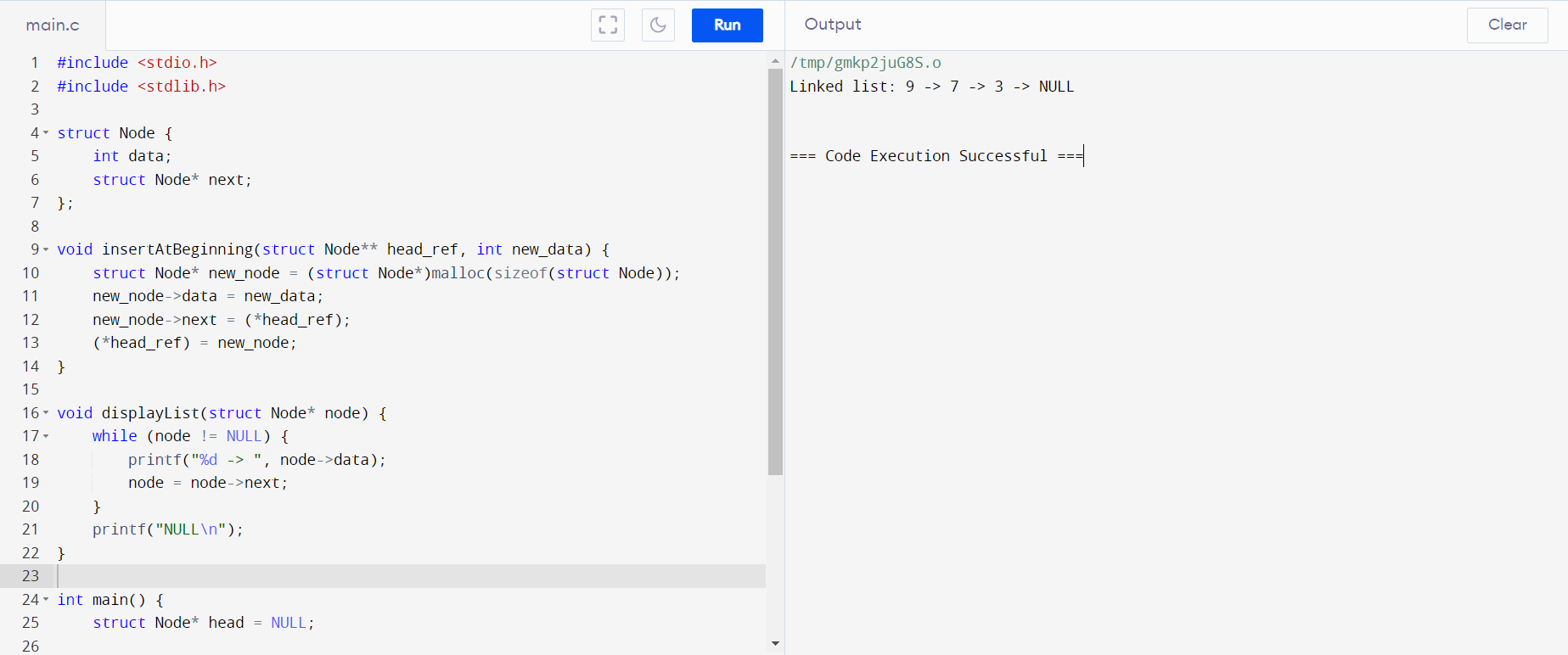
printf("Linked list: ");

displayList(head);

return 0;

}

Input:



Output:

A screenshot of a computer

Description automatically generated