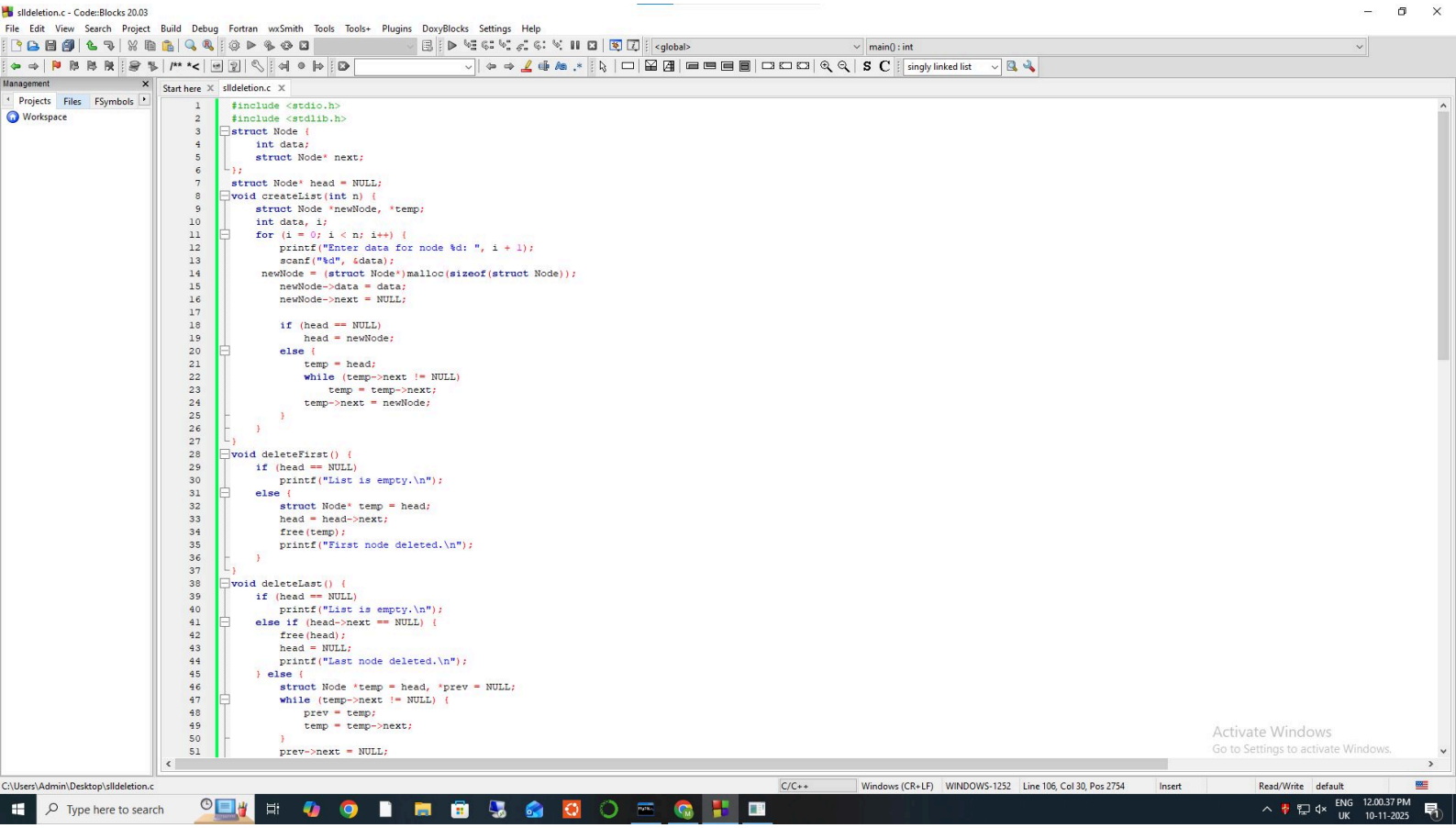
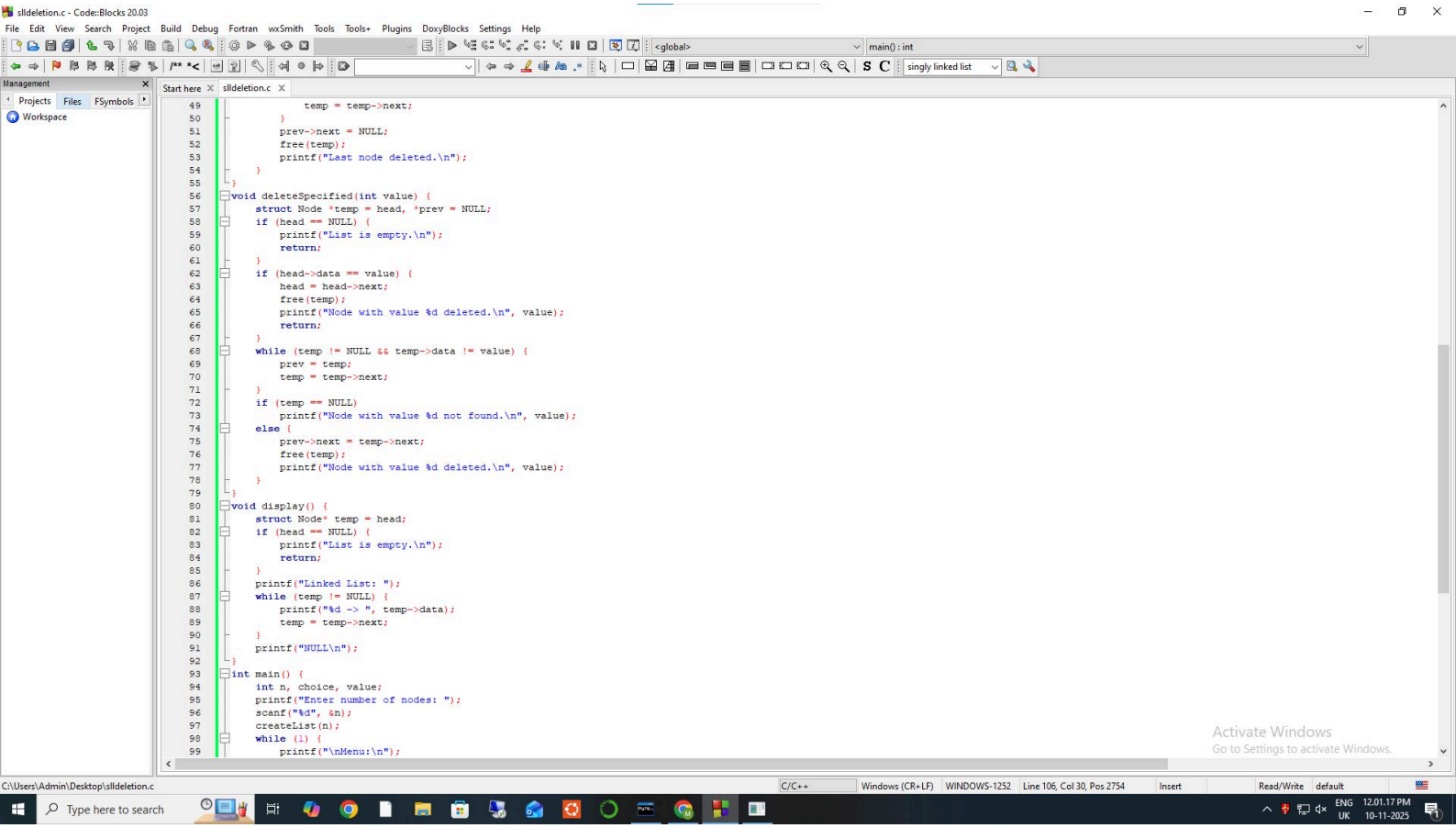
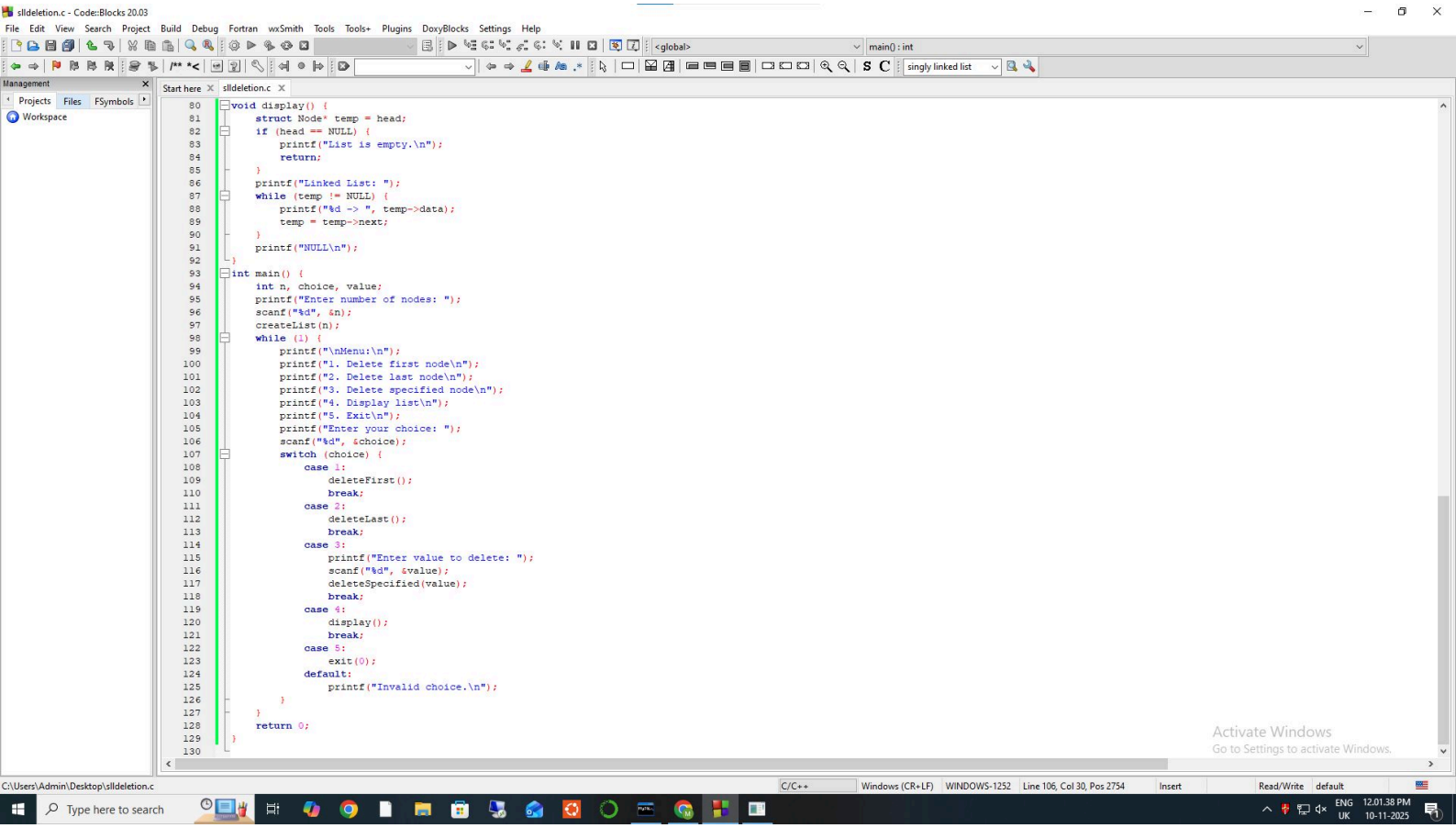

sllldeletion.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management
Projects Files FSymbols
Workspace
Start here
sllldeletion.c
#include <stdio.h>
#include <stdlib.h>
struct Node {
int data;
struct Node* next;
};
struct Node* head = NULL;
void createList(int n) {
struct Node *newNode, *temp;
int data, i;
for (i = 0; i < n; i++) {
printf("Enter data for node %d: ", i + 1);
scanf("%d", &data);
newNode = (struct Node*)malloc(sizeof(struct Node));
newNode->data = data;
newNode->next = NULL;
if (head == NULL)
head = newNode;
else {
temp = head;
while (temp->next != NULL)
temp = temp->next;
temp->next = newNode;
}
}
}
void deleteFirst() {
if (head == NULL)
printf("List is empty.\n");
else {
struct Node* temp = head;
head = head->next;
free(temp);
printf("First node deleted.\n");
}
}
void deleteLast() {
if (head == NULL)
printf("List is empty.\n");
else if (head->next == NULL) {
free(head);
head = NULL;
printf("Last node deleted.\n");
} else {
struct Node *temp = head, *prev = NULL;
while (temp->next != NULL) {
prev = temp;
temp = temp->next;
}
prev->next = NULL;
Activate Windows
Go to Settings to activate Windows.
C:\Users\Admin\Desktop\sllldeletion.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 106, Col 30, Pos 2754
Insert
Read/Write
default
Type here to search
ENG
UK
12.00.37 PM
10-11-2025


sllldeletion.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management
Projects Files FSymbols
Workspace
Start here
sllldeletion.c
temp = temp->next;
}
prev->next = NULL;
free(temp);
printf("Last node deleted.\n");
}
}
void deleteSpecified(int value) {
struct Node *temp = head, *prev = NULL;
if (head == NULL) {
printf("List is empty.\n");
return;
}
if (head->data == value) {
head = head->next;
free(temp);
printf("Node with value %d deleted.\n", value);
return;
}
while (temp != NULL && temp->data != value) {
prev = temp;
temp = temp->next;
}
if (temp == NULL)
printf("Node with value %d not found.\n", value);
else {
prev->next = temp->next;
free(temp);
printf("Node with value %d deleted.\n", value);
}
}
void display() {
struct Node* temp = head;
if (head == NULL) {
printf("List is empty.\n");
return;
}
printf("Linked List: ");
while (temp != NULL) {
printf("%d -> ", temp->data);
temp = temp->next;
}
printf("NULL\n");
}
int main() {
int n, choice, value;
printf("Enter number of nodes: ");
scanf("%d", &n);
createList(n);
while (1) {
printf("\nMenu:\n");
Activate Windows
Go to Settings to activate Windows.
C:\Users\Admin\Desktop\sllldeletion.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 106, Col 30, Pos 2754
Insert
Read/Write
default
Type here to search
ENG
UK
12.01.17 PM
10-11-2025


sllldeletion.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management
Projects Files FSymbols
Workspace
Start here
sllldeletion.c
void display() {
struct Node* temp = head;
if (head == NULL) {
printf("List is empty.\n");
return;
}
printf("Linked List: ");
while (temp != NULL) {
printf("%d -> ", temp->data);
temp = temp->next;
}
printf("NULL\n");
}
int main() {
int n, choice, value;
printf("Enter number of nodes: ");
scanf("%d", &n);
createList(n);
while (1) {
printf("\nMenu:\n");
printf("1. Delete first node\n");
printf("2. Delete last node\n");
printf("3. Delete specified node\n");
printf("4. Display list\n");
printf("5. Exit\n");
printf("Enter your choice: ");
scanf("%d", &choice);
switch (choice) {
case 1:
deleteFirst();
break;
case 2:
deleteLast();
break;
case 3:
printf("Enter value to delete: ");
scanf("%d", &value);
deleteSpecified(value);
break;
case 4:
display();
break;
case 5:
exit(0);
default:
printf("Invalid choice.\n");
}
}
return 0;
}
Activate Windows
Go to Settings to activate Windows.
C:\Users\Admin\Desktop\sllldeletion.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 106, Col 30, Pos 2754
Insert
Read/Write
default
Type here to search
ENG
UK
12.01.38 PM
10-11-2025

C:\Users\Admin\Desktop\slldeletion.exe

```
Enter number of nodes: 5
Enter data for node 1: 10
Enter data for node 2: 20
Enter data for node 3: 30
Enter data for node 4: 40
Enter data for node 5: 50

Menu:
1. Delete first node
2. Delete last node
3. Delete specified node
4. Display list
5. Exit
Enter your choice: 1
First node deleted.

Menu:
1. Delete first node
2. Delete last node
3. Delete specified node
4. Display list
5. Exit
Enter your choice: 4
Linked List: 20 -> 30 -> 40 -> 50 -> NULL

Menu:
1. Delete first node
2. Delete last node
3. Delete specified node
4. Display list
5. Exit
Enter your choice: 2
Last node deleted.

Menu:
1. Delete first node
2. Delete last node
3. Delete specified node
4. Display list
5. Exit
Enter your choice: 4
Linked List: 20 -> 30 -> 40 -> NULL

Menu:
1. Delete first node
2. Delete last node
3. Delete specified node
4. Display list
5. Exit
Enter your choice: 3
Enter value to delete: 30
Node with value 30 deleted.

Menu:
1. Delete first node
2. Delete last node
3. Delete specified node
4. Display list
5. Exit
Enter your choice: 4
Linked List: 20 -> 40 -> NULL

Menu:
```

C:\Users\Admin\Desktop\slldeletion.exe

```
5. Exit
Enter your choice: 2
Last node deleted.

Menu:
1. Delete first node
2. Delete last node
3. Delete specified node
4. Display list
5. Exit
Enter your choice: 4
Linked List: 20 -> 30 -> 40 -> NULL

Menu:
1. Delete first node
2. Delete last node
3. Delete specified node
4. Display list
5. Exit
Enter your choice: 3
Enter value to delete: 30
Node with value 30 deleted.

Menu:
1. Delete first node
2. Delete last node
3. Delete specified node
4. Display list
5. Exit
Enter your choice: 4
Linked List: 20 -> 40 -> NULL

Menu:
1. Delete first node
2. Delete last node
3. Delete specified node
4. Display list
5. Exit
Enter your choice: 5

Process returned 0 (0x0)   execution time : 58.524 s
Press any key to continue.
```