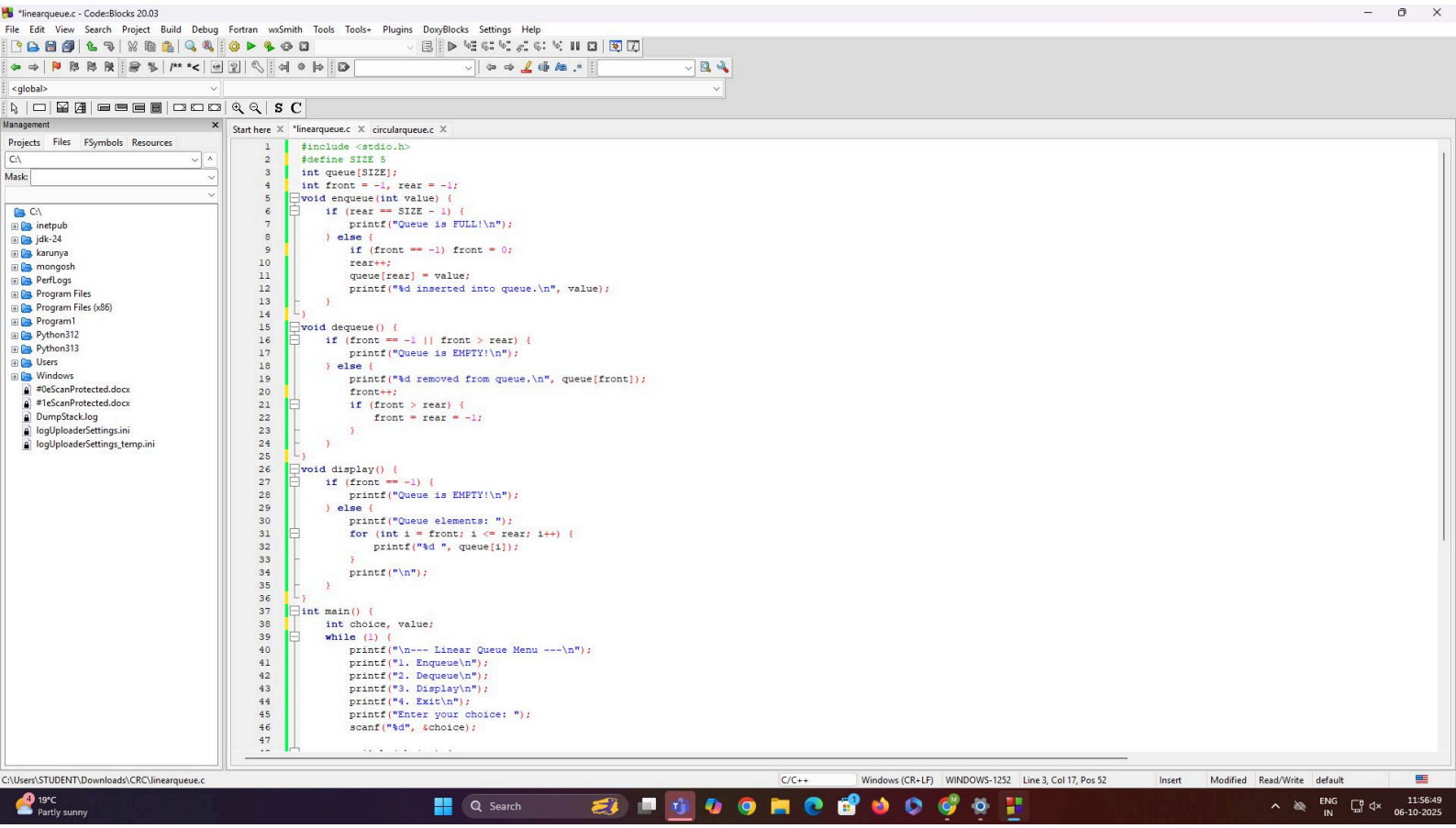
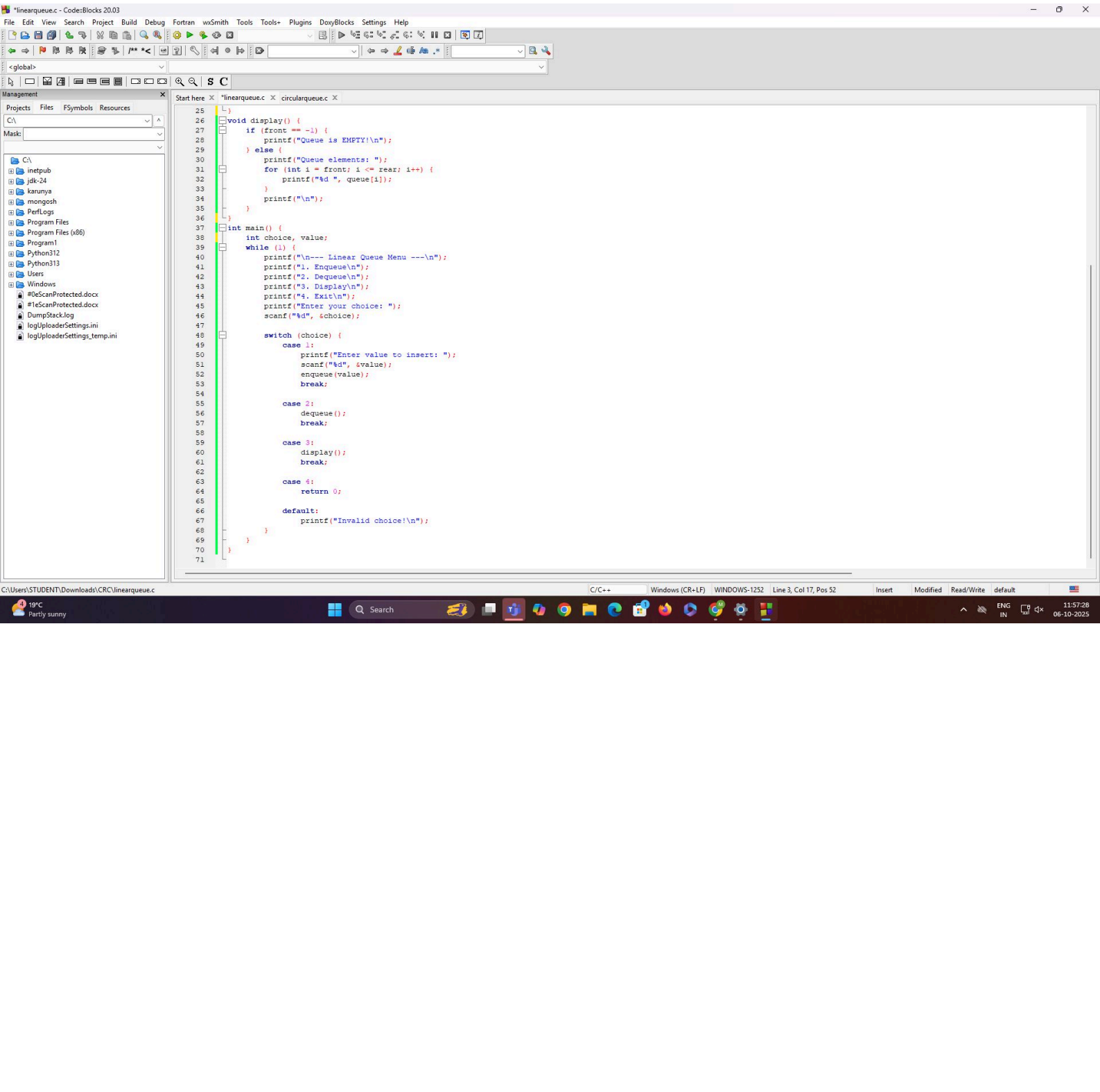
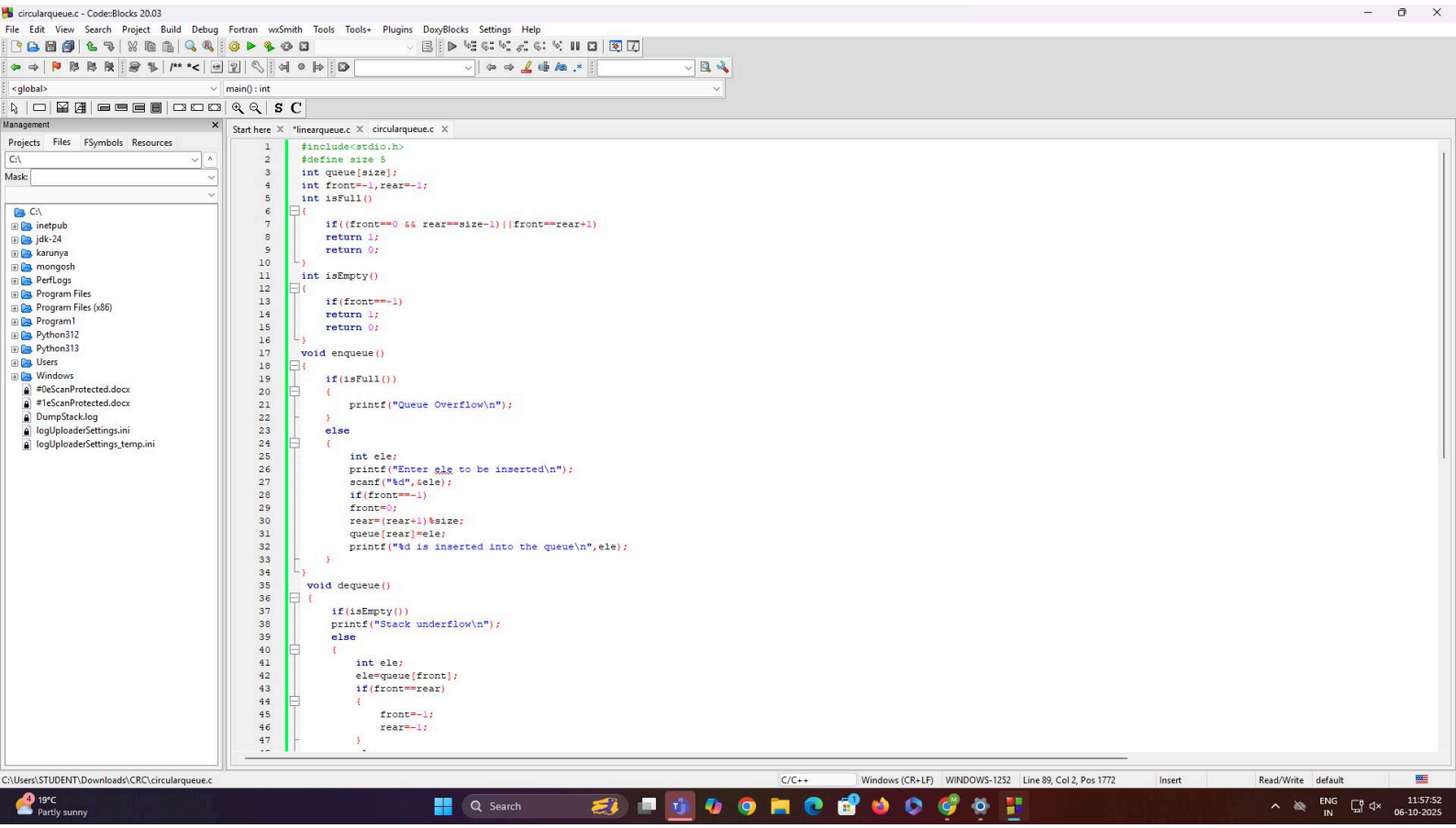
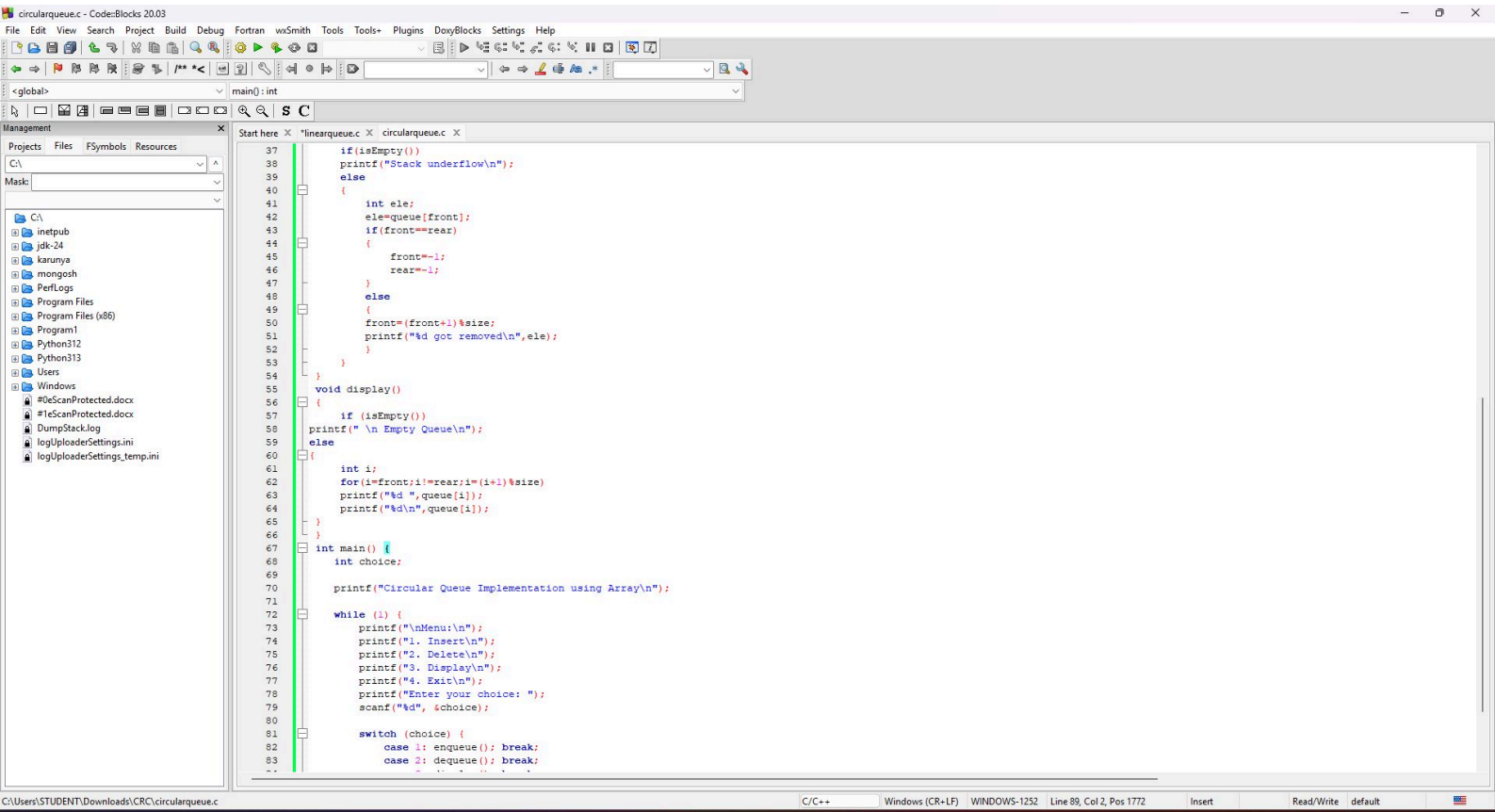
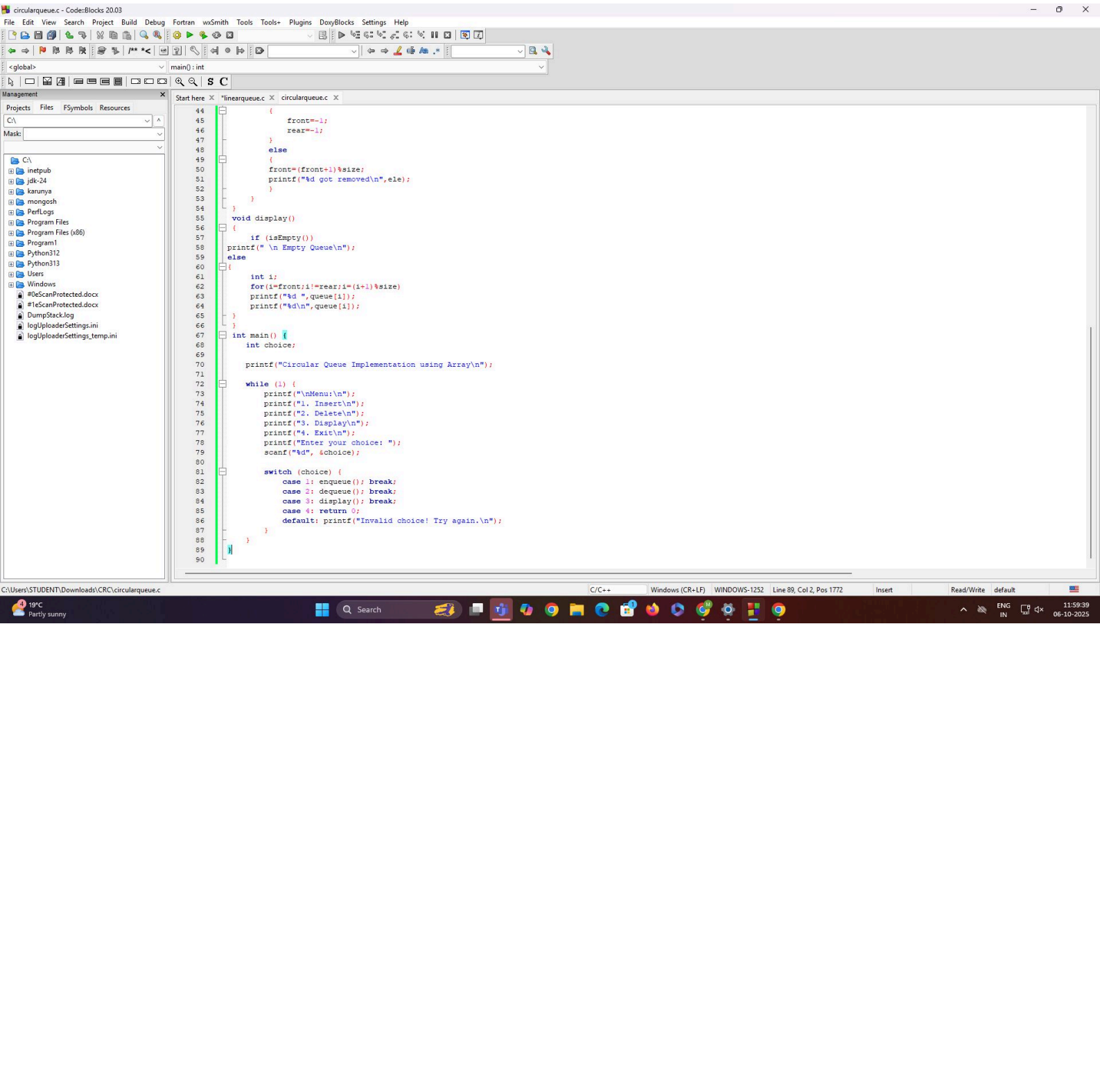

*linearqueue.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management
Projects Files FSymbols Resources
Start here
*linearqueue.c
circularqueue.c
#include <stdio.h>
#define SIZE 5
int queue[SIZE];
int front = -1, rear = -1;
void enqueue(int value) {
if (rear == SIZE - 1) {
printf("Queue is FULL!\n");
} else {
if (front == -1) front = 0;
rear++;
queue[rear] = value;
printf("%d inserted into queue.\n", value);
}
}
void dequeue() {
if (front == -1 || front > rear) {
printf("Queue is EMPTY!\n");
} else {
printf("%d removed from queue.\n", queue[front]);
front++;
if (front > rear) {
front = rear = -1;
}
}
}
void display() {
if (front == -1) {
printf("Queue is EMPTY!\n");
} else {
printf("Queue elements: ");
for (int i = front; i <= rear; i++) {
printf("%d ", queue[i]);
}
printf("\n");
}
}
int main() {
int choice, value;
while (1) {
printf("\n--- Linear Queue Menu ---\n");
printf("1. Enqueue\n");
printf("2. Dequeue\n");
printf("3. Display\n");
printf("4. Exit\n");
printf("Enter your choice: ");
scanf("%d", &choice);
C:\Users\STUDENT\Downloads\CRC\linearqueue.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 3, Col 17, Pos 52
Insert
Modified
Read/Write
default
19°C
Partly sunny
Search
ENG
IN
11:56:49
06-10-2025


*linearqueue.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
Management
Projects Files FSymbols Resources
Start here
*linearqueue.c
circularqueue.c
}
void display() {
if (front == -1) {
printf("Queue is EMPTY!\n");
} else {
printf("Queue elements: ");
for (int i = front; i <= rear; i++) {
printf("%d ", queue[i]);
}
printf("\n");
}
}
int main() {
int choice, value;
while (1) {
printf("\n--- Linear Queue Menu ---\n");
printf("1. Enqueue\n");
printf("2. Dequeue\n");
printf("3. Display\n");
printf("4. Exit\n");
printf("Enter your choice: ");
scanf("%d", &choice);
switch (choice) {
case 1:
printf("Enter value to insert: ");
scanf("%d", &value);
enqueue(value);
break;
case 2:
dequeue();
break;
case 3:
display();
break;
case 4:
return 0;
default:
printf("Invalid choice!\n");
}
}
}
C:\Users\STUDENT\Downloads\CRC\linearqueue.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 3, Col 17, Pos 52
Insert
Modified
Read/Write
default
19°C
Partly sunny
Search
ENG
IN
11:57:28
06-10-2025


circularqueue.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Projects Files FSymbols Resources
C:\
Mask:
C:\
inetpub
jdk-24
karunya
mongosh
PerfLogs
Program Files
Program Files (x86)
Program1
Python312
Python313
Users
Windows
#0eScanProtected.docx
#1eScanProtected.docx
DumpStack.log
logUploaderSettings.ini
logUploaderSettings_temp.ini
Start here
*linearqueue.c
circularqueue.c
#include<stdio.h>
#define size 5
int queue[size];
int front=-1,rear=-1;
int isFull()
{
if((front==0 && rear==size-1)||front==rear+1)
return 1;
return 0;
}
int isEmpty()
{
if(front==-1)
return 1;
return 0;
}
void enqueue()
{
if(isFull())
{
printf("Queue Overflow\n");
}
else
{
int ele;
printf("Enter ele to be inserted\n");
scanf("%d",&ele);
if(front==-1)
front=0;
rear=(rear+1)%size;
queue[rear]=ele;
printf("%d is inserted into the queue\n",ele);
}
}
void dequeue()
{
if(isEmpty())
printf("Stack underflow\n");
else
{
int ele;
ele=queue[front];
if(front==rear)
{
front=-1;
rear=-1;
}
C:\Users\STUDENT\Downloads\CRC\circularqueue.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 89, Col 2, Pos 1772
Insert
Read/Write
default
19°C
Partly sunny
Search
ENG
IN
11:57:52
06-10-2025


circularqueue.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Projects Files FSymbols Resources
C:\
Mask:
C:\
inetpub
jdk-24
karunya
mongosh
PerfLogs
Program Files
Program Files (x86)
Program1
Python312
Python313
Users
Windows
#0eScanProtected.docx
#1eScanProtected.docx
DumpStack.log
logUploaderSettings.ini
logUploaderSettings_temp.ini
Start here
*linearqueue.c
circularqueue.c
if(isEmpty())
printf("Stack underflow\n");
else
{
int ele;
ele=queue[front];
if(front==rear)
{
front=-1;
rear=-1;
}
else
{
front=(front+1)%size;
printf("%d got removed\n",ele);
}
}
}
void display()
{
if (isEmpty())
printf(" \n Empty Queue\n");
else
{
int i;
for(i=front;i!=rear;i=(i+1)%size)
printf("%d ",queue[i]);
printf("%d\n",queue[i]);
}
}
int main() {
int choice;
printf("Circular Queue Implementation using Array\n");
while (1) {
printf("\nMenu:\n");
printf("1. Insert\n");
printf("2. Delete\n");
printf("3. Display\n");
printf("4. Exit\n");
printf("Enter your choice: ");
scanf("%d", &choice);
switch (choice) {
case 1: enqueue(); break;
case 2: dequeue(); break;
C:\Users\STUDENT\Downloads\CRC\circularqueue.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 89, Col 2, Pos 1772
Insert
Read/Write
default
19°C
Partly sunny
Search
ENG
IN
11:59:18
06-10-2025


circularqueue.c - Code::Blocks 20.03
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
<global>
main() : int
Management
Projects Files FSymbols Resources
C:\
Mask:
C:\
inetpub
jdk-24
karunya
mongosh
PerfLogs
Program Files
Program Files (x86)
Program1
Python312
Python313
Users
Windows
#0eScanProtected.docx
#1eScanProtected.docx
DumpStack.log
logUploaderSettings.ini
logUploaderSettings_temp.ini
Start here
*linearqueue.c
circularqueue.c
{
front=-1;
rear=-1;
}
else
{
front=(front+1)%size;
printf("%d got removed\n",ele);
}
}
}
void display()
{
if (isEmpty())
printf(" \n Empty Queue\n");
else
{
int i;
for(i=front;i!=rear;i=(i+1)%size)
printf("%d ",queue[i]);
printf("%d\n",queue[i]);
}
}
int main() {
int choice;
printf("Circular Queue Implementation using Array\n");
while (1) {
printf("\nMenu:\n");
printf("1. Insert\n");
printf("2. Delete\n");
printf("3. Display\n");
printf("4. Exit\n");
printf("Enter your choice: ");
scanf("%d", &choice);
switch (choice) {
case 1: enqueue(); break;
case 2: dequeue(); break;
case 3: display(); break;
case 4: return 0;
default: printf("Invalid choice! Try again.\n");
}
}
}
C:\Users\STUDENT\Downloads\CRC\circularqueue.c
C/C++
Windows (CR+LF)
WINDOWS-1252
Line 89, Col 2, Pos 1772
Insert
Read/Write
default
19°C
Partly sunny
Search
ENG
IN
11:59:39
06-10-2025

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```
--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 3
Queue is EMPTY!

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 1
Enter value to insert: 11
11 inserted into queue.

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 1
Enter value to insert: 22
22 inserted into queue.

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 1
Enter value to insert: 33
33 inserted into queue.

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 1
Enter value to insert: 44
44 inserted into queue.

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 5
```

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```
3. Display
4. Exit
Enter your choice: 5
Invalid choice!

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 1
Enter value to insert: 55
55 inserted into queue.

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 1
Enter value to insert: 66
Queue is FULL!

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 2
11 removed from queue.

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 2
22 removed from queue.

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 3
Queue elements: 33 44 55

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
```

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```
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 1
Enter value to insert: 55
55 inserted into queue.

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 1
Enter value to insert: 66
Queue is FULL!

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 2
11 removed from queue.

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 2
22 removed from queue.

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 3
Queue elements: 33 44 55

--- Linear Queue Menu ---
1. Enqueue
2. Dequeue
3. Display
4. Exit
Enter your choice: 4

Process returned 0 (0x0)   execution time : 44.043 s
Press any key to continue.
```

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```
Circular Queue Implementation using Array

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 3

 Empty Queue

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter ele to be inserted
66
66 is inserted into the queue

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter ele to be inserted
77
77 is inserted into the queue

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter ele to be inserted
88
88 is inserted into the queue

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter ele to be inserted
99
99 is inserted into the queue
```

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```
Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 1
Enter ele to be inserted
100
100 is inserted into the queue

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 3
66 77 88 99 100

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 2
66 got removed

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 2
77 got removed

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 2
88 got removed

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 3
99 100

Menu:
```

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```
Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 3
66 77 88 99 100

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 2
66 got removed

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 2
77 got removed

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 2
88 got removed

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 3
99 100

Menu:
1. Insert
2. Delete
3. Display
4. Exit
Enter your choice: 4

Process returned 0 (0x0)   execution time : 44.535 s
Press any key to continue.
```