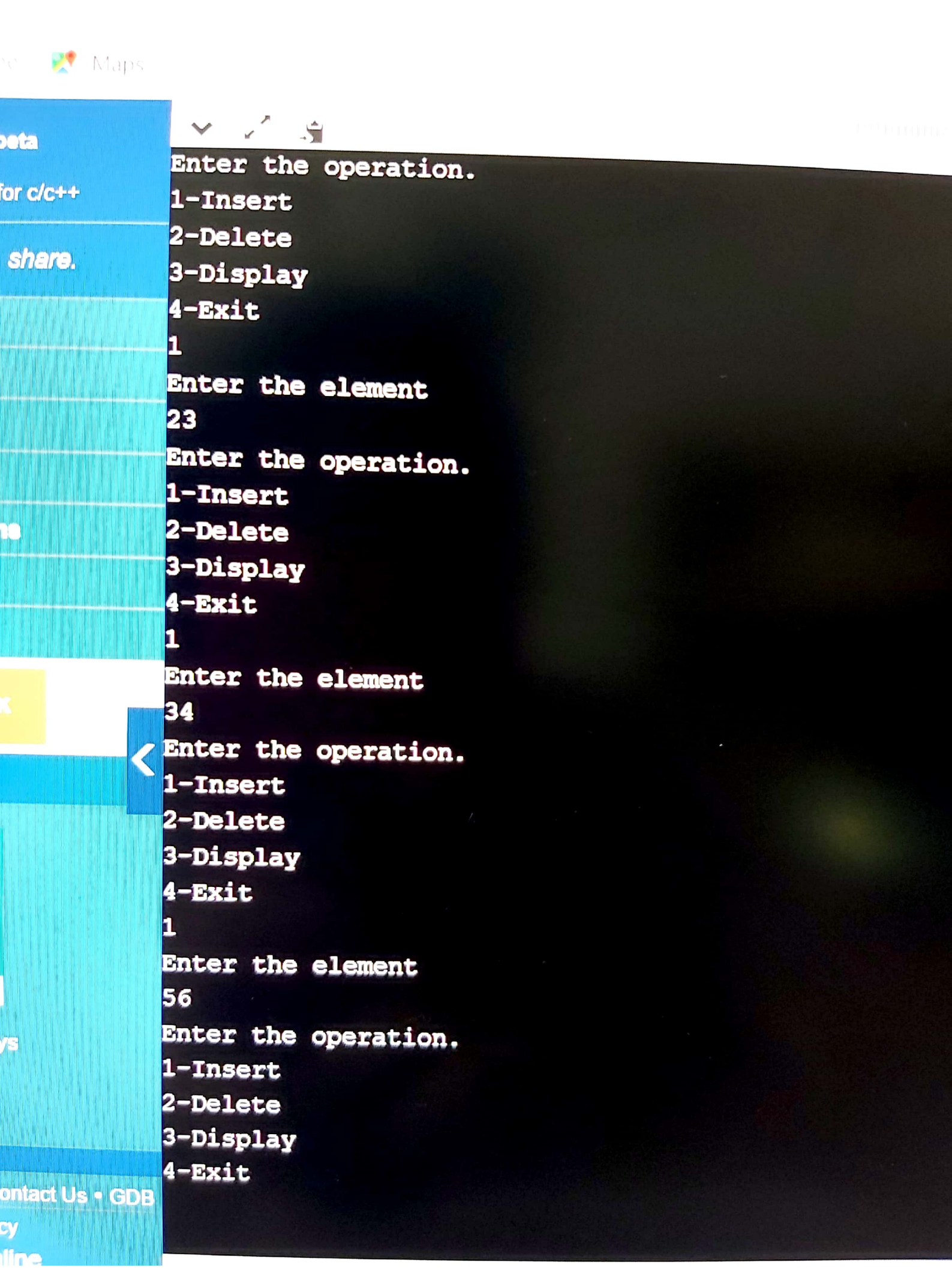
```c
#include <stdio.h>
#include <stdlib.h>
#define SIZE 6
int a[SIZE];
int front=-1;
int rear=-1;
int IsEmpty()
{
 if(rear==-1 && front==-1)
    return 1;
  else
    return 0;
}
int IsFull()
{
 if(rear==SIZE-1)
 return 1;
 else
return 0;
}
void Enqueue(int x)
{
  if(IsFull())
   printf("The queue is full\n");
  else if(IsEmpty())
  {
    front=0;
    rear=0;
    a[rear]=x;
   }
   else
   {
       rear=rear+1;
```

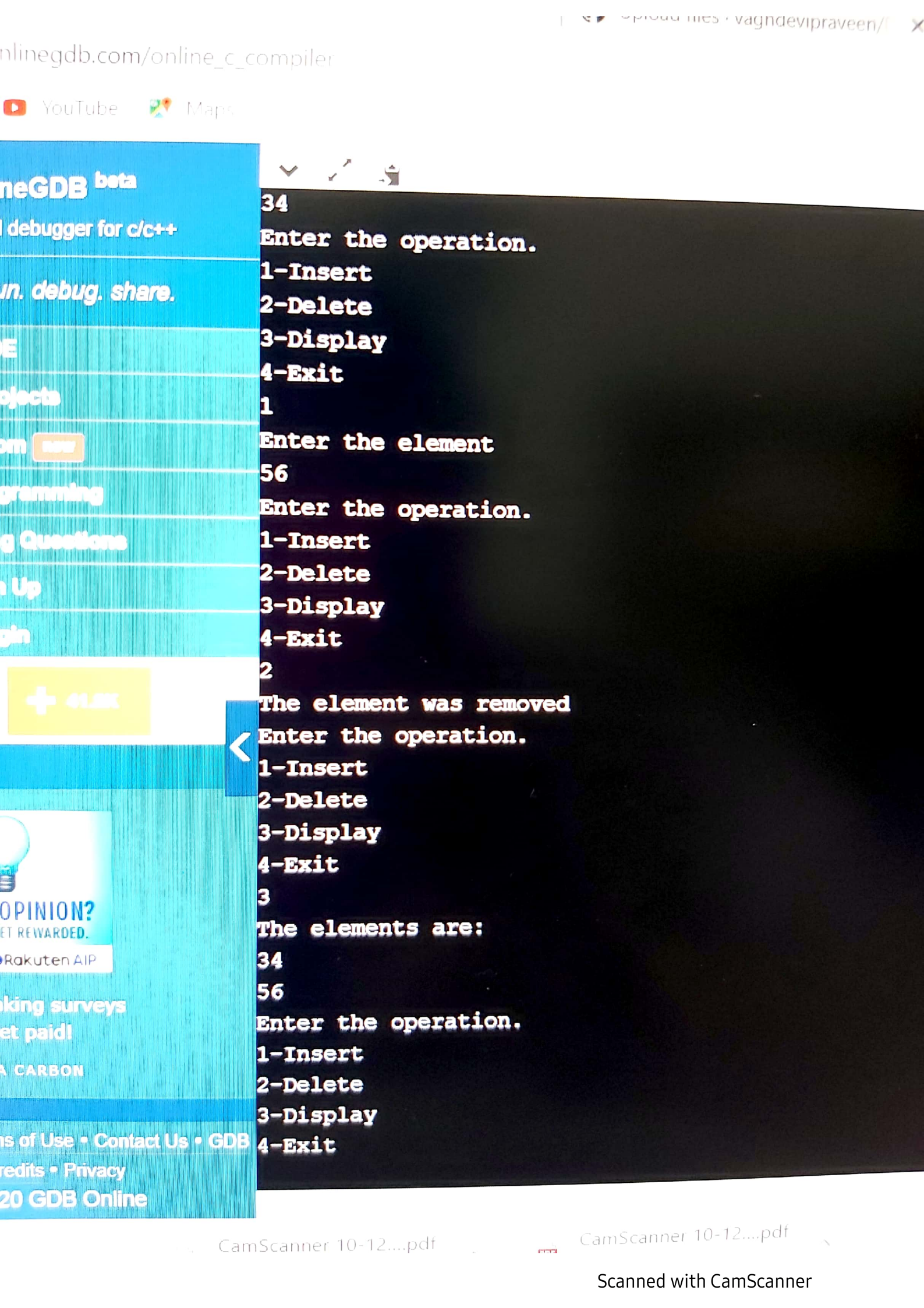
```
33          rear=rear+1;
34          a[rear]=x;
35      }
36
37  }
38
39  int Dequeue()
40  {     int x;
41      if(IsEmpty())
42      printf("The queue is empty.\n");
43      else if(front==rear)
44      {
45          x=a[front];
46          front=-1;
47          rear=-1;
48      }
49      else
50      {
51          x=a[front];
52          front=front+1;
53      }
54      return x;
55  }
56  void display()
57  {
58      if(front==-1)
59          printf("The queue is empty\n");
60      else
61      {
62          printf("The elements are:\n");
63          for(int i=front;i<=rear;i++)
64          printf("%d\n",a[i]);
65      }
```

main.c

```c
        printf("The queue is empty\n");
    else
    {
        printf("The elements are:\n");
        for(int i=front;i<=rear;i++)
        printf("%d\n",a[i]);
    }
}
int main()
{
 int n,a,x;
 while(1)
  {
 printf("Enter the operation.\n1-Insert\n2-Delete\n3-Display\n4-Exit\n");
 scanf("%d",&n);
 switch(n)
 {
   case 1: printf("Enter the element\n");
           scanf("%d",&a);
           Enqueue(a);
            break;

  case 2 :   Dequeue();
           printf("The element was removed\n");
           break;
  case 3:  display();
           break;
   case 4: exit(0);
    default :   printf("There is no such operation\n");
 }
  }
 return 0;
}
```

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34
Enter the operation.
1-Insert
2-Delete
3-Display
4-Exit
1
Enter the element
56
Enter the operation.
1-Insert
2-Delete
3-Display
4-Exit
2
The element was removed
Enter the operation.
1-Insert
2-Delete
3-Display
4-Exit
3
The elements are:
34
56
Enter the operation.
1-Insert
2-Delete
3-Display
4-Exit
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