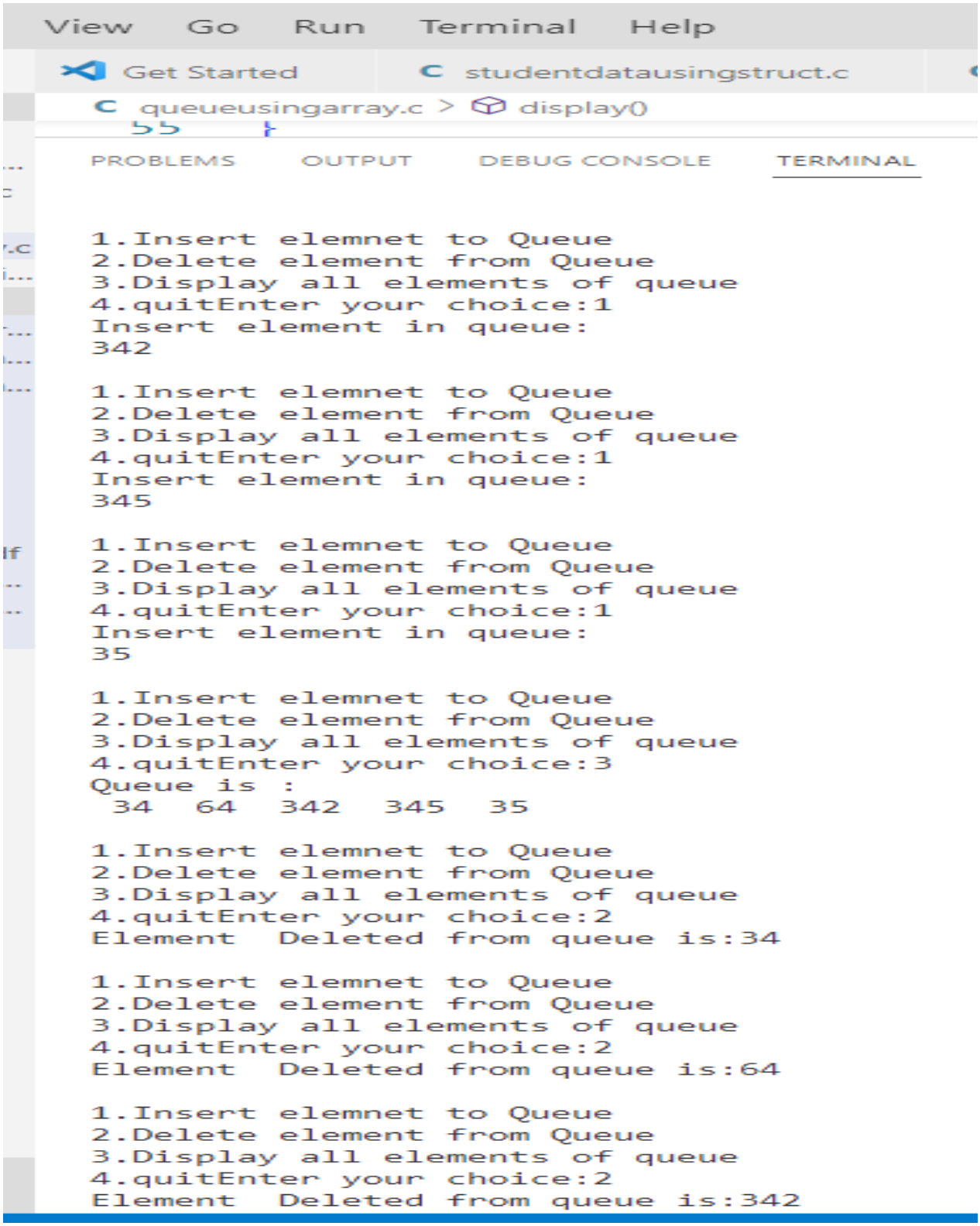
```c
#include <stdio.h>
#include <stdlib.h>

#define max 50

void insert();
void delete ();
void display();
int queue_array[max];
int rear = -1;
int front = -1;
void main()
{
 int choice;
 while (1)
 {
  printf("\n1.Insert elemnet to Queue\n");
  printf("2.Delete element from Queue\n");
  printf("3.Display all elements of queue\n");
  printf("4.quit");
  printf("Enter your choice:");
  scanf("%d", &choice);
  switch (choice)
  {
  case 1:
   insert();
   break;
  case 2:
   delete ();
   break;
  case 3:
   display();
   break;
  case 4:
   exit(1);
  default:
   printf("Wrong choice\n");
  }
```

```
 }
}
void insert()
{
 int add_item;
 if (rear == max - 1)
  printf("Queue Overflow\n");
 else
 {
  if (front == -1)
   front = 0;
  printf("Insert element in queue: \n");
  scanf("%d", &add_item);
  rear += 1;
  queue_array[rear] = add_item;
 }
}
void delete ()
{
 if (front == -1 || front > rear)
 {
  printf("Queue Underflow\n");
 }
 else
 {
  printf("Element  Deleted from queue is:%d\n",
queue_array[front]);
  front += 1;
 }
}
void display()
{
 int i;
 if (front == -1)
 {
  printf("Queue is empty\n");
 }
 else
```

```
 {
  printf("Queue is :\n");
  for (i = 0; i <= rear; i++)

   printf( " %d ", queue_array[i]);
  printf("\n");
 }
}
```


View Go Run Terminal Help
Get Started
studentdatausingstruct.c
queueusingarray.c > display()
55 }
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
1.Insert elemnet to Queue
2.Delete element from Queue
3.Display all elements of queue
4.quitEnter your choice:1
Insert element in queue:
342
1.Insert elemnet to Queue
2.Delete element from Queue
3.Display all elements of queue
4.quitEnter your choice:1
Insert element in queue:
345
1.Insert elemnet to Queue
2.Delete element from Queue
3.Display all elements of queue
4.quitEnter your choice:1
Insert element in queue:
35
1.Insert elemnet to Queue
2.Delete element from Queue
3.Display all elements of queue
4.quitEnter your choice:3
Queue is :
34 64 342 345 35
1.Insert elemnet to Queue
2.Delete element from Queue
3.Display all elements of queue
4.quitEnter your choice:2
Element Deleted from queue is:34
1.Insert elemnet to Queue
2.Delete element from Queue
3.Display all elements of queue
4.quitEnter your choice:2
Element Deleted from queue is:64
1.Insert elemnet to Queue
2.Delete element from Queue
3.Display all elements of queue
4.quitEnter your choice:2
Element Deleted from queue is:342