```c
C linearqueues.c > ⬡ displayq()
 1    #include<stdio.h>
 2    #include<stdlib.h>
 3    #define que_size 3
 4    int item,front=0,rear=-1,q[que_size];
 5    void insertrear(){
 6        if(rear==que_size-1)
 7        {
 8            printf("queue overflow");
 9            return;
10        }
11
12        q[++rear]=item;
13        }
14    int deletefront(){
15        if(front>rear){
16            front = 0;
17            rear = -1;
18            return -1;
19        }
20        return q[front++];
21    }
22    void displayq(){
23        int i;
24        if(front>rear)
25        {
26            printf("queue is empty");
27            return;
28        }
29        printf("contents of queue \n");
30        for(i=front;i<=rear;i++)
31        {
32            printf("%d\n",q[i]);
33        }
34    }
35    int main(){
36        int choice;
37        for(;;)
38        {
```

```c
27              return;
28          }
29      printf("contents of queue \n");
30      for(i=front;i<=rear;i++)
31      {
32          printf("%d\n",q[i]);
33      }
34  }
35  int main(){
36      int choice;
37      for(;;)
38      {
39          printf("1.Insert rear \n2.Delete front \n3.Display \n4.exit \n ");
40          printf("Enter the choice : ");
41          scanf("%d",&choice);
42          switch(choice)
43          {
44              case 1: printf("Enter the item\n");
45                      scanf("%d",&item);
46                      insertrear();
47                      break;
48              case 2:item=deletefront();
49                      if(item==-1)
50                      printf("queue is empty\n");
51                      else
52                      printf("item deleted is %d \n",item);
53                      break;
54              case 3:displayq();
55                      break;
56              default:exit(0);
57          }
58      }
59  }
```

```
27          return;
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL

1: Code

```
1.Insert rear
2.Delete front
3.Display
4.exit
 Enter the choice : 1
Enter the item
10
1.Insert rear
2.Delete front
3.Display
4.exit
 Enter the choice : 1
Enter the item
20
1.Insert rear
2.Delete front
3.Display
4.exit
 Enter the choice : 1
Enter the item
30
1.Insert rear
2.Delete front
3.Display
4.exit
 Enter the choice : 2
item deleted is 10
1.Insert rear
2.Delete front
3.Display
4.exit
 Enter the choice : 3
contents of queue
20
30
1.Insert rear
2.Delete front
3.Display
4.exit
 Enter the choice : █
```