```
C linearqueues.c > 分 displayq()
      #include<stdlib.h>
      int item,front=0,rear=-1,q[que_size];
      void insertrear(){
          if(rear==que_size-1)
              printf("queue overflow");
          q[++rear]=item;
      int deletefront(){
          if(front>rear){
              front = 0;
              rear = -1;
          return q[front++];
      void displayq(){
          if(front>rear)
              printf("queue is empty");
          printf("contents of queue \n");
          for(i=front;i<=rear;i++)</pre>
              printf("%d\n",q[i]);
      int main(){
          int choice;
          for(;;)
```

```
C linearqueues.c > 分 displayq()
          printf("contents of queue \n");
          for(i=front;i<=rear;i++)</pre>
              printf("%d\n",q[i]);
      int main(){
          int choice;
              printf("1.Insert rear \n2.Delete front \n3.Display \n4.exit \n ");
              printf("Enter the choice : ");
              scanf("%d",&choice);
              switch(choice)
                  case 1: printf("Enter the item\n");
                          scanf("%d",&item);
                          insertrear();
                  case 2:item=deletefront();
                         if(item==-1)
                         printf("queue is empty\n");
                         printf("item deleted is %d \n",item);
                  case 3:displayq();
                  default:exit(0);
```

```
1: Code
                                     TERMINAL
1.Insert rear
2.Delete front
3.Display
4.exit
Enter the choice : 1
Enter the item
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
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
1.Insert rear
2.Delete front
3.Display
```

C linearqueues.c > ♂ displayq()

4.exit

Enter the choice :

```
Dimple Queue
# winduck < stdio. h)
# wichede (conio.h)
# define QUE_SIZE 5
  ent item, front =0, red =-1, 9[10];
     void unsert sect ()
       of ( rem == QUE - SIZE -1)
        print ("queue overflow (n");
        utun;
        men = 100e+1!
        q ( rem) = item;
        ant delite front ()
         ( you > seay)
           utuun = 1;
          return q [front ++];
          3
       void display Q()
        ( int i i
         if (funt > new)
           print ( "queue is empty (n");
              return;
             preint ( " contents ef queue (n'));
              for li=front; i<= rew; E++)
               print ("%d\", q[i]);
```

```
Void main ()
 4 test choic:
   for (;;)
  I paint [ (" In1: insut new m2: delete food in s: display in 4: exist no")
         print ("enter the choice (n");
            scend ( "% d'; & choice);
              Suitch (duoice)
        care 1: print/ ("enter the item to be inserted in");
             9
                   Scound ("% d", & item);
                     insert rear ();
                      break;
             care 2: "entern = delete front ();
                         4 (item ==-1)
                      print( "queue is empty (n");
                       paint ("item delited - %d In", item);
                         buck;
                cau 3: display - Q ();
                         buck;
                  cou 4: exit;
```