```
#include <stdio.h>
#include <conio.h>
#include <process.h>
#define que_size 3
int item, front = 0, rear = -1, q[10];
void insertrear()
{
if (rear == que_SIZE - 1)
 {
printf("queue overflow\n");
 return;
}
 rear = rear + 1;
 q[rear] = item;
}
 int deletefront()
 {
 if (front > rear)
{
 front = 0;
 rear = -1;
 return -1;
}
 return q[front++];
}
 void displayQ()
{
 int i;
 if (front > rear)
{
 printf("que is empty\n");
 return;
}
printf("contents of ~~stack~~ que \n");
```

```
for(i= front; i<= rear; i++)
{
printf("%d\n", q[i]);
}
}
 void main()
{
 int choice;
clrscr();
for(;;)
{
printf("\n1: insert rear\n2: delete front\n3: display
      \n4: exit\n");
printf(" enter the choice\n");
scanf("%d", &choice);
switch(choice)
{
case 1: printf(" enter the item to be inserted\n");
        scanf("%d", &item);
        insert rear();
        break;
case 2:
        item = delete front();
        if (item == -1)
        printf("queue is empty\n");
        else
        printf(" item deleted: %d\n", item);
        break;

case 3: display Q();
        break;

default : exit(0);
```