```c
#include<stdio.h>
#include<stdlib.h>
#define Q_size 2
int item,front =0,rear=-1,q[10];
void insertrear()
{
    if(rear==Q_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("QUEUE IS EMPTY\n");
        return;
    }
    printf("CONTENTS OF QUEUE:\n");
    for(i=front;i<rear;i++)
    {
        printf("%d\n",q[i]);
    }
}
```

```c
    {
        printf("QUEUE IS EMPTY\n");
        return;
    }
    printf("CONTENTS OF QUEUE:\n");
    for(i=front;i<rear;i++)
    {
        printf("%d\n",q[i]);
    }
}
void main()
{
    int choice;
    for(;;)
    {
        printf("\n1:insertrear\n2:deletefront\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);
            insertrear();
            break;
            case 2:item=deletefront();
            if(item==-1)
            printf("QUEUE IS EMPTY\n");
            else
            printf("ITEM DELETED=%d\n",item);
            break;
            case 3:displayQ();
            break;
            default:exit(0);
        }
    }
}
```

```
1:insertrear
2:deletefront
3:display
4:exit
Enter the choice:
1
Enter the item to be inserted:
23

1:insertrear
2:deletefront
3:display
4:exit
Enter the choice:
1
Enter the item to be inserted:
24

1:insertrear
2:deletefront
3:display
4:exit
Enter the choice:
1
Enter the item to be inserted:
26
QUEUE OVERFLOW

1:insertrear
2:deletefront
3:display
4:exit
Enter the choice:
3
CONTENTS OF QUEUE:
23
```

```
Enter the item to be inserted:
26
QUEUE OVERFLOW

1:insertrear
2:deletefront
3:display
4:exit
Enter the choice:
3
CONTENTS OF QUEUE:
23

1:insertrear
2:deletefront
3:display
4:exit
Enter the choice:
2
ITEM DELETED=23

1:insertrear
2:deletefront
3:display
4:exit
Enter the choice:
2
ITEM DELETED=24

1:insertrear
2:deletefront
3:display
4:exit
Enter the choice:
2
QUEUE IS EMPTY
```