



Start here x q.c x dq.c x circular.c x idq.c x odq.c x

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



```
Start here x q.c x dq.c x circular.c x idq.c x odq.c x
34 for(i=1;i<=count;i++)
35 {
36     printf("%d\n",q[f]);
37     f=(f+1)%QUE_SIZE;
38 }
39 }
40 void main()
41 {
42     int choice;
43
44     for(;;)
45     {
46         printf("\n1:insertrear\n2:deletefront\n3:display\n4:exit\n");
47         printf("enter the choice\n");
48         scanf("%d",&choice);
49
50         switch(choice)
51         {
52             case 1:printf("enter the item to be inserted\n");
53                     scanf("%d",&item);
54                     insertrear();
55                     break;
56             case 2:item=deletefront();
57                     if(item==-1)
58                         printf("queue is empty\n");
59                     else
60                         printf("item deleted =%d\n",item);
61                     break;
62             case 3:displayQ();
63                     break;
64             default:exit(0);
65         }
66     }
67 }
68
69
70
```

"C:\Users\Chaya Shetty\Documents\mani\MY C\My Programm\circular.exe"

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

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

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

1:insertrear
2:deletefront
3:display
4:exit
enter the choice
1
enter the item to be inserted
4
queue overflow

1:insertrear
2:deletefront
3:display
4:exit
enter the choice
3
Contents of queue:
1
2
3

1:insertrear
```



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ENG

13:10  
28-10-2020



"C:\Users\Chaya Shetty\Documents\mani\MY C\My Programm\circular.exe"

```
1:insertrear
2:deletefront
3:display
4:exit
enter the choice
2
item deleted =2
```

```
1:insertrear
2:deletefront
3:display
4:exit
enter the choice
2
item deleted =3
```

```
1:insertrear
2:deletefront
3:display
4:exit
enter the choice
2
queue is empty
```

```
1:insertrear
2:deletefront
3:display
4:exit
enter the choice
3
queue underflow
```

```
1:insertrear
2:deletefront
3:display
4:exit
enter the choice
4
```

Process returned 0 (0x0) execution time : 36.980 s  
Press any key to continue.



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ENG

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