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Language C

main.c

```c
/**********************************************************************
               Online C Compiler.
        Code, Compile, Run and Debug C program online.
Write your code in this editor and press "Run" button to compile and execute it.

**********************************************************************/

#include<stdio.h>
#include<conio.h>
#define qsize 3
int f=0,r=-1,ch;
int item,q[10];

int isfull()
{
   return(r==qsize-1)?1:0;
}
int isempty()
{
   return(f>r)?1:0;
}
void insert_rear()
{
   if(isfull())
   {
      printf("queue overflow\n");
      return;
   }
   r=r+1;
   q[r]=item;
}
void delete_front()
```

main.c

```c
32    }
33    void delete_front()
34    {
35      if(isempty())
36        {
37          printf("queue empty\n");
38          return;
39        }
40      printf("item deleted is %d\n",q[(f)++]);
41      if(f>r)
42        {
43          f=0;
44          r=-1;
45        }
46    }
47    void insert_front()
48    {
49      if(f!=0)
50        {
51          f=f-1;
52          q[f]=item;
53          return;
54        }
55      else if((f==0)&&(r==-1))
56        {
57          q[++(r)]=item;
58          return;
59        }
60      else
61          printf("insertion not possible\n");
62    }
63    void delete_rear()
64    {
```

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Language C

main.c

```c
      void delete_rear()
64     {
65       if(isempty())
66         {
67           printf("queue is empty\n");
68           return;
69         }
70       printf("item deleted is %d\n",q[(r)--]);
71       if(f>r)
72         {
73           f=0;
74           r=-1;
75         }
76     }
77   void display()
78     {
79       int i;
80       if(isempty())
81         {
82           printf("queue empty\n");
83           return;
84         }
85       for(i=f;i<=r;i++)
86         printf("%d\n",q[i]);
87     }
88   void main()
89     {
90
91
92       for(;;)
93         {
94           printf("1.insert_rear\n2.insert_front\n3.delete_rear\n4.delete_front\n5.display\n6.exit\n");
95           printf("enter choice\n");
```

```c
87    }
88    void main()
89    {
90
91
92      for(;;)
93      {
94        printf("1.insert_rear\n2.insert_front\n3.delete_rear\n4.delete_front\n5.display\n6.exit\n");
95        printf("enter choice\n");
96        scanf("%d",&ch);
97        switch(ch)
98        {
99          case 1:printf("enter the item\n");
100                 scanf("%d",&item);
101                 insert_rear();
102                 break;
103          case 2:printf("enter the item\n");
104                 scanf("%d",&item);
105                 insert_front();
106                 break;
107          case 3:delete_rear();
108                 break;
109          case 4:delete_front();
110                 break;
111          case 5:display();
112                 break;
113          default:exit(0);
114        }
115      }
116
117    }
118
119
```

```
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
1
enter the item
10
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
1
enter the item
20
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
1
enter the item
30
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
```

```
enter choice
5
10
20
30
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
4
item deleted is 10
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
3
item deleted is 30
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
2
enter the item
65
1.insert_rear
2.insert_front
3.delete_rear
```

```
6.exit
enter choice
3
item deleted is 30
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
2
enter the item
65
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
5
65
20
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
6

...Program finished with exit code 0
Press ENTER to exit console.
```