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```
1 #include<stdio.h>
2 #include<conio.h>
3 #include<process.h>
4 #define qsize 5
5 int f=0,r=-1,ch;
6 int item,q[10];
7
8 int isfull()
9 {
10     return(r==qsize-1)?1:0;
11 }
12 int isempty()
13 {
14     return(f>r)?1:0;
15 }
16 void insert_rear()
17 {
18     if(isfull())
19     {
20         printf("queue overflow\n");
21         return;
22     }
23     r=r+1;
24     q[r]=item;
25 }
26 void delete_front()
27 {
28     if(isempty())
29     {
30         printf("queue empty\n");
31         return;
32     }
33     printf("item deleted is %d\n",q[(f)++]);
34     if(f>r)
35     {
36         f=0;
37     }
38 }
```

```
    }
    printf("item deleted is %d\n", q[(f)++]);
    if(f>r)
    {
        f=0;
        r=-1;
    }
}
void insert_front()
{
    if(f!=0)
    {
        f=f-1;
        q[f]=item;
        return;
    }
    else if((f==0)&&(r==-1))
    {
        q[++(r)]=item;
        return;
    }
    else
        printf("insertion not possible\n");
}
void delete_rear()
{
    if(isempty())
    {
        printf("queue is empty\n");
        return;
    }
    printf("item deleted is %d\n", q[(r)--]);
    if(f>r)
    {
        f=0;
        r=-1;
    }
}
```

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```
    {
        f=0;
        r=-1;
    }
void display()
{
    int i;
    if(isempty())
    {
        printf("queue empty\n");
        return;
    }
    for(i=f;i<=r;i++)
        printf("%d\n",q[i]);
}
int main()
{
    for(;;)
    {
        printf("1.insert_rear\n2.insert_front\n3.delete_rear\n4.delete_front\n5.display\n6.exit\n");
        printf("enter choice\n");
        scanf("%d",&ch);
        switch(ch)
        {
            case 1:printf("enter the item\n");
                scanf("%d",&item);
                insert_rear();
                break;
            case 2:printf("enter the item\n");
                scanf("%d",&item);
                insert_front();
                break;
            case 3:delete_rear();
                break;
            case 4:delete front();
```

```
 85 printf("1.insert_rear\n2.insert_front\n3.delete_rear\n4.delete_front\n5.display\n6.exit");
 86
 87 printf("enter choice\n");
 88 scanf("%d", &ch);
 89 switch(ch)
 90 {
 91     case 1:printf("enter the item\n");
 92             scanf("%d", &item);
 93             insert_rear();
 94             break;
 95     case 2:printf("enter the item\n");
 96             scanf("%d", &item);
 97             insert_front();
 98             break;
 99     case 3:delete_rear();
100             break;
101     case 4:delete_front();
102             break;
103     case 5:display();
104             break;
105     default:exit(0);
106 }
107 getch();
108 }
109 }
```

Status: gcc -Wall -o "priorityqueue" "priorityqueue.c" (in directory: C:\Users\Nithin')  
Compiler: Compilation finished successfully.  
Messages  
Scribble

line: 82 / 109 col: 2 sel: 0 INS TAB mode: CRLF encoding: UTF-8 filetype: C scope: unknown

priorityqueue.c - C:\Users\Nithin' - Geany

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Symbols Doc Functions

- 1.insert\_rear
- 2.insert\_front
- 3.delete\_rear
- 4.delete\_front
- 5.display
- 6.exit
- enter choice
- insert\_rd
- isempty
- 12
- isfull [8]
- main [8]
- 2.insert\_front
- 3.delete\_rear
- 4.delete\_front
- 5.display
- 6.exit
- enter choice
- 2
- enter the item
- 16
- item [6]
- 15
- q [6]
- insertion not possible
- 1.insert\_rear
- 2.insert\_front
- 3.delete\_rear
- 4.delete\_front
- 5.display
- 6.exit
- enter choice
- 5
- 12

C:\WINDOWS\SYSTEM32\cmd.exe

```
Functions
  1.insert_rear
  2.insert_front
  3.delete_rear
  4.delete_front
  5.display
  6.exit
  enter choice
  12
  1.insert_rear
  2.insert_front
  3.delete_rear
  4.delete_front
  5.display
  6.exit
  enter choice
  1
  enter the item
  34
  1.insert_rear
  2.insert_front
  3.delete_rear
  4.delete_front
  5.display
  6.exit
  enter choice
  1
  enter the item
  45
  1.insert_rear
```

```
Functions
 12
 34
 45
 1.insert_rear
 2.insert_front
 3.delete_rear
 4.delete_front
 5.display
 6.exit
 7 isempty [8]
 8 isfull [8]
 9 enter choice
10 main [8]

Macros item deleted is 12
 1.insert_rear
 2.insert_front
 3.delete_rear
 4.delete_front
 5.display
 6.exit
 7 qsize [4]
 8 enter choice
 9 ch [5]
10 f [5]
11 item [6]
12 q [6]
13 r [5]

Variables
 12
 34
 45
 1.insert_rear
 2.insert_front
 3.delete_rear
 4.delete_front
 5.display
 6.exit
 7 enter choice
```