

C mulpri.c x

C mulpri.c > pqdelete()

```
1  #include<stdio.h>
2  #include<stdlib.h>
3  #define N 5
4  int queue[3][N];
5  int front[3]={0,0,0};
6  int rear[3]={-1,-1,-1};
7  int item,pr;
8
9  int pqinsert(int pr)
10 {
11     if(rear[pr]==N-1)
12         printf("\n Queue overflow\n");
13     else
14     {
15         printf("\n enter the item\n");
16         scanf("%d",&item);
17         rear[pr]++;
18         queue[pr][rear[pr]]=item;
19     }
20 }
21 int pqdelete()
22 {
23     int i;
24     for(i=0;i<3;i++)
25     {
26         if(rear[i]==front[i]-1)
27             printf("\nqueue empty\n");
28         else
29         {
30             printf("deleted item is %d of queue %d\n",queue[i][front[i]],i+1);
31             front[i]++;
32         }
33     }
34 }
35 int display()
36 {
37     int i,j;
```

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```
34 }
35 int display()
36 {
37     int i,j;
38     for(i=0;i<3;i++)
39     {
40         if(rear[i]==front[i]-1)
41             printf("\nqueue %d is empty\n",i+1);
42         else
43         {
44             printf("\nQUEUE %d:",i+1);
45             for(j=front[i];j<=rear[i];j++)
46                 printf("%d\t",queue[i][j]);
47         }
48     }
49 }
50 }
51 int main()
52 {
53     int ch;
54     while(1)
55     {
56         printf("\n1:PQinsert\n");
57         printf("\n2:PQdelete\n");
58         printf("\n3:PQdisplay\n");
59         printf("\n4:Exit\n");
60         printf("\nenter the choice\n");
61         scanf("%d",&ch);
62         switch(ch)
63         {
64             case 1:printf("\nenter the priority number\n");
65                     scanf("%d",&pr);
66                     if(pr>0 && pr<4)
67                         pqinsert(pr-1);
68                     else
69                         printf("\nonly 3 priority exists 1 2 3\n");
70                     break;
71             case 2: pqdelete();
```

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```
47     }
48 }
49
50 }
51 int main()
52 {
53     int ch;
54     while(1)
55     {
56         printf("\n1:PQinsert\n");
57         printf("\n2:PQdelete\n");
58         printf("\n3:PQdisplay\n");
59         printf("\n4:Exit\n");
60         printf("\nenter the choice\n");
61         scanf("%d",&ch);
62         switch(ch)
63         {
64             case 1:printf("\nenter the priority number\n");
65                     scanf("%d",&pr);
66                     if(pr>0 && pr<4)
67                         pqinsert(pr-1);
68                     else
69                         printf("\nonly 3 priority exists 1 2 3\n");
70                     break;
71             case 2: pqdelete();
72                     break;
73             case 3: display();
74                     break;
75             case 4:exit(0);
76         }
77     }
78 }
```

mulpri.c

mulpri.c > pqdelete()

47 }

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

1: Code

1:PQinsert

2:PQdelete

3:PQdisplay

4:Exit

enter the choice

1

enter the priority number

1

enter the item

10

1:PQinsert

2:PQdelete

3:PQdisplay

4:Exit

enter the choice

1

enter the priority number

1

enter the item

20

1:PQinsert

2:PQdelete

3:PQdisplay

mulpri.c

C

mulpri.c > pqdelete()

47

}

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

1: PQinsert
2: PQdelete
3: PQdisplay
4: Exit
enter the choice
1
enter the priority number
2
enter the item
30
1: PQinsert
2: PQdelete
3: PQdisplay
4: Exit
enter the choice
1
enter the priority number
3
enter the item
50
1: PQinsert
2: PQdelete
3: PQdisplay

mulpri.c

×

mulpri.c > pqdelete()

47 | }

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

1: PQinsert
2: PQdelete
3: PQdisplay
4: Exit

enter the choice
3

QUEUE 1: 10 20
QUEUE 2: 30
QUEUE 3: 50
1: PQinsert
2: PQdelete
3: PQdisplay
4: Exit

enter the choice
2
deleted item is 10 of queue 1
deleted item is 30 of queue 2
deleted item is 50 of queue 3
1: PQinsert
2: PQdelete
3: PQdisplay
4: Exit

enter the choice
3
QUEUE 1: 10

```
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47 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

1: Code

```
1:PQinsert
2:PQdelete
3:PQdisplay
4:Exit

enter the choice
2
deleted item is 10 of queue 1
deleted item is 30 of queue 2
deleted item is 50 of queue 3
```

```
1:PQinsert
2:PQdelete
3:PQdisplay
4:Exit

enter the choice
3

QUEUE 1:20
queue 2 is empty

queue 3 is empty
```

```
1:PQinsert
2:PQdelete
3:PQdisplay
4:Exit

enter the choice
```