Input restrict

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

```
Output res
1.insert_rear
2.insert_front
4.delete_front
5.display
6.exit
enter choice
 enter the item
10
 10
1.insert_rear
2.insert_front
4.delete_front
5.display
6.exit
enter choice
enter the item
20
insertion not possible
1.insert_rear
2.insert_front
4.delete_front
5.display
6.exit
enter choice
 enter the item
enter the Item
20
1.insert_rear
2.insert_front
4.delete_front
5.display
6.exit
enter choice
  enter the item
  39
1.insert_rear
2.insert_front
4.delete_front
5.display
6.exit
  10
 1.insert_rear
2.insert_front
4.delete_front
5.display
 6.exit
enter choice
```

item deleted is 10

1.insert_rear 2.insert_front 4.delete_front 5.display 6.exit enter choice 20 39 1.insert_rear 2.insert_front 4.delete_front 5.display 6.exit enter choice

```
I multiple monty que
 # include < stolo- h>
 # melude - como tro
 * include < endlib. 4>
 # define N3
  int queue [3][N];
  int front (3) = {0,0,0})
  me rear [3]= 2-1,-1,-1?;
 void prinsert (intpr) &
         if ( rear Epr) == N=1)
         proht (" in quene overflow");
         else & prints (" now enter tru itm: \n");
         scanf ("1.d", & itum);
          queue [pr] (rear [pr])= i +m;
vord pardelete () {
    for (1=0; ik3; i++) {
         (1=0) [ == front [1]-1){

(1 ear []== front [1]-1){

(1) (rear []== front [1]-1)}

(1) (rear []== front [1]-1){

(1) (rear []== front [1]-1)}
```

erre E prints ("deleted item "I.d of que Id ") queue ci Iffron ci)], (+1); fort (i) Ht; display () printf ("que empty id n", i+1); else for (j = front ci], jx = rear ci]; j+) printf("".d (t", queus (i) [i]))

int man () { int chi; 1 m/ while (1) E +1); pont ("1: Pa insert in") point [" in 2: Radelete (n"); mut (" in 3° Padisplay in"); But (., INH: Exitin); ponty (" Enter one choice in"); S count ("1. 2" 18 ch); emitch (ch) { case 1: printf ("In enter me probab) seamf ("1.d", & pr); il (pr >0 8 & pr 24) pgiment (pr-1), mult ("only & promity enishin"); j+1) meak care 2: padeleti(1); mak; car3: display (1), meat; core 4: excit (0); geteh(1) }

```
PRIORITY QUEUE
       1:PQinsert
       2:PQdelete
       3:PQdisplay
       4:Exit
enter the choice
enter the priority number
enter the item
45
PRIORITY QUEUE
       1:PQinsert
       2:PQdelete
       3:PQdisplay
       4:Exit
enter the choice
enter the priority number
enter the item
67
PRIORITY QUEUE
       1:PQinsert
       2:PQdelete
       3:PQdisplay
       4:Exit
enter the choice
enter the priority number
enter the item
```

```
PRIORITY QUEUE
       1:PQinsert
       2:PQdelete
       3:PQdisplay
       4:Exit
enter the choice
enter the priority number
enter the item
67
PRIORITY QUEUE
       1:PQinsert
      2:PQdelete
       3:PQdisplay
       4:Exit
enter the choice
enter the priority number
enter the item
78
PRIORITY QUEUE
       1:PQinsert
       2:PQdelete
       3:PQdisplay
       4:Exit
enter the choice
enter the priority number
enter the item
```

```
PRIORITY QUEUE
       1:PQinsert
        2:PQdelete
        3:PQdisplay
       4:Exit
enter the choice
QUEUE 1:45
                       78
QUEUE 2:67
QUEUE 3:78
               PRIORITY QUEUE
       1:PQinsert
       2:PQdelete
       3:PQdisplay
        4:Exit
enter the choice
deleted item is 45 of queue 1
PRIORITY QUEUE
       1:PQinsert
       2:PQdelete
        3:PQdisplay
        4:Exit
enter the choice
deleted item is 67 of queue 1
PRIORITY QUEUE
       1:PQinsert
        2:PQdelete
        3:PQdisplay
        4:Exit
enter the choice
QUEUE 1:78
QUEUE 2:67 4
QUEUE 3:78 PRIORITY QUEUE
```

```
1/ Osc & Desc Prioring Que
  # include cyrolio. h>
  # include coning. W
  # Wellede < ardhib. h>
  & define MAX 3
   Int count -0; // add int d=0 for descen
  int pac MAX);
   void input (int data) {
        if ( cont = = MAX) &
      nt i=0',
         print (" anen ormfron("))
          13 ( wnt = 20) {
            Pg(count++ 7= data;
           Mse E
            3(--1;0=0;1--)8
            if (deta > pacis) &
                pacitil: pacil;
              } pa (i+1)=data)
```

remove Data () { return Pat - - cont 7') // Patd++3) roid diplay() { i} (cont = =0) { point f (" green is outly ("") descen print 1 ("1. 1", paci)); nain U's main l'item; mint f I"in 2: west 2: delete endlot 3. diplay himith"), print (" suter me curici."?
scont (" i.d", & chorie);

Switch Cetroice) E care 1: prints ("Enter the itm to be world"); Scary ("1. d", & itum); insut (itum); meak; can 2: ism = remove Data(); if (itum==-1) prohit ("Quee is empty in"); printf ("item deleted = 7.dw", item) boreak; cares: display(1) brigk; défaut enit (0);

AScending

```
1:insert 2:delete_smallest 3:display 4:exit
Enter the choice :1
Enter the item to be inserted :10
1:insert 2:delete_smallest 3:display 4:exit
Enter the choice :1
Enter the item to be inserted :20
1:insert 2:delete_smallest 3:display 4:exit
Enter the choice :1
Enter the item to be inserted :30
1:insert 2:delete_smallest 3:display 4:exit
Enter the choice :3
Contents of queue: 10 20 30
1:insert 2:delete_smallest 3:display 4:exit
Enter the choice :2
item deleted=10
1:insert 2:delete_smallest 3:display 4:exit
Enter the choice :3
Contents of queue: 20 30
1:insert 2:delete smallest 3:display 4:exit
Enter the choice :
```

Descending

```
1:insert 2:delete_largest 3:display 4:exit
Enter the choice :1
Enter the item to be inserted :10
1:insert 2:delete_largest 3:display 4:exit
Enter the choice :1
Enter the item to be inserted :20
1:insert 2:delete_largest 3:display 4:exit
Enter the choice :1
Enter the item to be inserted :30
1:insert 2:delete_largest 3:display 4:exit
Enter the choice :3
Contents of queue: 30 20 10
1:insert 2:delete_largest 3:display 4:exit
Enter the choice :2
item deleted=30
1:insert 2:delete_largest 3:display 4:exit
Enter the choice :2
item deleted=20
1:insert 2:delete largest 3:display 4:exit
Enter the choice :3
Contents of queue: 10
1:insert 2:delete largest 3:display 4:exit
Enter the choice :
```