```
Multiple presently queue program
    # andwde < stalls. hy
    # and < Stdlo. hy
    # defene N3
   Int queue [3] [M];
   Ort front [3] = $0,0,03;
   Out rear [3] = \( \int_{-1}, -1, -23; \)
    haid powersest (Ort pr);
    mord padelete();
    murd podisplay ();
     But Etem , pr;
      naid Etem, pr;
      wild main ()
      Out ch;
      while (1)
      pronty Lu PRIORITY QUEUE (mm);
      party (" = x x x x 1 n n);
      painty ("Intel. Poponseutin");
      paort ("InIta. Padelete In");
       pasité ("n\t3. Podesplay In");
       pastf (" n) ty. Exetin");
       pronty (" In onter the charce In");
      scarf (".1.d 7,5ch);
      Switch (ch)
       case 1: point ("Inenter the providy number (na);
```

```
Scanf (u.j.dn, fpr);
    y (pr>088 pr ₹4)
     passet (pr-1);
      else
     pronty [unonly 3 parantly ex Ests I 23 | nm);
     beean;
cuse 2: pqclelete();
     break;
 case 3: display();
        break;
  case 4: exet(0);
wald pageneent (ont pr)
 2
  $ (sear[pr] = = N-1)
  pasité (" In que auxflow In");
  else
  £
   pranty (" In Enter the Etern In");
   Scanf [".1.d", & Hem);
    real [pr]++;
    queue [pr] [rear][pr]= îtem;
   y
   return;
   y
   nord pg deletel)
```

```
Out i;
  for ( [20; [23; 8++)
    & ( seas (P) = = front [t] -1)
    pronty (" In enqueue empty 12");
    else
   pront (" deleted them is I.d of queue I.d Im", queue (E) front [E]], E+1);
  front [E]++;
   retur;
nord deplay ()
for ( [20; & 3; &++)
  l (rear [2] = front [2] -1)
  pront ("Inqueue empty "din", 2+1);
  else
 prenty (" in queue./d:", 2+1);
  for ( ) = front [ () ; g = 2 rear ( ); j++)
   pronf (4.1.d It", que (1) [j]);
```

```
Ascending program?
Horlvde <stationy
# Onclude < Strong. ht
# andwar < stalls. my
  # define MAX 3
  Out pg [MAX]
  Ont warmt = 0;
  ont d=0;
  noted Essert ( Ont data) &
   Ont : 20;
    of (count = = MAX)
    prontf (" Queue Querfor In");
    return;
   Ef (caunt == 0) {
    Pq Count +1) = data;
    I else &
     for (&z count -1; i>0=0; 9--) }
    & Cdata = pq [8)) {
     P9 [[+2]=p9 [E);
      break;
    Z
   y
```

8)

```
pg [8+1] = data;
 count ++;
ort remove Data C) &
 Return pg [d++];
  word duplay ()
 L'ant i;
 & (went = = 0)
   poortf (" queue & empty 1 n ");
    Letuen;
 pearty (" contents of queue: ");
 for (Ezd; ¿ Lount; ++)
   post (4./d4, pg[]);
  perty (4 m4);
  Out mass () [
   Out diaic, Etem,
    for (;;)
    P
     peart ("In1: Orsert 2: delete-Smallest 3: desplay 4: exet In");
      pronty ("anter the choice: ");
      Scanf ("1.d", Schota);
      Surtin (chate)
```

```
Case 1: prontf Lu Enter the Etem to be orsexted: ")-
Scanf (" .1.d", & Ferm);
 ansert (Aem);
  break;
 Case D: Demz remove Data ();
  Ef (arem = = -1)
  pearly (4 guere & empty In ");
   else
  party ("tem deleted = 1/d /n", item);
   break;
   case 3: display();
    break;
   default: exit(0);
```

```
Descending Order program t
  # andwede < Stello 1 hy
  # Browde < Stalib. hy
  # define q sore 5
  Out r=-1, f=0, ctom, went =0;
  ort 9 (107, ch;
   used Asort-rear () {
     q (r==q-62e-1) {
        pearté (" queue auestion (n");
        Return;
    r= ++1;
   q [r] = Etem;
   Count ++;
 hard Disertion_ port () {
  ort o, g, key;
  for ( = 1; Eccount; (++)
      Rey = q [E];
    Ĵ= ĭ-1;
    white (370$8q[g] > pey) {
         9 (g+2] 29[i];
            j = g-1;
         q []+2] = key;
```

```
y
mated delete_ rear () {
      ef (frr) {
           ð 2-1;
           pront [" Queue às empty (nn);
           Return;
        prenty Lu Etem deleted = /d Inh, q. (r-- J);
      z
      used duplay () &
          量(なかん
            peantf (" Queue is empty In");
            Return;
          J
       peantif cu contents of thequeue are: Inn);
        for lout dz f; (2=r; 0++)
           pronty Cu.1.dinn, q[E]);
     Out moun () ?
       for (;;)
          puontf 14 n1: Orscet rear Ind: delete-fuont
                     In3: display ) n n);
```

```
pront luenter the divia: \n");
  Scarf (" 1.d " , fd);
  Switch (ch) E
   case 1: prof (" Enter the Etern: In");
    Scary (41.d4, fitem);
    Orsert-rear ();
    Ensert - Sort ();
    breat;
case a: delete-rear c);
    break;
 case 3: desplay ();
       break;
    default : exit(0);
Setuen 0;
```