# Include < stdlo. h> while (sum. Inch >= 2.0){ # define MAXOD som. Inch -= 12.0; idely : smoh ent q [MAX], forent =-1, sees =-1; som. tet++; PESI : LIZU word Prosent (word); ght delete-element(); pt a Rect Sun + 1. at Ench se concor Som. Such y: : WI vold desplay (); void main Of The one of book you can get : 2 pount ( TiEnsett (no. Edite (n 3. Display "); "point + (" Entor the chose"); scant (" : 60", & option); switch caption) { weeks - to the box box test of some? case 1: Insert(); linear queue using bount; Implement case 2: delete-element (); \* pseudo cade ef (val != 4) pointf (" in the delected number is: 1.2", vol); Bot n (slee) of ( geon == "\$ pze-1)} fount == -1; beceale; scare == -1; pl ( stock & case 3: display (1) sustum (-1); enqueue (x); torcals; of (Pofull ()) Default: pointf(" Ento valid input"); pt ("queue is full"); else of Cforont + ever + o seum ]; A THEOR ] = X dequeue O 510.0. of (isempty()) + C. queue is comp

void Shient() of (faint > great) grean =-1; pfc" in Enter the no. to be Suserted"); foont = t; scanf (" 1.d" gram); gictum val; of ( SCOOT == MAX-1); pte "overflow"); else of (forent == -1 of prean == -1) void display () fount co; E got?; suer =0; pt ("10"); of (fount == - 1 1 fount > secon) pt (10 queue 85 empty"); else seeants; else s gEscony = num; brond = fount; (z=91007; 94+) pf (+ 1.1.4", 9[3]); But deleter elements 2) Pseudo code sht val; else enqueue (2) § front = (front +1) .1.N; of (forent == - 1 | forent > even) 34 (15 fall) de it (19 empty 0) {
foront & scent 60 istale () } of (succon + )+N = - fount) pt (" (o underflow); Setwm-1; neturn 1) else sear e(occors) ), N. geture 0; A Collar J-x 5 val =9 (front); dequeur Of of (is comptett)

of (igueur is empty);

else of (fromt = 2 econ); Ascont ++; front - 1; sean = -1;

```
2) Implement Concular queue
                                                              ent dequeue ()
                                                              of sot values
# Include (stdfo.h)
                                                                of (Esempty ()) &
# Include < stdlib. h)
                                                                   pt C in queue for empty! );
# Jeffre SIZE 5
  But stems (SIXE) , secon =-1, fount =-1;
                                                                        gestugm 1;
 Int isfull ()
                                                                    else
   { of (1 forent = 9000 41) | (fount = 20 6) secon
                                                                      value = Hems [Hount];
                                                                        of (fount == 90001)
    section of
                                                                       & fount =+;
                                                                       Suar =-1;
    & compty ()
  et (fount = = -1)
                                                                       else
                                                                         Sunt = (faint+1) + SIZE;
       geturn -1;
 geturn 0;
                                                                        suturn (value);
 world enqueue ( Port element)
 E of Cistaller)
                                                             () peoples bion
         paint ("10 queue is fall"),
                                                                80+ 8.
                                                                of (Isempty()).
     Pelse s
                                                                      pt (" 10 queene is compty")
          it (forent == 1)
                                                                else s
                                                                     of(" in fount position = 1/d in", fount );
          I fount =0;
         see = (ccon+1) % 5728;
                                                                          C: 2 fount; ? 1=90007; ?= (i+1) 1. STER)
         Hemy (secar) = element;
                                                                    pt (" It. Hens (9) 1);
          Pt ("18 % Prosented", element);
                                                                     pt(" 1d It", "fems (i));
```

world mash () Sat choice, element; whole (1) pt(" In 1. ment It 2. Delete It 3. Desplay); pt(" in Both choice"); of ( 12, bulle; switch (challe) case 1: ptt in enter the doment"); s4 ("1/d", & element ); erquee (dement); bourns; case 2: element = dequeur (1); et (clement 15-1) pt 0.1d clement 85 deleted; clement) bouck; case 3: desplay (1) detault ipt(10 smalled separt);

enqueue (10);
enqueue (20)
enqueue (30)
desplay ()
dequeue ()

10 % Insented
20 % Insented
30 % Rosented.

10
20
30
The deleted element is so.

Saloila4