Circular Queue 12 holdsip prox #include < stdio.h> 17.1 Ami # define 9-size 5 int it em, Pront =0, rear =1 19[9-size], count = 0; voio inser-rancomo a suppi à torra (if (count = = q - size)printf ( 'Quiue Overflow in ") intant 1 refurn; (++1(100) / <= (0=1) 1++) rear = from +17.9-size; 9 [rear] = item; () discorbiot . count ++ ; refurni intehorce; int delete tront () if (wount= = 0) ( : s a/ forest ) I toma elses "(" or such so wice ) Thing item = 9 [ toon ti ( soion to ) in famile front=(front +1) 7.9-size; (souds) dilive count = count -1; neturn item i

Gradier Sucite void display () Pinclude < stations int 1, f; télenc quize s. if (counter==0) nor a c= fair mo i ta print l'auacis empty in ") return; (osis- p== - ma) )); f=front; print l'contents of Que Que il ma); ima for (1=0;12=count;1++) printh ("1.d m", g Cf]); void main () intchoice; for (;;) printf (1: Insert In 2: DELETE In 3: DI prints ( 'enter the choice my); sconf ("1.d", behoice); Vioris) Switch (choice) prie !! it Town - Tipos

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case 1 : printf ("Enter an element to be Inserted in");
scanf (" /. d", & chance);
         inser-read ();
          break;
(ase 2: item=deleted-front. ();
         if (item = = -1)
           print f ("que es empty \n");
print f ("item deleted is 1.d \n"; item);
         breaks
· (us c 3 : displaye);
          breat;
 de fault : onit 100;
```

Linear Queue # include (stdio. h) this toumily ) Itaking that define MAX[.5.000] wind 11++non-+1007 int quuc\_MAX? int hat = -1, from t = -1; void inserte) Eint add-item; if ( rear = = MAX -1 id www ") printl "Quiue Overflow in ). else { :t (front ===-i-) tout = i) rot (rior) Pront === 0; (1) + 1111 print[ la enter the dement jobeinserted: 1); scant ("/d" ladd-ifem); rear = rear + 1 que [ rear ] = add\_item; roid deletec) while [L if Cfront == -1 ! Infront > rear) f print l'à Queue under tow (n");

Linear Jueus. else print f. (" Flement deleted from qui a e 15 1/h") front = fron + 1; [xam ] some tri void display () (Marzai bion else (front == -1)

reprint ("quu is empty \n")

else fprintf ( "que is: \n"); from for (i= front; i = dear; i++) print f [" /din ] quu Lij ); print ("in ) if it Stan I word i findologi cialar [ vous ] = actol item. maines int choice s while (1) printf ('II TWSERT m"); print & [ MZ: DELETE In"); printf ("3: DISPLAY In"); Drintf (" 4: EXITY);

```
printf ("Enter your choice:");
 Scanfl'/d', kcholce j;
  swilch (coia).
   Case 1
    inserf();
   break;
  (ase 2;
  delcte ();
  hreat;
  lase 3:
  displayer;
   breat;
  (nff-(1);
  defauit :
printf ["whong choice in');
```

```
printf ("Enter your choice:");
scanfl'/d', kcholce j;
  switch (chia)
  inserf();
  break;
  case 2;
  delcte ();
  break
  case 3:
  displayer;
  break;
 101514:
  entt-(1);
  défauit :
printf ["whong choice (n');
```