```
Notes From 27-07-2024 To 30-07-2024
 PRIORITY QUEUE =>
> # define MAX 5
                       112 1 1 1 1 1
  Int q [man], front = -1, rear = -1;
                      the full of the commen
· Voil insortion ()
     ant element;
      If (sews = = man-1)
         fountly ("FULL")!
                                       A THE THE T
      elel
         want (" enter element");
                                      dion to the
         scant ("7.0", & element);
                                      1431 T ALKA
         ils ( front = = - 1)
           pront = trear = 0;
             q[rear] = element;
          else
            ent i, i
             for (i = front; oi = near; i++)
            { if (aci) > element)
                break;
```

```
yor (i = run; i>=i;i--)
                                   9 (3+17 = 9 (3);
                                               Q [i] = element;
                           Just ++ j. min Milant, " Unit
                                             "一个多数,这个是一个一个。"
                                                                                                we constituted
void deletion (1).
                                                                                                                                             ni Wa
           int k's the state of the state 
               1) ( fruit = = -1) ( - = = thurse) de
              thoundf ("Empty")
                          k = q[ front]
                          il ( front = = rear)
                                                                                                                                                      主人的工具
                               front = rear = -1'
                                                                                                                             or Rock Cons
                             else
                                                                                                                                                 to abten
                                 front ++;
                                  pountly (" deleted element is 1.d", w)
                                                                                                                     2" M (C) (1") U.
              Voil display ()
                                                                                                          · And · Calman
                          for li= front; i <= rear; i++)
                                (ci) v (" b) ") flavol
                                                                                                                                                         Par 1 1
```

```
main ()
                      Respiration of the
   int ch;
                         are the free of
     while (1)
       fruitly ("Enter , par insert in 2 por to delete in
               3 to display In 4 to enit");
        Scant ("70", & ch);
                                  4000 - 连接电路 NA
       Switch (ch)
         call 1: inscrition (); break;
         case 2: Deletion (); brank;
          cax 3: display (); break;
                                      Dallych
       2 con 4: enit (0);
                             Continue to
                             in a tribally but
> # define eize 5
                              raining digate
 int 1 Crize ], length = 0;
                                  110
  void insertion ()
                              HARLEY TOWN
    int index, element;
    frintly ("Enter indese");
    scanf ("10", sindex)
                                     intill the
    if (length = = size)
      point ("fall ");
     else if (index < 0 11 index > length)
     } brintf ("Insortion mot possible");
```

```
elel
I pointly ("Enter element");
  scanf (" 'Ld", & element);
   for (i = length - 1; i > = under; i - - )
      161+17=1617;
     I [ Index ] = element;
                                                      length
    length + +;
                                                      2 Unuits
                                                       546
 voil deletion ()
                         The state of the state of the
 int index;
                                 True ( Carlo
   pounts (" enter indea ") "
    Scant ("1. 8" & inclese);
    il ( length = = 0)
      foundly ("EMPTY");"
    else if (index < 0. 11 index > = length 5
    friendf (" NOT POSSIBLE ");
    else
        fountly (" Deleter element is 1.0", 1 ( index ));
         for (i= index; i < length - 1; i++)
           Leise Leitis;
```

```
length --;
                     1
                     (大) (1) (1) (1) (1) (1) (1)
Void display ()
                      医次元素 经产品
int is
   for (i=0; ic length; i++)
  fruit ("1.0", LCil)
                     the second like
main ()
   int ch;
 while (1)
     wint (" enter 1 to insert In 2 to delete In 3 to display
         in 4 to Enit ");
     is carny ("id", & ch);
                              and the first
      Switch (ch)
                               And A Liver Section
                                , 快速上走过去
       case 1; insertion (); break;
       care 2; deletion (); break;
                               of the think
      cases; display (); wrak;
        cose a! exit (0);
```

STACK USING LINKED LIST:-HEAD 1000 1000 2000 TEMP 500 2000 3000 NULL Park 200 PAR INFO NODE & INFO NODER Nobet PIR PIN INFO PER 1500 new in NODE + PLA = NODE POINTER LINKED LIST :-It is togical linear late stauture. It is also known as self referential structure. expectation of -> struct mode int info; itul * short hurte THAT I'VE INTERNITED THAT typedef etruct mode mode; mode * top = NULL, * temp, * new node; Voul fush () T. ALA M int element; found (" Enter element ") scant (" 1d", 4 element) new noile = (noll *) malloi (size of (nole)) newnode - info = element; nowmade > fits = top; CE CONTROL top = newnoile;

```
void pape ()
  int k;
   if (tap == NULL)
    foundf 1"EMPTY");
   else
   k = top -> info;
    top= top > Nor;
   foundf ("Deleted element is 1.0" ")
            (国外的一种社会)
void display ()
   temp = toh;
   while (time! = NULL)
     printy ("7.0", temp > info)
     temp = temp > pton;
main ()
 t int it;
  while (1)
     found (" enter itopus 4 m 2 to Pop in 3 to Dispuny
             1 m 4 to EXIT ")
       scanf ("7.0", 4 Ch);
        suitch (ch)
```

```
FIRM About he he
 : case 1: Just (1; bruch;
                            the first war for
   come 2; hop (); break;
   "care 3; display (); break;
   (ase 4: exit (0);
QUEUE USING LINKED LIST =>
                                  x - - - hart - h.
     FRONT
                          alternations for mark
    1000
                           2000 3000
            > 5 2000
                           8 3000 3 ×
    13000
                              the two is - x
     REAR
-> struct mode
                                  Very Let Let Co
     int into;
                                 Triby Tenty
     estruct made * No;
                             Paper ( Take the delivery
   typedef struct made made;
    mode = * front = * rear = NULL; * temp, * new node;
    Void insert ()
       int element;
        fruith ("Enter element: ");
         siant (" 7.d", kelement);
         neurnode = ( node +) malloi (size of ( node ));
        nounode > info = elément;
         newnode > ptr = Nui;
```

```
If (front = = NULL)
    front = near = new mode;
     sur = ruar = Mi= neurode;
                                        RUNE 5
Void delete ()
  int k;
                              the sent to see to see it a real
   k = front -> info;
   printf 1" Deleted element is 1.0", k);
   it ( front == troop) di
   front = Juan = NULL;
  else
   pront = front > htr;
  void display ()
  E temp = front;
                                tallish at a tarely
   While (damp ! = NULL)
     windf ("7.0", temp > singo );
  tamp = tamp -> ptor;
  voil main ()
  Funt ch;
                     Constructional Mill House
                     Stable of the But Green Proces
   white (1)
        frontf (" Enter 1 to INSERT IM 2 to De LETE IM
                 3 to DISPLAY IM 4 to EXIT ");
        5. scanf (" 1. 0 " & ch.);
```

```
switch (ch)
    case 1; insert (); break;
    case 2: delete (); break;
    cose 3; display (); break;
     (ase 4: exit (0);
                                    to make a place of me
Dougle Ended Queue:-
                                          C) Attent law
       0 1 2
                             4年12月天大田文八四十九千
                                  insuit ()
                         3
                            4
 > # include < stdio . h >
                                            INSERT FRONT
   int of [man], front = -1, rear = -1; Insert REAR
      int element;
       il ( front = = 0 & & rear = = man -1).
         wintf ("FULL");
                               DA DE SEAL OF
       else
          frintly ("Enter element");
          scanf ("17 0", & element)
           if (front = = -1).
             front = rour = 0;
           else if ( front > 0)
            front --
           else
```

```
for (i= run; i >= front; i --)
      9[i+1]; a[i])
    man ++
 Q [ front ] = element;
                                       TU-> REAR
() retresent bios
(0== man -1 dd front ==0)
  1 points ("FUCC");
  else, in interior
printly (" Enter element");
                                      Thurs,
    scanf ("1.0", & element);
                                       141. Working
     if ( front = = -1)-
      pront = rear = 0;
         q ( srear ) = element ;
     else if ( room < man -1)
                                  ed Land Dead
      man ++;
                                  FRANCE STANDS
       acrear ] = element;
        for (i= bront; ix= roon; i++)
         19[i-1]=qci];
           9 [rows) = element;
```

```
fer > FRONT
void delete f ()
                       If ( front = = -1)
                               friedf ("EMPTY");
                        else
                             f if (front == rear)
                                                           pointf ("Deleted element is 1. d", q (front);
                                                             front = rear = -1;
                                                               found (" Solution element is " of Grant)
                                                                                                                                           THE PARTY OF THE STATE OF THE S
                                                                                                                                                                                                  Commission of the Local
                                                      elal
                                                                         printf ("Deloted element is ".d", q [ front ]);"
                                                                           front = front + 1;
                                                                                                                                                                                                                                                                                      Thabata
                                                                                                                                                                                                              TE) > REAR
                        void deteter ()
                                                                                                                                                                                                               Att Company Company
                                                                                                                                                                                                           West to A way to the to
                                          If ( front = = -1)
                                              printf (" empty");
```

```
else
     if ( front == rear )
        prints ("Deleted element is "1.0" acrown );
         front = rear = -1;
     else if ( year = = 0)
        printle ( " Deleted element is 1.0", q' c rear );
           steam = mare - 1;
      else aft so
      printly ("Deleted element is 1.d", 4 ( rear ));
         , 1007 = rear -1;
void display ()
                            t Advantagery that
  int i;
   for (i= front; i <= rear; i++) -
    pount (" 7.d", q(1));
void main ()
                            元·周元·李林林"叶子长亚
{ int ch'
                                    suitch (ch)
 while (1)
                                      case 1: inscrifes; break;
   wently ("Enter in 1 to
                                      case 2; mounts (); break;
 ine of trank towns
                                      case 3; Seletef ( ); break;
2 to insert from rear In
                                       cose 4: deleter (); break;
3 to delete from front in
                                       cases; display (); was;
4 to delite from row in
                                      coses; exit(0);
s to display in
6 to enit ");
scent ("7.0", & ch);
```