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3 •	13/10/25	Insert, delete, deplay		6/10/10

was to strimulate the working of gleve of integers using an array provide the following operations insert, delete, oxplay the program, the program should prient appropriate massages for queue, empty and queue overflow conditions.

Algorithm;

9)+6

I. Initialise front to -1, rear to -1 and

2. Offine away quine [N],

3. Insert

if rear == 110 -1

Print "fueue overflow",

Exit from function

if front = -1; Let front to 0.

Jet rear = rear + 1

for the form of the first fine the f

4. Odde

Print (" Queue is empty")

Exit from function

let or = queue (front)

for t = rear = -1;

else front the Doct Code 9 The fred man # Philude The for the same of the same o # includ Rea # define Porte quene (front) fre jux fe front = front 19 int q port s bion Oisplay: of for (iz front; (zerean ++; i++) & N Inht (grew [t]) on Inside Man finition, Repeat until user exits Part menu insert, delet, display. nun switch for all coops. and call the function.

The the soul of the

pritary mor like

Voi

```
Code ?
# include ( stdib . h)
# include ( Stellit . L7
 # define N 5
 int front = -1, rear = -1;
 not queue [N];
 wild enqueux (int 14)
           H (max = = N-V)
             Printy ("queue overflow \n");
            clse if ( front == -1 ) + rear == -1) {
                 front = rear =0)
                  queue [rear] = >1;
                 rear ++;
                 queue [rear] =x;
 void
         dequeux () {
            4 (front z=-1 f) rear = z-1) {
                   Printy ("queue is empty (n");
             ela il (front = = rear) {
                   front = rear = 1;
                  (ning ("deleted element = 1/2 h", queue [front]);
               } Mont tt;
```

in Uton.

```
Junear Doct
                 blor
                       display () {
                         it fi
                        for ( = front ) ? (= 8008 ) ?++> [
                            Print ( " Yalr" quale [1]);
     Cfec
                                                                                             076:
     Cfn
     Front
               for mach U {
define N
                     intch;
fut go
                     Printy ("1. Insert / n 2. Delek In 3. Obsplay In ". Gast In")
nt from
                     while (1) {
                         lot su
                          Printy l'Enter choice in ");
                          Jan ("/d", 4 ch);
                          Switch (U)
                           lase 1;
                               Printly ("Enter the number you want to Project?")
                               sont ("x.d" dry:
                                enquencisy;
                                break;
                          Case 2:
                             dequale ();
                              break ,
                          6013 1
                               dil play ();
                               break;
                          Case 4 ;
                                return 0;
                          default:
                                 hirty ("Involve choice.");
```

J

0/1:

1. Insect

2.0elde

3. O'splay

1. Git

Enter choice : 2

Overe stratements.

Enter choice & 1

Enter the number you want to Insert: 23

Gement Proextel.

Enter choice: 1

Enter the number you want to Invent so

Glement Invested

Enter Choîce: 1

Enter the number you want to Insert: 89

Element Processed

Eller cholie ? 1

Enter the number you want to Invest: Ty

Element Prosected

Goter Chalce: 1

Enter the number you want to Insert: 12.

Element inserted

Order charce: 1

Enter the number 2 58

Quine overflers.

The Chares 3

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")

Ineas 23 8 56 89 74 Chec 12 Enter chose: 2 Element deleter 1 23 Front Enter choice 13 3 56 69 74 12 Enter strice, y. Ct: 3 5 - ± ± Cr