22 /10/24 WEEK - 04 Cincular Quene # include ¿ sideo h> # defens SIZE 5 int f = -1, hear = -1; int 9 [ SIZE] ; enquare (int item ) at (f = = (or+1)), SIZE) queue is full else A = (9+1) / size, and in A's place gut the value and if f==-1 increment f= f+1; dequere () if f = = - 1 point queue is empty; else element deleted is 1. d, d[B]; if [f== 8] f= -1 and 8 = -1 else f = (f+1) / sizE display () if ( f == 1) queue is empty.

if (f ==-1) queue is empty.

perint (" condent of queue")

for (i=f; i!-8; i=(i+1)% size);

perint ("/.d", 9[1]);

perint ("/.d", 9[1]);

```
Code.
 #include cstdio.h >
# include < stallib. h>
# define size 5
 int f = -1;
 int h = -1;
int q [size];
void enqueue (int item)
  if ( 6 = = ( n+1) / size).
  point (" Quare is full");
  else {
      h= (h+1) / size;
      9[A] = item;
      if ( f==-1)
         b = b+1;
void diquere ()
  if (f = = -1)
  perint ("Queue is empty");
  else
    pounty ("In the deleted element is 1.d", 9(f]);
```

```
if (f== 9)
   f=-1;
   为=-1;
 else &
  f=(f+1) % size;
void display () {
int i;
は(1==-1);
 beauty ("Queue is empty");
 else {
   painty ("Content of queue");
     for ( i=f; i!= A, i=(i+1)/.size)}
     paintly ("Y.d", 9 [1]);
     peints ("1.d", 9 [2]);
int main ()
int ch, item;
for (;;)
```

```
beinth ("1. Insent");
  puntf ("2. Delete");
  puinty ("3. Diplay");
 party (" 4 Exit");
  peintly ("Read (hoice: ");
  Scanp (1.d", &ch);
Smith (ch)
 Case 1: pounts (" Element to be inserted: ");
          scanf ("/d", & item);
          Conquere (item);
          break;
  Case 2: dequare ();
           break;
   (ase 3: display ()
           break;
   default : exist (0);
            Volled Boy
setuen 0;
```

1. Insert

2. Pelete

3. Display

4 exit

Read choice: 1

element inserted: 10

read choice : 1

climent inserted: 20

read choice: 1

element ensexted: 30

head close 1

climent inserted: 40

read choice: 1

element inserted: 50

read choice: 1

element inscrted: 60

Queil is full.

head choice: 2

element deleted is: 10

head choice: 3

elements plusent: 20 30 40 50

read choice: 1

Clement inserted: 60

head choice: 3

dement peusent: 20 30 40 50 60

Jul 20/10/14

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Leet lode 2073
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20

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Mass solution &
 public :
    int time required to buy (vector (int) & licket, litt K);
      int (=0;
      while (true) {
           if (tickets [12] = = 0)
              break;
           for (int i = 0; i < tickets · sizy(); i++) {
               if (tickets [K] == 0)
                break;
              if (fukets [i] >0) {
                 tickets [i] -= 1;
     return C;
                    Owlfut:
```

3;

(ase 1: [2,3,2]K = 2

Output = 6

Expected = 6

(ose 2: [5,1,1,1]

K = 0

output = 8

Expected = 8

-22/10/14