\*

```
#includex stdio.n>
# include < stdlib. h>
It define MAX 3
int Front = - 1;
intrear = -1;
int queue[MAX];
void Enque (int);
 int Deque ();
 void display ();
 int main (int argc, chan **argv)
  intoption;
  int item;
  40 1
  Print ("circular quece (n");
  Print ("In 1. Inselt to quelle (Enquelle)");
  Print (" in 2. delete from queue (Dequeue)");
  Mintf ("In 3. Display the content ");
  Midf("In H. Exit In");
  PLINT (" ENTER The option: ");
  Scant (" ", d", & option );
  Switch (option)
```

```
cal
```

```
case 1: Printf ("Enter the element In");
        scant (" 1.d", sitem );
        Enque (item);
        break;
cases: item= Deque();
        if (item = -1)
         Print ("Queue is empty");
         else
         Printf ("Removed element from the queue .r.d", item);
         break;
(ase 3: display();
         break;
cosen: exitles;
  y while (option! = 4);
    returno:
 void Enque (int ele)
  1
   if (((Front = = 0 & seea = = MAX-1)) ((Front = rear +1))
     Print ("Queece is full In");
     retion;
     else
```

```
rear = (rear +1)./. MAX;
queue (near) = ele;
er (front == -1)
 flont = 0;
int Dequees
  int item;
  if ((front = =-1) >> (reon= =-1))
   1 netcorn(-1);
     y
else
    Hem= quelle (front);
     if (front:= was)
        (1-= Exore)
        1ece = -1 1
       z
       else
        (xAM-/(1+thos)) = that}
```

leteornitem; y y

```
4
```

```
void display ()

int i;

if (it front = =-1).s. (recor ==-1)) || (front==recor))

i

Printf ("Quull is empty (n"); reduct;

g

else

i

frintf ("In Quull contents: (n");

for (i= front; iz=recor; i++)

Printf ("In quull is empty);

j

y
```