```
CIRCULAR QUEUE
#incude <stdio.b>
# include < Stalib. h 7
# define MAX 3
int yout : - 1;
11- = rear = -1;
int queue [MAX];
void Eng (int);
 int Deq (),
 void aispray ();
 int main (int argc, char **argv)
     int option, item;
     while (option!=4)
          Niver ("In Enlir choice 1. Insert 2. Delete 3. Display 4. Exit");
          scant (". 1d, Lopzion);
          switch (option)
            case 1: prints ("Exlir the Element");
                    scanf (" ".d", witem);
                    Enq (item);
                    break;
             couse 2; item = Deq():
                     if ( item = = -999)
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print ; " Que ue is empty "Li
         else
            print; (" | Removed element from the quere: 1.0", item);
         break',
 case 3: display ();
          break;
 (a) e 4 : exit (0);
 defauer; exit (0);
  z
3 return 0;
void Englint Ble)
     if (((pront == 0 & & rear == MAX-1) 11 (front == reax +1))
 ર્
            print f (" Queue is full (");
      el se
          rear = (reax+1) 1. MAX;
      Ş
          epresse [ rear] = ese ;
           y ( tront = = -1)
              front = 0';
        Z
   z
 int Deg ()
     in ilam ;
     if (( pront = = -1) & & ( reax = = -1))
            return (-999);
      use
        ilim = queue [ print];
         if ( front = = rear)
         Ş
           front = -1;
            rear = -1;
         { pront = (pront + 1) 1. MAX;
         6126
         return itum;
```

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void display 1)
   int i;
    if ((reax = = -1) 22 (reax = = -1))
              print (" greve is Empty");
     esse
        print f ("inqueue worents:");
        for ( i = front ; i < = rear ; i+ +)
            print & (" 1.0 1t", que ue [ ] ;
        print; ("(n");
```