```
DAYANAND
#include astdio.n7
                                             IBM19CS043
#include Lstdlib.h7
                                             6-11-2020
# define MAX 3
       front = -1
    int
    int 8000 =-1
     int quiue [MAX];
      void Enqueux (int);
       int Deque ();
        void display ();
        int main (int arg (, char **arg v)
         int option;
          int item;
         do & Herolas queue mi),
         Printf (" circular qualn");
          Printf ("InI. Invert the queue (Enqueue)").
          Print + ("In 2- delete trom the queue (Dequeue)");
          Printf ("\n3. Display the content");
           printf (" m 4. Exit \n");
           Scanf (" 1'd", Doption);
             Switch (option)
            (as( 1 = point + 1" Entro the element \n");
Scan + 1" -1-d", 4 item)
                        Enqui (itim)
```

```
(ase 2; item = Deque ();
         if (item = = = 999)
           Printf (" Queucis empty");
   elsc
    Printf ("Removed element from the queue 1d", item);
           break;
    (ale 3; display (),
              break;
     (ax 4: exit (0);
   9 while (option !- 4);
         seturn 0;
    void enque (int ele)
     if (1f80nt==0 & 4800x == MAX-1) 11 (f80nt==8108+1)
   point ("queue is full \n"); return;
     94
      else
     & seas= (seas+1).1. MAX;
       quiue [seas]= eli;
      if (front ==-1)
```

```
int Deque ()
int item ();
    it((f-sont == -1) 44 (o(a) = = -1))
    seturn (-999);
     euse
    ? item = queue [front];
      if (+80nt== seas)
      { + sont = -1;
         Dia8 = -1;
      else
       4-sont=(t-sont+1).1.MAX;

geturn item;
      void dispigy ()
    int. i;
        if ((+sont==-1) & & (xax==-1) 11 (fsont==xeax))
        ? Pointf [" quice is empty \n"); veturn;
           else
```