	#include <stalio.h></stalio.h>
	#include < stdlib.h>
	#define SIIE 3
	int front = -1;
	ent rear =-1;
	int queue[SIZE];
	invid Enque (int x)?
	if ((front == 0 ff rear == SIJE=1)
	(priont == rear +1)) {
	printf ("The queue is full. \n");
	return;
	}
	else f
	near = (near + 1) % SIZE;
	queue [near] = x;
,	if (front ==-1) 1
	front = 0;
	<i>3</i>
-	$\frac{1}{2}$
	<u></u> <u>9</u>
	void Deque()?
	if (front 1) If rear ==-1) ?
	printf ("The queue is empty!\n');
	return;
+	
	else E
*	if (front = rear) ?
	front =-1;
	rear = -1;

```
front = (front + 1) / SIZE:
word display () {
   if ((front ==-1) &$ (near ==-1)) {
        printf ("The queue is empty |n");
   if (front > rear)
      for (int i= front; i< SIZE ; i+t)
        paints ("\t/.d", queue[i]);
      for (int j=0; j <= rear; j+t)
        print ("It/d", queue [j]);
     prints ("Contents of circular queue
      for (int i= front; i<= rear; i++)
       prints ("\t/d" queue[i]);
int main() {
   int option, num:
```

print("\n CIRCULAR QUEUE \n');
printf ("Enter your choice \n');
printf("1. To add an element to the
queue (Enqueue). \n");
print ("2. To remove an element from
the queue (Dequeue). (n");
print ("3. To display elements of the
 queue-(n'):
 printh ("4. To exit. In");
 scant ("./.d", & option);
 scanti / a , y opius.
 switch (soption)? case 1: printf ("Enter the element n");
 sale I printly (this in);
 scanf ("/-d", friem);
 Enque (num);
break;
 cose 2: Deque();
break;
cose 3: display();
break;
case 4: exit (0):
 3 mhile (19stien! = 4);
return 0;
 3
II