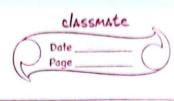


2.	Write a program to simulate the working
	of a circular queve using an array.
100	Provide the following operations: insert,
	delete, display. The program should print
	appropriate message for queue empty
	and queue overflow conditions.
	+2000/C+ x 100/ 2005
2)	14. · · · · · · · · · · · · · · · · · · ·
6.03,	# include <stdio.k></stdio.k>
	# define SIZE 5
	int item[SIZE];
	int front = -1, rear = -1;
	if Costanted ti
1 Ha	int isfull() {
	if ((foint == rear +1) (front == 0 ff
	$\sigma e \alpha \sigma = -SIZE -1)$
	vetuor1;
	return 0;
	3
	int is Empty () {
	int is Empty () { if (foont == -1)
	vetur 1;
S. Va	veturno;
	3 () () () ()

Classmate void engueue (int element) { if (isfull ()) printf ("In Queve is full! (n"); else { if (front == -1) front=0; rear = (rear +1) % eSIZE; item [rear] = element; printf("\n Inserted %d", elemon) void dequeve (){ int element if (is Empty W) of points ("In greve is empty \n") return (-1); 3 else f element = item [foont]; if (foont == rear)2 front = -1;σea > -1; else front = (front +1) % SIZE; pointf (in Deleted element 1/1) element); 3 3



Page
void display () {
int i ; he transfer
if (is Empty())
printf (" (n Empty queve");
else {
printf ("In front position = "/d n"
front);
 for (i= front; i! = rear; i= (i1))
 Size)
 printf (" ",d In", item si.];
 : naints (661 1') :1 - r.71
paints ("/,d", item [i];
2
roid main () {
int choice, element;
while (1).
4
paints ("1. Enqueue In 2. Dequeueln
3. Display \n 4. Exit ");
points ("Enter a choice for wes)
Scanf ("% d", f choice);
switch (choice)
5
Case 1:
·prints ("Enter element")
 scarf ("1/d" + element);
enqueve (element)

	classmate Date
	Page
	cose 2:
	element = dequevel)
("	break;
ally o	cose 3:
My "	display () bocall;
13/16	bocall;
()/,	
en sila	case 4:
	exit (0);
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da	
,	30000000
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