		770
•1	WEEK 3	
1.	Queue Implementation	
	guar	-
	#include <stdip.h></stdip.h>	-
	int q(50), sear=-1, front=-1, size;	
	void enquere();	
	void dequenc ();	1
	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1
	void display ();	A.
	(Man L)	1
		10
	int ch;	120
-	printf ("Enter the size of queue: ");	<u></u>
	scant ("o'(ad", & size);	18
	printf ("Enter choice:");	Un
<u></u>	printf ("Poers 1. insert, 2. Nelete, 3. Display	(3)
	and 4. Exit \n");	
	while (ch != 4)	100
-		變
	printf ("Exter choice:");	- 10
J	scanf(" " (d", fch);	
بغ	Switch (ch)	- 572
		_ <u></u>
-	case 1:	
-	enqueue ();	-121
	breaki	_
	case 2:	-
	dequeue ();	
	break;	
-	case 3:	li di
-	display():	Tel I
	display():	1
	The same	

```
printf ("Exited");
void enqueue ()
    if ( vear == size - 1)
      print (" Queue is full |n'):
      if (front == -1)
        printf(" Insent an element: ");
         scanf(" o/o d", of item);
         g[rear] = item;
void dequeue ()
     if (front = = -1 | front > rear)
       printf (" Queue is empty \n");
          print f (" Deleted element is: "/od/n", q[front]);
         front += 1;
  void display ()
```

1	if (front = = -1)
	printf(" Queue is empty");
	else
	printf (" Queue is: \n");
	for (int is front) i < = read ; i++)
	print f (" o/od (t", q[i]);
	print + ("\n");
	2
	4
	OUTOUT
	OUTPUT -
	Pour
	Press - 1. Insert, 2. delete, 3. Display and 4. Exit
	those d
	June is compty
	Enter Chaire: 1
_	Insert an element: 6
_	Enter choice: 1
1	Insert an dement: 8
-	Exten choice: 1
-	Insert' an element: 5
~	then choice: 2
4	Deleted element is: 6
	Enter choice: 3
	Queue is:
	8 5
	Enter choice: 4
	Exited
-	

```
void enqueuel)
    if ((front = = read +1) | (front == p & frear=2
        printf ("Queue is full");
    else
       if (trent = = -1)
        front = 0:
       print ("Enter the element:");
       scant ("% d", fitem);
        Kear = (rear +1) % size);
       g[rear] = item;
void dequence ()
   if (front == -1)
     print+ ("Queue is empty \n");
       if ( Front == read)
         front = -1;
          8 ear = -1:
      { Front = (front +1) % size;
     point f ("Deleted element = "/d \n", ele);
```

. 9	
	void display ()
	{
	int ij
	if (front = = -1)
	print+ (" Queue is empty");
	else
	{ printf(" Front = %d t", front);
	printf ("Rear = "/d t", rear);
	print + ("Queue is:")
1	for (int i = trent ; i = rear; i = (i+1) % size)
Ĭ,	print f (" "/ d", q (i));
j,	print f (" % d \n", q [i]);
	3
	3
N	Ουτρυτ:
. V	
1 6	Enter no. of elements: 5
	1. Insert 2. Delete 3. Display 4. Exit
1	Enter your choice: 1
	Enter element: 4
	Enter your choice: 1
	Enter element: 2
	Enter your choice: I
	Enter element: 3
	Enter your choice: I
	Exter element: 5
	Enter your choice: 1
	Enter element: 6
	Enter your choice:
	Queue is tull
	Enter your choice: 2

	Deleted element = 4
	Enter your choice: 2
	Deleted element = 2
1	Enter your choice: 1
	Enter element = 8
	Enter your choice: 3
	Enter your choice: 3 Front = 2 Reari-0
	Queue: 3568
-	Enter your Choice: 4
1 33 - 63	Exited
-	toldie with although a comme
	11 5 3, 3, 11 1 2 15
1	
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1	1.376
	2 10:24 10:2