Queue - using Array

```
#include <stdio.h>
#define MAX 5

void    display ();
void    enqueue (int x);
void    dequeue ();

int queue [MAX];
int rear = -1;
int front = -1;

void enqueue (int x)
{
    if (rear == MAX-1)
        Print ("Queue is Full")
    else
    {
        if (front == -1)
            front = 0
        rear = rear+1
        queue [rear] = x
        print (rear, " is put in queue")
    }
}
```

```c
Void dequeue()
{
    int x;
    if(rear == -1)
        print("Queue is empty");
    else
    {
        x = queue[front]; x = queue[rear];
        rear = rear -1;
        print (X," was removed from queue");
    }
}

void display()
{
    int i = 0;
    print (" Queue contains
    if( rear == -1)
        printf("Queue is empty");
    else
    {
        print("Queue contains : ");
        for (i = front; i <= rear; i++)
            printf ( queue[i]);
    }
}
```

```c
int main()
{
    int ele, ch=0;
    while (1)
    {
        printf(" Enter 1 to enque \n");
        print (" Enter 2 to dequeue \n");
        print (" Enter 3 to display \n");
        print (" Enter 4 to exit ");
        print (" Enter your choice? ")
        scanf ("%d", &ch);
        if (ch==-1) break;
        switch (ch)
        {
            case 1:
                scanf (" %d
                printf (" Enter element : ");
                scanf ("%d", &ele)
                enqueue (ele);
                break;
            case 2:
                dequeue (); break;
            case 3:
                display (); break;
            default:
                print ("Invalid Input");
                break;
        }
    }
    return 0;
}
```