

```

#include <stdio.h>
#define N 5

int a[N],r=-1;

//Here the assumption is that always f = 0

void enqueue(int e)
{
    if(r + 1 == N)
    {
        printf("\nQueue : Full");
    }
    else
    {
        r = r + 1;
        a[r] = e;
    }
}

void dequeue()
{
    if(r == -1)
    {
        printf("\nQueue : Empty");
    }
    else
    {
        printf("%d\n",a[0]);
        for(int i=0;i<=r-1;i++)
        {
            a[i] = a[i+1];
        }
        r = r - 1;
    }
}

int main()
{
    enqueue(10);
    enqueue(20);
    dequeue();
    dequeue();
    dequeue();
    return 0;
}

```