```c
#include <stdio.h>

int f=-1,r = -1;
int q[5];

void enqueue(int e) //inserting an element on to the queue
{
    if(((r + 1) % 5) == f) //% reminder of the integer divison
    {
        printf("\nQueue is full");
    }
    else
    {
        if(f == -1)
        {
            f = 0;
        }
        r = ((r + 1) % 5);
        q[r] = e;
    }
}

void dequeue()
{
    if(f == -1)
    {
        printf("\nQueue Empty");
    }
    else
    {
        printf("\nItem : %d",q[f]);
```

```c
        if(f == r)
        {
            f = r =  -1;
        }
        else
        {
            f = ((f + 1) % 5);
        }
    }
}


int main()
{
    enqueue(10);
    enqueue(20);
    enqueue(30);
    dequeue();
    enqueue(40);
    enqueue(50);
    enqueue(60);
    enqueue(70);
    dequeue();
    dequeue();
    dequeue();
    dequeue();
    dequeue();
    dequeue();
    return 0;
}
```