In-Class Exercise

Assume a printer that process requests every 3000 milliseconds. Write a class `RequestProcessor` has only one method: `processRequests(Queue<Integer> q_t)`, where `q_t` represents a queue of times in millisecond. Assume that it is guaranteed that every call to `ping` uses a strictly larger value of `t` than before.

**Example 1:**

**Input:** `requests = {"PrintJob1","ping"," PrintJob2","ping","ping","PrintJob3"}`  
`requests_time = {0,1,100,3001,3002,3010};`

**Output:** 3

```java
import java.util.LinkedList;
import java.util.Queue;
public class RequestProcessor {
    public static int processRequests(Queue<Integer> q_t){
        int count =0;
        while (q_t.peek() < 3000){
            System.out.println("PROCESSING Request at time....");
            System.out.println(q_t.peek());
            q_t.poll(); // q.poll is an dequeue operation
            count++;
        }
        return count;
    }
}
```