75 Days of Code Day 27 Problem no:933. Number of Recent Calls (leetcode)

Type: Queues

You have a RecentCounter class which counts the number of recent requests within a certain time frame.

Implement the RecentCounter class:

RecentCounter() Initializes the counter with zero recent requests. int ping(int t) Adds a new request at time t, where t represents some time in milliseconds, and returns the number of requests that has happened in the past 3000 milliseconds (including the new request). Specifically, return the number of requests that have happened in the inclusive range [t - 3000, t].

It is guaranteed that every call to ping uses a strictly larger value of t than the previous call.

Example 1:

Input

["RecentCounter", "ping", "ping", "ping", "ping"] [[], [1], [100], [3001], [3002]] Output [null, 1, 2, 3, 3]

Explanation

```
RecentCounter recentCounter = new RecentCounter();
recentCounter.ping(1); // requests = [1], range is [-2999,1], return 1
recentCounter.ping(100); // requests = [1, 100], range is [-2900,100],
return 2
recentCounter.ping(3001); // requests = [1, 100, 3001], range is
[1,3001], return 3
```

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recentCounter.ping(3002); // requests = [1, 100, 3001, 3002], range is [2,3002], return 3

Solution using Stack

- Push all the elements in the queue , delete all the elements which are not in range (less than range element 3000)
- Return the length of array

```
27
     class RecentCounter {
29
         arrQueue :number[]=[]
         constructor (){
32
        ping(num: number): number {
            this.arrQueue.push(num)
            let startRange = num-3000;
36
            while(this.arrQueue[0]<startRange){</pre>
             this.arrQueue.shift();
            return this.arrQueue.length;
41
42
     let rc = new RecentCounter();
     console.log( "Answer :" ,rc.ping(1))
```

```
[Running] node "c:\Users\Shubham\Desktop\75daysOfCode\75DaysOfCode\day27.js"
Answer : 1
```