FW: Call Counter
1 message

William Ting <william_ting_2@sfu.ca>   Sat, May 20, 2023 at 6:09 AM
To: "williamdjting@gmail.com" <williamdjting@gmail.com>

From: Daily Byte
Sent: Saturday, May 20, 2023 6:09:41 AM (UTC-08:00) Pacific Time (US & Canada)
To: William Ting
Subject: Call Counter

The Daily Byte

Good morning,

Need help with yesterday's problem? Start getting solutions.

> Today's Byte

This question is asked by Google. Create a class
`CallCounter` that tracks the number of calls a client has made within
the last 3 seconds. Your class should contain one method,
`ping(int t)` that receives the current timestamp (in milliseconds) of a
new call being made and returns the number of calls made within the
last 3 seconds.
Note: you may assume that the time associated with each subsequent
call to
`ping` is strictly increasing.

Ex: Given the following calls to
`ping ...`

```
ping(1), return 1 (1 call within the last 3 seconds)
ping(300), return 2 (2 calls within the last 3 seconds)
ping(3000), return 3 (3 calls within the last 3 seconds)
```

```
ping(3002), return 3 (3 calls within the last 3 seconds)
ping(7000), return 1 (1 call within the last 3 seconds)
```

Thanks,
The Daily Byte

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