



INTERVIEW QUESTION

Overview

We have collected chat statistics for each day by a unique website Id.

The file contains stats collected over 14 days.

Each entry contains:

- Website Id
- Date
- Total number of chats
- Total number of missed chats

There will only be one entry for a website per day.

For example, if there are a total of 5 websites for a period of 14 days, there will be 70 entries in the file.

The stats file can be found here):

<https://bitbucket.org/!api/2.0/snippets/tawkto/aA8zqE/4f62624a75da6d1b8dd7f70e53af8d36a1603910/files/webstats.json>

Task

Write a program that will fetch the statistics from the URL which outputs the sum of chats and missed chats per website Id for a given date range.

If the date range is not provided, the sum should be calculated for the entire data set.

Example without date range option

```
processStatistics()
```

output:

```
[{
  websiteId: '4f8b36d000000000000111111',
  chats: 100,
  missedChats: 10
}, {
  websiteId: '4f8b36d000000000000222222',
  chats: 50,
  missedChats: 5
}, ...]
```

Example with date range option

```
/**
 * processStatistics(start, end)
 */
processStatistics(new Date(2019, 3, 1), new Date(2019, 2, 1))
```

output:

```
[{
  websiteId: '4f8b36d000000000000111111',
  chats: 50,
  missedChats: 1
}, {
  websiteId: '4f8b36d000000000000222222',
  chats: 25,
  missedChats: 2
}, ...]
```

Notes

Write code as if you were to ship it to production — the details matter. Code is expected to be well written.

Usage of **lodash** or **underscore** is not allowed.

During the live interview, you will be asked to explain, modify or add new functionalities to your code.

The technical part of the interview will be done using coderpad.io. Please use the coderpad.io workspace link that was sent with the email to answer the question above.

Instruction on how to use codepad.io can be found here

<https://coderpad.io/getting-started-candidates>

Once you have completed the test question, please let us know by replying to this email.