

# **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/4f62624a75da6d1b8dd7f70e53af8d36a 1603910/files/webstats.json

# Task

Write a program that will retrieve raw data from provided URL and outputs the sum of chats and missed chats per website Id for a given date range.

# Requirements

- Data must be loaded from provided URL
- Date filtering must be optional. If date filters are not provided, the entire dataset needs to be aggregated
- Partial date filtering must be supported. I.e. If only start date is provided data is filtered from a given start date without end date filtering
- Output must be a JSON array or objects, each containing website ID, number of chats and number of missed chats
- Usage of **lodash** or **underscore** is not allowed

## Examples

Note: This example assumes your solution entry-point is a function called processStatistics with 2 arguments - startDate and endDate. Example is provided in Javascript and example output data is truncated, but accurate for data-set and can be used to validate your solution.

```
Example without date range option
```

```
processStatistics()

output:

[[{
    websiteId: '4f8b36d000000000000000001',
    chats: 1568,
    missedChats: 11
}, {
    websiteId: '4f8b36d000000000000000002',
    chats: 70,
    missedChats: 8
}, ...]
```

#### Example with date range option

### Notes

Criteria Your solution will be evaluated on include but are not limited to:

- Time and space complexity (solution is expected to execute in linear time complexity)
- Adherence to programming best practices such as SOLID principles
- Readability and documentation
- Unit-tests are not required, but are considered a plus

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

Your solution must be submitted in a coderpad.io workspace provided to you. Instruction on how to use codepad.io can be found here <a href="https://coderpad.io/getting-started-candidates">https://coderpad.io/getting-started-candidates</a>