

Programming Task

Overview

The goal of the assignment is to create a solution we can use to have a conversation about your software development skills. To this end we are looking for readable code and passing tests.

Please provide a solution that meets the deliverables stated below.

Time and effort

Whilst there is no time limit, our expectation is that this assignment should take between 2-4 hours to complete. If you find yourself spending more time you may want to revisit your approach or ask for clarification.

The task

The task is to parse a log file containing HTTP requests and to report on its contents. For a given log file we want to know:

- The number of unique IP addresses
- The top 3 most visited URLs
- The top 3 most active IP addresses

Example Data

```
177.71.128.21 - - [10/Jul/2018:22:21:28 +0200] "GET /intranet-analytics/ HTTP/1.1" 200 3574
```

A log file with test data is included with this assignment.

Deliverables

- For this task you can choose from Java, Python, JavaScript, Kotlin, Go or C#.
- There are no restrictions on language features and you are free to use third-party libraries.
- Please include tests that demonstrate your solution is working.
- You can submit your solution as a zip file containing the source code or a public git repository.