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

Our expectation is that this assignment should take roughly one hour. 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.