

Programming Task Overview

The goal of this task 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, we expect this 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 any coding language, e.g. Java, Python, JavaScript, Kotlin, Go or C# etc
- There are no restrictions on using 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.
- This exercise will form the basis of your technical interview – please send through to emergingcareers@mantelgroup.com.au 24 hours prior to your interview

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Handy hints and tips

- We will be looking to assess your problem-solving skills, so be prepared to talk through how, and why, you reached this solution at interview
- Ensure you use clean code
- Be prepared to talk about potential changes to your code and how this might impact your solution