

Horizon Discovery – Technical Test

Given a web server log file in W3C format, as referenced by

<https://docs.microsoft.com/en-us/windows/desktop/http/w3c-logging>

```
#Software: Microsoft HTTP Server API 2.0

#Version: 1.0 // the log file version as it's described by "https://www.w3.org/TR/WD-logfile".

#Date: 2002-05-02 17:42:15 // when the first log file entry was recorded, which is when the entire log file
was created.

#Fields: date time c-ip cs-username s-ip s-port cs-method cs-uri-stem cs-uri-query sc-status cs(User-Agent)

2002-05-02 17:42:15 172.22.255.255 - 172.30.255.255 80 GET /images/picture.jpg - 200 Mozilla/4.0+
```

Write an application (console is fine) that outputs a ranked list of URLs along with how many "hits" each has got. Do use artistic license but document any assumptions you make.

Consider extensibility as well as solving the immediate problem – a key component of our face-to-face interview is being able to talk through your solution and how it might be extended. There is not a need to solve these now, but think about how the application might be enhanced in the future to (for example):

- Read different types of web log file formats
- Aggregate results across multiple files
- Handle 404 errors and different results a log might record
- Vary ranking – e.g. rank more recent results higher
- Ensure correctness when enhancing

These may impact your design decisions.

Please send a link with a zip of your solution along with any dependencies and notes to compile/run.