

Java / Scala Senior Developer test

URL split test

URL Definition

`scheme://domain:port/path?query_string`

Port is an optional field

Query String is an optional field

- Write a program to split a URL to parts: scheme, host, port, path and parameters.
- The program will read the URL from command line.
- The program will implement 2 splitting algorithms and compare their performance.
- The **first algorithm** will use regular expressions.
- The **second algorithm** will be based on a state machine.
- The program will run 10000 iterations of each algorithm.
- The program will output URL parts and runtimes of both algorithms.

Note – comments describing the main parts of the code are required

- Source and compiled jar should be zipped and sent for review.
- You can use online sources but you must include comments explaining the code and algorithm.
- Once received there will be a review of the test and the methods used.

Example:

Input

```
splitUrl "http://host:8090/path?params"
```

Output

```
http
host
8090
path
params
Regex: 15msec
State: 10msec
```