

Live Coding Interview

Overview

Welcome, on this first interview we want to see your fluency and control in Python code.

Exercise

```
# Simple Load Balancer Service # You are asked to
implement a load balancing service server. # The server
receives http requests and forwards them to one of
several microservices. # The server should have the
following endpoints: # /register- receives the
parameters url path, ip address, port. After receiving
this request # the load balancer will start sending some
of the requests to the microservice # listening on the
relevant ip and port. # HTTP requests to other endpoints
are forwarded to one of the microservices # according to
load balancing scheme, and replies are sent back to the
client. # The initial load balancing scheme is Round
Robin # For example: # Microservice A sends:
http://<load balancer>/register "/test", ip address,
port # Microservice B sends: http://<load
balancer>/register "/test2", ip address, port #
Microservice C sends: http://<load balancer>/register
"/test", ip address, port # Microservice D sends:
http://<load balancer>/register "/test", ip address,
port # A client calls http://<load balancer>/test ->
This will be forwarded to either A,C or D
```

Guidelines

- Time limit: **50 minutes**
- Focus on the Load Balancer code. No need to implement the microservices
- Pay attention to **code structure, readability** and in general write the best code you can which is production worthy

- Please email your code at the end of the exercise.