

Whats the goal?

The program **loadbalancer** will act as the middleman between the client and server. The load balancer will listen on a single port and will take in multiple client requests. It will then take these requests and send it to a prioritized server that it is connected to. We prioritize a server by requesting healthchecks from it and deciding which server to choose from based on who has the least amount of requests and errors. We repeat this process and ever so often check the health checks of the server to know if they are functioning or not. If a server does not send a response we assume that it is down and will not prioritize it until it comes back online and is able to send a response in a later health check.

How to implement

Main

checkHealth()

- Request the healthchecks of all the servers
- If server does not respond then change value of server in array **serverUp[]** to show that it is down