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Writeup

Testing

For testing I incrementally tested with curl requests and a .sh file then I used brook aviv's tests provided on piazza. I ended up passing all but 2 of those tests. The tests I wasn't passing were the fourth and fifth server-down tests. That said I only passed 7 of the mostly trivial test cases on the public gitlab test. After fixing some errors in my less calculation function and adding a 5 second health check timer, I was passing all tests but 2. I also cleaned a lot of code along the way.

1) Added complexity, also all of the http servers we're being run on the local machine so we can assume consistent performance.
2) parsing of just the request line is pretty fast and if handled by the load balancer could help the bridge connection function dynamically create appropriate sized buffers for a request instead of using a 100 byte buffer. I believe this would provide a significant speedup.
3) I ran the diagnostic test and the first part without nc took 3m and 53s. When i used nc my health check function returned an error, so the server was never sent requests and the timing was pretty much the same.