

Lab 3

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a.1

We do receive the response immediately. Netstat tells us that the connection is established.

```
tcp    0      0 localhost:34644      localhost:5703      ESTABLISHED
tcp    0      0 localhost:5703       localhost:34645     ESTABLISHED
tcp    0      0 localhost:34645      localhost:5703      ESTABLISHED
tcp    0      0 localhost:5703       localhost:34644     ESTABLISHED
```

a.2

Below is our timing for the concurrent server and the iterative server. The concurrent server handles multiple clients well, and the time clients need to spend waiting is minimized.

```
Connect timing results for 100 successful connections
- min time: 0.990722 ms
- max time: 6.016197 ms
- average time: 2.417829 ms
(0 connections failed!)
Roundtrip timing results for 100 connections for 10000 round trips
- min time: 2894.553222 ms
- max time: 3669.167915 ms
- average time: 3440.605040 ms
```

```
Connect timing results for 100 successful connections
- min time: 3.168992 ms
- max time: 15000.369521 ms
- average time: 5480.162936 ms
(0 connections failed!)
Roundtrip timing results for 64 connections for 10000 round trips
- min time: 230.742278 ms
- max time: 7289.022922 ms
- average time: 3230.925516 ms
```

a.3

This attack is no longer possible since the server can serve multiple clients, at the same time.