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Program 1 Report

Our group finished all the assigned tasks. We implemented the code that we needed to for the recieveOnePing function to work properly, and we also added the average RTT, minimum RTT, and maximum RTT. We got some help, mainly from the skeleton code from the book that the program is based off (any other resources are at the bottom). We only met once, which was on Monday, March 15th, from 4-6PM. For the most part, we individually worked on the program and then we came together on Monday to make sure we had relatively the same thing and made sure it worked correctly. We tested our ping function on 5 different addresses, with the first being the local host, and the other four being on four different continents (South America, Africa, Europe, Asia)

Below are the results after running each ping 10 times:

```
RTT: 0.0
Max RTT: 0.0009975433349609375
Min RTT: 0.0
Avg RTT: 0.0001994609832763672
Packet Loss Rate: 0.0
```

(127.0.0.1) (local host)

```
RTT: 0.12657999992370605
Max RTT: 0.17109465599060059
Min RTT: 0.11501598358154297
Avg RTT: 0.1256253719329834
Packet Loss Rate: 0.0
```

(www.tropenhaus.com.br) (South America)

```
RTT: 0.05166459083557129
Max RTT: 0.16667914390563965
Min RTT: 0.05034351348876953
Avg RTT: 0.06825566291809082
Packet Loss Rate: 0.0
```

(masrawy.com) (Africa)

```
RTT: Request timed out.
Max RTT: 0.15736770629882812
Min RTT: 0.13753271102905273
Avg RTT: 0.14512923028733996
Packet Loss Rate: 0.1
```

(tu.berlin) (Europe)

```
RTT: Request timed out.
Max RTT: 0.260941743850708
Min RTT: 0.23905396461486816
Avg RTT: 0.24456303460257395
Packet Loss Rate: 0.3
```

(www.aiit.or.kr) (Asia)

References:

https://www.w3schools.com/python/python_variables_global.asp (used to find out how global variables work, specifically used for the min, max and average RTT)