Testing Report:

Target List:

schneier.com

facebook.com

leetcode.com

apple.com

Output:

```
Now Testing: schneier.com
Testing Target: schneier.com:199.16.172.203; Hops: -176; RTT: 1.3422966003417969ms; Dest IP: 10.4.3.40, IPID: 41337, Dest Port: 33434
Now Testing: facebook.com
Testing Target: facebook.com:31.13.66.35; Hops: -179; RTT: 1.3227462768554688ms; Dest IP: 10.4.3.40, IPID: 41338, Dest Port: 33434
Now Testing: leetcode.com
Testing Target: leetcode.com:172.67.72.213; Hops: -180; RTT: 1.2950897216796875ms; Dest IP: 10.4.3.40, IPID: 41338, Dest Port: 33434
Now Testing: apple.com
Testing Target: apple.com:17.253.144.10; Hops: -181; RTT: 1.291036605834961ms; Dest IP: 10.4.3.40, IPID: 41338, Dest Port: 33434
Times taken: 0.0020797252655029297
eecs-user@ip-10-4-3-40:~/project2grading$ sudo python3 distMeasurement.py
Begin to Receive
Now Testing: schneier.com
Testing Target: schneier.com:199.16.173.239; Hops: -179; RTT: 1.2619495391845703ms; Dest IP: 10.4.3.40, IPID: 55877, Dest Port: 33434
Now Testing: facebook.com
Testing Target: facebook.com:31.13.66.35; Hops: -179; RTT: 1.1386871337890625ms; Dest IP: 10.4.3.40, IPID: 55877, Dest Port: 33434
Now Testing: apple.com
Testing Target: apple.com:17.253.144.10; Hops: -181; RTT: 1.2688636779785156ms; Dest IP: 10.4.3.40, IPID: 55878, Dest Port: 33434
Now Testing: leetcode.com
Testing Target: leetcode.com:104.26.9.101; Hops: -180; RTT: 1.4710426330566406ms; Dest IP: 10.4.3.40, IPID: 55878, Dest Port: 33434
Times taken: 0.0021908283323364258
eecs-user@ip-10-4-3-40:~/project2grading$ sudo python3 distMeasurement.py
Begin to Receive
Now Testing: schneier.com
Testing Target: schneier.com:199.16.173.239; Hops: -179; RTT: 1.2359619140625ms; Dest IP: 10.4.3.40, IPID: 57387, Dest Port: 33434
Now Testing: facebook.com
Testing Target: facebook.com:31.13.66.35; Hops: -179; RTT: 1.1858940124511719ms; Dest IP: 10.4.3.40, IPID: 57388, Dest Port: 33434
Now Testing: apple.com
Testing Target: apple.com:17.253.144.10; Hops: -181; RTT: 1.1129379272460938ms; Dest IP: 10.4.3.40, IPID: 57388, Dest Port: 33434
Now Testing: leetcode.com
Testing Target: leetcode.com:104.26.9.101; Hops: -180; RTT: 1.4090538024902344ms; Dest IP: 10.4.3.40, IPID: 57388, Dest Port: 33434
Times taken: 0.0020592212677001953
eecs-user@ip-10-4-3-40:~/project2grading$ sudo python3 distMeasurement.py
Begin to Receive
Now Testing: schneier.com
Testing Target: schneier.com:199.16.173.239; Hops: -179; RTT: 1.257181167602539ms; Dest IP: 10.4.3.40, IPID: 58395, Dest Port: 33434
Now Testing: facebook.com
Testing Target: facebook.com:31.13.66.35; Hops: -179; RTT: 1.3141632080078125ms; Dest IP: 10.4.3.40, IPID: 58395, Dest Port: 33434
Now Testing: leetcode.com
Testing Target: leetcode.com:104.26.9.101; Hops: -180; RTT: 1.5821456909179688ms; Dest IP: 10.4.3.40, IPID: 58395, Dest Port: 33434
Now Testing: apple.com
Testing Target: apple.com:17.253.144.10; Hops: -181; RTT: 1.760244369506836ms; Dest IP: 10.4.3.40, IPID: 58395, Dest Port: 33434
Times taken: 0.0025107860565185547
```

Conclusion:
In conclusion the ping tool works basically well in the machine. The tool works in most of the websites but fails for some because for such websites we cannot get the IP address by their name. The general trend of the tool is correct but for some reasons the hops are not going very well which shows a huge negative number. I have tried to debug it and I realized that the TTL is super high, around 143, which I really do not know why. For the rest of the

information, it's correct. I used 4 webs for testing and could be added for me in the targerts.txt