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CSCI 351 Data Comm & Networks

HW 2

my_ping

```
PS C:\Users\finn\csci351\hw2> & C:/Python311/python.exe c:/Users/finn/csci351/hw2/my_ping.py -c 4 google.com
PING google.com with 56(84) bytes of data
64 bytes from 142.251.35.174: time=27.73ms ttl=118 icmp_seq=1
64 bytes from 142.251.35.174: time=32.56ms ttl=118 icmp_seq=2
64 bytes from 142.251.35.174: time=16.25ms ttl=118 icmp_seq=3
64 bytes from 142.251.35.174: time=16.68ms ttl=118 icmp_seq=4

google.com ping statistics:
    4 packets transmitted, 4 packets received, 0.0% packet loss, time 4109.86ms
    rtt min/avg/max: 16.25/23.30/32.56
```

```
PS C:\Users\finn\csci351\hw2> & C:/Python311/python.exe c:/Users/finn/csci351/hw2/my_ping.py -i 3 google.com
PING google.com with 56(84) bytes of data
64 bytes from 142.251.35.174: time=21.26ms ttl=118 icmp_seq=1
64 bytes from 142.251.35.174: time=32.94ms ttl=118 icmp_seq=2
64 bytes from 142.251.35.174: time=16.16ms ttl=118 icmp_seq=3
64 bytes from 142.251.35.174: time=16.12ms ttl=118 icmp_seq=4
64 bytes from 142.251.35.174: time=16.57ms ttl=118 icmp_seq=5
64 bytes from 142.251.35.174: time=18.34ms ttl=118 icmp_seq=6

google.com ping statistics:
    6 packets transmitted, 6 packets received, 0.0% packet loss, time 17183.06ms
    rtt min/avg/max: 16.12/20.23/32.94
```

```
PS C:\Users\finn\csci351\hw2> & C:/Python311/python.exe c:/Users/finn/csci351/hw2/my_ping.py -s 64 google.com
PING google.com with 64(92) bytes of data
72 bytes from 142.251.35.174: time=24.72ms ttl=118 icmp_seq=1
72 bytes from 142.251.35.174: time=38.96ms ttl=118 icmp_seq=2
72 bytes from 142.251.35.174: time=17.60ms ttl=118 icmp_seq=3
72 bytes from 142.251.35.174: time=19.61ms ttl=118 icmp_seq=4
72 bytes from 142.251.35.174: time=19.32ms ttl=118 icmp_seq=5
72 bytes from 142.251.35.174: time=15.76ms ttl=118 icmp_seq=6
72 bytes from 142.251.35.174: time=16.73ms ttl=118 icmp_seq=7

google.com ping statistics:
    7 packets transmitted, 7 packets received, 0.0% packet loss, time 6451.45ms
    rtt min/avg/max: 15.76/21.82/38.96
```

```
PS C:\Users\finn\csci351\hw2> & C:/Python311/python.exe c:/Users/finn/csci351/hw2/my_ping.py -t 5 google.com
PING google.com with 56(84) bytes of data
64 bytes from 142.251.35.174: time=23.30ms ttl=118 icmp_seq=1
64 bytes from 142.251.35.174: time=32.49ms ttl=118 icmp_seq=2
64 bytes from 142.251.35.174: time=16.63ms ttl=118 icmp_seq=3
64 bytes from 142.251.35.174: time=17.00ms ttl=118 icmp_seq=4
64 bytes from 142.251.35.174: time=16.24ms ttl=118 icmp_seq=5

google.com ping statistics:
    5 packets transmitted, 5 packets received, 0.0% packet loss, time 5142.07ms
    rtt min/avg/max: 16.24/21.13/32.49
```

my_traceroute

```
PS C:\Users\finn\csci351\hw2> & C:/Python311/python.exe c:/Users/finn/csci351/hw2/my_traceroute.py -n google.com
1      172.16.11.1
1      172.16.11.1
1      172.16.11.1
2      209.35.106.36
2      209.35.106.36
2      209.35.106.36
3      209.126.37.38
3      209.126.37.38
3      209.126.37.38
4      69.174.20.209
4      69.174.20.209
4      69.174.20.209
5      199.229.231.78
5      199.229.231.78
5      199.229.231.78
6      108.170.226.109
6      108.170.226.109
6      108.170.226.109
7      142.251.64.5
7      142.251.64.5
7      142.251.64.5
8      142.251.35.174
Trace completed
```

```
PS C:\Users\finn\csci351\hw2> & C:/Python311/python.exe c:/Users/finn/csci351/hw2/my_traceroute.py -q 1 google.com
1      ???      172.16.11.1
2      ???      209.35.106.36
3      ???      209.126.37.38
4      et-0-0-23.cr2-nyc2.ip4.gtt.net  69.174.20.209
5      as15169.cr5-nyc2.ip4.gtt.net    199.229.231.78
6      ???      108.170.226.109
7      ???      142.251.64.5
8      lga25s78-in-f14.1e100.net      142.251.35.174
Trace completed
```

```
PS C:\Users\finn\csci351\hw2> & C:/Python311/python.exe c:/Users/finn/csci351/hw2/my_traceroute.py -S google.com
1      ???      172.16.11.1
1      ???      172.16.11.1
1      ???      172.16.11.1
0 unanswered probes for ttl 1
2      ???      209.35.106.36
2      ???      209.35.106.36
2      ???      209.35.106.36
0 unanswered probes for ttl 2
3      ???      209.126.37.38
3      ???      209.126.37.38
3      ???      209.126.37.38
0 unanswered probes for ttl 3
4      et-0-0-23.cr2-nyc2.ip4.gtt.net  69.174.20.209
4      et-0-0-23.cr2-nyc2.ip4.gtt.net  69.174.20.209
4      et-0-0-23.cr2-nyc2.ip4.gtt.net  69.174.20.209
0 unanswered probes for ttl 4
5      as15169.cr5-nyc2.ip4.gtt.net    199.229.231.78
5      as15169.cr5-nyc2.ip4.gtt.net    199.229.231.78
5      as15169.cr5-nyc2.ip4.gtt.net    199.229.231.78
0 unanswered probes for ttl 5
6      ???      108.170.226.109
6      ???      108.170.226.109
6      ???      108.170.226.109
0 unanswered probes for ttl 6
7      ???      142.251.64.5
7      ???      142.251.64.5
7      ???      142.251.64.5
0 unanswered probes for ttl 7
8      lga25s78-in-f14.1e100.net      142.251.35.174
Trace completed
```