

(1Q

```
osoolian_99521073@99521073:~/Desktop$ nmap 8.8.8.8 | awk 'NR>5' | head -n -1 | tr -s ' ' | cut -d ' ' -f 1,3 --output-delimiter='\t'
PORT      SERVICE
53/tcp    domain
443/tcp   https
```

(Q2

```
osoolian_99521073@99521073:~/Desktop$ bash test_addr.sh 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=128 time=80.5 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=128 time=75.5 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=128 time=77.7 ms

--- 8.8.8.8 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2004ms
rtt min/avg/max/mdev = 75.515/77.938/80.565/2.066 ms

Done
osoolian_99521073@99521073:~/Desktop$ bash test_addr.sh 1.2.3.4
PING 1.2.3.4 (1.2.3.4) 56(84) bytes of data.

--- 1.2.3.4 ping statistics ---
3 packets transmitted, 0 received, 100% packet loss, time 2027ms

The address is unreachable
osoolian_99521073@99521073:~/Desktop$
```

```
osoolian_99521073@99521073: ~/Desktop
ping $1 -c 3
if [ $? -eq 0 ];
then
    echo ""
    echo "Done"
else
    echo ""
    echo "The address is unreachable"
fi
~
~
~
```

(Q3

```
osoolian_99521073@99521073:~/Desktop$ arp | tr -s ' ' | cut -d ' ' -f 3,5 --output-delimiter=$'\t' | awk 'NR>1'
00:50:56:e3:d9:ae      ens33
00:50:56:f7:6f:be      ens33
osoolian_99521073@99521073:~/Desktop$
```