1. What series of IPs would a recursive DNS server use to find the address of m.yelp.com?

**harbinger:~$ host -v -t A m.yelp.com 199.7.83.42**

a.gtld-servers.net. 172800 IN A 192.5.6.30

**harbinger:~$ host -v -t A m.yelp.com 192.5.6.30**

ns1.p18.dynect.net. 172800 IN A 208.78.70.18

**harbinger:~$ host -v -t A m.yelp.com 208.78.70.18**

m.yelp.com. 60 IN CNAME m.gslb.yelp.com.

**harbinger:~$ host -v -t A m.gslb.yelp.com 208.78.70.18**

m.gslb.yelp.com. 30 IN CNAME m.sfo2.yelp.com.

**harbinger:~$ host -v -t A m.sfo2.yelp.com 208.78.70.18**

m.sfo2.yelp.com. 60 IN A 198.51.132.34

m.sfo2.yelp.com. 60 IN A 198.51.132.234

1. What are the IP addresses of m.yelp.com?

**harbinger:~$ host m.yelp.com**

m.yelp.com is an alias for m.gslb.yelp.com.

m.gslb.yelp.com is an alias for m.sfo2.yelp.com.

m.sfo2.yelp.com has address 198.51.132.234

m.sfo2.yelp.com has address 198.51.132.34

1. Do IP packets leave the Berkeley network when traveling to amplab.cs.berkeley.edu from harbinger.ischool.berkeley.ede? Include the command and output.

No, it doesn’t leave the Berkeley network

**harbinger:~$ traceroute amplab.cs.berkeley.edu**

traceroute to amplab.cs.berkeley.edu (128.32.37.248), 30 hops max, 60 byte packets

1 g3-35.inr-211-srb.Berkeley.EDU (128.32.78.3) 0.708 ms 0.683 ms 0.775 ms

2 t6-1.inr-202-reccev.Berkeley.EDU (128.32.255.126) 0.647 ms 0.687 ms 0.784 ms

3 reccev-eecs-br-10GE.EECS.Berkeley.EDU (128.32.255.58) 1.824 ms 3.138 ms 3.118 ms

4 soda-10g-edge.EECS.Berkeley.EDU (169.229.59.242) 2.359 ms 2.331 ms 2.568 ms

5 www-research2.CS.Berkeley.EDU (128.32.37.248) 1.391 ms !X 1.374 ms !X 1.452 ms !X

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