**Exercise 3**

**Q1:**

**23.185.0.1, type A query**

**文本

描述已自动生成**

**Q2:**

**www.eecs.berkeley.edu is an alias for live-eecs.pantheonsite.io.**

**live-eecs.pantheonsite.io is an alias for fe1.edge.pantheon.io.**

****

**Using CNAME records makes it easy to change IP addresses. If a server has 100 websites and they all make aliases, when that server changes its IP, it only needs to change the A record of the alias.**

**Q3:**

**AUTHORITY SECTION returns the authoritative DNS name servers for the ANSWER SECTION.**

**ADDITIONAL SECTION lists the IP addresses of these authorized DNS servers. Type AAAA stands for IPv6 addresses.**

图形用户界面

低可信度描述已自动生成

**Q4:**

**On the cse server, the local nameserver’s IP is this.**

**图形用户界面

中度可信度描述已自动生成**

**My local machine, which I won't screenshot because it's in Chinese, is 192.168.0.1**

**Q5:**

**ns.CS.berkeley.edu. -- 169.229.60.61**

**ns.eecs.berkeley.edu. -- 169.229.60.153**

**adns1.berkeley.edu. -- 128.32.136.3**

**adns2.berkeley.edu. -- 128.32.136.14**

**adns3.berkeley.edu. -- 192.107.102.142**

文本

中度可信度描述已自动生成

**Q6:**

**dig -x 111.68.101.54 +short**

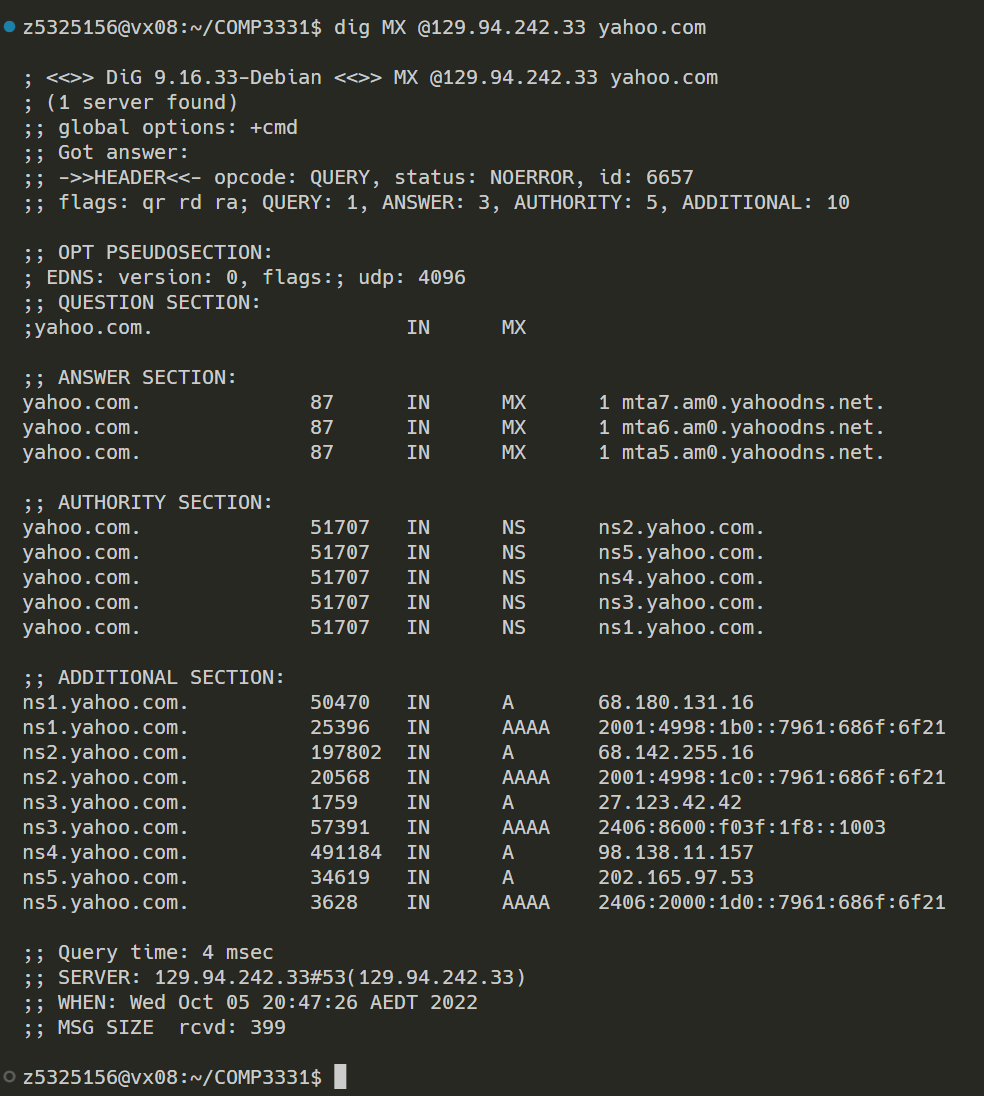
**Type PTR query**

文本

描述已自动生成

**Q7:**

**No authoritative answer was obtained because the flags did not contain the aa tag. This means that the CSE server may not have access to the yahoo domain.**



**Q8:**

**I get REFUSED. no other response, probably because the selected nameservers do not answer queries from devices that are not part of their network. It should be some kind of security measure.**

文本

描述已自动生成

**Q9:**

**Type MX**

文本

描述已自动生成

**Q10:**

**Need 5 DNS servers to query to get the authoritative answer.**

**(a.root-servers.net, d.au, q.au, unsw.edu.au, beethoven.orchestra.cse.unsw.edu.au)**

图形用户界面

描述已自动生成

图形用户界面, 文本

描述已自动生成

电脑萤幕

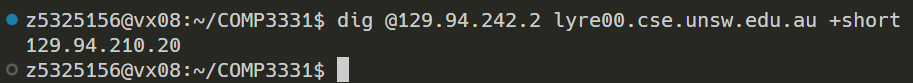
描述已自动生成

文本

描述已自动生成

电脑萤幕

中度可信度描述已自动生成



**Q11:**

**Yes, a machine has many network interfaces, any of which can be associated with multiple ip addresses, and these ip addresses can be associated with even more different hostnames.**

**Exercise 4**

文本

中度可信度描述已自动生成

图形用户界面, 文本, 应用程序, 聊天或短信

描述已自动生成

文本

描述已自动生成

图形用户界面, 文本, 应用程序

描述已自动生成

卡通人物

描述已自动生成