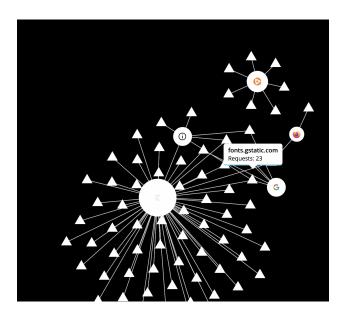
Instructions

There are 60 total points . When asked to provide your answer within a figure or table, be careful to not exceed box boundaries. Bubbles must be filled out completely: is correct, is correct, are incorrect. All answers must be given within the provided circles, answer boxes, figures or tables.
1. [1 point]: Write your full name in the box to acknowledge the instructions.
Net Neutrality
 2. [4 points]: Which of the following are commonly considered "bright line" rules for Net Neutrality. (Select all that apply.) No blocking No content moderation
No throttling
No paid prioritization
Transparency of practices
3. [4 points]: An Internet service provider notices a sudden uptick in streaming video (e.g., Netflix, Amazon, etc.) traffic that is congesting certain network links and interfering with other traffic, including latency-sensitive applications such as gaming and video conference traffic.
To improve the performance of the network, the ISP decides to throttle streaming video traffic so that the peak utilization never exceeds a couple of megabits per second. Would such throttling typically be considered a net neutrality violation? Yes No
4. [4 points]: Why or why not? (Answer inside the box)

In such an agreement, Netflix pays Comcast to con intermediaries. What are some reasons that Netflix v	
Moving content closer to Comcast customers is l	• •
Interconnecting with Comcast at an exchange po	int is completely free.
Comcast would otherwise throttle Netflix traffic,	unless it paid.
Oirectly connecting to Comcast saves the cost of	transit through another ISP.
6. [4 points]: Explain why paid peering agree	ements are not typically considered a net neutrality violation. (Answer inside the box)
DNS Security and Privacy7. [4 points]: Which of the following are true about	
ONSSEC provides integrity and authenticity for	DNS records.
ONSSEC provides confidentiality for DNS recor	ds.
ONSSEC uses public key cryptography.	
ONSSEC uses symmetric key cryptography.	
8. [4 points]: Which of the following are true abo DoH provides integrity and authenticity for DNS	
ODOH provides confidentiality for DNS records.	
ODoH uses public key cryptography.	
ODOH uses symmetric key cryptography.	
9. [2 points]: Is it possible to use both DNSSEC a	and DoH at the same time?

Web Privacy and Tracking

Shown below is an image from the Lightbeam plugin, which we discussed in class. It shows, for example, that fonts.gstatic.com (a domain maintained by Google) is a third-party tracker that is contacted by many different websites.



10. [4 points]: sites?	Why is it a potential problem that fonts.gstatic.com is contacted by many different web-				
	(Answer inside the box				
_	What types of information might Google be able to collect or infer about a user, given the ability ass many different websites?				
Browsing history	ory				
○ Interests					
Credit card nu	mber				
Name					

Vulnerability Disclosure

12. [2 points]: It is common practice to allow a company some period of time to fix a vulnerability before disclosing it publicly. Yes No					
13. [2 points]: Why or why not? (Answer inside the box)					
To improve security and catch vulnerabilities earlier, a company decides to run a bug bounty program. The company will pay \$1000 for each vulnerability that is reported to them.					
14. [4 points]: What are the potential benefits of such a program? (Answer inside the box)					
15. [4 points]: What are the potential drawbacks? (Answer inside the box)					
(Alliswel histociale box)					

Digital Equity

This topic was not covered as much in class, but there was an assignment on it. So, there are not many points assigned to this section, and the questions should be straightforward!
16. [1 point]: Unreliable Internet access is only a problem in rural areas (i.e., not in cities). Yes No
17. [2 points]: A common metric to measure Internet performance is throughput, which is measured in bits per second. What is a definition of throughput?
(Answer inside the box)
18. [4 points]: In the assignment, you worked with data from the FCC's Measuring Broadband America program, which measures the performance of Internet service providers (ISPs) in the United States. What are some reasons that the FCC might want to measure the performance of ISPs?
To ensure that ISPs are providing the service that they advertise.
To ensure that ISPs are not providing service to customers in other countries.
To ensure that ISPs are providing service to customers in rural areas.
To ensure that the service that ISPs are providing is affordable.

19. [1 point]:	Interest (1=Boring!; 10=Amazing!):		Difficulty (1=Too easy; 10=Too hard):			
20. [1 point]: 1. One topic you'd like to see covered that wasn't covered. 2. One other suggestion for improvement. (Answer inside the box)						