

# CS101: HW 6

Due: May 21, 2018

**Submission Instructions:** Type your answers to the following questions in a .doc or .txt file and submit on Canvas.

## Internet Exercises

1. What are two purposes for domain names? What is a real-life example of a domain name? Describe how domain names are hierarchical.
2. Describe the server/client model. Which is your computer?
3. Why is it important that the internet be redundant?
4. What does the term "Internet of Things" refer to? What is something that would be a part of the Internet of Things?
5. What is a checksum? What layer uses the checksum, and what does it accomplish?
6. What is net neutrality? What is an argument for and an argument against net neutrality?
7. Why is TCP/IP important? What would happen if these protocols didn't exist?

## Questions on Thursday's material added below

### Servers and Backend

8. Why do companies distribute information across computers? Name two advantages of doing so.
9. Why might a website not come up on Google?
10. What is Search Engine Optimization? What is something you could do to make your website more relevant?
11. Why does Google frequently re-crawl the internet?
12. What are degrees of separation? How is the average number of degrees of separation between Facebook users likely to change in the future (and why)?
13. Describe two criticisms of Facebook's news feed algorithm.
14. What is another example of the Friendship Paradox in real life (outside of Facebook)?