

CS361 Questions: Week 1

Type your answers and submit them on Canvas by 11:59pm on Wednesday, February 6, 2020. Don't write an essay on these. Usually, 2–3 sentences will suffice. Sometimes 1 sentence will be enough.

1. What uses of the term “security” are relevant to your everyday life?
2. Have you been a victim of lax security? If so, when?
3. Estimate the likelihood that your laptop is infected with malware. Why did you give that number?
4. What security measures do you employ on your laptop?
5. Do you think they are probably effective?
6. Consider the quote from the FBI official. Do you think it overstates the case? Why or why not?
7. Is there a systematic way to enumerate the “bad things” that might happen to a program? Why or why not?
8. Explain the asymmetry between the defender and attacker in security.
9. Explain the statement that a tradeoff is typically required between security and functionality.
10. What is “risk”?
11. Name and explain a risk in your personal life that you accept, one you avoid, one you mitigate, and one you transfer?
12. Consider your use of computing in your personal life. Which is most important: confidentiality, integrity, availability? Justify your answer.
13. List at least one context in which each of authentication and non-repudiation would be considered very important?