

## CS361 Questions: Week 2

Type your answers and submit them on Canvas.

1. Explain the statement: "If you don't understand the metapolicy, it becomes difficult to justify and evaluate the policy."
2. Why is military security mainly about confidentiality? Are there also aspects of integrity and availability?
3. Describe the major threat in our MLS thought experiment.
4. Why do you think the proviso is there: it's just about confidentiality, not integrity?
5. Explain the form of the labels we're using.
6. Why do you suppose we're not concerned with how the labels get there?
7. Justify the rules for "mixed" documents.
8. Explain the difference in semantics of labels for documents and labels for humans.
9. Explain why the Principle of Least Privilege makes sense.
10. Prove that dominates is a partial order (reflexive, transitive, antisymmetric).
11. Show that dominates is not a total order.
12. What would have to be true for two labels to dominate each other?
13. State informally what the the Simple Security property says.
14. Explain why it's "only if" and not "if and only if."
15. Why do we need constraints on write access?
16. What is it about computers, as opposed to human beings, that makes that particularly important?
17. State informally what the \*-Property says.
18. What must be true for a subject to have both read and write access to an object?
19. Evaluate changing a subject's level (up or down) in light of weak tranquility.
20. Why not just use strong tranquility all the time?
21. Explain why lowering the level of an object may be dangerous.