CS1301 Study guide for exam 1

I recommend you go through the slides at least once. Below are a few recommendations about the things you should understand and know for this test:

1. Understand the basic components of a computer.
2. Know what the CPU (central processing unit) is.
3. Know what unit computer speed is measured with.
4. Know what a byte is and how many bits one byte has.
5. Understand the difference between primary and secondary storage.
6. Know the types of errors a programmer can run into.
7. Understand the difference between interpreted and compiled languages.
8. Know the basic anatomy of a Java program, any character is fair game for the test.
9. Know the keywords we covered in programs so far.
10. Understand what a design, or pseudocode is and how it is different from code.
11. Know the data types we covered in class.
12. Know the syntax of a type cast.
13. Know how many possible whole numbers can be represented by a given number of bits.
14. Know the rules of identifier naming!
15. Understand what selection statements are.
16. Know what a boolean type is. What can it represent? How many bits does it need?
17. Be able to write a complete simple design and Java program on paper.
18. Know the syntax to create a “Scanner” object.
19. Know how to use scanner object to get a double (Scanner's .nextDouble() method) .
20. Know the syntax to print a line using string literals and variables.
21. Know how to write a flowchart (where diamonds are if statements)