

Study Guide for Test #1

1. Know the flowchart symbols and their names.
2. What is hardware?
3. What is software?
4. What are the 4 basic computer operations?
5. Know the difference between a compiler and an interpreter.
6. List some programming languages.
7. Know the difference between internal storage and external storage.
8. Know the difference between volatile and nonvolatile storage.
9. What are the steps in the programming process? Understand each step.
10. What must be done in order for a programmer to truly understand the problem?
11. What tools are used to plan the logic of a program?
12. What is a flowchart?
13. What is pseudocode? What does pseudo mean? What does code refer to?
14. What two types of errors occur in a program? Define each.
15. What catches syntax errors?
16. What is the data hierarchy?
17. What is the general structure of any flowchart?
18. What is a variable name?
19. What rules must be followed when creating variable names?
20. What naming conventions can be used for variable names?
21. What is a loop?
22. How do you ensure that a loop will terminate?
23. When is a connector symbol used?
24. When is a page connector symbol used?
25. What two basic types of data do computers deal with?
26. What is a constant?
27. List some common types of numeric data. Know the difference between each.
28. What are two major techniques used for developing programs? Define each.
29. Review from first quiz.
 - a. What are the components of a computer?
 - b. Know what devices belong to the family of input devices.
 - c. Know what devices belong to the family of output devices.
 - d. Know what devices belong to the family of miniature mobile storage devices.
 - e. Know characteristics of the tape.
 - f. What makes up the processor?
 - g. Which types of transmission media are wireless?
 - h. List some system software.
 - i. List some application software.
 - j. What does LAN, MAN, and WAN stand for? Define each.
 - k. How many bytes are in 1KB? 1MB? 1GB? 1TB?
 - l. What does URL stand for?
 - m. What would you consider when purchasing a monitor?
 - n. What must be done to a magnetic disk before it can be used? What 3 things are created?

- o. What is the main circuit which allows electronic components to be attached, including expansion slots, memory, and processors?
- p. What makes up a machine instruction?
- q. What is the correct order of the instruction cycle?
- r. Know the differences between the 5 editions of Windows XP.
- s. Know the difference between the 3 types of data representation.
- t. To say that an operating system is 32-bit or 64-bit, what does that refer to?