* Golub
  + 1.  What does the acronym CVS stand for?
    - Concurrent Versioning System
  + 2.  What does IDE stand for?
    - Integrated Development Environment
  + 3.  What IDE will we use in class this semester?
    - Eclipse
  + 4. What does CPU stand for?
    - Central Processing Unit
  + 5. Define the term "bit".
    - A binary value
  + 6. Define the term "byte".
    - 8 bits
  + 7. What is "hardware"?  Name some examples.
    - The physical part of the computer. e.g. motherboard, cpu, ram
  + 8. What is "software"?  Name some examples.
    - The programs e.g. OS, Microsoft word
  + 9. Name several different operating systems.
    - Linux, Unix, Windows, OSX
  + 10. Give some examples of secondary memory devices.
    - USB, CD, Hard disk,
  + 11. What is the advantage of primary memory over secondary?
    - Faster
  + 12. What is the advantage of secondary memory over primary?
    - Permanent
  + 13. What does I/O stand for?  Give some examples of I/O devices.
    - Input/Output – keyboard, mouse, turnoff button
  + 14. How many different combinations of 0's and 1's can be represented using 7 bits?
    - 128
  + 15. How many bytes are in a kilobyte?  Megabyte?  Gigabyte?
    - 1000/1024 – kilobyte | 10^6 – Megabyte | 10^9 – Gigabyte
  + 16.  Name four things that the operating system does for you.
    - I/O
    - Manages passwords and files
    - Manages memory
    - Process Management
  + 17.  What do you call the language that the CPU uses (0's and 1's represent instructions in this language).
    - Machine Code
  + 18.  How does "assembly language" relate to your answer to the previous question?
    - Allowed names to be given to addresses
  + 19.  Name some higher level languages that were NOT designed for object oriented programming.
    - C, Cobol, Fortran
  + 20.  Name some higher level languages that WERE designed for object oriented programming.
    - Java, C#, C++
  + 21. Translate the number 123 into base 7 representation.
    - 234
  + 22. Translate the binary (base 2) number 1011010 into base 10 representation.
    - 64+16+8+2 = 90
  + 23. Translate the hexidecimal (base 16) number 7F into binary representation.
    - 01111111
  + 24.  When your Java program is compiled, what type of file is created?  (Hint:  It is NOT machine language.)
    - bytecode
  + 25.  What does it mean for someone to say that a Java program is "portable"?
    - Can run any machine with JVM
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  + 1.  When your Java program is compiled, what type of file is created?  (Hint:  It is NOT machine language.)
    - bytecode
  + 2.  What does it mean for someone to say that a Java program is "portable"?
    - The program can run on any machine with JVM
  + 3.  TRUE/FALSE:  Inserting unnecessary spaces and/or blank lines could cause your Java program to malfunction.
    - False
  + 4.   What is the difference between "syntax errors" and "logical errors"?
    - syntax error are typos – logical errors are errors that run but don’t give you the right result
  + 5.   If your program compiles and runs, but behaves incorrectly, are you probably suffering from "syntax" or "logical" errors?
    - logical
  + 6.  If Eclipse flags your code with a red mark and won't let you compile it, are you suffering from "syntax" or "logical" errors?
    - syntax
  + 7.   List the four Java primitive types that can be used to store integer values.
    - byte
    - short
    - int
    - long
  + 8.   How much memory is required to store each of the four types mentioned in the previous question?
    - 1
    - 2
    - 4
    - 8
  + 9.  What advantage do you gain from using one of the types of integer types that requires MORE memory?
    - Wider range of numbers
  + 10.   List the two Java primitive types that can be used to store floating point values.
    - Float
    - double
  + 11.   How much memory is required to store each of the two types mentioned in the previous question?
    - 4 bytes
    - 8 bytes
  + 12.  What advantage do you gain from using one of the floating point types that requires MORE memory?
    - Real numbers
  + 13.  List the two Java types that are used to store values that are not numbers.
    - Char
    - Boolean
  + 14.  Write a statement that declares a variable named counter of type int, and stores the value 182 in the variable.
    - Int counter =182
  + 15.   Write a statement that simultaneously declares three variables of type boolean, named x, y, and z.
    - Boolean x, y, z;
  + 16.  What values can a boolean variable achieve?
    - True or false
  + 17.  Write a java class called "Fred".  Put in a main method.  Have the main method store your age in a variable named age. Then main should print out a line that has your name, followed by your age.  (Use a "string literal" for your name, but use the variable to access your age.)
    - public class Fred {

public static void main(String[] args) {

int age = 22;

String name = “Chinedum”

System.out.println(name+“ ”+age);

}

}

* + 18.   Practice using BOTH styles for Java comments.
  + 19.   Is the following statement valid:     int x = 34.7;
    - NO
  + 20.   Is the following statement valid:     double y = 12;
    - YES
  + 21.   Is the following statement valid:      boolean q = 17 < 25;
    - YES
  + 22.   Evaluate the following Java expression:  9 - 15 \* 6 / 11 + 4
    - 53/11
  + 23.   Evaluate the following Java expression:  75 % 7
    - 5
  + 24.  Never forget that you should not compare two Strings with the == operator.  Suppose you have two String variables, x and y.  Give an expression that can be used to check whether or not the Strings x and y are identical.
    - x.equal(y)
  + 25.  What is "concatenation"?  What operator do you use to concatenate Strings?
    - Joing two strings together. Use +
  + 26.   What is the difference between System.out.print and System.out.println?
    - println moves the cursor to a new line have the output
  + 27.  Suppose you have a String variable called s.  What expression will return the number of characters in the String?
    - s.length()
  + 28. Give examples of "literals" of each of the following types:  String, char, long, int, float, double, boolean.
  + 29.  What "escape sequence" would you use in a String to indicate a "new line"?
    - \n