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CS 210 Winnie Li

Homework 1

1. Computers use binary numbers, because it was more convenient to engineer mechanical devices (computers) responding to an open circuit (zeros and ones), in comparison to a more complicated system using a base-10 system. Using a binary system rather than a base-10 system results in device to being produced easier and more reliably.
2. A) 6 = 110  
   B) 44 = 10100  
   C) 72 = 1001000  
   D) 131 = 10000011
3. A) 100 = 4  
   B) 1011 = 11  
   C) 101010 = 42  
   D) 1001110 = 78
4. An algorithm for baking cookies would consist of preparing the batch, and then baking the batch. I would create unique methods for baking and mixing, so they could be re-used for doubling the output (“batches produced”).
5. There are differences between a .java file and a .class file. A .java file holds the source code for a file/project, and the .class file is the converted .java file in bytecode.
6. ABC / AnnualSalary / sum\_of\_data / 42isTheAnswer / B4.
7. System.out.println(“Hello, world!”);
8. "Quotes"  
   Slashes \//  
   How '"confounding' "\" it is!
9. name age height

Archie 17 5'9"

Betty 17 5'6"

Jughead16 6'

12.

Dear "DoubleSlash" magazine,

Your publication confuses me. Is it

a \\ slash or a //// slash?

Sincerely,

Susan "Suzy" Smith

18. Line 1: Error, no declaration of class to MyProgram.  
 Line 3: Error, missing semicolon at end.  
 Line 4: Error, Capital P in Println. Java is cap-sensitive.

19. Line 2: Error, missing void type declaration.  
 Line 2: Error, S isn’t capitalized in string.  
 Line 4: Error, missing “ within string argument.  
 Line 5: Error, missing end/closing bracket “}”

23.

Inside first method

Inside third method

Inside first method

Inside second method

Inside first method

Inside second method

Inside first method

Inside third method

Inside first method

Inside second method

Inside first method

26.

I am method 1.

I am method 1.

I am method 2.

I am method 3.

I am method 1.

I am method 1.

I am method 2.

I am method 1.

I am method 2.

I am method 3.

I am method 1.