15-110 recitation 01

Recap

- -syllabus, general policies & resources
- -what is an algorithm? math, strings & chars, booleans, types
- -editors v. interpreters
- -print statements & variables

Reminders!

Check1 due Monday!

Problems

algorithms

ProblemSuppose you have quarters, nickels, dimes, and pennies and want to make change for a
certain number of cents, how would you get change in the fewest number of coins? Write
an algorithm (in English, no code necessary) to solve this.

programming basics

Problem

- 1. Modulo cases: 5%3, 3%5
- 2. What is the difference between 20/3, 20//3, and 20%3?
- 3. What is the result of 4^{**} 3?
- 4. Given (x = 1), what will be the value of x after we run (x = x+2)?
- 5. What is the result of float(1)?
- 6. What is the result of bool("False")?
- 7. What is the result of 10 == "10"?
- 8. What is the result of 34 > 34?
- 9. What is the correct way to output "Hello World" from the editor?
- 10. How do you create a variable named x which is assigned the value 5?

Bonus Questions:

What is the difference between == and =?

What are the operators that can be used to compare numbers?