

## CS 112 Intro to Computer Science II

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## Administrative Information

- Class web page

## A bit about programming...

- What do you like about programming?
- What do you want to learn about programming?
- What do you find most challenging with respect to programming?

## Java Review

- What is an algorithm?
- What is a class?
- What is a method?
- What is a variable?
- How do you declare a variable?
- What are the primitive data types in Java?
- How does an int differ from a String?
- How does a String differ from a Person object?
- How do you do input/output in Java?

## Java Review

- What is the precedence of mathematical operators in Java?
- What is a package?
- When do you need to use an import statement?
- What happens to an object if there are no references that point to it?
- What is an if statement and when might you use one?
- What are the three types of loops in Java? When would you use each?
- What is an iterator?
- What is an array?

## Exercises

1. Problem PP2.9 - Write an application that prompts for and reads a double value representing a monetary amount. Then determine the fewest number of each bill and coin needed to represent that amount, starting with the highest (assume that a ten dollar bill is the maximum size needed). For example, if the value entered is 47.63, then the program should print the equivalent amount as: 4 tens, 1 five, 2 ones, 2 quarters, 1dime, 0 nickels, 3 pennies

*Write your algorithm first!*

## Exercises

2. Write an application that prompts the user for an integer representing a number of rows and prints the following pattern:

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