Commenting

• Recall: Two styles for comments
• What is the purpose?
• Where do we put them?
  • At the top of every class
  • Above every method
    • Defines “contract”
    • Pre- and Post-conditions
  • Frequently when declaring a variable
  • Throughout code, in places where clarifications are helpful

• How many comments should we write?
• We will be grading for comments starting with project #4
Floating Point Calculations

Example: FloatingPoints.java
compareDoubles, squareRoot

• What went wrong here?
• Under what circumstances does “roundoff error” occur?
• Why does my calculator appear to be better at this?

How can we “fix” this?
tolerance in our calculation

Pro Tips:
• Don’t use == to compare result of calculation with theoretical result
• Use integers whenever possible (e.g. representing money)
Java Packages

• What’s a package and why is this useful?
• Declaring the package for a class
• Accessing members of other classes
  • Within the current package
  • From a distant package
    • Using “fully-qualified name”
    • Using import
• Import with wildcard
  • Avoid this (naming collisions)
• Java.lang is special
Java Libraries

• What are they and why do we care?
• Where is the documentation?

• Let’s study the API for a couple common classes:
  • String
  • Math