Announcements

- Project #4 has been posted
Java Packages

- What’s a package and why is this useful?
- Identifiers for packages
- Declaring the package for a class
- Accessing other classes from...
  - 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
Break

while(...) {
    ...
    if (...) {
        break;
    }
    ...
}

• Used with loops
• Why might this be “questionable” style?
• What happens with nested loops?
• Are there examples where “break” works well?
while(…) {
    ...
    if (…) {
        continue;
    }
    ...
}

• Used with loops
• Why might this be “questionable” style?
• What happens with nested loops?
• How does this work with for-loops?
• Are there examples where “continue” works well?
Example

BreakContinueExample.java
Runtime Errors

Examples of Runtime Errors

Let’s consider a concrete case:

Example: TriangleAreaCalculator.java

What could go wrong here?

What should be done?
• Error message and terminate?
• Return an “error code”?
• “Throwing an exception”.