Application Design Using Java

Lecture 06

Control flow statements

- Block scope
- if else
 - else part is always optional
 - else groups with the closest if
- Ternary conditional expression (?)
- switch case
 - Fallthrough behavior
 - A case label can be:
 - A constant expression of type char, byte, short, or int
 - An enumerated constant
 - A string literal

Loops

- while
- for
- do
- "for-each"
- break
- continue
- labels

Big Numbers

- BigInteger
- BigDecimal

Bitwise and Boolean operators

- Boolean
 - &&
 - ||
 - |
- Bitwise
 - &
 - |
 - ^
 - ~
- Shift
 - <<
 - >>
 - >>>
- Short circuit vs. non short circuit evaluation

//TODO before next lecture:

- Homework 1 due on Friday, 2/12 at 11:59 pm EST. Must be submitted on Submitty.
- Challenge question:
 - Write a Java expression that swaps the contents of two variables without using a temporary.

To be clear, it has to be a single expression, i.e., of the form "expr;". You may assume variables are whole numbers, and they have already been defined and initialized.

Java puzzler (posted on Submitty Forum)