Midterm 1 review
Format

- Part I (approx. 40% of the exam points)
  - True or False
  - Fill in the blank
  - Short answer
  - Find the errors
- Part II (approx. 60% of the exam points)
  - Write a program
  - Write part of a program (for example, a few methods)
Format

• For the coding questions in part II, you can choose one to not do.

• Syntax is important! There’s not autocorrect when you’re writing code by hand, so check your work carefully!
Stuff to know

- Commenting
- Variables, constants
- Datatypes
- Declare a method with return value
- Declare a method that does not return a value
- Create a scanner object and read from the console
- if statements
- generate a random number (doubles, and ints, and ints in a range)
Stuff to know

- switch statement
- min, max, absolute value
- check if a character is a digit
- String manipulation (trim, concat, etc)
- comparing 2 strings
- string to number and back again
- searching inside of string
- casting of primitive types
Methods

- Passing primitive data types vs. passing arrays
- return and void methods
- overloading methods
- scope of variables
Loops

- For
- while
- do while
- break and continue
- nested loops
Arrays

- arrays as reference type
- creating
- populating
- copying
- looping over arrays
- sorting
- searching (both using a method and linearly)
- java.util.Arrays
Helpful tips!

- Make sure you leave enough time to complete the programming problems!

- PRACTICE WRITING CODE BY HAND – it’s very different when you can’t rely on your IDE at all

- If your code is messy or complex, add in comments so I can tell what’s going on! Naming variables well will help a lot