

CSC 116 – 002 Exam 1 Spring 2005

Review Sheet

This exam will be open book, open notes, but closed neighbor. There will be no sharing of books, notes, calculators, etc. between neighbors during the exam. The exam will last the whole 50 minute period.

Part 1: Vocabulary (20 points)

There are 10 problems in this section. You will be given the definition and you are required to provide the vocabulary word. Study your notes. Make sure that you understand what different Java keywords mean.

Part 2: Primitive Data Types (20 points)

There are 9 different things you have to answer. You will have to write some code snippets.

What are the primitive data types that we covered in class? (Lecture 2)

Know how to perform arithmetic operations on numbers.

Know the difference between integer division and real number division.

Understand the modulo operator.

How do you declare an integer variable? Double variable?

Know how to write expressions using variable names.

Know how to assign values and the results of expressions to a variable.

Boolean math.

Part 3: Strings (10 points)

There are 4 different things you have to answer. Make sure to read all the directions here. You will have to write some code snippets.

How do you compare two strings?

How is comparing strings different than comparing numbers?

What are the different string methods that we covered in class?

How do we use these different string methods?

Part 4: Classes (30 points)

You will be writing a class for this section. You will create instance variables, a constructor, write two methods, and create two objects and manipulate them in the main method. The class will be mostly outlined for you with comments giving directions on the different parts of the class that you will need to write.

How do you declare an instance variable?

What is a constructor?

What is a default constructor?

What is a method?

What are parameters?

What is the return value of a method?

How do you create an object (what keyword do you use)?

How do you call a method on an object?

What is the difference between public and private variable/methods?

Should instance variables be public or private?

Part 5: Loops (20 points)

Know how to write while, for, and nested loops. Make sure to properly prime your variables.

Why do you use loops?

What is the difference between a while and a do-while loop?

What are for loops best for?

What are some errors that can happen with loops?

Practice writing loops with various forms of output. Test them in a computer lab to see if they work. Make sure to practice nested loops.