Intro to Computer Acc Name: Ruhika Chatterjee

Built-In Types Test Date: 9/23/16

1. Give an example of an explicit type conversion instruction.

float num1 = 34.5765f;

int num2 = **Math.round(num1);**

System.out.println (num2 + " is an integer");

1. Give an example of an automatic type conversion instruction.

**long bigNum = 345678924;**

System.out.println (bigNum + " is a long integer");

1. Give an example of an explicit cast instruction.

int integralPart = **(int) 71.67;** // (int) is  casting operator

System.out.println (integralPart + " is the integral part of 71.67");

1. Give an example of an automatic conversion for strings.

System.out.println **("There is automatic conversion here " + 2 + 3**);

1. Write a statement to generate random numbers from 0 to 100.

double random = Math.random () \* 100

1. Write the statement to calculate the square root of a number x.

double squareRoot = Math.sqrt (x)

1. Write a program that reads in 3 command line arguments num1, num2 and num3 and finds the max and the min of 3 the integers.

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\* Prints maximum and minimum of 3 user inputted numbers.

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\* 9/23/16

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\* Sample Input: {“15.2”,”12”,”37”}

\* Sample Output:

\* The maximum of 15.2, 12, and 37 is: 37

\* The minimum of 15.2, 12, and 37 is: 12

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double num1 = Double.parseDouble (args[0])

double num2 = Double.parseDouble (args[1])

double num3 = Double.parseDouble (args[2])

double maxi = Math.max (num1, num2)

maxi = Math.max (maxi, num3)

double mini = Math.min (num1, num2)

mini = Math.min (mini, num3)

System.out.println (“The maximum of “+num1+”, ”+num2+ “, and “+num3“ is: “ + maxi)

System.out.println (“The minimum of “+num1+”, ”+num2+ “, and “+num3+“ is: “+ mini)