

CSCE 155 – Lab: Functions

Worksheet – Java Version

Name _____

1. Complete the table below using 3 methods (an example has been provided) that you've used prior to this lab:

Function Name	Parameter data types	Return value data type
Math.pow	(double, double)	double

2. Use 'OrderStatistic.java' to answer the following questions:
 - a. Identify all of the user-defined methods in the program along with the functions' return types and the number of parameters they accept.
 - b. Among the methods main, strToIntArray, insertionSort, and getOrderStatistic: identify which methods calls which other methods(s).
 - c. To compute the minimum element you would ask for the first element ($i = 1$). What arguments would you need to provide to generate the second smallest element? The maximum element? The median element?

3. Assume you had written the force method like `getForce(double distance, double time, double initialDistance, double mass){ return mass * getAcceleration(distance, initialDistance, time);}`. Compare the two different methods of writing this function (i.e., is one better for reusability? Readability? Why?).

Lab Instructor Signature _____