CSCE 155 – Lab: Functions

Worksheet – C Version

Name ______________________________

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

<table>
<thead>
<tr>
<th>Function Name</th>
<th>Parameter data types</th>
<th>Return value data type</th>
</tr>
</thead>
<tbody>
<tr>
<td>pow</td>
<td>(double, double)</td>
<td>double</td>
</tr>
</tbody>
</table>

2. Use ‘orderStatistic.c’ to answer the following questions:
   a. Identify all of the user-defined functions in the program along with the functions’ return types and the number of parameters they accept.

   b. Among the functions main, strToIntArray, insertionSort, and getOrderStatistic: identify which function calls which other function(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 function 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____________________________________