Programming Exercises – Reference Parameters and Basic Arrays

1. Write a function (using reference parameters) that calculates the roots of a quadratic function (feel free to use cmath for square roots and powers).
2. Write a function that puts random values into an array of integers, then another function that sorts the values from lowest to highest and finally outputs them in order. There are many methods of sorting, but they're all pretty simple. If you're stuck, look up "bubble sort," "selection sort," or "insertion sort."
3. Write a program to input a c-style string and output it backwards, character by character, encoded with a code-wheel type thing (each character is offset), or anything else you can think of.