CS 100J – Section 2
LAB
Sorting Techniques

Add sorting functionality to pre-existing classes Person and Temperature

Directions:

1. **Examine TrivialSort.java for an easy example to sorting.**
2. **Examine the Person.java and Temperature.java files. Notice the unimplemented compare method.**
3. **Examine PersonSort.java to see a skeleton driver class for the sort rountine. Note that the sort method is unimplemented.**
4. **Implement the compare methods of Person and Temperature.**
5. **Implement the sort method of PersonSort using any sorting technique you want.**
6. **Adapt the code you wrote for the PersonSort to work for Temperatures (call the new file TemperatureSort.java).**

Easy Sorting Technique:

Selection-Sort: $O(n^2)$

This method works by going through a list of n elements, n times. Each time, starting at the first element and running through the n-1th element, exchange the ith and the i+1th element if the i+1th element is of greater value than the ith. See TrivialSort.java for an implementation.

7	5	2	0	9
5	7	2	0	9
5	2	7	0	9
5	2	0	7	9

You can use other sorting techniques if you wish.