

## CPS 104 Extra Credit Homework:

**Due: Wednesday, October 26, 11:59pm.**

Write a **MIPS** assembler program that sorts 475 numbers. The numbers are pre-stored in memory.

Use “**bubble sort**” to sort the numbers in place. You should print the smallest, the 100th number in the sorted list, and the largest number. You are given a C++ program to use as a reference. Your assembler program should produce the same results as the C++ program. Please note! Try and compile the C++ program on your machine. If you need to, you should translate the C++ program to Java. The main differences between Java and C++ in the I/O statements.

You are also given a file with MIPS assembler directives that pre-store the unsorted list of numbers in memory. Make that file part of your assembler program.

*Comment* your program so we could grade it. Submit your program to the directory

**HWX1:**