

[Programming Assignment#2] – 20pts

For the following programming assignment, - Screen capture of your final codes using VI editor. - Screen capture of compilation, execution and command line results.

Write a multithreaded program that calculates various statistical values for a list of numbers. This program will receive an input by a series of numbers on the command line and will then create three separate worker threads. One thread will determine the average of the numbers, the second will determine the maximum value, and the third will determine the minimum value. For example, suppose your program is passed the integers

90 81 78 95 79 72 85

The program will report

The average value is 82

The minimum value is 72

The maximum value is 95

The variables representing the average, minimum, and maximum values will be stored globally. The worker threads will set these values, and the parent thread will output the values once the workers have exited.

1. Due: **April 16th** via Cyber campus. Regardless of reason, late submissions will be degraded at least **50%**.
2. Copied (from other students, Internet, solutions, textbook)/unnamed submissions will result in 0 points.
3. Please submit the source code and a word/hwp/pdf file that includes screen captures your command-line results.