

Write a multithreaded program that calculates various statistical values for a list of numbers. This program will accept a series of numbers from the keyboard 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 accepted 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.