

- A. The goal of the problem is to identify the total time it takes to do certain tasks such as finding out the total time it takes to insert the values from the list in sorted order. Then it enables us to think and design the program in such a way that it is efficient. Which takes less time to complete a task.
- B. To find min, just took the first element in the list. Since my list is already sorted from the smaller number to big. Thus finding the min value wasn't that complicated. To find the max, I had to use while loop because I had to go at the end of the list in order to find the max. To find med, I had to find the total size of the list then used for loops to loop through the list halfway through since I am finding the middle value.
- C. When running the program, I was using macOS High Sierra - Version 10.13.6. At the time of running this program, I had opened multiple heavy software and was running low on battery. At the time of this machine was used, the temperature was all-time high on this machine.

Name: MacBook Pro (Retina, 15-inch, Mid 2015)

Processor: 2.5 GHz Intel Core i7

Memory: 16 GB 1600 MHz DDR3

Startup Disk: Macintosh HD

Graphics: AMD Radeon R9 M370x 2048 MB

Used jGRASP version 2.0.5\_04 Beta as my editor.

I tried doing this experiment at least 4 times and still get a similar result.

- D. The file "input1.txt" is faster than the file "input2.txt" to process and get the result out. I tried twice to run the file but my computer takes forever to run the program. I think It's because of the size of the file and also because of the design of my algorithm to find this result. Thus, I think I can improve on how I made my program do one task multiple times. Such as going through the list multiple times whereas I could just go through the list and calculate the required result at once.