PFII Lab 2: Maximum Subsequence Sum

In this lab I learned more about pointer application when calling to an int array for the functions. I also reviewed C++ syntax through the example unit testing and nested for loops. Something that I learned unexpectedly was the importance of variable placement and timing errors when loops cascade like they did in this lab. The biggest example of this was in algo2MSS in which my prevSum variable was initially placed within the 2nd for loop, meaning it was not resetting for each start point within the array.

|  |  |  |
| --- | --- | --- |
| **n** | **Alg 1** | **Alg 2** |
| 1000 | 326 | 9 |
| 10,000 | 316522 | 866 |
| 100,000 | 307319560 | 84840 |
| 1,000,000 | *3.0732E+11*\* | *8484000*\* |

\*: estimated using formula t(103) for Alg 1 where t= clock ticks of previous n