Assignment #5 CL Arguments and Threads

This assignment will require students to use command line arguments. Students will utilize a number of threads to sum a number of integers. Each thread will sum the elements given to them, before the sums from the threads are totaled. Your program should:

* Accept two arguments from the command line
  + First argument is the number of threads to create (20%)
  + Second argument file that contains a list of integers (20%)
    - The first element in the list is the number of preceding elements.
    - In example, 5 10 20 30 40 50 would be a list of 5 elements with values 10 – 50.
* Each thread will sum its portion of the list. This will be done globally. So if we have 5 elements and two threads, one thread will sum two elements and one will sum 3. Then the thread sums are totaled. **(25%)**
* Display the total sum, utilizing both the standard display, as well as output.txt. **(35%)**

If youtput.txt does not exist, then yourapplication should create it. If it does exist, then the file should be truncated and overwritten. (Recall from Assignment #3 that the argument -o allows the output to be directed to output.txt AND the monitor.

Save the program file as 5.cpp. Each of the bullets are worth the listed percentage. For example, if you cannot display the total sum, you will lose at least 35% of the total points.  
  
**Due date: Tuesday, October 3rd, 11:59 PM**