Project Euler #13 - Large Sum (Modified)

Submit Assignment

Due Monday by 6pm **Points** 100 **Submitting** a file upload **File Types** zip

Complete Project Euler #13. However, we will make the following modifications to the problem:

- Read all the large numbers from a file called "input.txt" which will be placed in the same directory as the source. We will use additional test cases with different numbers to test your algorithm.

- You may assume the file exists. Though error checking is nice, we will not require it.

- There will be anywhere from 0 to 200 non-negative integers in the file, each on a separate line.

- The integers will have anywhere from 1 to 50 digits.

- The assignment must be done in Java/C/C++/Python/JavaScript. Name the file LargeSum.java/largesum.c/largesum.cpp/largesum.py/largesum.js.

- Do **not** use BigInteger-like builtins. Do **all** the work yourself.

There should be exactly two lines of output from your program. Capitalization and spaces must be followed closely. See below:

Full sum: 12385612345768294756289478562874589234783 62
First 10 digits: 1238561234

If the sum is too small to contain 10 digits, print out as many digits as there are. In that case the full sum and first 10 digits will yield the same number.

Submit a zip file containing:

- Your source code. If you are using JavaScript, also submit directions on how to run your program.
- Text files containing the test cases you created and tried. Writing ten well-made cases is sufficient. Make sure the test cases show the input and expected output. We want input1.txt through input10.txt as well as the matching output1.txt through output10.txt

Make sure the name of every member of the team is in the source code and in the comments section on Canvas. Only one submission per team is required. Don't forget the Stevens pledge.

Large Sum Rubric

Criteria	Ratings	Pts
Program		70.0 pts
Name		5.0 pts
Pledge		5.0 pts
Comments		5.0 pts
Test Cases		15.0 pts
		Total Points: 100.0