

**Big Int**  
**Addition (30pts) Multiplication (40 pts)**  
**due: March 25, 2014 11:59pm**

**Important Notes**

- Submission command: `submit -c 246 -p 6 -d YourDirectory`
- **This assignment is to be done on your own.** If you need help, see the instructor or TA.
- Please start the assignment as soon as possible and get your questions answered early.
- Read through this specification completely before you start.
- Some aspects of this specification are subject to change, in response to issues detected by students or the course staff.

In this program you will simulate very large integers with strings and calculate the addition and multiplication given two strings. You should have at least the following functions, but probably more:

- A function that takes two strings representing two big integers for addition. That is, the parameters for two big integers are of the form `char *x`, `char *y`.
- A function that takes two strings representing two big integers for multiplication. The parameters for two big integers are same as the previous function.
- A function that prints out a big integer represented by a string.

Provide a prototype for each function. You may have more parameters than specified above. Hard-code the following test cases. For each test case, print out the results of addition and multiplication of the two integers:

1. 99 and 98
2. 123456789 and 9
3. 123456789 and 123456789

Make sure to use pointer notation to address the characters whenever possible.