

HW1: Calculator of Great Numbers

Description

In this homework, you have to implement a calculator which can handle the addition, subtraction, multiplication and division of great numbers(1).

(1)Great Number: It means that this kind of number can't put into the single variable, such as long long double, etc.

[Hint]: You can try to use the array to help you.

Requirement

1. You must **use the class** to implement this homework.
2. You have to **read in the test file**(ex. test.txt) as your input.
3. You have to use **operator overloading** to implement addition, subtraction, multiplication, and division.
4. All of the testing expressions simply consist of one operator and two operands

Input

Read in the test.txt as your input

Output

Show the whole expression and the corresponding answer.

Sample Input
222222222222222222222222 + 111111111111111111111111
222222222222222222222222 - 111111111111111111111111
222222222222222222222222 * (-111111111111111111111111)
222222222222222222222222 / (-111111111111111111111111)

Sample Output
$222222222222222222222222 + 111111111111111111111111 =$
333333333333333333333333333333
$222222222222222222222222 - 111111111111111111111111 =$
111111111111111111111111111111
$222222222222222222222222 * (-111111111111111111111111) =$
-2469135802469135802469135308641975308641975308642
$222222222222222222222222 / (-111111111111111111111111) = -2$

Sample Output
$222222222222222222222222 + 111111111111111111111111 =$
333333333333333333333333
$222222222222222222222222 - 111111111111111111111111 =$
111111111111111111111111
$222222222222222222222222 * (-111111111111111111111111) =$
$-2469135802469135802469135308641975308641975308642$
$222222222222222222222222 / (-111111111111111111111111) = -2$

Attention

There is now a software on e3 which helps TAs to know the differences between your codes. So please **DO NOT Plagiarize**, or we'll easy to find out, and you'll get **ZERO point** on this homework.