## **BIG Integers**

In C++ an int has value in the range 0 to 65535. But what if we need to add larger integers? Say we want compute the sum 2345566777844567+ 9999988777765768009998. Your task in this assignment is to create a class that can make this happen.

## Part 1.

Create a Big Integer class where the integers are internally represented as c-strings. You class should have the following:

- the appropriate constructors (default, conversion (from c-strings and int), and copy),
- a destructor
- assignment operator
- arithmetic operators (+,-,\*)

as well as appropriate input and output operations.

## Part 2.

Modify "Part 1" so that:

- You implement division (/) as well as +,-,and \*
- Your Big Integer gets the memory for its internal c-string representation from a memory pool that implements the boundary tag method that we went over in class.
- You need to add operator new(...) and operator delete(...) for your class. These implement allocate and free from boundary tag.