

Computer Programming

Section G, Spring 2018

Assignment 3

Due Date: Saturday March 31, 2018

Huge Integers

Design a class that can handle arbitrarily large integers (using strings) that otherwise do not fit in a primitive type. A string will be treated as an integer if it contains all numeric type characters only. A sign indicating positive or negative integer may precede the string e.g. “-123456789009876543210”. Provide support for basic arithmetic and relational operations (using operator overloading) that include:

- addition
- subtraction
- multiplication
- division
- equals
- less than
- greater than

Matrix

Design a class that can represent matrices of any order and support following operations using operator overloading:

- addition
- subtraction
- multiplication
- equals