

Algorithms - BigIntegers

Course: CPSC 1150
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Lecture 23

Adding Big Integers

Write a structured program that accepts two integer numbers up to 40 digits and perform the followings:

1. Add the two numbers and display the result. For example,
 - If the first input is **236598745632** and the second input is **2453254365546764765**, your program must calculate **2453254602145510397**
- You must read the two input numbers as string objects.
- You may assume that your inputs are valid strings and your program only works for positive integer numbers.
- You **cannot** use any of **BigDecimal** / **BigInteger** / **double** / **long** / **int** types for your calculations.

Adding Big Numbers

2. The result number should be separated by commas.
For example

If inputs are:

- Number1: 236598745632
- Number2: 2453254365546764765

The output should be:

$$\begin{array}{r} 236,598,745,632 + \\ 2,453,254,365,546,764,765 \\ \hline 2,453,254,602,145,510,397 \end{array}$$