BigInt

Integers of Arbitrary Length

PROBLEM

The maximum limit of Unsigned Long Long Int in C/C++ is 18446744073709551615, a 20 digit number. While languages like Java support classes of BigIntegers (100 digit numbers). C by default has no such support. This project aims to bring that support to the C language along with basic arithmetic operations like Comparison, Addition, Subtraction and Multiplication along with applications such as Factorial, Fibonacci etc.

SOLUTION

Declare character arrays which are the data structure to be used to represent BigInt and initialize elements to 0.

We know that arrays/strings can store upto 10^7 items, so if we store each digit of our number into each of the memory locations then we will able to store 10^7 digits. (which is quite big as compared to just 19 digits.)



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Declare and Initialize BigInt

Write a
Comparator
Function

Implement Basic
Arithmetic
functions on Big
Integers

Implement functions using Big Integers (Applications)

DEMO



