IMPLEMENTATION DETAILS

C language is used to implement addition and subtraction of integers bigger than limits of inbuilt size of integers.

A struct big\_int is used to store the integer.

Elements of big\_int:

* string of length 100 characters used to input the integer
* array of integers. Each element is used to store 5 digits of the number.
* A character storing sign of the integer.

Functions used:

* Create\_big\_int : takes string as input and then convert it to store in array of integers.

Each element of array contains five digits of the number. Blocks of Five characters are read from string and stored in ine element of integer array

It will return invalid number if non-numeric character is inputes except the ‘-’ character for negative numbers.

* Print\_value : takes integer struct as parameter and print the value stored.
* add : takes two big\_int as parameter and return a big\_int pointer containing the summation of both the int.

Each element of array of first integer is added to corresponding emelents of second integer.

Carry is propogated if any.

Subtraction function is used internally if sign integers are different otherwise added directly.

* Subtract : takes two integers as parameter and return a big\_int pointer conataining the difference (first parameter – second parameter).

Add function is used internally to subtract integers having different sign otherwise subtracted element by element propogating borrow accordingly.