**INTRODUCTION**

Develop a program that implements arithmetic with large integers, of arbitrary size. Negative numbers are not handled. Implement the operations :

-> StrToNum, NumToStr, Add, Subtract, Multiply, Power.

**SUMMARY**

* Given problem is solved using the Linked list of integers, where the digits are in base B. Each node of the list stores exactly one integer.
* Base B = 10.
* The project adheres to the input & output specifications provided in the requirements.

**DEVELOPMENT PLATFORM**

* Operating System : Linux Ubuntu (64-bit).
* RAM & Processor : 4 GB, Intel Core I3.
* java version "1.7.0\_65"
* OpenJDK Runtime Environment (IcedTea 2.5.2) (7u65-2.5.2-3~14.04)
* OpenJDK 64-Bit Server VM (build 24.65-b04, mixed mode)

**TEST RESULTS**

Sample Input 1:

1. x=999

2. y=8

3. z=x+y

4. z

5. a=x^y

6. a

Output:

1007

992027944069944027992001

Sample Input 2:

1. x=10

2. p=1

3. n=1

4. p=p\*x

5. x=x-n

6. x?4

7. p

Output:

3628800

Sample input 3:

1. a=90569784495866770974195656280275310090138980613960953881501965823101

2. b=75040970647524038461398929683905540248523961720824412136973299943953

3. c=a-b

4. c

5. c=b-a

6. c

Output:

15528813848342732512796726596369769841615018893136541744528665879148

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