

Cstring.java

-----Basic-----

a = b

b = 7

c = 12345678901234567890123456789012345678901234567890

d = 12345678901234567890123456789012345678901234567890

e = A quick brown fox jumped over a lazy dog

f = Gateman sees name garageman sees nametag

f' = gateman sees namegarag eman sees nametaG

-----Addition-----

a = UCSC

b = Extension

c = UCSCExtension

d = UCSCExtensionUSA

a+b = UCSCExtension

a+b+World = UCSCExtensionWorld

-----Equal-----

a = 12345678901234567890123456789012345678901234567890

b = 12345678901234567890123456789012345678901234567890

c = 1234567890123456789012345678901234567890123456789

Done

BigNumberTester.java

-----Basic-----

a = 789

b = 7

c = 12345678901234567890123456789012345678901234567890

d = 12345678901234567890123456789012345678901234567890

-----Addition-----

a = 9789

b = 100000

a + b = c = 109789

a = a + b = 109789

d = 3490529510847650949147849619903898133417764638493387843990820577

e = 32769132993266709549961988190834461413177642967992942539798288533

f = 36259662504114360499109837810738359546595407606486330383789109110

-----subtraction-----

----- 5992 - 5994 -----

a = 5992

b = 5994

c = -2

----- 69 - 69 -----

a = 69

b = 69

c = 0

----- 69 - 0 -----

a = 69

b = 0

c = 69

----- 0 - 69 -----

a = 0

b = 69

c = -69

----- 85 - 69 -----

a = 85

b = 69

c = 16

----- 69 - 85 -----

a = 69

$$b = 85$$

$$c = -16$$

$$\text{----- } 92 - 8 \text{ -----}$$

$$a = 92$$

$$b = 8$$

$$c = 84$$

$$\text{----- } 8 - 92 \text{ -----}$$

$$a = 8$$

$$b = 92$$

$$c = -84$$

$$\text{----- } 739268 - 268495 \text{ -----}$$

$$a = 739268$$

$$b = 268495$$

$$c = 470773$$

$$\text{----- } 29649 - 739260 \text{ -----}$$

$$a = 29649$$

$$b = 739260$$

$$c = -709611$$

$$\text{----- } 31916 - 7503 \text{ -----}$$

$$a = 31916$$

$$b = 7503$$

$$c = 24413$$

$$\text{----- } 20452 - 16367 \text{ -----}$$

$$a = 20452$$

$$b = 16367$$

$$c = 4085$$

$$\text{----- } 16367 - 20452 \text{ -----}$$

$$a = 16367$$

$$b = 20452$$

$$c = -4085$$

$$\text{----- } 20569 - 19996 \text{ -----}$$

$$a = 20569$$

$$b = 19996$$

$$c = 573$$

$$\text{----- } 19996 - 20569 \text{ -----}$$

$$a = 19996$$

$$b = 20569$$

c = -573

----- RSA -----

a = 3490529510847650949147849619903898133417764638493387843990820577

b = 32769132993266709549961988190834461413177642967992942539798288533

c = -29278603482419058600814138570930563279759878329499554695807467956

----- RSA -----

a = 32769132993266709549961988190834461413177642967992942539798288533

b = 3490529510847650949147849619903898133417764638493387843990820577

c = 29278603482419058600814138570930563279759878329499554695807467956

----- RSA -----

a = 0

b = 32769132993266709549961988190834461413177642967992942539798288533

c = -32769132993266709549961988190834461413177642967992942539798288533

----- RSA -----

a = 3490529510847650949147849619903898133417764638493387843990820577

b = 3490529510847650949147849619903898133417764638493387843990820577

c = 0

----- RSA -----

a = 1

b = 3490529510847650949147849619903898133417764638493387843990820577

c = -3490529510847650949147849619903898133417764638493387843990820576

-----mult-----

a = 9789

zero = 0

one = 1

b = a\*0 =

c = 0\*a =

d = a\*1 = 9789

e = 1\*a =9789

a = 9789

b = 9

c = 88101

d = 88101

a = 18379

b = 14180

c = 260614220

d = 260614220

a = 23697

b = 2688

c = 63697536

d = 63697536

a = 19137

b = 26732

c = 511570284

d = 511570284

a = 12925

b = 5367

c = 69368475

d = 69368475

a = 3490529510847650949147849619903898133417764638493387843990820577

b = 32769132993266709549961988190834461413177642967992942539798288533

c =

1143816257578888676692357799761466120102182967212423625625618429357069352

45733897830597123563958705058989075147599290026879543541

d =

1143816257578888676692357799761466120102182967212423625625618429357069352

45733897830597123563958705058989075147599290026879543541

Number of digits in a b and d = 64 65 129

-----random-----

Random addition and multiplication on 1000 numbers passed

-----Factorial-----

a =

9332621544394415268169923885626670049071596826438162146859296389521759999

3229915608941463976156518286253697920827223758251185210916864000000000000

000000000000

!100 =

9332621544394415268169923885626670049071596826438162146859296389521759999

3229915608941463976156518286253697920827223758251185210916864000000000000

000000000000

Number of digits in !100 = 158

Run time for !1000 = 0.112149968 secs

Number of digits in !1000 = 2568

!1000 =

4023872600770937735437024339230039857193748642107146325437999104299385123

9862902059204420848696940480047998861019719605863166687299480855890132382  
9669944590997424504087073759918823627727188732519779505950995276120874975  
4624970436014182780946464962910563938874378864873371191810458257836478499  
7701247663288983595573543251318532395846307555740911426241747434934755342  
8646576611667797396668820291207379143853719588249808126867838374559731746  
1360853795345242215865932019280908782973084313928444032812315586110369768  
0135730421616874760967587134831202547858932076716913244842623613141250878  
0208000261683151027341827977704784635868170164365024153691398281264810213  
0927612448963599287051149649754199093422215668325720808213331861168115536  
1583654698404670897560290095053761647584772842188967964624494516076535340  
8198901385442487984959953319101723355556602139450399736280750137837615307  
1277619268490343526252000158885351473316117021039681759215109077880193931  
7811419454525722386554146106289218796022383897147608850627686296714667469  
7562911234082439208160153780889893964518263243671616762179168909779911903  
7540312746222899880051954444142820121873617459926429565817466283029555702  
9902432415318161721046583203678690611726015878352075151628422554026517048  
3304226143974286933061690897968482590125458327168226458066526769958652682  
2728070757813918581788896522081643483448259932660433676601769996128318607  
8838615027946595513115655203609398818061213855860030143569452722420634463  
1797460594682573103790084024432438465657245014402821885252470935190620929  
0231364932734975655139587205596542287497740114133469627154228458623773875  
3823048386568897646192738381490014076731044664025989949022222176590433990  
1886018566526485061799702356193897017860040811889729918311021171229845901  
6419210688843871218556461249607987229085192968193723886426148396573822911  
2312502418664935314397013742853192664987533721894069428143411852015801412  
3344828015051399694290153483077644569099073152433278288269864602789864321  
1390835062170950025973898635542771967428222487575867657523442202075736305  
6949882508796892816275384886339690995982628095612145099487170124451646126  
0379029309120889086942028510640182154399457156805941872748998094254742173  
5824010636774045957417851608292301353580818400969963725242305608559037006  
242712434169090041536901059339838357779394109700277534720000000000000000  
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b =

4023872600770937735437024339230039857193748642107146325437999104299385123

9862902059204420848696940480047998861019719605863166687299480855890132382  
9669944590997424504087073759918823627727188732519779505950995276120874975  
4624970436014182780946464962910563938874378864873371191810458257836478499  
7701247663288983595573543251318532395846307555740911426241747434934755342  
8646576611667797396668820291207379143853719588249808126867838374559731746  
1360853795345242215865932019280908782973084313928444032812315586110369768  
0135730421616874760967587134831202547858932076716913244842623613141250878  
0208000261683151027341827977704784635868170164365024153691398281264810213  
0927612448963599287051149649754199093422215668325720808213331861168115536  
1583654698404670897560290095053761647584772842188967964624494516076535340  
8198901385442487984959953319101723355556602139450399736280750137837615307  
1277619268490343526252000158885351473316117021039681759215109077880193931  
7811419454525722386554146106289218796022383897147608850627686296714667469  
7562911234082439208160153780889893964518263243671616762179168909779911903  
7540312746222899880051954444142820121873617459926429565817466283029555702  
9902432415318161721046583203678690611726015878352075151628422554026517048  
3304226143974286933061690897968482590125458327168226458066526769958652682  
2728070757813918581788896522081643483448259932660433676601769996128318607  
8838615027946595513115655203609398818061213855860030143569452722420634463  
1797460594682573103790084024432438465657245014402821885252470935190620929  
0231364932734975655139587205596542287497740114133469627154228458623773875  
382304838656889764619273838149001407673104466402598994902222176590433990  
1886018566526485061799702356193897017860040811889729918311021171229845901  
6419210688843871218556461249607987229085192968193723886426148396573822911  
2312502418664935314397013742853192664987533721894069428143411852015801412  
3344828015051399694290153483077644569099073152433278288269864602789864321  
1390835062170950025973898635542771967428222487575867657523442202075736305  
6949882508796892816275384886339690995982628095612145099487170124451646126  
0379029309120889086942028510640182154399457156805941872748998094254742173  
5824010636774045957417851608292301353580818400969963725242305608559037006  
242712434169090041536901059339838357779394109700277534720000000000000000  
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Done