Cstring.java

-----------Basic----------------

a = b

b = 7

c = 123456789012345678901234567890123456789012345678901234567890

d = 123456789012345678901234567890123456789012345678901234567890

e = A quick brown fox junped 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 = 123456789012345678901234567890123456789012345678901234567890

b = 123456789012345678901234567890123456789012345678901234567890

c = 12345678901234567890123456789012345678901234567890123456789

Done

BigNumberTester.java

-----------Basic----------------

a = 789

b = 7

c = 123456789012345678901234567890123456789012345678901234567890

d = 123456789012345678901234567890123456789012345678901234567890

-----------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

-------------------- 92 - 8 -------------------

a = 92

b = 8

c = 84

-------------------- 8 - 92 -------------------

a = 8

b = 92

c = -84

-------------------- 739268 - 268495 -------------------

a = 739268

b = 268495

c = 470773

-------------------- 29649 - 739260 -------------------

a = 29649

b = 739260

c = -709611

-------------------- 31916 - 7503 -------------------

a = 31916

b = 7503

c = 24413

-------------------- 20452 - 16367 -------------------

a = 20452

b = 16367

c = 4085

-------------------- 16367 - 20452 -------------------

a = 16367

b = 20452

c = -4085

-------------------- 20569 - 19996 -------------------

a = 20569

b = 19996

c = 573

-------------------- 19996 - 20569 -------------------

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 = 114381625757888867669235779976146612010218296721242362562561842935706935245733897830597123563958705058989075147599290026879543541

d = 114381625757888867669235779976146612010218296721242362562561842935706935245733897830597123563958705058989075147599290026879543541

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

-----------random----------------

Random addition and multiplication on 1000 numbers passed

-----------Factorial----------------

a = 93326215443944152681699238856266700490715968264381621468592963895217599993229915608941463976156518286253697920827223758251185210916864000000000000000000000000

!100 = 93326215443944152681699238856266700490715968264381621468592963895217599993229915608941463976156518286253697920827223758251185210916864000000000000000000000000

Number of digits in !100 = 158

Run time for !1000 = 0.112149968 secs

Number of digits in !1000 = 2568

!1000 = 402387260077093773543702433923003985719374864210714632543799910429938512398629020592044208486969404800479988610197196058631666872994808558901323829669944590997424504087073759918823627727188732519779505950995276120874975462497043601418278094646496291056393887437886487337119181045825783647849977012476632889835955735432513185323958463075557409114262417474349347553428646576611667797396668820291207379143853719588249808126867838374559731746136085379534524221586593201928090878297308431392844403281231558611036976801357304216168747609675871348312025478589320767169132448426236131412508780208000261683151027341827977704784635868170164365024153691398281264810213092761244896359928705114964975419909342221566832572080821333186116811553615836546984046708975602900950537616475847728421889679646244945160765353408198901385442487984959953319101723355556602139450399736280750137837615307127761926849034352625200015888535147331611702103968175921510907788019393178114194545257223865541461062892187960223838971476088506276862967146674697562911234082439208160153780889893964518263243671616762179168909779911903754031274622289988005195444414282012187361745992642956581746628302955570299024324153181617210465832036786906117260158783520751516284225540265170483304226143974286933061690897968482590125458327168226458066526769958652682272807075781391858178889652208164348344825993266043367660176999612831860788386150279465955131156552036093988180612138558600301435694527224206344631797460594682573103790084024432438465657245014402821885252470935190620929023136493273497565513958720559654228749774011413346962715422845862377387538230483865688976461927383814900140767310446640259899490222221765904339901886018566526485061799702356193897017860040811889729918311021171229845901641921068884387121855646124960798722908519296819372388642614839657382291123125024186649353143970137428531926649875337218940694281434118520158014123344828015051399694290153483077644569099073152433278288269864602789864321139083506217095002597389863554277196742822248757586765752344220207573630569498825087968928162753848863396909959826280956121450994871701244516461260379029309120889086942028510640182154399457156805941872748998094254742173582401063677404595741785160829230135358081840096996372524230560855903700624271243416909004153690105933983835777939410970027753472000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

b = 402387260077093773543702433923003985719374864210714632543799910429938512398629020592044208486969404800479988610197196058631666872994808558901323829669944590997424504087073759918823627727188732519779505950995276120874975462497043601418278094646496291056393887437886487337119181045825783647849977012476632889835955735432513185323958463075557409114262417474349347553428646576611667797396668820291207379143853719588249808126867838374559731746136085379534524221586593201928090878297308431392844403281231558611036976801357304216168747609675871348312025478589320767169132448426236131412508780208000261683151027341827977704784635868170164365024153691398281264810213092761244896359928705114964975419909342221566832572080821333186116811553615836546984046708975602900950537616475847728421889679646244945160765353408198901385442487984959953319101723355556602139450399736280750137837615307127761926849034352625200015888535147331611702103968175921510907788019393178114194545257223865541461062892187960223838971476088506276862967146674697562911234082439208160153780889893964518263243671616762179168909779911903754031274622289988005195444414282012187361745992642956581746628302955570299024324153181617210465832036786906117260158783520751516284225540265170483304226143974286933061690897968482590125458327168226458066526769958652682272807075781391858178889652208164348344825993266043367660176999612831860788386150279465955131156552036093988180612138558600301435694527224206344631797460594682573103790084024432438465657245014402821885252470935190620929023136493273497565513958720559654228749774011413346962715422845862377387538230483865688976461927383814900140767310446640259899490222221765904339901886018566526485061799702356193897017860040811889729918311021171229845901641921068884387121855646124960798722908519296819372388642614839657382291123125024186649353143970137428531926649875337218940694281434118520158014123344828015051399694290153483077644569099073152433278288269864602789864321139083506217095002597389863554277196742822248757586765752344220207573630569498825087968928162753848863396909959826280956121450994871701244516461260379029309120889086942028510640182154399457156805941872748998094254742173582401063677404595741785160829230135358081840096996372524230560855903700624271243416909004153690105933983835777939410970027753472000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000

Done