READ first number (a)

READ second number (b)

INITIALIZE sum to 0

INITIALIZE x to 0

LOOP WHILE b > 0

{

INITIALIZE carry to 0

INITIALIZE y to 0

INITIALIZE aTemp to a

INITIALIZE res2sum to 0

COMPUTE shiftX as 10^x

COMPUTE bLSB as the remainder of dividing b by 10 //Modulus Operator

LOOP WHILE a > 0

{

COMPUTE shiftY as 10^y

COMPUTE aLSB as the remainder of dividing a by 10 //Modulus Operator

COMPUTE result as aLSB \* bLSB + carry

IF result > 9 THEN

COMPUTE carry as result / 10 //Integer Math (No remainder)

COMPUTE result as the remainder of dividing result by 10 //Modulus Operator

ELSE

SET carry to 0

ENDIF

COMPUTE aTemp as aTemp / 10 //Integer Math (No remainder)

COMPUTE res2sum as res2sum + (result \* shiftY)

INCREMENT y by 1

}

ENDWHILE

COMPUTE res2sum as res2sum + (carry \* shiftY \* 10)

COMPUTE sum as sum + res2sum \* shiftX

COMPUTE b as b / 10 //Integer Math (No remainder)

INCREMENT x by 1

}

ENDWHILE

//sum will contain the result of multiplying a \* b