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// Name: Justin Shaw
// Class: CS 5040
// Term: Summer 2019
// Instructor: Dr. Haddad
// Assignment: 1
// IDE: Atom

// calculate value of  $x^n$ 
METHOD CalculateExpression
BEGIN
    READ BaseValue           // read and store user inputted x in  $x^n$ 
    READ ExponentValue       // read and store user inputted n in  $x^n$ 
    Product  $\leftarrow$  1

    // multiply BaseValue times itself for ExponentValue times
    WHILE (ExponentValue > 0)
        Product  $\leftarrow$  Product * BaseValue
        ExponentValue  $\leftarrow$  ExponentValue - 1
    ENDWHILE

    PRINT Product            // print result
END CalculateExpression
```