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


// print the result by calling a recursive helper function
METHOD RecursivelyCalculateExpression
BEGIN
        READ BaseValue              // read and store value of x in x^n equation
        READ ExponentValue          // read and store value of n in x^n equation
        PRINT (CALL RecursivelyCalculateExpression (BaseValue, ExponentValue))
END RecursivelyCalculateExpression

// use recursive helper function to return the value of x^n to be printed in the main function
METHOD RecursivelyCalculateExpression (x, n)
BEGIN
        IF (n == 0) THEN
                RETURN 1
        ELSE
                RETURN x times CALL RecursivelyCalculateExpression (x, n - 1)
        ENDIF
END RecursivelyCalculateExpression
```