

Task

Write a function to add two simple mathematical expressions which are of the form $Ax^a + Bx^b + \dots$ (where the coefficients and exponents can be any positive or negative real number). That is, the expression is a sequence of terms, where each term is simply a constant times a variable to an exponent. You don't have to do string parsing, so you can use whatever data structure you'd like to hold the expressions.

Example:

For input with two expressions:

$$2x^2 + 3$$

$$3x^3 + x^2$$

Provide the output:

$$3x^3 + 3x^2 + 3$$

Please include instructions on building, testing and running your solution.

We will evaluate: time and memory complexity, data modeling, automated tests quality.

Good Luck

Ethworks team