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Project 1

Program PolyMult

Program Description: Computes a product of first degree polynomials with integer coefficients. Inputs come from a file.

Use of the Program: The user shall provide a series of 1st degree binomials in the following form (otherwise behavior is undefined):

The first character shall be a space or a - if the coefficient is negative. The characters until the x shall be the decimal digits of the coefficient. The x shall immediately be followed by a space and the operator for the constant term. The operator for the constant term shall be either + or -. After the operator shall follow one space and the decimal digits of the constant term. The digits of the constant term shall not have a sign attached. The sign shall instead be conveyed by the operator. After these digits, the string shall end.

An empty line will halt parsing if encountered. These binomials shall be in a file named `binomials.txt`. The program will print the product of the given polynomials to standard output in decreasing degree.

Bugs: Any number provided (n) must satisfy $|n| < 2^{31}$.