

527√ (power series multiplication) Write a program to read from channel a an infinite sequence of coefficients $a_0 a_1 a_2 a_3 \dots$ of a power series $a_0 + a_1x + a_2x^2 + a_3x^3 + \dots$ and concurrently to read from channel b an infinite sequence of coefficients $b_0 b_1 b_2 b_3 \dots$ of a power series $b_0 + b_1x + b_2x^2 + b_3x^3 + \dots$ and concurrently to write on channel c the infinite sequence of coefficients $c_0 c_1 c_2 c_3 \dots$ of the power series $c_0 + c_1x + c_2x^2 + c_3x^3 + \dots$ equal to the product of the two input series. Assume that all inputs are already available; there are no input delays. Produce the outputs one per time unit.

§ see book Subsection 9.1.9