Write a program to read from channel \( a \) an infinite sequence of coefficients \( a_0 \ a_1 \ a_2 \ a_3 \ldots \) of a power series \( a_0 + a_1 x + a_2 x^2 + a_3 x^3 + \ldots \) and in parallel to read from channel \( b \) an infinite sequence of coefficients \( b_0 \ b_1 \ b_2 \ b_3 \ldots \) of a power series \( b_0 + b_1 x + b_2 x^2 + b_3 x^3 + \ldots \) and in parallel to write on channel \( c \) the infinite sequence of coefficients \( c_0 \ c_1 \ c_2 \ c_3 \ldots \) of the power series \( c_0 + c_1 x + c_2 x^2 + c_3 x^3 + \ldots \) 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.