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 \( a_0 + a_1x + a_2x^2 + a_3x^3 + \ldots \) and concurrently to read from channel \( b \) an infinite sequence of coefficients \( b_0, b_1, b_2, b_3, \ldots \) of a power series \( b_0 + b_1x + b_2x^2 + b_3x^3 + \ldots \) and concurrently to write on channel \( c \) the infinite sequence of coefficients \( c_0, c_1, c_2, c_3, \ldots \) of the power series \( c_0 + c_1x + c_2x^2 + c_3x^3 + \ldots \) 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.

§ see book Subsection 9.1.9