_ A107

Suppose you are given a Maple list R of numbers which are the roots of a polynomial f(x). Write a Maple for loop that constructs the polynomial. For example, if R = [1, 3, 5, 11, 12] then the value of f should be the polynomial (x - 1)(x - 3)(x - 5)(x - 11)(x - 12).

Now suppose you are given a Maple list C of numbers which are the coefficient of a polynomial g(x). Write a Maple for loop that constructs the polynomials. For example, if C = [1, 4, 0, 5, 2] then the value of g should be $1 + 4 \cdot x + 5 \cdot x^3 + 2 \cdot x^4$.