
Polynomial evaluation (2)

P72986_en

Write a program that reads a number x and a polynomial $p(z) = c_0z^0 + c_1z^1 + \dots + c_nz^n$, and computes $p(x)$.

Input

Input consists of a real number x followed by the description of the polynomial $p(z)$: the real coefficients c_n, c_{n-1}, \dots, c_0 in this order. (The first sample input/output corresponds to the evaluation of $p(z) = 3 + 4z + 5z^2$ at $x = 2$.)

Output

Print $p(x)$ with 4 digits after the decimal point.

Hint

The expected solution uses Horner's rule.

Sample input 1	Sample output 1
2	31.0000
5 4 3	

Sample input 2	Sample output 2
3	90.0000
10 0 0	

Sample input 3	Sample output 3
-2.5	-78.3750
5.4 0 -2 1	

Problem information

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