Polynomial evaluation (1)   P96767_en

Write a program that reads a number x and a polynomial $p(z) = c_0 z^0 + c_1 z^1 + \cdots + c_n z^n$, and computes $p(x)$.

Input

Input consists of a real number x followed by the description of the polynomial $p(z)$: the real coefficients $c_0, c_1, ..., c_n$ 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.

Sample input 1	Sample output 1
2 3 4 5	31.0000

Sample input 2	Sample output 2
3 0 0 10	90.0000

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

Problem information

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