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**Polynomial evaluation (1)****P96767\_en**

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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  $c_0, c_1, \dots, c_n$  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**

```
2
3 4 5
```

**Sample output 1**

```
31.0000
```

**Sample input 2**

```
3
0 0 10
```

**Sample output 2**

```
90.0000
```

**Sample input 3**

```
-2.5
1 -2 0 5.4
```

**Sample output 3**

```
-78.3750
```

**Problem information**

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Generation : 2016-12-08 18:03:51

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