

Bitcoin

Input file: `standard input`
Output file: `standard output`
Time limit: 1 second
Memory limit: 256 megabytes

Zag wants to make some money by investing in bitcoin.

He spent n dollars to buy bitcoins when the unit price was x and sold them when the unit price equaled y . Please help him calculate how much he made in total.

Input

The input contains three real numbers n, x, y ($1 \leq n \leq 10^5, 0 < x, y \leq 10^3$).

Output

Print a single line of one real number indicating his profit. Your answer is considered correct if the absolute or relative error doesn't exceed 10^{-4} .

Examples

standard input	standard output
1256.80 2.1606 2.4451	165.49088216
20.00 2.9872 2.8662	-0.81012319