

Body Mass Index

Problem Code	hw00e_BMI
Running Time Limit	1 sec
Memory Limit	16 mb

Objective

- Be able to perform floating-point calculation.
- Be able to format floating-point output.

Introduction

Body Mass Index (BMI) is a simple tool to indicate weight problem. Basically, BMI is a ratio between person's weight (in kg) and square of height (in m²). For example, a person whose weight is 82 kg and height is 176 cm has BMI equal to $\frac{82}{1.76^2} \cong 26.472$. Write a program to compute BMI from given weight and height of any person.

Task

Read weight and height and then display calculated BMI.

Input

Input consists of a single line containing two integers. The first integer is W ($1 \leq W \leq 1,000$), the weight of the person in kg. The next integer is H ($1 \leq H \leq 1,000$), the height of the person in cm.

Output

BMI of the person with at exactly three digits after the decimal point properly rounded.

Example

Ex1

Input	Output
82 176	26.472

Ex2

Input	Output
51 160	19.922