
Harmonic numbers (1)**P59539_en**

Write a program that reads a number n and prints the n -th harmonic number, defined as $H_n = 1/1 + 1/2 + \dots + 1/n$.

Input

Input consists of a natural number n .

Output

Print H_n with 4 digits after the decimal point.

Sample input 1

2

Sample output 1

1.5000

Sample input 2

0

Sample output 2

0.0000

Sample input 3

7

Sample output 3

2.5929

Problem information

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