Harmonic numbers (1)   P59539_en

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

Input

Input consists of a natural number n.

Output

Print H_n with 4 digits after the decimal point.

Sample input 1	Sample output 1
2	1.5000

Sample input 2	Sample output 2
0	0.0000

Sample input 3	Sample output 3
7	2.5929

Problem information

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