
Harmonic numbers (2)**P58153_en**

Write a program that reads pairs of numbers n and m with $n \geq m$, and for each pair prints $H_n - H_m$.

Input

Input consists of several pairs of natural numbers n and m such that $n \geq m$.

Output

For every pair, print $H_n - H_m$ with 10 digits after the decimal point.

Sample input 1

```
3 2
7 0
4 4
100 99
```

Sample output 1

```
0.3333333333
2.5928571429
0.0000000000
0.0100000000
```

Problem information

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