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## Harmonic numbers (2)

P58153\_en

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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

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

### Sample output

```
0.3333333333
2.5928571429
0.0000000000
0.0100000000
```

### Problem information

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Generation : 2023-07-14 18:08:27

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