
Sum of fractions

P76024_en

Write a program that reads triples of natural numbers a , b and k , and for each one computes and prints the result of

$$\frac{1}{a} + \frac{1}{a+k} + \frac{1}{a+2k} + \dots$$

for all fractions with denominator smaller than or equal to b .

Input

Input consists of several triples of natural numbers a , b and k , such that $1 \leq a \leq b$ and $k \geq 1$.

Output

For each triple, print in a line the result of the sum with four digits after the decimal point.

Sample input

```
1 3 1
5 5 2
5 6 2
5 7 2
```

Sample output

```
1.8333
0.2000
0.2000
0.3429
```

Problem information

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