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

\[
\frac{1}{a} + \frac{1}{a+k} + \frac{1}{a+2k} + \ldots
\]

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.

<table>
<thead>
<tr>
<th>Sample input</th>
<th>Sample output</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 3 1</td>
<td>1.8333</td>
</tr>
<tr>
<td>5 5 2</td>
<td>0.2000</td>
</tr>
<tr>
<td>5 6 2</td>
<td>0.2000</td>
</tr>
<tr>
<td>5 7 2</td>
<td>0.3429</td>
</tr>
</tbody>
</table>

**Problem information**

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