Candy Lottery
Problem ID: candylottery1727

There are \( n \) children, and each of them independently gets a random integer number of candies between 1 and \( k \). What is the expected maximum number of candies a child gets?

**Input**
The only input line contains two integers \( n \) and \( k \).

**Output**
Print the expected number rounded to six decimal places.

**Constraints**
- \( 1 \leq n \leq 100 \)
- \( 1 \leq k \leq 100 \)

<table>
<thead>
<tr>
<th>Sample Input 1</th>
<th>Sample Output 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 3</td>
<td>2.444444</td>
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