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## B. Ropes

time limit per test: 1 second<sup>©</sup> memory limit per test: 256 megabytes

There are n ropes, you need to cut k pieces of the same length from them. Find the maximum length of pieces you can get.

## Input

The first line contains two integers n and k ( $1 \le n, k \le 10000$ ). Next n lines contain one number each, the length of the rope  $a_i$  ( $1 \le a_i \le 10^7$ ).

## **Output**

Output one real number, maximum length of pieces you can get. The answer will be considered correct if the relative or absolute error does not exceed  $10^{-6}$ .

## Example

input	Сору
4 11	
802 743 457	
743	
457	
539	
output	Сору
200.5	

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