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B. Ropes

time limit per test: 1 second
memory limit per test: 256 megabytes input: standard input output: standard output

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	
539	
output	Сору
200.5	

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