ICPC Assiut University Community

Juniors Phase 1 Training ,Do Your Best



HOME TOP CATALOG CONTESTS GYM PROBLEMSET GROUPS RATING EDU API CALENDAR HELP ICPC CHALLENGE 🟆

PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

C. Solve Equation

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

You have implemented a sorting algorithm that requires exactly c * n * lg(n) nanoseconds to sort n integers. Here lg denotes the base-2 logarithm.

Given time in nanoseconds, print the largest value of n such that $c \times n \times lg(n) \leq time$.

Input

only one line contains two integers c, time $(1 \le c \le 100)$, $(1 \le time \le 2 \times 10^9)$.

Output

print in one line the largest value of n.

Your answer is considered correct if its absolute or relative error does not exceed 10^{-6} . Formally, let your answer be a, and the jury's answer be b. Your answer is accepted if and only if $rac{|a-b|}{\max{(1,|b|)}} \leq 10^{-6}$.



ICPC Assiut University Training -Standard - Juniors Phase 1

Public

Participant



→ Group Contests

- Standard #5 (Bits, bit-masking)
- Standard #4 (Binary search, two pointers)
- Standard #3 (set , sorting, compare function, map)
- Standard #2 (binary search, stack, queue, deque, priority queue)
- Standard #1 (Frequency, prefix sum, vector, pair, struct)

Standard #4 (Binary search, two pointers)

Finished

Practice



→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Submit?

Language: GNU G++20 11.2.0 (64 bit, w ➤

Choose Choose File No file chosen file:

Submit

→ Last submissions

→ Last Subillissions		
Submission	Time	Verdict
226661810	Oct/05/2023 00:43	Accepted
226661476	Oct/05/2023 00:38	Accepted
226644674	Oct/04/2023 21:23	Accepted