Avito | Challenges 2018

HOME   TOP   CONTESTS   GYM   **PROBLEMSET**   GROUPS   RATING   API   CALENDAR   HELP   **10 YEARS! 🎁**

PROBLEMS   SUBMIT   STATUS   STANDINGS   CUSTOM TEST

A. Definite Game

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

Chouti was doing a competitive programming competition. However, after having all the problems accepted, he got bored and decided to invent some small games.

He came up with the following game. The player has a positive integer n. Initially the value of n equals to v and the player is able to do the following operation as many times as the player want (possibly zero): choose a positive integer x that $x < n$ and x is not a divisor of n, then subtract x from n. The goal of the player is to minimize the value of n in the end.

Soon, Chouti found the game trivial. Can you also beat the game?

Input
The input contains only one integer in the first line: v ($1 \le v \le 10^9$), the initial value of n.

Output
Output a single integer, the minimum value of n the player can get.

Examples

input	Copy
8	

output	Copy
1	

input	Copy
1	

output	Copy
1	

Note
In the first example, the player can choose $x = 3$ in the first turn, then n becomes 5. He can then choose $x = 4$ in the second turn to get $n = 1$ as the result. There are other ways to get this minimum. However, for example, he cannot choose $x = 2$ in the first turn because 2 is a divisor of 8.

In the second example, since $n = 1$ initially, the player can do nothing.

Avito Cool Challenge 2018

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]

→ Clone Contest to Mashup

You can clone this contest to a mashup.

[Clone Contest]

→ Submit?

Language: [GNU G++14 6.4.0 ▼]

Choose file: [Choose File] no file selected

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

[Submit]

→ Problem tags

constructive algorithms   math   *800

No tag edit access

→ Contest materials

- Announcement   ✕
- Tutorial (en)   ✕

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