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

# PROBLEMS SUBMIT CODE MY SUBMISSIONS STATUS STANDINGS CUSTOM INVOCATION

## A. Ginger's number

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

Ginger have two positive integers x, y, you have to do exactly one operation:

Choose two positive integers a, b, change x to  $\frac{x}{a}$ , and change y to  $\frac{y}{b}$ , (a must be a divisor of x, b must be a divisor of y and  $gcd(\frac{x}{a}, \frac{y}{b}) = 1$ ).

Find the minimum value of  $a \times b$ .

#### Input

The first line of input contains a single integer T ( $1 \le T \le 10^5$ ) — the number of input test cases.

For each test case, the only line of input contains two positive integers x, y ( $1 \le x, y \le 10^9$ ).

#### **Output**

Print the minimum value of  $a \times b$ .

#### Example

| Example             |      |  |
|---------------------|------|--|
| input               | Сору |  |
| 1<br>114514 1919810 |      |  |
| output              | Сору |  |
| 2                   |      |  |

#### **ICPC Assiut Advanced Newcomers** <u> 2023</u>

#### **Private**

## Participant



### **→ Group Contests**



- ICPC Assiut Advanced Newcomers 2023 Contest 5
- ICPC Assiut Advanced Newcomers 2023 Contest 4
- ICPC Assiut Advanced Newcomers 2023 Contest 3
- ICPC Assiut Advanced Newcomers Practice #1
- ICPC Assiut Advanced Newcomers 2023 Contest 2
- ICPC Assiut Advanced Newcomers 2023 Onsite Contest 2
- ICPC Assiut Advanced Newcomers 2023 Contest 1
- ICPC Assiut Advanced Newcomers 2023 Onsite Contest 1

## **ICPC Assiut Advanced Newcomers 2023 Contest 2**

### **Finished**

#### Practice

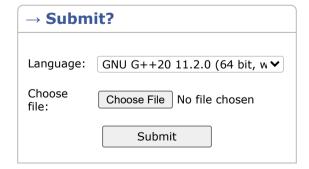


#### → Virtual participation



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



| ightarrow Last submissions |                      |          |
|----------------------------|----------------------|----------|
| Submission                 | Time                 | Verdict  |
| 217385960                  | Aug/06/2023<br>01:34 | Accepted |
| 217385919                  | Aug/06/2023<br>01:33 | Accepted |
| 217385877                  | Aug/06/2023<br>01:32 | Accepted |