

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  $T$  ( $1 \leq T \leq 10^5$ ) — the number of input test cases.

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

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

input	Copy
1 114514 1919810	
output	Copy
2	

ICPC Assiut Advanced Newcomers 2023

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

→ Submit?

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

Choose file: Choose File No file chosen

Submit

Submission	Time	Verdict
<a href="#">217385960</a>	Aug/06/2023 01:34	Accepted
<a href="#">217385919</a>	Aug/06/2023 01:33	Accepted
<a href="#">217385877</a>	Aug/06/2023 01:32	Accepted