4/17/2021 C - Max GCD 2

> Contest Duration: 2021-04-17(Sat) 12:40 (http://www.timeanddate.com/worldclock/fixedtime.html? iso=20210417T1610&p1=248) - 2021-04-17(Sat) 14:40 (http://www.timeanddate.com/worldclock/fixedtime.html? Back to Home (/home) iso=20210417T1810&p1=248) (local time) (120 minutes)

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C - Max GCD 2



Time Limit: 2 sec / Memory Limit: 1024 MB

Score: 300 points

Problem Statement

Given are integers A and B. Find the maximum possible value of gcd(x, y) when we choose integers x and y so that $A \leq x < y \leq B$.

Here, gcd(x, y) denotes the greatest common divisor of x and y.

Constraints

- A and B are integers.
- $1 \le A < B \le 2 \times 10^5$

Input

Input is given from Standard Input in the following format:

A B

Output

Print the answer.

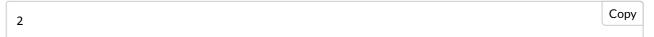
Remaining Time

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Sample Input 1 Copy

2 4 Copy

Sample Output 1 Copy



We have three ways to choose (x,y) such that $A \le x < y \le B$: (2,3),(2,4),(3,4), where the greatest common divisors are 1,2,1, respectively, so the maximum possible value is 2.

Sample Input 2 Copy

199999 200000

Сору

Sample Output 2 Copy

1 Сору

We have gcd(199999, 200000) = 1.

Sample Input 3 Copy

101 139 Copy

Sample Output 3 Copy

Copy Copy

Language

Python (3.8.2)

Source Code

Temaining Time 00:06:58

telegram)

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