

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?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.
- $1 \leq A < B \leq 2 \times 10^5$

Input

Input is given from Standard Input in the following format:

A B

Output

Print the answer.

Remaining Time
00:06:58

Sample Input 1

[Copy](#)

2 4

[Copy](#)

Sample Output 1

[Copy](#)

2

[Copy](#)

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

Sample Input 2

[Copy](#)

199999 200000

[Copy](#)

Sample Output 2

[Copy](#)

1

[Copy](#)

We have $\gcd(199999, 200000) = 1$.

Sample Input 3

[Copy](#)

101 139

[Copy](#)

Sample Output 3

[Copy](#)

34

[Copy](#)**Language**

Python (3.8.2) ▼

Source Code

1

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* at most 512 KiB

* Your source code will be saved as `Main.extension`.



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