

Problem C. Disjoint Set of Common Divisors

Time limit 2000 ms

Mem limit 1048576 kB

Problem Statement

Given are positive integers A and B .

Let us choose some number of positive common divisors of A and B .

Here, any two of the chosen divisors must be coprime.

At most, how many divisors can we choose?

- Definition of common divisor
- Definition of being coprime
- Definition of dividing

Constraints

- All values in input are integers.
- $1 \leq A, B \leq 10^{12}$

Input

Input is given from Standard Input in the following format:

A B

Output

Print the maximum number of divisors that can be chosen to satisfy the condition.

Sample 1

Input	Output
12 18	3

12 and 18 have the following positive common divisors: 1, 2, 3, and 6.

1 and 2 are coprime, 2 and 3 are coprime, and 3 and 1 are coprime, so we can choose 1, 2, and 3, which achieve the maximum result.

Sample 2

Input	Output
420 660	4

Sample 3

Input	Output
1 2019	1

1 and 2019 have no positive common divisors other than 1.