**Congruence Equation**

**Problem Description**

Find the smallest positive integer solution to the congruence equation ax = 1 (mod b) with respect to x.

**Input**

One line, containing two positive integers a, and b, separated by a space.

**Output**

There is a positive integer x0, which is the smallest positive integer solution. The input data is guaranteed to have a solution.

**Sample Input**

3 10

**Sample Output**

7

**Hint**

**[Data Range]**

For 40% of the data, 2 ≤ b ≤ 1,000 ;

For 60% of the data, 2 ≤ b ≤ 50,000,000 ;

For 100% of the data, 2 ≤ a, b≤ 2,000,000,000.