

## Problem F6403

### Price For Product

Alice is selling a product to the rest of the world, and, not surprisingly, he has a competitor Bob. Suppose only Alice and Bob have this product on the earth, so they only compete with each other.

Originally Alice sells this product at price  $a$  and Bob sells this product at price  $b$ . If they are selling at the same price, then they are happy with each other. If not, the one selling at higher price  $x$  will change his price to  $\lfloor \frac{x}{2} \rfloor$ . And this process continues till they are happy with each other(having the same price). So what will be the price for this product when they are happy with each other?

### Input

The first line consist of two space separated integers  $a(1 \leq a \leq 100)$   $b(1 \leq b \leq 100)$ , denoting the initial price for Alice and Bob.

### Output

Print a single integer on a line, the price of the product when Alice and Bob are happy with each other.

### Sample Input 1

2 2

### Sample Output 1

2

### Sample Input 2

2 7

### Sample Output 2

1