

## Target

```
Input file:      standard input
Output file:     standard output
Time limit:      1 second
Memory limit:    256 megabytes
```

Now you have  $s = 0.5$  and a real number  $0 \leq a \leq 1$

You can choose one of the two operations:

$$1.a = as$$

$$2.a = (a - 1)s + 1$$

Now you should make  $a$  equal to the target number  $b$  by using at most 50 steps.

Two numbers  $x, y$  are equal if  $|x - y| \leq 10^{-4}$

It can be proved that the answer exist.

## Input

The first line contains two real number  $a, b$

## Output

Print a string of '1' and '2' to show your operations.

## Examples

standard input	standard output
0.5 0.25	1
1 0.75	12
1 0	111111111111111111111111