You are given natural numbers and .

Let be a number such that (such is guaranteed to exist).

Find the value of .

**Input**

The only line of the file **equation.in** contains the numbers and .

**Output**

It is provable that for all possible the required value is equal and can be represented as a rational fraction . Let . The tests will be selected so that and have no common divisors. On the single line of the file **equation.out**, print modulo .

**Constraints**

**Time limit: 0.2 sec.**

**Memory limit: 256 MB.**

**Sample test**

|  |  |
| --- | --- |
| **Input (equation.in)** | **Output (equation.out)** |
| 1 3 | 4 |