**Java Primality Test**

<https://www.hackerrank.com/challenges/java-primality-test/problem>

A prime number is a natural number greater than *1* whose only positive divisors are *1* and itself. For example, the first six prime numbers are *2*, *3*, *5*, *7*, *11*, and *13*.

Given a large integer, *n*, use the Java *BigInteger* class' *[isProbablePrime](https://docs.oracle.com/javase/7/docs/api/java/math/BigInteger.html" \l "isProbablePrime%28int%29)* method to determine and print whether it's prime or not prime.

**Input Format**

A single line containing an integer, *n* (the number to be checked).

**Constraints**

* n contains at most 100 digits.

**Output Format**

If *n* is a prime number, print prime; otherwise, print not prime.

**Sample Input**

13

**Sample Output**

prime

**Explanation**

The only positive divisors of *13* are *1* and *13*, so we print prime.