**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.