## Java Primality Test

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 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

```
1 3
```


## Sample Output

prime

## Explanation

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

