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# Java Primality Test

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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

```
13
```

## Sample Output

```
prime
```

## Explanation

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



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Max Score: 20

Difficulty: Easy

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Java 7



```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
```

```
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         Scanner in = new Scanner(System.in);
11         BigInteger n = in.nextBigInteger();
12         in.close();
13         // Write your code here.
14     }
15 }
16
```

Line: 1 Col: 1

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