# Java Primality Test

by Shafaet

Problem | Submissions | Leaderboard | Discussions | Editorial

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`.



Current Buffer (saved locally, editable) 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

Upload Code as File | Test against custom input | Run Code | Submit Code