**Java Primality Test**

import java.math.BigInteger;

import java.util.Scanner;

public class Solution {

public static void main(String args[]) {

Scanner s1=new Scanner(System.in);

BigInteger b1=s1.nextBigInteger();

if(b1.isProbablePrime(100)) {

System.out.println("prime");

}else {

System.out.println("not prime");

}

}

}