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Prime numbers

3 points

Introduction

**A prime number is an integer that is only divisible by itself and 1.
You have to write a program that determines whether a number is prime.**

WARNING: You cannot use language-provided functions

Input

The input of the program is a set of numbers, ending with a zero.

```
7
26
177
509
2053
0
```

Output

The program must output whether each number is prime.

```
7 is prime
26 is not prime
177 is not prime
509 is prime
2053 is prime
```