DWITE '07 R1 #1 - Vanilla Primes

Time limit: 2.0s **Memory limit:** 64M

DWITE Online Computer Programming Contest, October 2007, Problem 1

In mathematics, a prime number is a natural number which has exactly two distinct natural number divisors: 1 and itself. For example: 2, 3, 5, 7, 11, 13, 17, 19 are the first eight prime numbers. A vanilla flavour programming problem is to figure out if a given number is a prime or not.

The input will contain a single integer. $-1000 \leq N \leq 1000$.

The output will contain a single line, stating if the supplied integer is `prime` or `not`.

Sample Input 1

```
-1
```

Sample Output 1

```
not
```

Sample Input 2

```
1
```

Sample Output 2

```
not
```

Sample Input 3

```
2
```

Sample Output 3

```
prime
```

Problem Resource: DWITE