

DWITE '07 R2 #1 - Not Quite Prime

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

DWITE Online Computer Programming Contest, November 2007, Problem 1

In mathematics, a semiprime number is a natural number that is the product of exactly two prime numbers. For example: 4, 6, 9, 10, 14, 15, 21, 22 are the first eight semiprime numbers. Given a set of numbers, one should be able to identify semiprime numbers contained in that set.

The input will contain five integers, one per line. $1 \leq N \leq 1000$.

The output will contain five lines, stating if the supplied integers were `semiprime` or `not`.

Sample Input

```
2
3
4
5
6
```

Sample Output

```
not
not
semiprime
not
semiprime
```

Problem Resource: [DWITE](#)