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## Consecutive non-primality

P57148\_en

Tercer Concurs de Programació de la UPC - Final (2005-09-28)

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For every natural number  $x$ , define  $N(x)$  as the smallest natural number  $y$  such that  $y \geq x$  and such that the 250 consecutive numbers  $y, y + 1, \dots, y + 249$  are all non-prime.

Your program must print  $N(x)$  for every given  $x$ .

### Input

Input consists of several (probably many) natural numbers  $x$ , each one such that  $N(x) < 10^9$ .

### Output

For every  $x$ , print  $x$  and  $N(x)$  in one line.

#### Sample input

```
1234
436273033
```

#### Sample output

```
1234 436273010
436273033 436273033
```

### Problem information

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