
Prime palindromic numbers

P12848_en

Remember that a natural number is called *prime* if and only if has only two divisors: 1 and itself. Moreover, a natural number is called *palindromic* if its value is the same when its digits are reversed. For instance, 146641 is a palindromic number but 164361 is not.

Write a program that prints the i -th prime palindromic number.

Input

Input is a sequence of integer numbers between 1 and 750 (both included).

Output

For each integer i of the sequence, print in a line with the i -th prime palindromic number.

Sample input

```
1
2
3
4
5
6
750
749
750
```

Sample output

```
2
3
5
7
11
101
9817189
9809089
9817189
```

Problem information

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Generation : 2013-12-04 15:44:22

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