!!Number to the old to the first prophet

- Time limit: 0.5 seconds
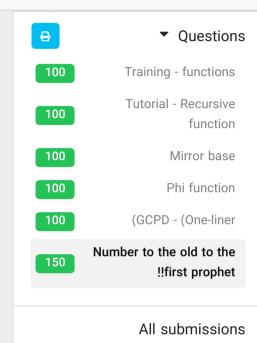
- Memory limit: 256 MB

Qanbar (which I'm sure you all love now) has also added to his popularity and he is coming up with new ideas every day for you :/ And his last idea was this: a number that is both prime and symmetrical is called "old to old" They say the first prophet! . But again people's questions are overflowing and Qanbar, who is unable to answer them, has come to you to ask his questions and count the numbers for him.

Input

The input consists of a line in which the two numbers n and b are separated by a space.

$$1 \leq n \leq 1\,0\,0$$

$$2 \leq b \leq 1\,0$$

Output

The output of the program consists of a line in which you take the nth number from old to old to the base b and print it.

Note that you must use the function in this question. A function to check if the number is prime, a function to reverse the number and a function to convert the base to b

Example

Sample input 1

```
6 5
```

Sample output 1

```
401
```

.The training period is over

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