To begin the competition, we have a very simple problem. So hurry up and try to solve it as fast as possible!

Given a series of natural numbers, you have to output the double of each of them. So, for example, if the number is 7 , you have to output 14 . These numbers will always be between 1 and $10^{6}$.

## Input

The input consists of a series of lines. Each line contains a natural number between 1 and $10^{6}$.

## Output

For each input number, you have to output the double. You have to stop the output when the input is a palindrome prime number (after outputting its double also).

## Sample Input

```
1 4
```


## Sample Output

