The Fibonacci number sequence is $1,1,2,3,5,8,13$ and so on. You can see that except the first two numbers the others are summation of their previous two numbers. A Fibonacci Prime is a Fibonacci number which is relatively prime to all the smaller Fibonacci numbers. First such Fibonacci Prime is 2 , the second one is 3 , the third one is 5 , the fourth one is 13 and so on. Given the serial of a Fibonacci Prime you will have to print the first nine digits of it. If the number has less than nine digits then print all the digits.

## Input

The input file contains several lines of input. Each line contains an integer $N(0<N \leq 22000)$ which indicates the serial of a Fibonacci Prime. Input is terminated by End of File.

## Output

For each line of input produce one line of output which contains at most nine digits according to the problem statement.

## Sample Input

## Sample Output

