



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🛣 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

# A. Hexadecimal's theorem

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

Recently, a chaotic virus Hexadecimal advanced a new theorem which will shake the Universe. She thinks that each Fibonacci number can be represented as sum of three not necessary different Fibonacci numbers.

Let's remember how Fibonacci numbers can be calculated.  $F_0 = 0$ ,  $F_1 = 1$ , and all the next numbers are  $F_i = F_{i-2} + F_{i-1}$ .

So, Fibonacci numbers make a sequence of numbers: 0, 1, 1, 2, 3, 5, 8, 13, ...

If you haven't run away from the PC in fear, you have to help the virus. Your task is to divide given Fibonacci number n by three not necessary different Fibonacci numbers or say that it is impossible.

## Input

The input contains of a single integer n ( $0 \le n \le 10^9$ ) — the number that should be represented by the rules described above. It is guaranteed that n is a Fibonacci number.

#### Output

Output three required numbers: *a*, *b* and *c*. If there is no answer for the test you have to print "I'm too stupid to solve this problem" without the guotes.

If there are multiple answers, print any of them.

# Examples

input	
3	
output	
111	
input	
13	
output	
238	

### → **Attention**

Package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then value 800 ms will be displayed and used to determine the verdict.

#### Codeforces Round #125 (Div. 2)

#### **Finished**

#### → Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ACM-ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

# → Problem tags (brute force) (constructive algorithms) (implementation) (number theory) No tag edit access

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# → Contest materials

- Announcement
- Tutorial