## C. Vladik and fractions

time limit per test: 1 second memory limit per test: 256 megabytes

input: standard input output: standard output

Vladik and Chloe decided to determine who of them is better at math. Vladik claimed that for any positive integer n he can represent fraction as a sum of three distinct positive fractions in form .

Help Vladik with that, i.e for a given n find three distinct positive integers x, y and z such that . Because Chloe can't check Vladik's answer if the numbers are large, he asks you to print numbers not exceeding  $10^9$ .

If there is no such answer, print -1.

## Input

The single line contains single integer n ( $1 \le n \le 10^4$ ).

## **Output**

If the answer exists, print 3 distinct numbers x, y and z ( $1 \le x$ , y,  $z \le 10^9$ ,  $x \ne y$ ,  $x \ne z$ ,  $y \ne z$ ). Otherwise print -1.

If there are multiple answers, print any of them.

## **Examples**

input	
3	
output	
2 7 42	

input	
7	
output	
7 8 56	