

# WildFire, This Is for You!

Input file:            standard input  
Output file:           standard output  
Time limit:            2 seconds  
Memory limit:         1024 megabytes

Foammm has created the following problem.

## Coprime Problem

You are given two positive integers  $x$  and  $y$ . The following four operations can be performed with a cost of 1 any number of times:

- Add 1 to  $x$ .
- Add 1 to  $y$ .
- Subtract 1 from  $x$ .
- Subtract 1 from  $y$ .

You need to find the minimum total cost to make these two integers have no common divisors greater than 1.

Foammm needs to generate some test cases for the problem. She gives you an integer  $k$ , and you need to find two positive integers  $x$  and  $y$  so that the answer to the above problem is exactly  $k$ .

## Input

There is only one test case in each test file.

The first and only line contains an integer  $k$  ( $0 \leq k \leq 20$ ).

## Output

Output an integer  $x$  ( $0 < x < 10^{1500}$ ) in the first line, followed by an integer  $y$  ( $0 < y < 10^{1500}$ ) in the second line.

It can be shown that the answer always exists. If there are multiple valid answers, you can output any of them.

## Examples

standard input	standard output
0	1 1
1	2 2
2	945 1210

## Note

