## Problem J. Restore the sequence

Input file: standard input
Output file: standard output
Time limit: 1 second
Memory limit: 256 megabytes
Vanya constructed a sequence $f_{i}$ according to the following rule:

1. $f_{0}=x, f_{1}=y$;
2. $f_{i}=f_{i-1}+f_{i-2}, i>1$.

Unfortunately, Vanya lost this sequence. However, he memorized one number $N$, which belongs to this sequence. He also remembers that all elements of the sequence are non-negative integers.

Help Vanya find such $x$ and $y$, by which he can restore the sequence. Vanya understands that there can be many answers, so he wants the value of $x+y$ to be as small as possible, and in case there are several such pairs, $x$ should be the minimum possible.

## Input

The single line contains one integer $N$ - the number that Vanya memorized.

$$
1 \leq N \leq 10^{6}
$$

## Output

In the single line output two integers $x$ and $y$ - the initial parameters of the sequence.

## Examples

| standard input | standard output |
| :--- | :--- |
| 42 | 02 |
| 19 | 32 |

