## C. Hack it!

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

input: standard input output: standard output

Little X has met the following problem recently.

Let's define f(x) as the sum of digits in decimal representation of number x (for example, f(1234) = 1 + 2 + 3 + 4). You are to calculate

Of course Little X has solved this problem quickly, has locked it, and then has tried to hack others. He has seen the following C++ code:

```
ans = solve(l, r) % a;
if (ans <= 0)
  ans += a;</pre>
```

This code will fail only on the test with . You are given number a, help Little X to find a proper test for hack.

## Input

The first line contains a single integer a ( $1 \le a \le 10^{18}$ ).

## Output

Print two integers: l, r ( $1 \le l \le r < 10^{200}$ ) — the required test data. Leading zeros aren't allowed. It's guaranteed that the solution exists.

## **Examples**

```
input
46
output
1 10
```

```
input
126444381000032

output
2333333 2333333333333
```