## Problem A. Almost Bobo Number

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 3 seconds |
| Memory limit: | 512 mebibytes |

A positive integer is called a bobo number if its decimal representation can be obtained by concatenating two copies of the same integer. For example, 12341234 and 3232 are bobo numbers, while 1234321 and 1322 are not.

A positive integer is called an almost bobo number if, after merging all the consecutive equal digits, the resulting number is a bobo number. For example, $\underbrace{1112223112233}$ becomes 123123 after merging all the consecutive equal digits, and thus is an almost bobo number.

Bobo has a very large number $n$, and he would like to know the largest almomst bobo number less than $n$.

## Input

The input contains zero or more test cases, and is terminated by end-of-file. For each test case:
The first line contains an integer $n$ without leading zeros ( $\left.1 \leq n \leq 10^{5000000}\right)$.
It is guaranteed that the total length of the decimal representations of all $n$ in the input does not exceed 5000000 .

## Output

For each test case, output an integer without leading zeros denoting the largest almomst bobo number strictly less than $n$. If there is no such integer, output -1 instead.

## Example

|  | standard input | standard output |
| :--- | :--- | :--- |
| 12345 | 12212 |  |
| 67890 | 67767 |  |
| 11111 | 11010 |  |
| 1000 | -1 |  |
| 26782641 | 26777267 |  |

