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CSEC-ASTU Competitive Programming Contest 2021

Problem 77: Forbidden Zero

Time limit: 1s

You're writing the positive integers in increasing order starting from one. But you've never learned the digit zero, and thus omit any number that contains a zero in any position. The first ten integers you write are: 1, 2, 3, 4, 5, 6, 7, 8, 9, and 11.

You have just written down the integer n (which is guaranteed to not contain the digit zero). What will be the next integer that you write down?

Input

The input consists of a single line containing the integer n ($1 \leq n \leq 999,999$).

It is guaranteed that n does not contain the digit zero.

Output

Print, on a single line, the next integer you will be writing down.

Sample Input 1	Sample Output 1
99	111

Sample Input 1	Sample Output 1
1234	1235