

Forbidden Zero



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?

1 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.

2 Output

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

3 Sample Input and Output

99	111
1234	1235