Given a positive integer $U$, find the largest integer $L$ such that $L \leq U$ and $L$ does not contain any digit more than twice.

## Input

The input contains several test cases; each test case is formatted as follows. A test case consists of a single line that contains an integer $U\left(1 \leq U \leq 10^{18}\right)$.

## Output

For each test case in the input, output a line with an integer representing the largest number less than or equal to $U$ that does not contain any digit more than twice.

## Sample Input

2210102960
1000000000000000000
1001223343
20152015

## Sample Output

2210099887
998877665544332211
998877665
20152015

