

Problem A – At most twice

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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 ($1 \leq U \leq 10^{18}$).

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	Sample output
2210102960	2210099887
10000000000000000000	998877665544332211
1001223343	998877665
20152015	20152015