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# **Coding Arena**

<**C**\*deVita/>
the ICS Coding Contest

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## **Problem: Numbers with non-decreasing digits**

Some numbers such as 7, 234, 12378 have the digits that are non-decreasing when we read them from left to right. In this problem, we want to find the largest such number less than or equal to a given number N.

## Input Format:

Integer N

### **Output Format:**

Largest integer  $M \le N$  that has its digits non-decreasing. The output should not contain leading zeros.

#### Constraints:

N <= 10^18

## Example 1

Input

Output

89

Explanation

89 itself has non-decreasing digits.

## Example 2

Input 549

Outo

Output 499

### Explanation

From 500 to 549, the integers have 5 as the leading digit and the second digit must be less than or equal to 4. But then, such a number cannot have its digits non decreasing.

### Note

Please do not use package and namespace in your code. For object oriented languages your code should be written in one class.

## Note:

Participants submitting solutions in C language should not use functions from <conio.h>/<process.h> as these files do not exist in gcc

### Note

For C and C++, return type of main() function should be int.

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# **Submit Answer**

- I , PRAVEENKUMAR PVSM confirm that the answer submitted is my own.
- I would like to provide attribution to the following sources.







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