B. Maximize Sum of Digits

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output

Anton has the integer x. He is interested what positive integer, which doesn't exceed x, has the maximum sum of digits.

Your task is to help Anton and to find the integer that interests him. If there are several such integers, determine the biggest of them.

Input

The first line contains the positive integer x ($1 \le x \le 10^{18}$) — the integer which Anton has.

Output

Print the positive integer which doesn't exceed x and has the maximum sum of digits. If there are several such integers, print the biggest of them. Printed integer must not contain leading zeros.

Examples

input
100
output
99

input
48
output
48

input
521
output
499