Problem 8 : a little bit bigger!

Statement

On a camping night after an exhausting trip, Eren and his closest friends have decided to play an intellectual game. By giving her a string representing a number, **Armin** challenges **Mikasa** to find the next greater one, with the condition that she uses only the same digits.

Note : a string composed with a list of digits from 1 to 9.

Input

String[1:255] of digits (1 to 9)

Output

if the next big number exists: => string of the same length as the input.
else: => "kinda impossible"

Example

Input	Output
16	61