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ONLINE EDITOR (B)

Exchange Digits

+ Problem Description

Compute nearest larger number by interchanging digits updated.

C

Given 2 numbers a and b find the smallest number greater than b by interchanging the digits of a and if not possible print -1.

D

+ Constraints

Α

1 <= a,b <= 10000000

+ Input Format

2 numbers, a and b, separated by space.

+ Output

A single number, greater than than b.

If not possible, print -1.

- + Test Case
- + Explanation

Example 1

Input

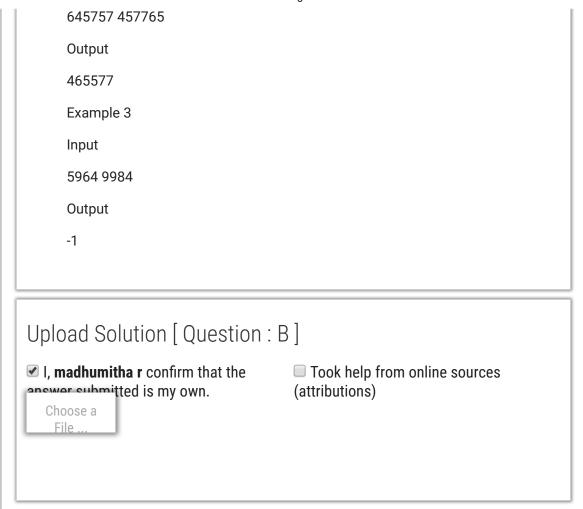
459 500

Output

549

Example 2

Input



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