



**05** Hr **25** Min  
**57** Sec

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# Coding Area

**A****B****C****D****E****F****ONLINE EDITOR (A)**

## Exchange Digits

### + Problem Description

Compute nearest larger number by interchanging digits updated.

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.

### + Constraints

$1 \leq a, b \leq 10000000$

### + 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

645757 457765

Output

465577

Example 3

Input

5964 9984

Output

-1

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