Problem A

The Largest Number

Time limit: 1 second
Memory: 1024 megabytes

Problem Description

In today's society, everyone wants to create new things, materials, or items that are optimized to offer the best possible results and benefits. Today, I – the super lovable Tăng – have decided to give you an exercise to help you practice optimization. The task is as follows: "Optimize the combination of three integers into a single number to create the largest possible result." In this problem, you are given three positive integers **a**, **b**, and **c**. Your task is to find the optimal way to combine these numbers into a single number such that the result is as large as possible. You are not allowed to use any other operations besides concatenation. The process of combining involves arranging the numbers in different orders.

For example, if **a** = **9**, **b** = **2004**, and **c** = **7**, you can arrange them in the order **a**, **b**, **c** to form the number **920047**, or in the order **b**, **a**, **c** to form **200497**, or in the order **a**, **c**, **b** to form **972004**, and so on. Your goal is to find the arrangement that results in the largest possible number.

Input:

- The first line contains the positive integer **a**. **($a \leq 10^{10^7}$)**.
- The second line contains the positive integer **b**. **($b \leq 10^{10^7}$)**.
- The third line contains the positive integer **c**. **($c \leq 10^{10^7}$)**.

Output:

- A single positive integer, which is the largest possible number.

Example:

INPUT	OUTPUT
9 2004 7	972004

The problem has **14** test cases.

- For the first **2** test cases, $a, b, c \leq 10^{18}$.
- For the next **2** test cases, $a, b, c \leq 10^{10^{255}}$.
- For the next **4** test cases, $a, b, c \leq 10^{10^4}$.
- For the next **5** test cases, $a, b, c \leq 10^{10^{5\times10^6}}$.
- For the final test case, $a, b, c \leq 10^{10^7}$.