Generate largest anagram of secret

Description

The same story about anagram of secret:

Write a program that can read one number word and give its largest anagram of secret.

An anagram of secret is a game that a new number is created by rearranging every single digit found in the original number.

Input

Each case has one line.

The input n consists of a single number represented as a word.

Constraints:

- $0 < \text{length}(n) < 10^7$
- There won't be a test case starting with zero. For example, 00001 is not a valid input so it won't be in the test cases.

Output

Give its largest anagram of secret.

Sample Input 1

```
6703430
```

Sample Output 1

```
7643300
```

Sample Input 2

```
12610281064202890527385606247166999411423385177115806616796475086845313865063277995095808105778551059
```

Sample Output 2

```
9999999998888888888887777777777666666666666655555555555544444443333333222222221111111111111000000000000
```

Hint

Use the occurrences of all digits to generate a number from the large digit to small digit.

Note: There are some common errors you might encounter

- your code should run as fast as possible; otherwise you will get "Time Limit Exceeded" error
- if your array is too large, you will get a "Memory Limit exceeded" or "Runtime Error"

```c
#include <stdio.h>

int main(void) {
    // TODO
    char c;
    while(scanf("%c", &c) != EOF) {
        int number = c - '0';
        // TODO
    }
    // TODO: print out the answer
}
```

Information

ID	mid_09
Time Limit	500MS
Memory Limit	5MB
IO Mode	Standard IO
Created By	cherryping
Level	Low
Score	96
Tags	Show

Statistic

Details

AC   WA

WA: 4
28.57%

AC: 10
71.43%