

C++ Fundamentals: Second Exam

The following tasks should be submitted to the SoftUni Judge system, which will be open starting Sunday, 28 January 2018, 09:00 (in the morning) and will close the same day at 15:00. Submit your solutions here:

<https://judge.softuni.bg/Contests/Compete/Index/923>.

For this exam, the code for each task should be a single C++ file, the contents of which you copy-paste into the Judge system.

Please be mindful of the strict input and output requirements for each task, as well as any additional requirements on running time, used memory, etc., as the tasks are evaluated automatically and not following the requirements strictly may result in your program's output being evaluated as incorrect, even if the program's logic is mostly correct.

You can use C++03 and C++11 features in your code.

Unless explicitly stated, any integer input fits into **int** and any floating-point input can be stored in **double**. On the Judge system, a C++ **int** is a **32-bit** signed integer and a C++ **double** is a **64-bit** IEEE754 floating point number.

NOTE: the tasks here are NOT ordered by difficulty level.

Task 1 – Unused (Second-Exam-Task-1-Unused)

Every letter wants to be used, otherwise – in today’s day and age – it can sue the user for lack of diversity in their text. That means that everyone that creates text these days needs to include every letter from the English alphabet (*What, you say that the English alphabet isn’t the only one out there? Well, fighting for diversity is hard, we need to start with an easy alphabet initially...*).

To help them, you are tasked with writing a program, which shows lowercase English letters which are NOT used in a certain string (sequence of letters) of lowercase English letters, ordered alphabetically.

Input

The only line of the standard input will contain a single string, i.e. a sequence of lowercase English letters in the range (**a-z**).

Output

A single line, containing a sequence of lowercase English letters (**a-z**) which are not used in the input string, ordered alphabetically.

Restrictions

The input string will contain no more than **100** symbols.

The input string will contain at least **1** symbol. The input string may have repeated symbols.

There will be at least **1** unused English letter in the input.

The total running time of your program should be no more than **0.1s**

The total memory allowed for use by your program is **16MB**

Example I/O

Example Input	Expected Output
acefghijklmnopqrstuvwz	bdxy