Day 1 Div C. Dynamic Programming

9 Mar 2019, 20:46:18
start: 9 Mar 2019, 17:00:00
finish: 9 Mar 2019, 21:00:00
till the end: 00:13:39
start: 9 Mar 2019, 17:00:00
end: 9 Mar 2019, 21:00:00
duration: 04:00:00

F.

Time limit	1 second
Memory limit	64Mb
Input	standard input or input.txt
Output	standard output or output.txt

Common subsequence of two strings s_1 and s_2 is a pair of sequences of indices $(\{a_i\},\{b_i\})$ such that $a_1 < a_2 < \ldots < a_k$, $b_1 < b_2 < \ldots < b_k$, and $s_1[a_i]=s_2[b_i]$ for all $1 \le i \le k$.
Find the longest common subsequence of two strings.

Input format

First and second lines contain two non-empty strings which consist of lowercase Latin letter. Lengths of both string don't exceed 100.

Output format

In the first line, print integer k — length of the longest common subsequence.
In the second line, print k integers — indices of symbols of longest common subsequence in first sequence sorted by an increasing.

In the third line, analogically — indices of symbols of longest common subsequence in second sequence sorted by an increasing.

Symbols in strings are numbered starting from 1.

If there are multiple ways to choose largest common subsequence, print any one of them.

Sample

Input	Output
abcd cxbydz	2 3 4 1 5

Language GNU c11 4.9

Type here Send file

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1
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Submit

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