

Sherlock saves Watson

Problem

Submissions

Leaderboard

Discussions

Moriarty kidnaps Watson and hides him in a safehouse. Since Moriarty always loves challenges, he sends Sherlock two strings s and t and challenges him to find a string k that would provide the GPS coordinates of Watson's location.

Sherlock being a smart detective, comes up with a procedure to get the string k from the strings s and t as follows:

1. k is an anagram of s
2. The number of non-overlapping occurrences of t as a substring in k is maximum possible
3. k is lexicographically smallest among all the strings following conditions 1 and 2

Since Sherlock is bad at writing code, could you help him find the string k given strings s and t ?

Input Format

The first line contains string s .

The second line contains string t

Strings s and t contain only lowercase alphabets. ('a' - 'z')

Constraints

 $1 \leq |s| \leq 500,000$
$$1 \leq |t| \leq 500,000$$

Output Format

In the only line print the required string k as described in the problem statement.

Note: There always exists a unique solution.

Sample Input 0

abcabc
cba

Sample Output 0

cbacba



Submissions: 139

Max Score: 100

Difficulty: Hard

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C++

```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

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Run Code

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