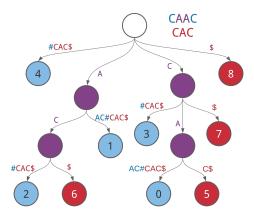
9F Find the Shortest Non-Shared Substring of Two Strings

Shortest Non-Shared Substring Problem

Find the shortest substring of one string that does not appear in another string.

Input: Strings $Text_1$ and $Text_2$.

Output: The shortest substring of $Text_1$ that does not appear in $Text_2$.



Formatting

Input: A pair of strings $Text_1$ and $Text_2$.

Output: The shortest substring of $Text_1$ that does not appear in $Text_2$.

Constraints

• The lengths of $Text_1$ and $Text_2$ will be between 1 and 10^3 .

Test Cases

Case 1

Description: The sample dataset is not actually run on your code.

Input:

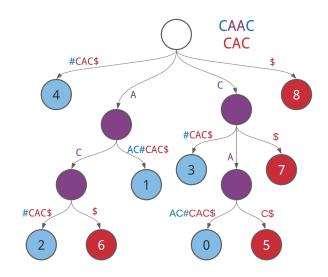
CAAC

CAC

Output:

AA

Figure:



Case 2
Description: $Text_1$ and $Text_2$ are identical.
Input:
GAGCAT
GAGCAT
Output:
Case 3
Description: $Text_1$ and $Text_2$ only differ by one character.
Input
Input: GAGT
GAGC
GAGC
Output:
T
Case 4
Description: $Text_1$ and $Text_2$ are completely different (no shared characters).
Input:
GG
CT
Output:
\mathbb{C} or \mathbb{G} or \mathbb{T} (you will not be penalized for having one over the other, but make sure you only output one).
c of c of 1 (you wan not be permuzed for making one over the other, but make sure you only output one).
Case 5
Description: $Text_1$'s prefix is the same as $Text_2$'s suffix, or vice versa.
Input
Input: CGAGCATA
ATACGAGC
Output:
AC or CA (you will not be penalized for having one over the other, but make sure you only output one).

Case 6

Description: A larger dataset of the same size as that provided by the randomized autograder. Check input/output folders for this dataset.