

淡江大學電機工程學系 106 學年度韌體實驗題目

8. 【古老的密碼/Ancient Cipher】

給定兩個長度相同且不超過 100 的字串，判斷是否能把其中一個字串的各個字母重排，然後對 26 個字母做一個一一映射，使得兩個字串相同。例如：JWPUDJSTVP 重排後可以得到 WJDUPSJPVT，然後把每個字母映射到它前一個字母（B->A, C->B, ..., Z->Y, A->Z），得到 VICTORIOUS。

輸入兩個字串，輸出 YES 或者 NO。

輸入（註）：

JWPUDJSTVP

VICTORIOUS

MAMA

ROME

HAHA

HEHE

AAA

AAA

NEERCISTHEBEST

SECRETMESSAGES

輸出：

YES

NO

YES

YES

NO

（註）

Input

Input file contains several test cases. Each of them consists of two lines. The first line contains the message engraved on the plate. Before encrypting, all spaces and punctuation marks were removed, so the encrypted message contains only capital letters of the English alphabet. The second line contains the original message that is conjectured to be encrypted in the message on the first line. It also contains only capital letters of the English alphabet.

The lengths of both lines of the input file are equal and do not exceed 100.