String subsequence P40306_en

You are given two strings s and t with respective lengths m and n. Tell if s is a subsequence of t, that is, if there is a subset of m positions of t, $0 \leq j_0 < \cdots < j_{m-1} < n$, such that $s[i] = t[j_i]$ for all $0 \leq i < m$. Additionally, tell if there is just one such subset of positions.

Input

Input consists of several cases, each with s and t. You can assume $1 \leq |s| \leq |t| \leq 10^5$, and that the words are made up of only digits and lowercase and uppercase letters.

Output

For every case, tell if there are zero solutions, just one solution, or multiple solutions.

Sample input 1

```
abba bbaa
abba cacbcbca
abba dababcbaa
Z ZZ
r2d2 c3po
```

Sample output 1

```
zero
one
multiple
multiple
zero
```

Problem information

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