A missing letter   P57710_en

You want to build a word s by using the letters of another word t. You can cut t into smaller pieces, decide which of them to use, and reorder them as you wish. Moreover, you will be happy if at most one of the letters of s is missing. Would you be able to achieve your goal?

Input

Input consists of several pairs of s and t, both with between 1 and 10^5 lowercase letters.

Output

For every case, print "yes" if you can (almost) build s, and "no" otherwise.

Sample input 1

```
abba baba
abba abac
abba abcdefgh
zzzzz zzz
```

Sample output 1

```
yes
yes
no
no
```

Problem information

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