
Anagrams

P71916_en

Two sentences (or two words) are *anagrams* if one can be obtained from the other one simply reordering their letters (forgetting the spaces and the punctuation symbols).

For instance, "ROME" and "MORE" are anagrams. Also, "AVE MARIA, GRATIA PLENA, DOMINUS TECUM" and "VIRGO SERENA, PIA, MUNDA ET IMMACULATA" are anagrams.

Write a program that prints if the pairs are or are not anagrams.

Input

Input starts with a number n . After, each sentence is given in a line ending in a dot. The sentences may contain uppercase letters, spaces and punctuation symbols (but only a dot in the end).

Output

For each pair of sentences, print "YES" if they form an anagram and "NO" otherwise.

Sample input

```
3
ROME.
MORE.
AVE MARIA, GRATIA PLENA, DOMINUS TECUM.
VIRGO SERENA, PIA, MUNDA ET IMMACULATA.
ARMY.
MARY.
```

Sample output

```
YES
YES
YES
```

Problem information

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