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

Author : Jordi Petit
Translator : Carlos Molina
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