Word Anagrams

You are given a word **W** and words **WORDS**. You tasks is to check whether the words from **WORDS** are anagrams of **W**.

An anagram of a word is each word that has absolutely the same number of characters in any order. Example:

- The following are anagrams of "anagram":
    - "gramana", "aaagrnm", "margana", etc..
- The following are NOT anagrams of "anagram":
    - "aanagram", "aaagram", "anagra", "anagrama", "yxy"

Input

Read from the standard input

- On the first line, find the word **W**
- On the second line, find **N** - the number of words in **WORDS**
- On the next **N** lines, find a single word from **WORDS**

Output

Print to the standard output

- For each word from **WORDS** print either:
    - "Yes", if the word is an anagram of **W**
    - "No", if the word is NOT an anagram of **W**

Sample tests

Input

```
anagram
6
gramana
aaagrnm
anagra
margana
abc
xy
```

Output

Yes
Yes
No
Yes
No
No