1468 - Vasha Poetry

Description

Vasha is a genre of Japanese traditional poetry. A haiku poem consists of 17 syllables split into three phrases, containing 5, 7 and 5 syllables correspondingly (the first phrase should contain exactly 5 syllables, the second phrase should contain exactly 7 syllables, and the third phrase should contain exactly 5 syllables). A haiku masterpiece contains a description of a moment in those three phrases. Every word is important in a small poem, which is why haiku are rich with symbols. Each word has a special meaning, a special role. The main principle of haiku is to say much using a few words. To simplify the matter, in the given problem we will consider that the number of syllable in the phrase is equal to the number of vowel letters there. Only the following letters are regarded as vowel letters: "a", "e", "i", "o" and "u". Three phases from a certain poem are given. Determine whether it is haiku or not.

Input specification

There is a number T <= 25 in the first line, the number of test cases. Each test case consists of three lines, the phrases of the given poem, may be a haiku. The length of each line is between 1 and 100, inclusive. Each phrase consists of one or more words, which are separated by one or more spaces. A word is a non-empty sequence of lowercase Latin letters. Leading and/or trailing spaces in phrases are allowed. Every phrase has at least one non-space character. See the example for clarification.

Output specification

For each test case print "YES" if the poem is a haiku. Otherwise, print "NO".

Sample input

```
2
on vashacodes vasha contest is running
         a cuple of days
```

```
how many vashas with edos rain did you drink
                    golekid
```

Sample output

```
YES
NO
```

Hint(s)

Source	Yonny Mondelo Hernández (UCI)
Added by	**ejaltuna**
Addition date	2011-10-13 02:44:42.0
Time limit (ms)	3000
Test limit (ms)	1000
Memory limit (kb)	65536
Output limit (mb)	64
Size limit (bytes)	100000
Enabled languages	C C# C++ Java Pascal Perl PHP Python Ruby Text