

EuroPython 2011

[A. Centauri Prime](#)[B. Music Collection](#)**[C. Irregular Expressions](#)**[D. Twibet](#)[Questions asked](#)

Submissions

Centauri Prime

7pt	Not attempted 41/42 users correct (98%)
8pt	Not attempted 10/38 users correct (26%)

Music Collection

8pt	Not attempted 16/27 users correct (59%)
12pt	Not attempted 15/16 users correct (94%)

Irregular Expressions

10pt	Not attempted 14/16 users correct (88%)
15pt	Not attempted 8/14 users correct (57%)

Twibet

15pt	Not attempted 16/16 users correct (100%)
25pt	Not attempted 13/16 users correct (81%)

Top Scores

charango	100
JPerla	100
valentin	92
RadomirDopieralski	77
vad	77
fox91	77
fon	75
mstepniowski	75
alexamici	72
davider	67

Problem C. Irregular Expressions

This contest is open for practice. You can try every problem as many times as you like, though we won't keep track of which problems you solve. Read the [Quick-Start Guide](#) to get started.

Small input
10 points

[Solve C-small](#)

Large input
15 points

[Solve C-large](#)

Problem

You are competing at the 2011 World Witch and Warlock Tournament. In this round of the competition, the Head Witch challenges all contestants to test their spell deflection skills. Contestants stand in a circle, and the Head Witch stands in the center and starts casting spells. The contestants then have to cast counter-spells as quickly as possible. Any contestant who is too slow risks being turned into a toad or petrified.

Each spell that the Head Witch casts consists of three words -- the start, the middle and the end. Each word consists of one or more syllables. The start word is always the same as the end word and consists of at least two syllables. A syllable consists of any number of letters, including exactly one vowel. There are 5 vowels: 'a', 'e', 'i', 'o' and 'u'. All other letters are considered to be consonants, including the letter 'y'.

Examples of valid syllables are "ab", "ra", "cad", "o" and "shabbr". Strings like "ero" and "grrgh" are not valid syllables.

To make things more difficult, the Head Witch speaks very fast, so you cannot easily figure out where one word ends and another one begins. What's worse, she sometimes says some useless gibberish before and after the spell in order to confuse the contestants, or she may not even cast any spell at all and say something completely unrelated instead.

For example, she may say "abracadabra", which is a valid spell because it consists of the words "abra", "cad" and "abra", with the start word and the end word being the same. The word "abra" consists of two syllables -- "ab" and "ra". The word "cad" consists of one syllable -- "cad". (Alternatively, "abra" could also be interpreted as "a-bra" or "abr-a".)

The Head Witch might also say "kajabbamajabbajab", which contains the spell "jabba ma jabba". Or she might say "frufрумfuffle", which is gibberish and does not contain any spells.

For each expression that the Head Witch says, you want to determine quickly whether the expression contains a spell or not. Your molecular integrity depends on it! Fortunately, you have managed to conjure up a computer. Now all you need to do is determine which of the Witch's expressions contain spells.

Input

The first line of the input gives the number of test cases, **T**. **T** lines follow. Each one contains an expression, consisting of one or more lower case English letters and no spaces.

Output

For each test case, output one line containing "Case #x: y", where x is the case number (starting from 1) and y is either "Spell!" or "Nothing." (be careful with spelling and punctuation).

Limits

$1 \leq T \leq 100$.

Small dataset

At most 20 characters in each expression.

Large dataset

At most 100 characters in each expression.

Sample

Input	Output
4	Case #1: Spell!
abracadabra	Case #2: Spell!
kajabbamajabbajab	Case #3: Nothing.
frufрумfuffle	Case #4: Nothing.

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