

# Word Pronunciation

Time Limit : 1 Second

Memory Limit : 512 MB

Indonesian words can be considered as *easy* to pronounce. Normally, you will be able to pronounce a word without difficulty (not considering accent) if you know how to spell it, regardless whether you have heard that word before.

Most of the vocabularies in Indonesian (Bahasa Indonesia) are easy to pronounce as well. The word often consists of alternating consonants and vowels, e.g., "api" (vowel-consonant-vowel), "batu" (consonant-vowel-consonant-vowel), "belajar", "ikan", etc. Of course, there are other words such as "air" (vowel-vowel-consonant) and "citra" (consonant-vowel-consonant-consonant-vowel) which do not follow the alternating rule.

In this problem, you are to find whether the given word satisfies the alternating rule (consists of alternating consonants and vowels). If by any chance you don't know what consonants and vowels are, here is a useful list for you to use.

Consonants: b c d f g h j k l m n p q r s t v w x y z ng

Vowels: a i u e o

One thing you should pay attention to is: The sequence of one 'n' followed by one 'g' (ng) is considered as one character in this problem, which is a consonant (look at the list of consonants above). For example, the word "abang" consists of 4 characters: a-b-a-ng, and the word "penggaris" consists of 8 characters: p-e-ng-g-a-r-i-s.

For each word, you should capitalized the characters which are part of two (or more) consecutive consonants or two (or more) consecutive vowels.

## Input

Input begins with an integer:  $T$  ( $1 \leq T \leq 100$ ) denoting the number of cases.

*Each case contains the following input block:* Each case contains one string of lowercase characters:  $S$  ( $1 \leq |S| \leq 100$ ) in a single line denoting the given word.

## Output

For each case, output in a line "Case #X: Y" where  $X$  is the case number (starts from 1) and  $Y$  is the given word in which every character which is part of two (ore more) consecutive consonants or two (or more) consecutive vowels is capitalized (uppercased). See the example output for clarity.

## Examples

input	Example #1
7 belajar juara pengajaran kemplang abang	

penggaris  
indonesia

### output

Case #1: belajar  
Case #2: jUAra  
Case #3: pengajaran  
Case #4: keMPLang  
Case #5: abang  
Case #6: peNGGaris  
Case #7: iNDonesIA

*End of Problem*