

international collegiate programming contest INDONESIA NATIONAL CONTEST INC 2024



Problem A Problem C

The English language is infamous for having an inconsistent spelling system. One feature in the spelling system that you are interested in is the usage of the letter c. The letter c can be pronounced in multiple different ways, which might be confusing for the speaker. However, there are some simplified patterns to help speakers determine which pronunciation to use.

- It is pronounced as \(k \) if it is either: followed by a, o, or u; followed by a consonant letter other than h and y; or at the end of a word. The consonant letters are the English letters excluding the vowel letters: a, e, i, o, and u.
- It is pronounced as (s) if it is followed by e, i, or y.
- The pair of adjacent letters ch is pronounced with a unique sound (c).

You are given N words: S_1, S_2, \ldots, S_N . For each given word, simplify the spelling system by replacing every occurrence of c into k or s (for the sound $\langle k \rangle$ and $\langle s \rangle$ respectively) according to the patterns above and every occurrence of ch into c.

Input

The first line consists of an integer N ($1 \le N \le 100$).

Each of the next N lines consists of a string S_i . String S_i consists of only lowercase English letters, and its length is between 1 and 100.

Output

For each word, output a single line containing a string that represents the simplified spelling system of string S_i according to the patterns above.

Sample Input #1

10	
cyan	
circle	
ceramic	
соссух	
delicacy	
chacha	
coach	
blackjack	
church	
hiccup	

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Sample Output #1

syan	
sirkle	
seramik	
koksyx	
delikasy	
caca	
koac	
blakkjakk	
curc	
hikkup	

Sample Input #2

caesar
cillian
celtic
character
chef
echelon

Sample Output #2

kaesar
sillian
seltik
carakter
cef
ecelon

Sample Input #3

4
cacbcccdcecfcgchcicjckclcmcncocpcqcrcsctcucvcwcxcyczc
abdefghijklmnopqrstuvwxyz
cchh
cc

Sample Output #3

kakbkkkdsekfkgcsikjkkklkmknkokpkqkrksktkukvkwkxsykzk
abdefghijklmnopqrstuvwxyz
kch
kk

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