J. Raju and Lali

Score: 1

CPU: 1s
Memory: 512MB

Do you remember Lali ? The great cow Meena and Raju's family. Last year Raju got admitted into a University and started programming contests. We all know how busy we are, don't we ? So, Raju becomes so busy that he has very little time chat with his best friend Lali. Whenever he gets free time, he sends a message to Lali via Rantages(a social media in parallel universe). But in a shorter form. He does a change in every word. He chooses the longest prefix and longest suffix of the word that contains only vowels and does not change them. For the middle part of the word he eliminates all the vowels. Thus his message becomes shorter. In this problem you will be given some words that Raju wants to send to Lali. You will rewrite them according to Raju's rule of messaging.

a word consists of only lowercase and uppercase English letters. The **vowels** are **{A,a,E,e,I,i,O,o,U,u,Y,y}**. A **prefix** is a substring of a string that no other character can be found before that substring. If XYZ is a string then X,XY or XYZ is a prefix of that string but Y or YZ is not. A **suffix** is a substring of a string that no other character can be found after that substring. If XYZ is a string then Z,YZ or XYZ is a sufffix of that string but Y or XY is not. Even the prefix and suffix can be empty too.

Input

Input starts with an integer, **T**, denoting the number of test cases. In next **T** lines there will be a string, **W**, denoting the word Raju wants to send.

Output

For each test case print a single string, **S**, denoting the changed word according to Raju's rule.

Constraints

1 <= T <= 10000

1 <= size of each word <= 50

word contains only lowercase and uppercase English alphabets.

Sample

Input	Output
4 Raju Lali ishkuL Dokandar	Rju Lli ishkL Dkndr

Longest prefix with vowels(LPV) of "Raju" is empty and longest suffix with vowels(LSV) of "Raju" is "u". So eliminate the vowels from "aj".

LPV of "Lali" is empty and LSV of "Lali" is "i". So eliminate the vowels of "al".

LPV of "ishkuL" is "i" and LSV of "ishkuL" is empty. So eliminate the vowels of "shku".

Both the LPV and LSV of "dokandar" is empty. So eliminate the vowels of "dokandar".