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Knowledge Management

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CS/KSCP/101

Type : Implementation

Topic : Kick Start (Code Practice) Sect #1
"Centauri Prime"

Discipline of Learning : • Computer Science
• Programming (1) in Python 3
• String Operation (String Method)
• Character Operation

Contents:

* This kind of "Knowledge" registrations will merge into the sub-directing.

In this question, participants should distinguish servals 'String' of kingdom names that belong to which player in a game called "Centauri Prime".

Rule of the game is simple, if the 'String' last alphabet is vowel, that belong to Alice; other (is consonant) belong to Bob. Be caution that any 'String' last alphabet is 'y' (in case insensitively) denoted that they neither belong to.

The solution is easy, no OOP is needed. taking each String to temp storage of each test case as local variable. Then a simple nested if statement is suitable, and sufficiently for this algorithm.

The first tier of statement is sorting out the kingdom names that end with 'y'; then second tier is sorting out names that only contain with vowels. Finally, the unfulfilled arguments will return as "Bob".

Coding Practice with Kick Start Session #1 - Kick Start 2022

Centauri Prime

Problem

[Download the Starter Code!](#)

Alice and Bob are playing the game called Centauri Prime. Centauri Prime represents a planet which is split into several independent kingdoms. Before they start playing the game, they have to choose rulers for each kingdom. Alice and Bob mutually decided to distribute kingdoms based on the letter the kingdom's name ended with. Alice loves vowels and decided to rule kingdoms whose names ended in a vowel. Bob loves consonants and decided to rule kingdoms whose names ended in a consonant. Both of them do not like the letter 'y' (case insensitive) and thus, all kingdoms whose names ended in the letter 'y' are left without a ruler. Can you write a program that will determine the rulers of several kingdoms, given the kingdoms' names?

Input

The first line of the input gives the number of test cases, T . T lines follow, each one containing the name of one kingdom. Kingdom names will consist of only lower case English letters, starting with a capital letter. There will be no other characters on any line, and no empty lines. List of vowels for this problem is ['A', 'E', 'I', 'O', 'U', 'a', 'e', 'i', 'o', 'u'].

Output

For each test case, output one line containing Case #xx: KK is ruled by YY., where xx is the case number (starting from 1), KK is the kingdom name, and YY is either Alice, Bob or nobody.

Be careful with capitalization and the terminating period. Your output must be in exactly this format. See the examples below.

Limits

Time limit: 30 seconds.

Memory limit: 1 GB.

$1 \leq T \leq 300$ $1 \leq \text{length} \leq 300$.

Test Set 1

Each kingdom name will have between 33 and 2020 letters.

Test Set 2

Each kingdom name will have at most 100100 letters.

Sample

Sample Input

```
3
Mollaristan
Auritan
Zizily
```

← T
3 Test case

save_alt content_copy

Sample Output

```
Case #1: Mollaristan is ruled by Bob.
Case #2: Auritan is ruled by Alice.
Case #3: Zizily is ruled by nobody.
```

In Sample Case #1, the name of the kingdom ends with 'n' which is a consonant and thus, it is ruled by Bob.

In Sample Case #2, the name of the kingdom ends with an 'a' which is a vowel and thus, it is ruled by Alice.

In Sample Case #3, the name of the kingdom ends with 'y' which is not liked by both of them and thus, it is ruled by nobody.

