# Where Does it Fit?

For an input word, determine whether it is alphabetically located before the word EXERCISE, after the word MUSCLES, or between EXERCISES and MUSCLES.

## Input

The first line of the data set for this problem is an integer that represents the number of words in the list. Each word is on a separate line.

### **Output**

The output is to be formatted exactly like that for the sample output given below.

# **Example**

### Input:

4 REST ACHE STRETCH GYM

#### **Output:**

REST IS AFTER MUSCLES
ACHE IS BEFORE EXERCISE
STRETCH IS AFTER MUSCLES
GYM IS BETWEEN EXERCISE AND MUSCLES