**Fake Profile**

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There is a hacker named "Vijay" who has developed a method to check whether an id at some social networking site is fake or real using its username.

His method includes: if the number of distinct characters in one's user name is odd, then the user is a male, otherwise a female. You are given the string that denotes the user name, please help Vijay to determine the gender of this user by his method. Ignore the vowels.  
  
**Input:**  
The first line contains a integer T i.e. the number of test cases. Each test case contains string S that contains only lowercase English letters — the user name.  
  
**Output:**  
If it is a female by Vijay's method, print "SHE!" (without the quotes), otherwise, print "HE!" (without the quotes).  
  
**Constraints:**  
1<=T<=100  
1<=Length of string<=1000

**Time Complexity:O(n)**  
  
**Examples:**  
**Input :**  
3  
jpmztf  
plkaitw  
gfuyg  
  
**Output:**  
SHE!  
HE!  
HE!  
  
**Explanation:**  
For the first test case. There are 6 distinct characters in "jpmztf". These characters are: "j", "p", "m", "z", "t", "f". So jpmztf is a female and you should print "SHE!".

For the second example. There are 5 distinct characters in "plkaitw". These characters are: "p"," l ","k","t"and"w" as others are vowels. So plkaitw is a male and you should print "HE!".

\*\*For More Examples Use Expected Output\*\*

<http://practice.geeksforgeeks.org/problems/fake-profile/0>

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package javaapplication249;

import java.io.BufferedReader;

import java.io.IOException;

import java.io.InputStreamReader;

import java.util.ArrayList;

import java.util.Collections;

import java.util.HashSet;

/\*\*

\*

\* @author Administrador

\*/

public class JavaApplication249 {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) throws IOException {

// TODO code application logic here

//int arr[] = {2, 4, 5};

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

int t = Integer.parseInt(br.readLine());

while(t-- > 0) {

String s = br.readLine();

String vocales = "aeiou";

HashSet<Character> hs = new HashSet<Character>();

for(int i =0; i<s.length(); i++) {

if(!vocales.contains(String.valueOf(s.charAt(i)))) {

hs.add(s.charAt(i));

}

}

if(hs.size() %2 !=0) {

System.out.println("HE!");

}

else{

System.out.println("SHE!");

}

}

}

}