4995 - Language Detection

Asia - Kuala Lumpur - 2010/2011

English, Spanish, German, French, Italian and Russian are the 6 most prominent languages in the countries of European Union. Figure on the left shows intensity of English speaking people in different European countries. All of these languages have different words to represent the English word HELLO . For example in Spanish the word equivalent to HELLO is HOLA . In German, French, Italian and Russian language the word that means (or similar to) HELLO is HALLO , BONJOUR , CIAO and ZDRAVSTVUJTE respectively.

In this problem your task is pretty simple. You will be given one of the six words mentioned above or any other word and you will have to try and detect the language it is from.

Input

Input file contains around **2000** lines of inputs. Each line contains a string **S**. You can assume that all the letters of the string are uppercase English letters and the maximum length of the string is **14**. Input is terminated by a line containing a single # character (without the quote). This line should not be processed.

Output

For each line of input except the last one produce one line of output.

This line contains the serial of output followed by a language name. If the input string is **HELLO** or **HOLA** or **HALLO** or **BONJOUR** or **CIAO** or **ZDRAVSTVUJTE** then you should report the language it belongs to. If the input string is something other than these 6 strings print the string **UNKNOWN** (without the quotes) instead. All characters in the output strings are uppercase as well. Look at the output for sample input for formatting details.

Sample Input	Output for Sample Input
HELLO HOLA HALLO BONJOUR CIAO ZDRAVSTVUJTE #	Case 1: ENGLISH Case 2: SPANISH Case 3: GERMAN Case 4: FRENCH Case 5: ITALIAN Case 6: RUSSIAN

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