

Similar strings

Write a program which, after reading two strings from the keyboard, displays the **EQUAL** message if the two strings are the same, **SIMILAR** if the strings differ only in the use of lowercase letters and uppercase, **DIFFERENT** otherwise (strings can contain spaces).

Input

The first line contains the string A.

The second line contains the string B.

Output

The first line displays the message. (EQUAL, SIMILAR, DIFFERENT)

Sample input

Sample output

FGPE fgpe	SIMILAR
This is a test THIS IS	DIFFERENT
Hello world! Hello world!	EQUALS