# **Problem 1 – Cognate Words**

You are a given **string** in a single line. Assume "words" are all sequences of **Latin letters**. For example in the input string "**java.**.? **| basics/\*-+=javabasics**" we have 3 words: "**java**", "**basics**" and "**javabasics**".

Write a program to find in the input string all **unique** sets of 3 "words" {**a**, **b**, **c**}, such that **a** | **b** = **c**. Assume that "**a** | **b**" means to concatenate the "word" **b** after **a**. We call these "words" {**a**, **b**, **c**} **cognate words**.

For example in the input string "java..?|basics/\*-+=javabasics" we have one cognate: java|basics=javabasics.

Notes: All "words" must be case sensitive! Don't repeat the cognate words in the output.

#### Input

The input comes from the console. It hold a single text line – the input string.

The input data will always be valid and in the format described. There is no need to check it explicitly.

## Output

Print at the console all **cognate words** {**a**, **b**, **c**} found in the input sequence in format "**a**|**b**=**c**" (without any spaces), each at a separate line. The **order** of the output lines **is not important**. Print "**No**" in case no cognate words exist among the input sequence of characters.

#### **Constraints**

- The characters in the input string will be no more than: **1000.**
- Time limit: 0.3 sec. Memory limit: 16 MB.

## **Examples**

Input	Output
java? basics/*-+=javabasics	java basics=javabasics
Hi, Hi, Hihi	No
Uni(lo,.ve=I love SoftUni (Soft)	Soft Uni=SoftUni lo ve=love
а а аа а	a a=aa
x a ab b aba a hello+java a b aaaaa	a b=ab ab a=aba
aa bb bbaa	bb aa=bbaa
ho hoho	No





















