7 Dermatoglyphics
4 points

Introduction

Dermatoglyphics, what a word! It is the science of the study of skin patterns observed in fingerprints, lines, mounts and shapes of hands. But this word is special for another reason, it is the longest isogrammic word known in English. An isogrammic word, is a word without a repeating letter.

Checking whether a word is an isogrammic one or not can be so tedious. Can you write a simple program to determine whether a word is isogrammic or not?

Input

The input will be a single word.

Output

The output will print a single line stating if the word is isogrammic:

`Isogram detected`

Otherwise the output will be:

`Not an isogram`

Example 1

Input

pool

Output

Not an isogram

Example 2

Input

Dermatoglyphics

Output

Isogram detected