First Equal Length Words   X43690_en

Write a program that reads a sequence of words, and locates the first two words with the same length. Note that the second element of this pair is the first word to appear with a length that has already been seen in some previous word in the sequence.

For instance, for sequence: `mouse dog crocodile bat horse` the output must be `dog`, `bat`, since it is the first pair of words with the same length.

If no pair with the same length is found, the program output must be "`All words have different lengths`".

Input

The input is a sequence of words.

Output

The output is the first pair of words with the same length.

Problem information

Author: ProAl

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