
Those Lengthy Words

X20334_en

Write a program that reads a sequence of words, creates groups of words with the same length, and prints the group with longer words. Groups of just one word are not considered. For instance, the sequence: `cat mouse dog fly crocodile bat horse` contains a group of one word with 9 letters (`crocodile`), a group of 2 words of length 5 (`mouse`, `horse`), and a group of four 3-letter words (`cat`, `dog`, `fly`, `bat`).

Thus, the output must be `mouse horse`, since it is the group (with more than one word) that contains longer words.

If no groups with more than one word are found, the program output must be `"All words have different lengths"`.

Input

The input is a sequence of words.

Output

The output is the group of equal-length words which are longer than words in any other group, discarding groups of size 1.

Problem information

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