Character trigrams   X63076_en

A character trigram is a group of three consecutive characters as they appear in a word. For example, the word "hello" contains the trigrams "hel", "ell", and "llo".

1. Write a function that receives a word and returns a list of its character trigrams.

   ```
   >>> trigrams('hello')
   ['hel', 'ell', 'llo']
   >>> trigrams('crocodile')
   ['cro', 'roc', 'oco', 'cod', 'odi', 'dil', 'ile']
   >>> trigrams('hi')
   []
   ```

2. Write a program that reads a sequence of words and prints the pairs of consecutive words in the sequence that have at least one trigram in common. The program must use the `trigrams` function defined above.

   Hint: It may be useful to define another function that checks whether two lists of trigrams have at least a common element

Input

The input is a sequence of words, all of them contain only lowercase letters.

Output

The output is a list of word pairs that are consecutive in the input sequence and have some common trigram.

Problem information

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