Permutations with repetition

Write a program that, given \( n \) different words \( s_1, \ldots, s_n \), prints all the permutations with repetitions that can be made with the words.

**Input**

Input consists of a natural number \( n > 0 \), followed by \( s_1, \ldots, s_n \).

**Output**

Print all the permutations with repetitions that can be made with \( s_1, \ldots, s_n \).

**Information about the checker**

You can print the solutions to this exercise in any order.

**Sample input**

3
hola adeu hi

**Sample output**

(hola, hola, hola)
(hola, hola, adeu)
(hola, hola, hi)
(hola, adeu, hola)
(hola, adeu, adeu)
(hola, adeu, hi)
(hola, hi, hola)
(hola, hi, adeu)
(hola, hi, hi)
(adeu, hola, hola)
(adeu, hola, adeu)
(adeu, hola, hi)
(adeu, adeu, hola)
(adeu, adeu, adeu)
(adeu, adeu, hi)
(adeu, hi, hola)
(adeu, hi, adeu)
(adeu, hi, hi)
(hi, hola, hola)
(hi, hola, adeu)
(hi, hola, hi)
(hi, adeu, hola)
(hi, adeu, adeu)
(hi, adeu, hi)
(hi, hi, hola)
(hi, hi, adeu)
(hi, hi, hi)

**Problem information**

Author: Salvador Roura
Translator: Carlos Molina
Generation: 2013-09-02 14:52:48