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The Virtual Learning Environment for Computer Programming

Consonants and vowels

Concurso On-line 6 (OIE08) (2008)

Your task is to write a program that reads *n* consonants and *n* vowels, and that prints all the words that can be formed using exactly once each one of the given letters. The words have to start in consonant, and must alternate consonants and vowels.

Input

The input consists of a natural n between 1 and 5, followed by n different consonants and n different vowels. The consonants as well as the vowels are given in alphabetical order.

Output

Your program must print all the words that can be formed with the 2n given letters, starting in consonant and alternating consonants and vowels. The words must be written in alphabetical order, one per line. Logically, it is not necessary that the generated words have any meaning.

Sample input 1

3 mpt aeo

Sample output 1

mapeto mapote matepo matope mepato mepota metapo metopa mopate mopeta motape motepa pameto pamote patemo patome pemato pemota petamo petoma pomate pometa potame potema tamepo tamope tapemo tapome temapo temopa tepamo tepoma tomape tomepa topame

Sample input 2

2 cs ao

Sample input 3

1 b u

Author: Salvador Roura

Problem information

Author : Salvador Roura Translator : Carlos Molina Generation : 2024-05-02 23:43:02

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Sample output 2

caso	
cosa	
saco	
soca	

Sample output 3

bu