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The Virtual Learning Environment for Computer Programming

Consonants and vowels

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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 ndifferent 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 2*n* 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

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

topema

Sample input 2

2 cs

ac

Sample output 2

Sample output 3

caso cosa saco soca

Sample input 3

1 b bu

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Problem information

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