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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 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

mapeto

mpt aeo mapeto

Sample output 1

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

cs ao

Sample output 2

caso cosa saco soca

Sample input 3

1 b u

Sample output 3

bu

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Problem information

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