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The Virtual Learning Environment for Computer Programming

Consonants and vowels

P49889_en

Write a program that reads n consonants and n vowels, and prints all the words that can be made up by using each letter exactly once. The words must begin with a consonant, and alternate consonants and vowels. In this exercise, we will assume that 'y' is a vowel.

Input

Input consists of a natural number n between 1 and 6, followed by n different consonants and n different vowels. Both consonants and vowels are given in alphabetical order.

Output

Print the words that can be made up with the 2n given letters, starting with a consonant and always alternating consonants and vowels. Print the words in alphabetical order, one per line.

Sam	ple	in	put	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 topema

Sample input 2

2 cs

a

Sample input 3

1 b у

Problem information

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Sample output 2

caso cosa saco soca

Sample output 3

by