
Without consecutive consonants**P98563_en**

Given n lowercase letters, print all the ways to arrange them so that no two consonants are consecutive.

Input

Input consists of the number of letters n , followed by n lowercase letters, all different.

Output

Print, in alphabetical order, all the words without two consecutive consonants that can be made up using all the letters exactly once. There will always be at least one possible word.

Sample input 1

3
aie

Sample output 1

aei
aie
eai
eia
iae
iea

Sample input 2

1
z

Sample output 2

z

Sample input 3

3
yxu

Sample output 3

xuy
yux

Problem information

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