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The Virtual Learning Environment for Computer Programming

Concatenated words

X67572_en

Given *n* words, print all the ways to concatenate them so that there are no two equal adjacent letters.

Input

Input consists of an *n* between 1 and 8, followed by *n* words, each one made up of between 1 and 10 lowercase letters. No word has two adjacent equal letters.

Output

Print all the correct ways to concatenate the *n* words, one per line.

Information about the checker

You can print the solutions to this exercise in any order.

Sample input 1	Sample output 1
2 z abcdz	zabcdz
Sample input 2	Sample output 2
3 adefghijka b cxyzc	adefghijkabcxyzc adefghijkacxyzcb badefghijkacxyzc bcxyzcadefghijka cxyzcadefghijkab cxyzcbadefghijka
Sample input 3	Sample output 3
2 ie ei	
Sample input 4	Sample output 4
3 a b b	bab bab

Problem information

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