



Objective

Your annual paintball competition is fast approaching and you get together with your friends to train. You are all over-equipped, armor, helmet, state-of-the-art semi-automatic weapon, grenade, etc. But that didn't stop you from being humiliated last year: your opponents took your fortress in less than 10 minutes.

This year, you decide to barricade your fortress and above all, to set up a security system so as only your teammates can get in. You have a great idea. The guardian of the fortress will shout a sentence with a certain number of words and the person wishing to enter will have to repeat the same sentence keeping only the words which are palindromes.

A palindrome is a string of characters that reads in the same way in both directions (right to left and left to right, for example "kayak" or "radar").

You are guaranteed that there will always be at least one palindrome in the sentence.

Data format

Input

Row 1: an integer **N** between 1 and 100 representing the number of words shouted by the fortress keeper.

Rows 2 to **N+1**: a string comprising between 3 and 10 characters in lowercase corresponding to a word shouted.

Output

The sentence consists only of palindromes separated by a space.