

Dictionary

Your task is to make a simple dictionary.

You will be given a paragraph. It is guaranteed that no punctuation symbol will be given in the input except dot "." and there will be only one space between words.

Input :

The first line of input is a integer T representing the number of test cases ($T \leq 10$). Each test case begins with a number N represents the number of lines of the paragraph in that test case. ($1 \leq N \leq 10$).

Then N lines there is a text S. ($1 \leq |S| \leq 10000$).

Output:

Output each word found in the paragraph only once in a lexicographical order. There will be a blank line between two cases. See the sample input output for clarity.

Sample:

Input	Output
2 3 dhaka city college. dhanmondi dhaka. bangladesh.	Case #1: bangladesh city college dhaka dhanmondi
2 argentina argentina argentina. argentinaaaaaaaaaa brazil.	Case #2: argentina argentinaaaaaaaaaa brazil