## Easy Sorting

Given is a list of words and a lexicographical ordering according to the ascii alphabet. Your task is to sort the words in increasing order.

## Input

The first line contains the numbers of test cases $k(k<100)$. Every test case consists of $n+1(1<n$ $<50000$ ) lines. Each line contains of a string of 10 characters. The first line of each test case contains n.

## Output

Output the sorted list of words.

## Example

Input:
2
2
helloworld
worldhello
2
aaaaaaaaaa
Aaaaaaaaaa

## Output:

helloworld
worldhello
Aaaaaaaaaa
aaaaaaaaaa

