Super Spell

Little Ron is struggling in his first year at Hogwarts magic school. Prof. Snape was not happy with his performance, so he gave him a small exercise to complete during his mid-year vacation. Ron has a collection of n spell strings. He has to select **exactly one** character from each spell string and make a new spell by concatenating each selected character. From the set of possible spells that can be formulated, the spell which is **lexicographically smallest** is called the super spell. Ron learned that he could score more if he could come up with the super spells. As Ron is not good at his studies and he needs your assistance. Help Ron to create the super spell for each collection of strings.

Input Format

The first line of input will be m, the number of string collections that Ron will be given.

The next lines will be as follows. For each spell collection, the first line will be n. (The number of spell strings in that collection.) n spells of that collection will be in the next n lines.

Constraints

$1 \leq m \leq 100$
$1 \leq n \leq 1000$

The maximum length of any spell in any collection will be 100.
The spell strings only contain lowercase letters.

Output Format

Output m lines, a line for each super spell.

Sample Input 0

```
2
3
asdfsdf
sdfsdfb
sfsdfd
2
xyztxc
pqurstwxe
```

Sample Output 0

```
abd
ce
```