## \#21 - Warming 2

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Alphabetic lovers found some random unordered alphabet. Please help them to arrange that aplhabetic string to ordered alphabet. Lowercase placed in front of (left) uppercase if the letter same.

## Input

The first line of input specifies the number $N$ of ranges, and each of the $N$ following lines contains unordered aplhabetic string which is no more than 100 characters length for each string.

## Output

For each alphabetic string, print the ordered string.
Sample Input
5
hrAvaO
AaBbCcDd
ABC
CAB
A

## Sample Output

```
aAhOrv
aA.bBcCdD
ABC
ABC
A
```


## Problem Requirement

Runtime Limit : 5 seconds
Memory Limit : 8000 bytes

