Question:

String Manipulation: Sort of String

You are given N strings.

For each string, perform the following sorting operations:

- 1. Rearrange the alphabets in the string in terms of frequency. i.e. the alphabet having greater frequency comes first.
- 2. If two or more alphabets have the same frequency, the alphabet which is lexicographically small comes first.

Write a program to perform the above sorting operations.

Note

- 1. The frequency of an alphabet is the number of times an alphabet appears in a string.
- Example: Consider the string aabaac; here, the frequency of a is 3, frequency of b is 1, and frequency of c is 1.
- 2. Lexicographic order is the way of ordering words based on the alphabetical order of English letters i.e. "a" is the smallest letter and "z" is the largest letter.

Function Description

In the provided code snippet, implement the provided **sortingOperations(...)** method using the variables to print the output. You can write your code in the space below the phrase **"WRITE YOUR LOGIC HERE"**.

There will be multiple test cases running so the Input and Output should match exactly as provided.

The base output variable **result** is set to a default value of **-404** which can be modified. Additionally, you can add or remove these output variables.

Input Format

The first line contains N, denoting the number of strings.

Next N lines contain strings on which sorting operation has to be performed.

Sample Input

2 -- denotes N abaccadcc -- denotes a string xyzxy -- denotes a string

Output Format

The output contains N lines containing strings after the sorting operation is performed.

Sample Output

ccccaaabd xxyyz

Explanation

For the first string abaccadcc, "c" has the highest frequency.

Hence, we write c followed by "a", "b", and then "d".

Hence the output is *ccccaaabd*.

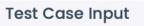
For the second string xyzxy, "x" and "y" both have the same frequencies.

Since "x" is lexicographically small, we write that first, followed by "y" and then "z".

Hence the output is xyzxy.

CODE QUALITY REPORT

Coding Language:C#



2 abaccadcc xyzxy

Expected Output

ccccaaabd xxyyz

Test Case Input

dulgvgzwqg
gxtjtmtywr
hnlnxiupgt
gzjotckivp
dpwwsdptae
pcscpilknb
btvyhhmflf
artrtnqxcr
nrtcmcoadn
fkdsgnekft

Expected Output

gggdlquvwz
tttgjmrwxy
nnghilptux
cgijkoptvz
ddppwwaest
ccppbiklns
ffhhblmtvy
rrrttacnqx
ccnnadmort
ffkkdegnst

Test Case Input

wzenwebuau

vokfxzynwl

neldfeyrxk

wqadfiodgs

ykiuvzfcbc

Expected Output

eeuuwwabnz

fklnovwxyz

 ${\tt eedfklnrxy}$

ddafgioqsw

ccbfikuvyz

Test Case Input 10 qakmcrrtbk vaixn wmpnj uproi btska ejqwr elwlg oaoiy hrqkn **Expected Output** ackmqrrbkt ainvx jmnpw iopru abkst ejqrw llegw

ooaiy hknqr

Test Case Input

3 pzjim

njnfq xyohs

Expected Output

ijmpz

nnfjq

hosxy

Test Case Input 5 xqycs beoax afkso bldit gwrys

Expected Output

cqsxy abeox

afkos

bdilt

grswy