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Case-specific Sorting of Strings

Submissions: 5319 (/problem_submissions.php?pid=701302) Accuracy: 73.22% Difficulty: Medium (https://practice.geeksforgeeks.org/Medium/1/0/) Marks: 4

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Problems

Given a string **S** consisting of **uppercase** and **lowercase** characters. The task is to **sort** uppercase and lowercase letters **separately** such that if the i_{th} place in the original string had an Uppercase character then it should not have a lowercase character after being sorted and vice versa.

Input:

The first line of input contains an integer T denoting the number of test cases. The description of T test cases follows. The first line of each test case contains a single integer N denoting the length of string. The second line contains a string S of length N, consisting of uppercase and lowercase characters.

Output:

For each testcase, in a new line, print the answer.

Your Task:

This is a **function** problem. You only need to complete the function **caseSort** that **returns** sorted **string**.

Expected Time Complexity: O(N*Log(N)).

Expected Auxiliary Space: O(N).

Constraints:

 $1 \le T \le 50$

 $1 \le N \le 10^3$

Example:

Input:

2

12

defRTSersUXI

6

srbDKi

Output:

deelRSfrsTUX

birDKs

Explanation:

Testcase 1: Sorted form of given string with the same case of character as that in original string.

Testcase 2: Sorted form of given string with the same case of character will result in output as birDKs.

** For More Input/Output Examples Use 'Expected Output' option **

Contributor: Tanmay Agrawal

Author: Ganesh Sawhney (https://auth.geeksforgeeks.org/user/Ganesh Sawhney/practice/)