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Case-specific Sorting of Strings

Submissions: 5319 Accuracy: 73.22% Difficulty: Medium

(https://practice.geeksforgeeks.org/Medium/1/0/) Marks: 4

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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: $O(N \cdot \log(N))$.

Expected Auxiliary Space: $O(N)$.

Constraints:

$$1 \leq T \leq 50$$

$$1 \leq N \leq 10^3$$

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 ****