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Count Unique Char in Substrings



? Ask Doubt

Time-Limit: 2 sec Score: 0/100 Difficulty :

Memory: 256 MB Accepted Submissions: 100 Relevant For:

AZ-201

AZ-202

AZ-301

Description

Given a string S consisting of the lowercase character of length N . Score of a string is the number of unique characters present in the string(characters which are only present once in the string). Like score of "character" is 3 {h,t,e}.

Find the sum of the score of all substring of S .

Input Format

The first line contains T , the number of test cases ($1 \leq T \leq 10$).

The first line of each test case contains an integers N , size of the string, $1 \leq N \leq 10^5$.

The second line of each test case contains a string S of length N .

Output Format

For each test case print the sum of the score of all substring of S in a newline.

Sample Input 1

Copy

```
5
2
ac
3
aac
5
abode
5
aaaaa
10
jdnbfjdhzw
```

Sample Output 1

Copy

```
4
6
35
5
194
```

C++14[GCC] ▾



Submit

1

