Define the is the number of unique characters in the string . For example: .

Given a string . Calculate the value of following expression:

with is the consecutive substring from to of (1-based indexing).

**Input**

Each test contains multiple test cases. The first line contains the number of test cases **.**

Each test case contains only 1 line, string which only contains lowercase alphabetical characters .

**Output**

For each test case, print the value of .

**Example**

| **Input** | **Output** |
| --- | --- |
| 4  z  icpccentral  abcde  uuuu | 1  212  35  4 |