Increasing subsequences   P96556_en

Write a program that computes how many strictly increasing subsequences with at least two letters are contained in a given word. For instance, the word ar*r*ow (we have written the second r in bold italics to distinguish it) contains the increasing subsequences arw, ar, a*r*w, a*r*, aow, ao, aw, rw, *r*w and ow.

Input

Input consists of several cases, each with a word made up of between 1 and 100 lowercase letters.

Output

For every case, print the number of strictly increasing subsequences with at least two letters contained in the word. That number will always be less than 10^9.

Sample input 1

```
arroz
petate
az
za
t
aaaa
abcdefghij
abcdefghijabcdefghijabcdefghijabcdefghij
aaaaaaaaaabbbbbbbbbbyyyyyyyyyyzzzzzzzzzz
```

Sample output 1

```
10
6
1
0
0
0
1013
66263
14600
```

Problem information

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