
Increasing subsequences

P96556_en

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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 *arrow* (we have written the second *r* in bold italics to distinguish it) contains the increasing subsequences *arw*, *ar*, *arw*, *ar*, *aow*, *ao*, *aw*, *rw*, *rw* 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

```
arroz
petate
az
za
t
aaaa
abcdefghijkl
abcdefghijklabcdefghijklabcdefghijkl
aaaaaaaaabbbbbbbbbbbyyyyyyyyyzzzzzzzz
```

Sample output

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

Problem information

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