

ICPC PACNW 2016 A - Alphabet

Time limit: 0.6s **Memory limit:** 256M

A string of lowercase letters is called *alphabetical* if deleting zero or more of its letters can result in the *alphabet string* `abcdefghijklmnopqrstuvwxyz`.

Given a string s , determine the minimum number of letters to insert anywhere in the string to make it alphabetical.

Input

The input consists of a single line containing the string s ($1 \leq |s| \leq 50$).

It is guaranteed that s consists of lowercase ASCII letters `a` to `z` only.

Output

Print, on a single line, a single integer indicating the minimum number of letters that must be inserted in order to make the string s alphabetical.

Sample Input 1

```
xyzabcdefghijklmnopqrstuvw
```

Sample Output 1

```
3
```

Sample Input 2

```
aiemckgobjfndlhp
```

Sample Output 2

```
20
```