Alphabet

Problem ID: alphabet
CPU Time limit: 1 second
Memory limit: 1024 MB
Difficulty: 3.0

Source: 2016 Southeast USA Regionals Division 1

A string of lowercase letters is called alphabetical if some of the letters can be deleted so that the only letters that remain are the letters from 'a' to 'z' in order. Given a string s, determine the minimum number of letters to add anywhere in the string to make it alphabetical.

Input

Each input will consist of a single test case. Note that your program may be run multiple times on different inputs. The only line of input contains a string s ($1 \le |s| \le 50$) which contains only lowercase letters.

Output

Output a single integer, which is the smallest number of letters needed to add to s to make it alphabetical.

Sample Input 1

```
xyzabcdefghijklmnopqrstuvw
```

Sample Output 1

```
3
```

Sample Input 2

```
aiemckgobjfndlhp
```

Sample Output 2

```
20
```