


Problem I

Simplicity

Problem ID: simplicity
CPU Time limit: 1 secor
Memory limit: 1024 ME

Source: 2015 Southeast Regionals Division 1

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For a string of letters, define the *Simplicity* of the string to be the number of distinct letters in the string. For example, the string `string` has simplicity 6, and the string `letter` has simplicity 4.

You like strings which have simplicity either 1 or 2. Your friend has given you a string and you want to turn it into a string that you like. You have a magic eraser which will delete one letter from any string. Compute the minimum number of letters you must erase in order to turn the string into a string with simplicity at most 2.

Input

Each input will consist of a single test case. Note that your program may be run multiple times on different inputs. The input will consist of a line with a single string consisting of at least 1 and at most 100 lowercase letters 'a'-'z'.

Output

Output a single integer, indicating the minimum number letters you need to erase in order to give the string a simplicity of 1 or 2.

Sample Input 1

string

Sample Output 1

4

Sample Input 2

letter

Sample Output 2

2

Sample Input 3

aaaaaa

Sample Output 3

0

Sample Input 4

uncopyrightable

Sample Output 4

13

Sample Input 5

ambidextrously

Sample Output 5

12

Sample Input 6

assesses

Sample Output 6

1

Sample Input 7

assassins

Sample Output 7

2