

## E2 – Complexity

Define the *complexity* of a string to be the number of distinct letters in it. For example, the string **string** has complexity 6 and the string **letter** has complexity 4.

You like strings which have complexity 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 times you will need to use the eraser to turn the string into a string with complexity at most 2.

### Input

The input consists of a single line that contains a single string of at most 100 lowercase ASCII letters ('a' – 'z').

### Output

Print, on a single line, the minimum number of times you need to use the eraser.

### Input and output samples

Input: string	Output: 4
Input: letter	Output: 2
Input: aaaaaa	Output: 0
Input: uncopyrightable	Output: 13
Input: ambidextrously	Output: 12
Input: assesses	Output: 1
Input: assassins	Output: 2