

# Task A01. PALIN

₹0.3 сек. **1** 24 MB

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Given a string of n lowercase Latin letters, write a program **palin** that finds the minimum number of palindromes such that the given string can be represented as a concatenation of these palindromes.

# Input

The first line of the standard input contains the given string.

### Output

On a single line of the standard output, your program should output an integer equal to the minimum count you are looking for.

#### *Constraints*

- $0 < n \le 10000$
- For tests that provide 20 points, the value of n is less than 12 and the given string is composed of some of the first 5 lowercase letters of the Latin alphabet.
- For tests that provide 60 points, the value of n is less than 1001 and the given string is composed of some of the first 9 lowercase letters of the Latin alphabet.

# Example

Input	Output	Explanation
bccbababbba	4	The string is a concatenation of palindromes bccb, aba, bbb, and a.