

# Juliet Unifies Ones

Input file:            standard input  
Output file:           standard output  
Time limit:            2 seconds  
Memory limit:         1024 megabytes

We call a binary string (consisting of ones and zeros) *unified* if all the ones form a contiguous (possibly empty) interval without any zeros in between. Examples of such strings are 0011110, 1, and 0000. However, the binary strings 101 and 00100011 are not unified.

Juliet has a binary string  $S$ , and she is willing to remove some characters to make the string unified. When Juliet removes a character, the remaining characters slide to fill the gap.

How many characters must be removed from  $S$  to make the remaining characters form a unified binary string?

## Input

The input consists of a single line containing the string  $S$  ( $1 \leq |S| \leq 50$ ,  $S_i = '0'$  or  $S_i = '1'$ ).

## Output

Output a single integer – the minimum possible number of removed characters.

## Example

standard input	standard output
00011011001	2

## Note

In the string 00011011001, Juliet can remove two underlined characters to obtain the unified string 000111100.