

ANNUAL AUBG PROGRAMMING CONTEST

March 21, 2020

Task 1. Longest substring

Given is a string, containing only the characters '0' and '1'. A contiguous sequence of elements from the given string we call a substring. Write program **long** that finds the length of the longest substring, which contains the equal number of '0' and '1'.

Input: The given string.

Output: One integer equal to the found length.

Constraints: The length of the given string is less than 100 000.

Example 1

Input

011101010000

Output

10

Example 2

Input

010110

Output

6