Maximum Substring Of Unique Letters: Problem

You are given a string of capital letters A to Z. Your task is to determine the length of the longest substring within that string that contains no duplicate letters. A substring is a consecutive sequence of letters within an existing string.

For example, the string **KEEPER** has three 4-letter substrings – **KEEP, EEPE** and **EPER** – but each of these contains a duplicate letter. Note that the 3-letter substring **PER** of **KEEPER** has three unique letters, thus the length of the longest substring of unique letters is 3.

Naturally, for a string that contains only unique letters, the computed value is the length of that string.

Input

The input consists of single word on a line by itself containing no more than 20 capital letters.

Output

The output consists of an integer on a line by itself

Sample Input (unique.txt)

KEEPER
STRAINS
ASSESS
CONSCIENTIOUS
FRIENDLY
AAAAAAA

Sample Output

3
6
2
7
8
1