package day7;

import java.util.Scanner;

public class Longest\_Substring\_Without\_Repeating {

public static int lengthOfLongestSubstring(String s) {

if(s==null)

System.out.println(0);

boolean[] flag = new boolean[256];

int result = 0;

int start = 0;

char[] arr = s.toCharArray();

for (int i = 0; i < arr.length; i++) {

char current = arr[i];

if (flag[current]) {

result = Math.max(result, i - start);

for (int k = start; k < i; k++) {

if (arr[k] == current) {

start = k + 1;

break;

}

flag[arr[k]] = false;

}

} else {

flag[current] = true;

}

}

result = Math.max(arr.length - start, result);

System.out.println(result);

return result;

}

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter the String");

String s = sc.nextLine();

lengthOfLongestSubstring(s);

}

}