A string is considered **beautiful** if it satisfies the following conditions:

* Each of the 5 English vowels ('a', 'e', 'i', 'o', 'u') must appear **at least once** in it.
* The letters must be sorted in **alphabetical order** (i.e. all 'a's before 'e's, all 'e's before 'i's, etc.).

For example, strings "aeiou" and "aaaaaaeiiiioou" are considered **beautiful**, but "uaeio", "aeoiu", and "aaaeeeooo" are **not beautiful**.

Given a string word consisting of English vowels, return *the* ***length of the longest beautiful substring*** *of* word*. If no such substring exists, return* 0.

A **substring** is a contiguous sequence of characters in a string.

**Example 1:**

Input: word = "aeiaaioaaaaeiiiiouuuooaauuaeiu"  
Output: 13  
Explanation: The longest beautiful substring in word is "aaaaeiiiiouuu" of length 13.

**Example 2:**

Input: word = "aeeeiiiioooauuuaeiou"  
Output: 5  
Explanation: The longest beautiful substring in word is "aeiou" of length 5.

**Example 3:**

Input: word = "a"  
Output: 0  
Explanation: There is no beautiful substring, so return 0.

**Constraints:**

* 1 <= word.length <= 5 \* 105
* word consists of characters 'a', 'e', 'i', 'o', and 'u'.