

Problem 1456: Maximum Number of Vowels in a Substring of Given Length

Problem Information

Difficulty: Medium

Acceptance Rate: 61.12%

Paid Only: No

Tags: String, Sliding Window

Problem Description

Given a string `s` and an integer `k`, return _the maximum number of vowel letters in any substring of_ `s` _with length_ `k`.

Vowel letters in English are ``a'', ``e'', ``i'', ``o'', and ``u''.

Example 1:

Input: s = "abciiidef", k = 3 **Output:** 3 **Explanation:** The substring "iii" contains 3 vowel letters.

Example 2:

Input: s = "aeiou", k = 2 **Output:** 2 **Explanation:** Any substring of length 2 contains 2 vowels.

Example 3:

Input: s = "leetcode", k = 3 **Output:** 2 **Explanation:** "lee", "eet" and "ode" contain 2 vowels.

Constraints:

* `1 <= s.length <= 105` * `s` consists of lowercase English letters. * `1 <= k <= s.length`

Code Snippets

C++:

```
class Solution {  
public:  
    int maxVowels(string s, int k) {  
  
    }  
};
```

Java:

```
class Solution {  
public int maxVowels(String s, int k) {  
  
}  
}
```

Python3:

```
class Solution:  
    def maxVowels(self, s: str, k: int) -> int:
```