

### 1456. Maximum Number of Vowels in a Substring of Given Length

Medium 247 13 Add to List Share

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, u).

Example 1:

Input: `s = "abciidef", 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.

Example 4:

Input: `s = "rhythms", k = 4`

JavaAutocomplete

i {} ↺ ⚙️ [ ]

```
7         count++;
8         max = Math.max(max, count);
9     }
10 }
11
12 int start = 0;
13 for (int i = k; i < s.length(); i++) {
14
15     if (isVowel(s.charAt(i))) {
16         count++;
17     }
18     if (isVowel(s.charAt(start++))) {
19         count--;
20     }
21
22     max = Math.max(max, count);
23 }
24
25 return max;
26 }
27
28 public static boolean isVowel(char c) {
29     return c == 'a' || c == 'e' || c == 'i' || c == 'o' || c == 'u';
30 }
31 }
```

Testcase

Run Code Result

Debugger 🔒

Accepted

Runtime: 0 ms

?

Your input

"abciidef"

3

Output

3

Diff

Expected

3

☰ Problems

✂ Pick One

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Console ▾ How to create a testcase ▾

▶ Run Code

Submit