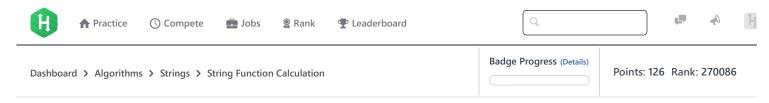
15/11/2017 HackerRank



String Function Calculation



Problem	Submissions	Leaderboard	Discussions	Editorial 🔒	Topics	

Jane loves strings more than anything. She has a string t with her, and value of string t over function t can be calculated as given below:

$$f(s) = |s| \times \text{Number of times } s \text{ occurs in } t$$

Jane wants to know the maximum value of f(s) among all the substrings (s) of string t. Can you help her?

Input Format

A single line containing string $m{t}$.

Output Format

Print the maximum value of f(s) among all the substrings (s) of string t.

Constraints

 $1 \leq |t| \leq 10^5$

The string consists of lowercase English alphabets.

Sample Input 0

aaaaaa

Sample Output 0

12

Explanation 0

```
f('a') = 6
f('aa') = 10
f('aaa') = 12
f('aaaa') = 12
f('aaaaa') = 10
f('aaaaaa') = 6
```

Sample Input 1

abcabcddd

Sample Output 1

9

Explanation 1

f values of few of the substrings are shown below:

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```
f("a") = 2
f("b") = 2
f("c") = 2
f("ab") = 4
f("bbc") = 4
f("ddd") = 3
f("abc") = 6
f("abcabcddd") = 9
```

Among the function values 9 is the maximum one.

```
Submissions: 1777
Max Score: 80
Difficulty: Advanced
Rate This Challenge:
☆☆☆☆
Need Help?
Suffix Array

LCP Array
Two Pointer Technique
```

Run Code

Submit Code

```
Current Buffer (saved locally, editable) &
                                                                                          Java 7
                                                                                                                           Ö
 1 ▼ import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
   import java.math.*;
 5
    import java.util.regex.*;
 6
 7 ▼ public class Solution {
 8
 9 ▼
        static int maxValue(String t) {
10
            // Complete this function
11
12
13 ▼
        public static void main(String[] args) {
            Scanner in = new Scanner(System.in);
14
15
            String t = in.next();
16
            int result = maxValue(t);
17
            System.out.println(result);
18
            in.close();
19
        }
20
    }
21
                                                                                                                   Line: 1 Col: 1
```

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☐ Test against custom input

1 Upload Code as File