

Designer PDF Viewer





When you select a contiguous block of text in a PDF viewer, the selection is highlighted with a blue rectangle. In a new kind of PDF viewer, the selection of each word is independent of the other words; this means that each rectangular selection area forms independently around each highlighted word. For example:



In this type of PDF viewer, the width of the rectangular selection area is equal to the number of letters in the word times the width of a letter, and the height is the maximum height of any letter in the word.

Consider a word consisting of lowercase English alphabetic letters, where each letter is **1**mm wide. Given the height of each letter in millimeters (mm), find the total area that will be highlighted by blue rectangle in mm² when the given word is selected in our new PDF viewer.

Input Format

The first line contains **26** space-separated integers describing the respective heights of each consecutive lowercase English letter (i.e., $h_a, h_b, h_c, \ldots, h_u, h_z$).

The second line contains a single word, consisting of lowercase English alphabetic letters.

Constraints

- $1 \le h_? \le 7$, where ? is an English lowercase letter.
- Word contains no more than 10 letters.

Output Format

Print a single integer denoting the area of highlighted rectangle when the given word is selected. The unit of measurement for this is square millimeters (mm^2) , but you must only print the integer.

Sample Input

Sample Output

9

Explanation

We are highlighting the word abc:

1. The tallest letter in abc is b, and $h_b = 3$. The selection area for this word is $3 \cdot 1mm \cdot 3mm = 9mm^2$.

Note: Recall that the width of each character is 1mm.

Submissions: 25312 Max Score: 20 Difficulty: Easy Rate This Challenge: なななななな

```
Current Buffer (saved locally, editable) &
                                                                                            Java 7
                                                                                                                              \Diamond
 1 ▼ import java.io.*;
 2 import java.util.*;
   import java.text.*;
    import java.math.*;
    import java.util.regex.*;
 7 ▼ public class Solution {
 8
        public static void main(String[] args) {
 9 ▼
10
             Scanner in = new Scanner(System.in);
11
             int[] h = new int[26];
             for(int h_i=0; h_i < 26; h_i++){
12 ▼
13
                 h[h_i] = in.nextInt();
14
15
             String word = in.next();
16
             HashMap<Character, Integer> hashMap = new HashMap<>();
17
             for (int i=0; i<word.length(); i++) {</pre>
18 ▼
                 hashMap.put(word.charAt(i), h[word.charAt(i) - 'a']);
19
20
21
             int max=0;
22
23 ▼
             for (int i=0; i<word.length(); i++) {</pre>
24
                 int entry = hashMap.get(word.charAt(i));
25
                 if (entry > max)
26
                     max = entry;
27
28
29
             System.out.println( (word.length()*1*max));
30
    }
31
32
    }
                                                                                                                    Line: 24 Col: 36
                       Test against custom input
                                                                                                         Run Code
                                                                                                                      Submit Code
1 Upload Code as File
                                          Congrats, you solved this challenge!
                ✓ Test Case #0
                                                          ✓ Test Case #1
                                                                                                   ✓ Test Case #2
                ✓ Test Case #3

✓ Test Case #4
                                                                                                   ✓ Test Case #5
                                                                                                               Next Challenge
```

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