



All Domains > Algorithms > Implementation > Designer PDF Viewer

Badge Progress [\(Details\)](#)

Points: 639.06 Rank: 36448

Designer PDF Viewer

by darkshadows

Problem

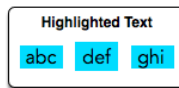
Submissions

Leaderboard

Discussions

Editorial

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 **1mm** 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., $h_a, h_b, h_c, \dots, h_z$).

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

Constraints

- $1 \leq h_i \leq 7$, where i 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 (**mm²**), but you must only print the integer.

Sample Input

```
1 3 1 3 1 4 1 3 2 5 5 5 5 5 5 5 5 5 5 5 5 5
abc
```

Sample Output

```
9
```

Explanation

We are highlighting the word `abc`:

- 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**.

[f](#) [t](#) [in](#)


Submissions: 150

Max Score: 20

Difficulty: Easy

Rate This Challenge:

☆☆☆☆☆

[More](#)Current Buffer (saved locally, editable)  C# 

```
1 using System;
2 using System.Collections.Generic;
3 using System.IO;
4 using System.Linq;
5 class Solution {
6
7     static void Main(String[] args) {
8         string[] h_temp = Console.ReadLine().Split(' ');
9         int[] h = Array.ConvertAll(h_temp, Int32.Parse);
10        string word = Console.ReadLine();
11
12        string al = "abcdefghijklmnopqrstuvwxyz";
13        // Console.WriteLine(al.Length);
14
15        int max_h = 0;
16
17        for (int i = 0; i < word.Length; i++)
18        {
19            int h_actual = h[Array.IndexOf(al.ToCharArray(), word[i])];
20            max_h = Math.Max(max_h, h_actual);
21        }
22
23        Console.WriteLine(max_h * word.Length);
24
25
26    }
27 }
28
```

Line: 24 Col: 9

 [Upload Code as File](#)☐ Test against custom input[Run Code](#)[Submit Code](#)

Congrats, you solved this challenge!

✓ Test Case #0

✓ Test Case #3

✓ Test Case #1

✓ Test Case #4

✓ Test Case #2

✓ Test Case #5

[Next Challenge](#)

Copyright © 2016 HackerRank. All Rights Reserved

Join us on IRC at [#hackerrank](#) on freenode for hugs or bugs.[Contest Calendar](#) | [Interview Prep](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)