



Designer PDF Viewer ★

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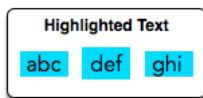
Problem

Submissions

Leaderboard

Editorial

When a contiguous block of text is selected in a PDF viewer, the selection is highlighted with a blue rectangle. In this PDF viewer, each word is highlighted independently. For example:



There is a list of **26** character heights aligned by index to their letters. For example, 'a' is at index **0** and 'z' is at index **25**. There will also be a string. Using the letter heights given, determine the area of the rectangle highlight in mm^2 assuming all letters are **1mm** wide.

Example

$h = [1, 3, 1, 3, 1, 4, 1, 3, 2, 5, 5, 5, 5, 1, 1, 5, 5, 1, 5, 2, 5, 5, 5, 5, 5, 5]$ word = ' torn'

The heights are $t = 2, o = 1, r = 1$ and $n = 1$. The tallest letter is **2** high and there are **4** letters. The highlighted area will be $2 * 4 = 8mm^2$ so the answer is **8**.

Function Description

Complete the designerPdfViewer function in the editor below.

designerPdfViewer has the following parameter(s):

- int h[26]: the heights of each letter
- string word: a string

Returns

- int: the size of the highlighted area

Input Format

The first line contains **26** space-separated integers describing the respective heights of each consecutive lowercase English letter, ascii[a-z].

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

Constraints

- $1 \leq h[?] \leq 7$, where **?** is an English lowercase letter.
- **word** contains no more than **10** letters.

Sample Input 0

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

Sample Output 0

```
9
```

Explanation 0

We are highlighting the word abc:

Letter heights are $a = 1$, $b = 3$ and $c = 1$. The tallest letter, b, is $3mm$ high. The selection area for this word is $3 \cdot 1mm \cdot 3mm = 9mm^2$.

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

Sample Input 1

```
13131413255555555555555555557
zaba
```

Sample Output 1

```
28
```

Explanation 1

The tallest letter in **zaba** is **z** at $7mm$. The selection area for this word is $4 \times 1mm \times 7mm = 28mm^2$.

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Language

Python 3



```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8
9  #
10 # Complete the 'designerPdfViewer' function below.
11 #
12 # The function is expected to return an INTEGER.
13 # The function accepts following parameters:
14 # 1. INTEGER_ARRAY h
15 # 2. STRING word
16 #
17
18 def designerPdfViewer(h, word):
19     # Write your code here
20     max_height = 0
21     for c in word:
22         height = h[ord(c) - ord('a')]
23         if height > max_height:
24             max_height = height
25     return max_height * len(word)
26
27
28 if __name__ == '__main__':
29     fptr = open(os.environ['OUTPUT_PATH'], 'w')
30
31     h = list(map(int, input().rstrip().split()))
32
33     word = input()
34
```

EMACS


Line: 27 Col: 5

You have earned 20.00 points!

You are now 29.8 points away from the gold level for your problem solving badge.

92%

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Problem Solving
★★★★


Congratulations


You solved this challenge. Would you like to challenge your friends?


Next Challenge


✔️ Test case 0

✔️ Test case 1 

✔️ Test case 2 

✔️ Test case 3 

✔️ Test case 4 

✔️ Test case 5 

✔️ Test case 6

Loading testcase ...