



# Designer PDF Viewer

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Problem

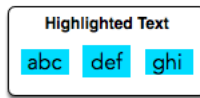
Submissions

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 **mm<sup>2</sup>** 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.,  $h_a, h_b, h_c, \dots, h_y, h_z$ ).

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 (**mm<sup>2</sup>**), but you must only print the integer.

## 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` :

- 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**.

## Sample Input 1

```
1 3 1 3 1 4 1 3 2 5 5 5 5 5 5 5 5 5 5 5 5 7
zaba
```

## Sample Output 1

28

## Explanation 1

We are highlighting the word *zaba*:

The tallest letter in *zaba* is *z* and  $h_z$  is 7. The selection area for this word is  $4.1mm.7mm = 28mm^2$ .

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Submissions: [44518](#)

Max Score: 20

Difficulty: Easy

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Java 7



```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         Scanner in = new Scanner(System.in);
11         int[] h = new int[26];
12         for(int h_i=0; h_i < 26; h_i++){
13             h[h_i] = in.nextInt();
14         }
15         String word = in.next();
16     }
17 }
18
```

Line: 1 Col: 1

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