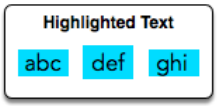
Designer PDF Viewer

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



In this challenge, you will be given a list of letter heights in the alphabet and a string. Using the letter heights given, determine the area of the rectangle highlight in mm^2 assuming all letters are $1mm$ wide.

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.

Output Format

Print a single integer denoting the area in mm^2 of highlighted rectangle when the given word is selected. Do not print units of measure.

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
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

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

Sample Output 1

```
28
```

Explanation 1

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