

1. Program

## Question 1

Revisit Later

## How to Attempt?

## FindStringCode

Crazy Zak has designed the below steps which can be applied on any given string (sentence) to produce a number.

**STEP1.** In each word, find the Sum of the Difference between the first letter and the last letter, second letter and the penultimate letter, and so on till the center of the word.

**STEP2.** Concatenate the sums of each word to form the result.

## For example –

If the given string is "WORLD WIDE WEB"

**STEP1.** In each word, find the Sum of the Difference between the first letter and the last letter, second letter and the penultimate letter, and so on till the center of the word.

WORLD = [W-D]+[O-L]+[R] = [23-4]+[15-12]+[18] = [19]+[3]+[18] = [40]

WIDE = [W-E]+[I-D] = [23-5]+[9-4] = [18]+[5] = [23]

WEB = [W-B]+[E] = [23-2]+[5] = [21]+[5] = [26]

**STEP2.** Concatenate the sums of each word to form the result

[40] [23] [26]

[402326]

The answer (output) should be the number 402326.

**NOTE1:** The value of each letter is its position in the English alphabet system i.e. a=A=1, b=B=2, c=C=3, and so on till z=Z=26.

So, the result will be the same for "WORLD WIDE WEB" or "World Wide Web" or "world wide web" or any other combination of uppercase and lowercase letters.

**IMPORTANT Note:** In Step1, after subtracting the alphabets, we should use the absolute values for calculating the sum. For instance, in the below example, both [H-O] and [E-L] result in negative number -7, but the positive number 7 (absolute value of -7) is used for calculating the sum of the differences.

Hello = [H-O]+[E-L]+[L] = [8-15]+[5-12]+[12] = [7]+[7]+[12] = [26]

**Assumptions:** The given string (sentence) will contain only alphabet characters and there will be only one space character between any two consecutive words.

You are expected to help Zak, by writing a function that takes a string (sentence) as input, performs the above mentioned processing on the sentence and returns the result (number).

## Example1:

input1 = "World Wide Web"

Attempted: 1/1

JAVA7

Compiler: Java - 1.7

```
1 import java.io.*;
2 import java.util.*;
3
4 // Read only region start
5 class UserMainCode
6 {
7
8     public int findStringCode(String input1){
9         // Read only region end
10        // Write code here...
11        String str=input1.toUpperCase();
12        String word[]=str.split(" ");
13        String value2="";
14        for(int i=0;i<word.length;i++) {
15            int sum=0;
16            for(int j=0;j<word[i].length()/2;j++) {
17                int first=word[i].charAt(j);
18                int last= word[i].charAt(word[i].length()-1-j);
19                sum+=Math.abs(first-last);
20            }
21            if(word[i].length()%2!=0)
22                sum+=(word[i].charAt(word[i].length()/2)-64);
23            String value=Integer.toString(sum);
24            value2+=value;
25        }
26        return Integer.parseInt(value2);
27    }
28 }
```

☐ Use Custom Input

①

Compile and Test

Submit Code

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sujana

LP\_Practice\_FindStringCode

Saved: 0 seconds ago

1. Program

1

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STEP2: Concatenate the sums of each word to form the result.

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You are expected to help Zak; by writing a function that takes a string (sentence) as input, performs the above mentioned processing on the sentence and returns the result (number).

Example1:

input1 = "World Wide Web"

Use Custom Input

Code Execution

0/7 - Graded Test

TC 1

TC 2

TC 3

TC 4

TC 5

TC 6

TC 7

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Finish Test

Remaining Time: 01:10:47

Your Test Summary

1 Total Questions

Attempted: 1/1

Marked for Revisit: 0/1

Unattempted: 0/1

Section Summary

#	SECTION NAME	STATUS
1.	Program Untimed Section	<div>1</div> <div>Total: 1 Questions</div>

Yes, End Test!

No, Back to Test