1. Program

1

Attempted: 1/1

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"

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

Compile and Test | Submit Code

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Example1:
input1 = "World Wide Web"
output1 = 402326

Example2:
input1 = "Hello World"
output1 = 2640
Explanation:
Hello = [H-O]+[E-L]+[L] = [8-15]+[5-12]+[12] = [7]+[7]+[12] = [26]
World = [W-D]+[O-L]+[R] = [23-4]+[15-12]+[18] = [19]+[3]+[18] = [40]
Result = Number formed by concatenating [26] and [40] = 2640

Code Execution | Code History

0/2 - Sample Test Cases Failed

Default

CODE EXECUTION DETAILS
Time: 190 ms
Memory: 103812 kb

TEST CASE INFORMATION
Input
World Wide Web
Expected Output
402326
Actual Output
402326

CONSOLE OUTPUT

STANDARD ERROR/WARNING
None

Default

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Explanation:
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Use Custom Input

Compile and Test | Submit Code

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0/7 - Graded Test Cases Failed

- TC 1
- TC 2
- TC 3
- TC 4
- TC 5
- TC 6
- TC 7