

LP_Practice_FindStringCode

Ramya.V | 06 Feb 2023



Finish State: Normal

Test Taken on: February 06, 2023 09:50:40 AM IST



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Overall Summary

40 Marks Scored
out of 40

100 % 100 percentile
out of 72717 Test Takers

1h 4m 23s Time taken
of 1hr 20mins

Marks Scored



Attempt Summary

Distribution of questions attempted in a total of 1 question(s).



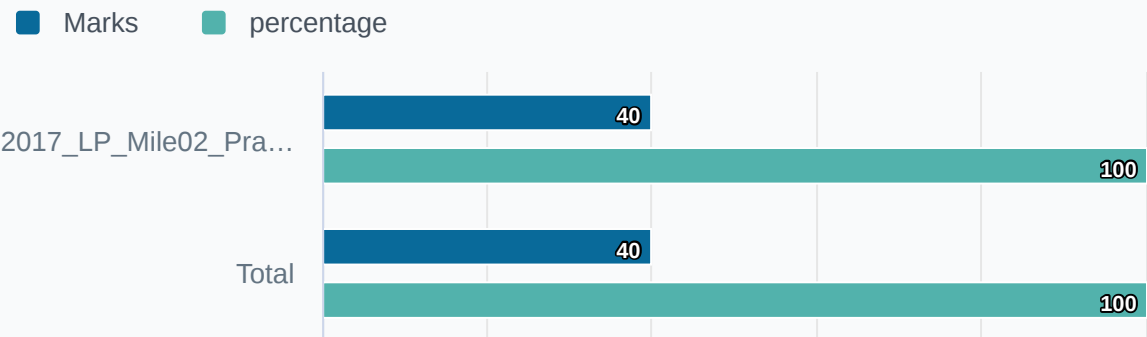
This shows the correctness of questions attempted
by the test taker

Correct	1 Ques	40/40 Marks
Incorrect	0 Ques	0/0 Marks
Partially Correct	0 Ques	0/0 Marks
Not Attempted	0 Ques	0/0 Marks

Section-Wise Details

▼ Section 1 Program	question(s) 1 Q.	Time taken 1h 4m 23s (Untimed)	Marks Scored 40 / 40
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Marks Scored



Attempt Summary

Distribution of questions attempted in a total of 1 question(s).




■ Correct	1 Ques	40/40 Marks
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This shows the correctness of questions attempted by the test taker


Test Log

6th Feb 2023


- 08:46 AM



Started the test with Program
- 09:06 AM



Away from test window
- 09:50 AM



Finished the test

About the Report

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1. Program

Read only region start
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).

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[] words = input1.split(" ");
12        StringBuffer output = new StringBuffer();
13
14        for(String word : words){
15
16            int sum = 0;
17
18            for(int i = 0; i < (word.length() / 2); i++){
19                int j = word.length() - i - 1;
20
21                int larger;
22                int smaller;
23
24                if(letterToNo(word.charAt(i)) > letterToNo(word.charAt(j))){
25                    larger = letterToNo(word.charAt(i));
26                    smaller = letterToNo(word.charAt(j));
27                }
28                else{
29                    larger = letterToNo(word.charAt(j));
30                    smaller = letterToNo(word.charAt(i));
31                }
32                sum = sum + larger + smaller;
33            }
34            output.append(sum);
35        }
36        return Integer.parseInt(output.toString());
37    }
38 }
```

☐ Use Custom Input

①

Compile and Test

Submit Code

1. Program

Explanation:

Length of the word "Wipro" = 5

Length of the word "Technologies" = 12

Let us add all the lengths to get the Total Length = 5 + 12 = 17

The Total Length = 17, which is not a single-digit, so now let us continuously add all digits till we get a single digit i.e. 1 + 7 = 8

Therefore, the single-digit numeric PIN = 8

Farah approaches you to write a program that would generate the single-digit numeric PIN if the string is input into the program. Help Farah by writing the function (method) that takes as input a string **input1** that represents the sentence, and returns the single-digit numeric PIN.

Assumptions: For this assignment, let us assume that the given string will always contain more than one word.

Let's see one more example -

- If the given string is "The Good The Bad and The Ugly", the numeric PIN would be = 5

Explanation:

Let us add lengths of all words to get the Total Length = 3+4+3+3+3+3+4 = 23

Total Length = 23, which is not yet a single digit, so let us continue adding all digits of the Total Length, i.e. 2+3 = 5

Therefore, single-digit numeric PIN = 5

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 getCodeThroughStrings(String input1){
9         // Read only region end
10        // Write code here...
11        String word[] = input1.split(" ");
12        int sum = 0;
13        for(int i = 0; i < word.length; i++){
14            sum += word[i].length();
15        }
16        return (1 + (sum - 1) % 9);
17    }
18
19 }
```

☐ Use Custom Input



Compile and Test

Submit Code

1. Program

NOTE: Assume that the given string contains only lowercase letters, and do not worry about the corner cases.

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.

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

[40] [23] [26]

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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).

< 1 >

Attempted: 1/1

JAVA7

Compiler: Java - 1.7

```
35 }
36
37 if(word.length() % 2 == 1){
38     sum += letterToNo(word.charAt(word.length() / 2));
39 }
40
41
42
43 output.append(sum);
44 }
45
46
47
48 return Integer.parseInt(output.toString());
49 }
50
51 public static int letterToNo(char ch){
52     if(ch >= 65 && ch <= 90){
53         return ch - 64;
54     }
55     if(ch >= 97 && ch <= 122){
56         return ch - 96;
57     }
58     return 0;
59 }
60 }
```

☐ Use Custom Input

?

Compile and Test

Submit Code