LP_Practice_SimpleEncodedArray

Sasi | 11 Feb 2023

Test Name::

LP_Practice_SimpleEncodedArray

Finish State: Browsing tolerance exceeded | Test Taken on: February 11, 2023 10:09:02 PM IST

S

Sasi

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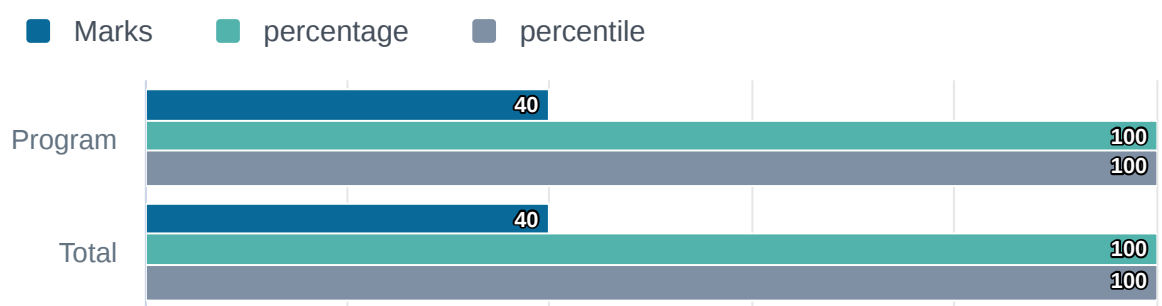
Overall Summary

40	Marks Scored	out of 40
100 %	100 percentile	out of 42488 Test Takers
11m 27s	Time taken	of 1hr 20mins

Marks Scored



Attempt Summary

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

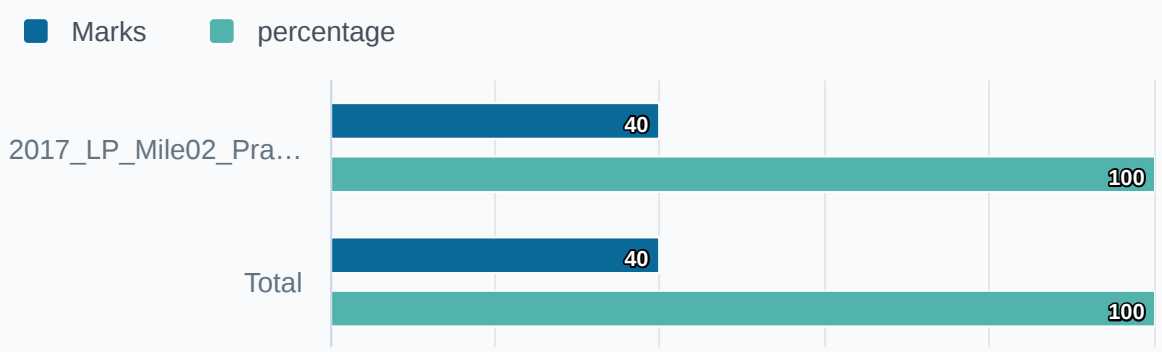
This shows the correctness of questions attempted by the test taker

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

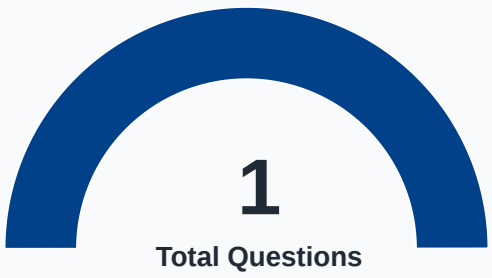
Section 1	question(s)	Time taken	Marks Scored
Program	1 Q.	11m 27s (Untimed)	40 / 40

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

Test Log

11th Feb 2023

09:57 PM	Started the test with Program
09:58 PM	Away from test window
09:58 PM	Away from test window
10:07 PM	Away from test window
10:08 PM	Away from test window
10:08 PM	Away from test window
10:08 PM	Test ended (crossed browsing tolerance)

About the Report

This Report is generated electronically on the basis of the inputs received from the assessment takers. This Report including the AI flags that are generated in case of availing of proctoring services, should not be solely used/relied on for making any business, selection, entrance, or employment-related decisions. Mettl accepts no liability from the use of or any action taken or refrained from or for any and all business decisions taken as a result of or reliance upon anything, including, without limitation, information, advice, or AI flags contained in this Report or sources of information used or referred to in this Report.

Mercer | mettl

Sasi
LP_Practice_SimpleEncodedArray / Saved: 0 seconds ago

Test Time: 01:16:52

Finish Test

1. Program

1

Attempted: 1/1

Question 1

Revisit Later

How to Attempt?

Simple Encoded Array_1: Maya has stored few confidential numbers in an array (array of int). To ensure that others do not find the numbers easily, she has applied a simple encoding.
Encoding used: Each array element has been substituted with a value that is the sum of its original value and its succeeding element's value.
i.e. arr[i] = original value of arr[i] + original value of arr[i+1]
e.g. value in arr[0] = original value of arr[0] + original value of arr[1]
Also note that value of last element i.e. arr[last index] remains unchanged.

For example,
If the encoded array is {7,6,8,16,12,3}
The original array should have been {2,5,1,7,9,3}

Provided the encoded array, you are expected to find the –
a. First number (value in index 0) in the original array

b. Sum of all numbers in the original array

Write the logic in the function **findOriginalFirstAndSum(int[]**

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 class Result{
9          public final int output1;
10         public final int output2;
11
12         public Result(int out1, int out2){
13             output1 = out1;
14             output2 = out2;
15         }
16     }
17
18     public Result findOriginalFirstAndSum(int[] input1,int input2){
19
```

Use Custom Input

Compile and Test

Submit Code

Mercer | mettl

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LP_Practice_SimpleEncodedArray / Saved: 30 seconds ago

Test Time: 01:16:37

Finish Test

1. Program

1

Attempted: 1/1

Question 1

Revisit Later

How to Attempt?

Simple Encoded Array_1: Maya has stored few confidential numbers in an array (array of int). To ensure that others do not find the numbers easily, she has applied a simple encoding.
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a. First number (value in index 0) in the original array

b. Sum of all numbers in the original array

Write the logic in the function **findOriginalFirstAndSum(int[]**

```
14                  output2 = out2;
15              }
16          }
17
18          public Result findOriginalFirstAndSum(int[] input1,int input2){
19              // Read only region end
20              int[] arr=new int[input2];
21                  arr[input2-1]=input1[input2-1];
22                  int sum=arr[input2-1];
23                  for(int i=input2-2;i>=0;i--)
24              {
25      arr[i]=input1[i]-arr[i+1];
26      sum+=arr[i];
27      }
28              Result r1= new Result(arr[0],sum);
29      return r1;
30       }
31  }
```

Use Custom Input

Compile and Test

Submit Code

Code Execution | Code History