LP_Practice_SimpleEncodedArray

Ramya.V | 12 Feb 2023

Test Name::

LP_Practice_SimpleEncodedArray

Finish State: Normal | Test Taken on: February 12, 2023 01:21:00 PM IST

R

Ramya.V

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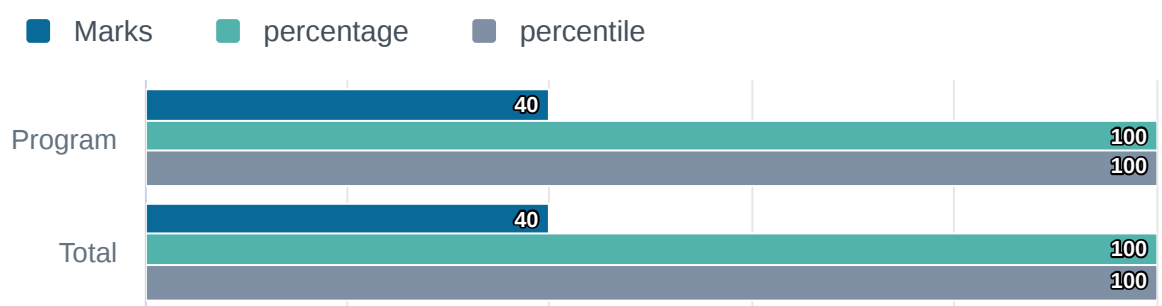
Overall Summary

40	Marks Scored	out of 40
100 %	100 percentile	out of 42512 Test Takers
2m 5s	Time taken	of 1hr 20mins

Marks Scored



Attempt Summary

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

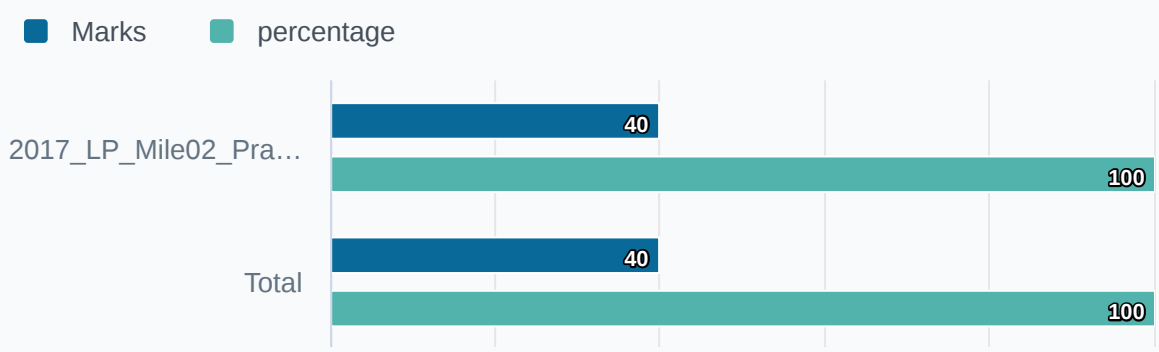
This shows the correctness of questions attempted by the test taker

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.	2m 5s (Untimed)	40 / 40

Marks Scored



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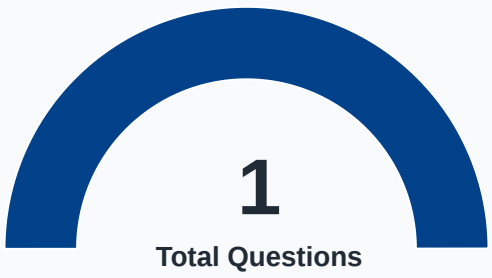

This shows the correctness of questions attempted by the test taker

Correct	1 Ques	40/40 Marks

Test Log

12th Feb 2023

01:18 PM		Started the test with Program
01:19 PM		Away from test window
01:20 PM		Away from test window
01:20 PM		Away from test window
01:20 PM		Finished the test

About the Report

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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[] input1, int input2);** where,
input1 represents the encoded array, and
input2 represents the number of elements in the array input1

The method is expected to –
- find the value of the first number of the original array and store it in the member **output1** and

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         // 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];
```

Use Custom Input

Compile and Test | Submit Code

Mercer | mettl | Ramya.V | LP_Practice_SimpleEncodedArray / Saved: 0 seconds ago | Test Time: 01:18:35 | Finish Test

1. Program

1

Attempted: 1/1

Question 1

Revisit Later

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JAVA7 | Compiler: Java - 1.7

```
{
    public class Result{
        public final int output1;
        public final int output2;

        public Result(int out1, int out2){
            output1 = out1;
            output2 = out2;
        }
    }

    public Result findOriginalFirstAndSum(int[] input1,int input2){
        // Read only region end
      int[] arr=new int[input2];
arr[input2-1] int input2 - UserMainCode.findOriginalFirstAndSum(int[], int)
int sum=arr[input2-1];
for(int i=input2-2;i>=0;i--)
    {
 arr[i]=input1[i]-arr[i+1];
 sum+=arr[i];
}
        Result r1= new Result(arr[0],sum);
 return r1;
}
  }

```

Use Custom Input | Compile and Test | Submit Code

1. Program

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Attempted: 1/1

Question 1

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default

CODE EXECUTION DETAILS

Time: 256 ms

Memory: 103812 kb

TEST CASE INFORMATION

Input

{-2,-7,-12,-15},4

Expected Output

8,-14

Actual Output

8,-14

CONSOLE OUTPUT

STANDARD ERROR/WARNING

None

default