LP_Practice_SumOfPowersOfDigits

Ramya.V | 12 Feb 2023

Test Name::

LP_Practice_SumOfPowersOfDigits

Finish State: Normal | Test Taken on: February 12, 2023 07:09:46 PM IST

R

Ramya.V

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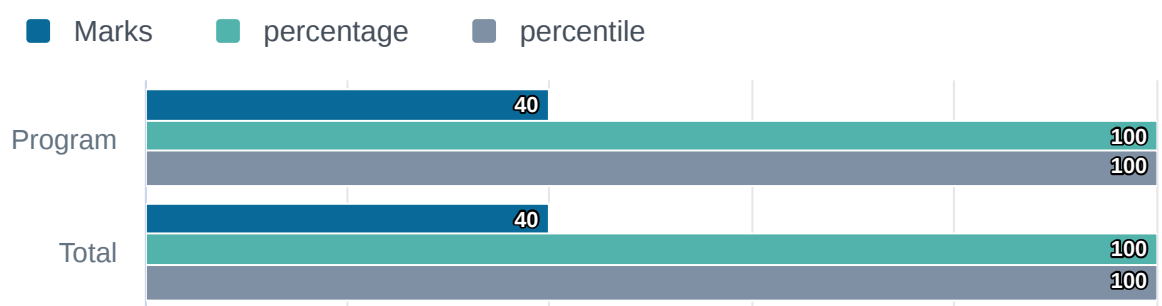
Overall Summary

40	Marks Scored	out of 40
100 %	100 percentile	out of 40641 Test Takers
1m 3s	Time taken	of 1hr 20mins

Marks Scored



Attempt Summary

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

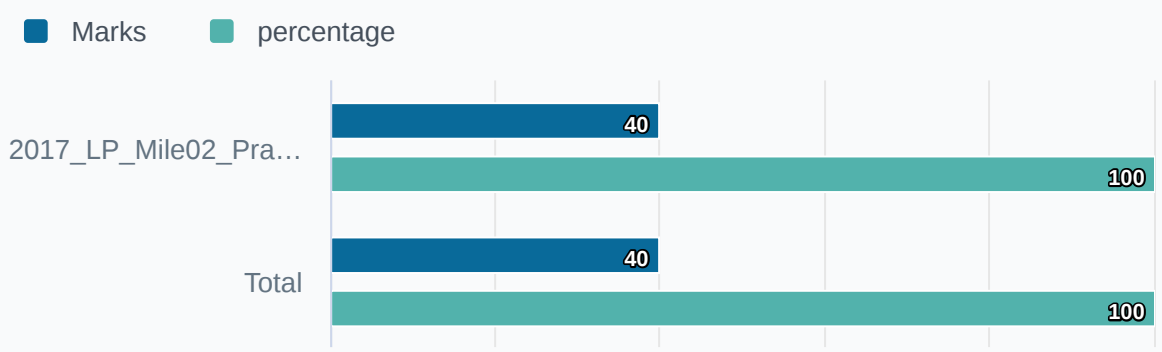
This shows the correctness of questions attempted by the test taker

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.	1m 3s (Untimed)	40 / 40

Marks Scored



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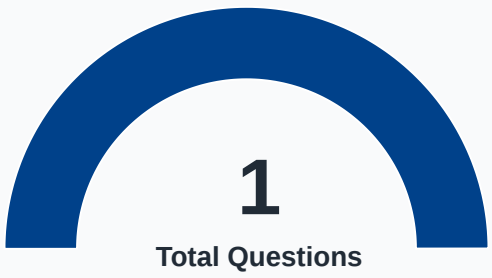

This shows the correctness of questions attempted by the test taker

Correct	1 Ques	40/40 Marks

Test Log

12th Feb 2023

07:08 PM		Started the test with Program
07:09 PM		Away from test window
07:09 PM		Away from test window
07:09 PM		Finished the test

About the Report

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Ramya.V
LP_Practice_SumOfPowersOfDigits / Saved: 0 seconds ago

Test Time: 01:19:38 Finish Test

1. Program

1

Attempted: 1/1

Question 1

Revisit Later

How to Attempt?

Sum of Powers of Digits_1: Alex has been asked by his teacher to do an assignment on powers of numbers. The assignment requires Alex to find the sum of powers of each digit of a given number, as per the method mentioned below.

If the given number is 582109, the Sum of Powers of Digits will be calculated as =
= (5 raised to the power of 8) + (8 raised to the power of 2) + (2 raised to the power of 1) + (1 raised to the power of 0) + (0 raised to the power of 9) + (9 raised to the power of 0)

i.e. each digit of the number is raised to the power of the next digit on its right-side. Note that the right-most digit has to be raised to the power of 0. The sum of all of these powers is the expected result to be calculated.

Example - If the given number is 582109, the Sum of Powers of Digits =
= (5 raised to the power of 8) + (8 raised to the power of 2) + (2 raised to the power of 1) + (1 raised to the power of 0) + (0 raised to the power of 9) + (9 raised to the power of 0)
= 390625 + 64 + 2 + 1 + 0 + 1 = 390693

Alex contacts you to help him write a program for finding the Sum of Powers of Digits for any given number, using the above method.

Write the logic in the given function **sumOfPowerOfDigits** where,
input1 represents the given number.
The function is expected to return the "Sum of Powers of Digits" of input1.

Assumptions: For this assignment, let us assume that the given number will always

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 sumOfPowerOfDigits(int input1){
9          // Read only region end
10     double sum=0.0;
11 String str=Integer.toString(input1);
12 for(int i=0;i<str.length()-1;i++)  {
13
14  int a=Character.getNumericValue(str.charAt(i));
15  int b=Character.getNumericValue(str.charAt(i+1));
16 sum=sum + Math.pow(a, b);
17  }
18  return (int)sum+1;
19 }}
```

Use Custom Input

Compile and Test Submit Code

1. Program

1

Attempted: 1/1

Question 1

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0/1 - Sample Test Cases Failed

default

CODE EXECUTION DETAILS

Time: 221 ms

Memory: 103812 kb

TEST CASE INFORMATION

Input

582109

Expected Output

390693

Actual Output

390693

CONSOLE OUTPUT

STANDARD ERROR/WARNING

None