LP_Practice_digitSum

Sasi | 09 Feb 2023

Test Name::

LP_Practice_digitSum

Finish State: Normal | Test Taken on: February 09, 2023 09:16:28 AM IST

S

Sasi

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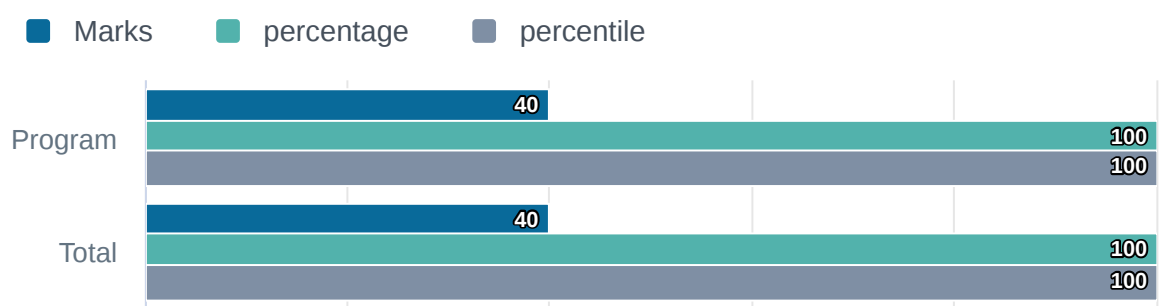
Overall Summary

40	Marks Scored	out of 40
100 %	100 percentile	out of 52995 Test Takers
6m 13s	Time taken	of 1hr 5mins

Marks Scored



Attempt Summary

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

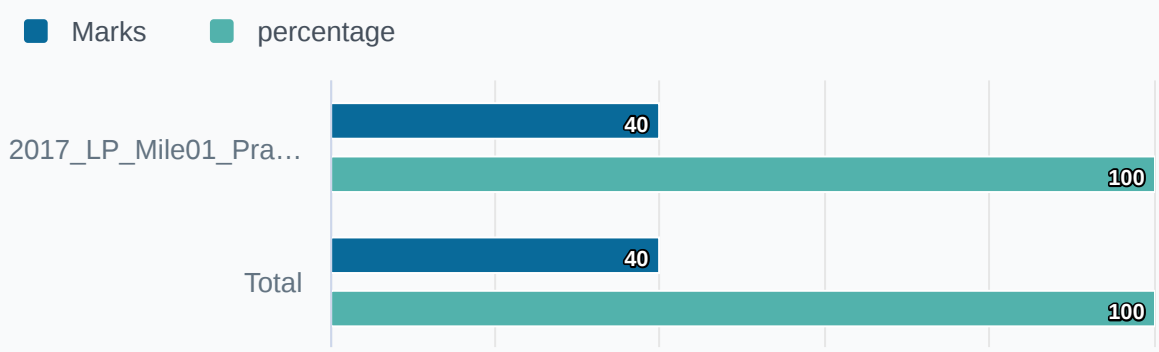
This shows the correctness of questions attempted by the test taker

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

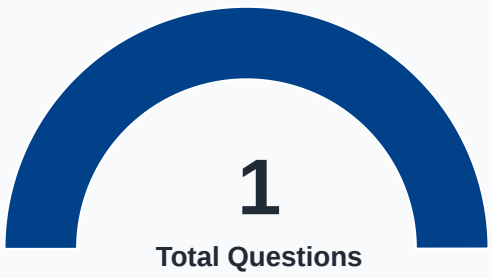
Section 1	question(s)	Time taken	Marks Scored
Program	1 Q.	6m 13s (Untimed)	40 / 40

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

9th Feb 2023

09:08 AM — Started the test with Program

09:14 AM — Finished the test

About the Report

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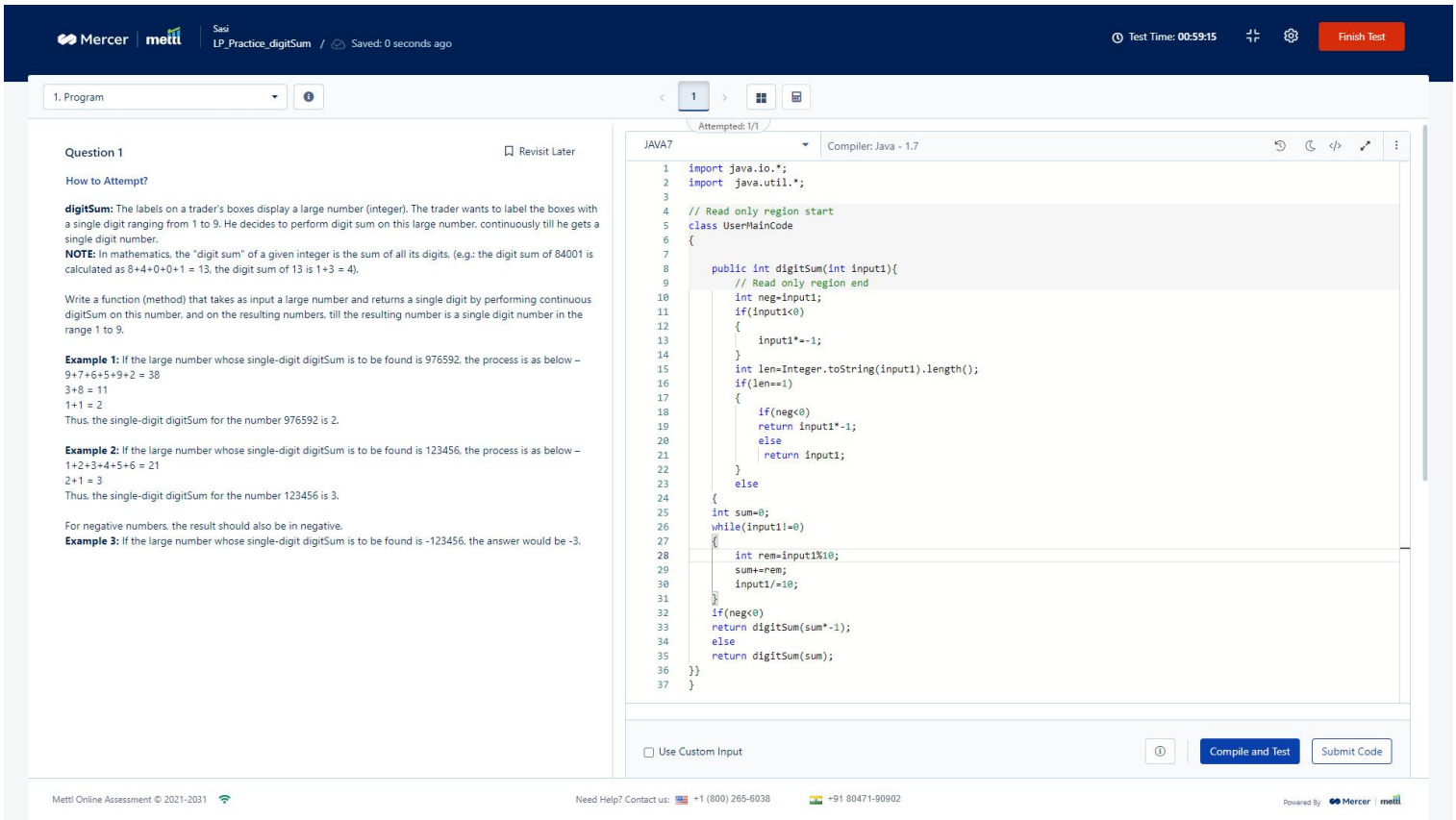
Mercer | mettl
Sasi
LP_Practice_digitSum / Saved: 0 seconds ago
Test Time: 00:59:15
Finish Test
1. Program
1
Attempted: 1/1
Question 1
Revisit Later
How to Attempt?
digitSum: The labels on a trader's boxes display a large number (integer). The trader wants to label the boxes with a single digit ranging from 1 to 9. He decides to perform digit sum on this large number, continuously till he gets a single digit number.
NOTE: In mathematics, the "digit sum" of a given integer is the sum of all its digits. (e.g.: the digit sum of 84001 is calculated as 8+4+0+0+1 = 13, the digit sum of 13 is 1+3 = 4).
Write a function (method) that takes as input a large number and returns a single digit by performing continuous digitSum on this number, and on the resulting numbers, till the resulting number is a single digit number in the range 1 to 9.
Example 1: If the large number whose single-digit digitSum is to be found is 976592, the process is as below –
9+7+6+5+9+2 = 38
3+8 = 11
1+1 = 2
Thus, the single-digit digitSum for the number 976592 is 2.
Example 2: If the large number whose single-digit digitSum is to be found is 123456, the process is as below –
1+2+3+4+5+6 = 21
2+1 = 3
Thus, the single-digit digitSum for the number 123456 is 3.
For negative numbers, the result should also be in negative.
Example 3: If the large number whose single-digit digitSum is to be found is -123456, the answer would be -3.
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 digitSum(int input1){
9 // Read only region end
10 int neg=input1;
11 if(input1<0)
12 {
13 input1*=-1;
14 }
15 int len=Integer.toString(input1).length();
16 if(len==1)
17 {
18 if(neg<0)
19 return input1*-1;
20 else
21 return input1;
22 }
23 else
24 {
25 int sum=0;
26 while(input1!=0)
27 {
28 int rem=input1%10;
29 sum+=rem;
30 input1/=10;
31 }
32 if(neg<0)
33 return digitSum(sum*-1);
34 else
35 return digitSum(sum);
36 }}
37 }
Use Custom Input
Compile and Test
Submit Code
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