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   ↺ ☾ </> ⤢ ⋮

```java
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 digitCount = String.valueOf(input1).length();
11          if (digitCount == 1) return input1;
12
13          int sum = 0;
14          int number = input1;
15          if (input1 < 0) number *= -1;
16
17          while (digitCount != 1) {
18              int currentSum = 0;
19              while (number != 0) {
20                  currentSum += number % 10;
21                  number /= 10;
22              }
23              sum = currentSum;
24              number = sum;
25              digitCount = String.valueOf(sum).length();
26          }
27
28          if (input1 < 0) sum *= -1;
29          return sum;
30      }
31  }
```

☐ Use Custom Input   ⓘ   **Compile and Test**   Submit Code

1. Program

< 1 >

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☐ Use Custom Input

ⓘ **Compile and Test** **Submit Code**

Code Execution Code History

0/1 - Sample Test Cases Failed

✓ **Default** ⌃

🕐 **CODE EXECUTION DETAILS**

Time: 181 ms

Memory: 103812 kb

</> **TEST CASE INFORMATION**

Input

-99999

Expected Output

-9

Actual Output

-9

>_ **CONSOLE OUTPUT**

▤ **STANDARD ERROR/WARNING**

None

1. Program ▾   ⓘ

◁ **1** ▷   ⊞   🖩

Question 1

🔖 Revisit Later

How to Attempt?

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☐ Use Custom Input   Attempted: 1/1   ⓘ   **Compile and Test**   Submit Code

Code Execution   Code History

0/15 - Graded Test Cases Failed

✅ Test case 1

✅ Test case 2

✅ Test case 3

✅ Test case 4

✅ Test case 5

✅ Test case 6

✅ Test case 7

✅ Test case 8

✅ Test case 9

✅ Test case 10

✅ Test case 11

✅ Test case 12

✅ Test case 13

✅ Test case 14

✅ Test case 15

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⚠ **Finish Test**

Your Test Summary

1 Total
Questions

● Attempted: 1/1
● Marked for Revisit: 0/1
● Unattempted: 0/1

1. Program ▾ ⓘ

‹ **1** ›

Attempt

JAVA7

Section Summary

#	SECTION NAME	STATUS	
1.	Program Untimed Section	1	0
			Total: 1 Questions

Question 1

☐ Revisit Later

How to Attempt?

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```
1    import
2    import
3
4    // Read
5    class U
6    {
7
8        pub
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30        }
31   }
```

☐ Use Custom In

Yes, End Test!   **No, Back to Test**