

1. Program

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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.

Attempted: 1/1

✓ 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



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✔️ 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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Attempted: 1/1

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JAVA7

Compiler: Java - 1.7

```
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 }
38
39
```

☐ Use Custom Input

Compile and Test

Submit Code