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Java Inheritance II ⭐

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Write the following code in your editor below:

1. A class named Arithmetic with a method named add that takes **2** integers as parameters and returns an integer denoting their sum.

2. A class named Adder that inherits from a superclass named Arithmetic.

Your classes should not be be **public**.

Input Format

You are not responsible for reading any input from stdin; a locked code stub will test your submission by calling the add method on an Adder object and passing it **2** integer parameters.

Output Format

You are not responsible for printing anything to stdout. Your add method must return the sum of its parameters.

Sample Output

The main method in the Solution class above should print the following:

```
My superclass is: Arithmetic
42 13 20
```

Author	Shafaet
Difficulty	Easy
Max Score	10
Submitted By	250109

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```
1  import java.io.*;
2  import java.util.*;
3  import java.text.*;
4  import java.math.*;
5  import java.util.regex.*;
6
7  class Arithmetic {
8      int add(int a, int b) {
```
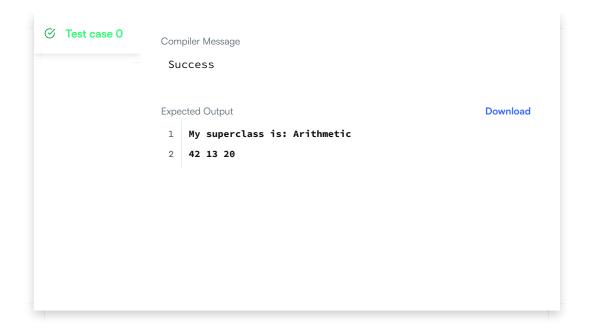
```
 9            return a + b;
10        }
11    }
12
13    class Adder extends Arithmetic {
14        // Adder inherits the add method from Arithmetic
15    }
16
17    public class Solution{
18        public static void main(String []args){
19            // Create a new Adder object
20            Adder a = new Adder();
21
22            // Print the name of the superclass on a new line
23            System.out.println("My superclass is: " + a.getClass
      .getSuperclass().getName());
24
25            // Print the result of 3 calls to Adder's `add(int,
      int)` method as 3 space-separated integers:
26            System.out.print(a.add(10,32) + " " + a.add(10,3) + '
      " + a.add(10,10) + "\n");
27        }
28    }
29
```

Line: 11 Col: 2

⤒ Upload Code as File   ☐ Test against custom input   **Run Code**   Submit Code

You have earned 10.00 points!   **60%**   40/50
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You solved this challenge. Would you like to challenge your friends?

✓ **Test case 0**

Compiler Message

Success

Expected Output   Download

1   **My superclass is: Arithmetic**

2   **42 13 20**