

Our Solution(s)	Run Code	Your Solutions	Run Code
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Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 import java.util.*;
4
5 class Program {
6     // O(n) time | O(d) space - where n is the total number of elements
7     // including sub-elements, and d is the greatest depth of "special"
8     public static int productSum(List<Object> array) {
9         return productSumHelper(array, 1);
10    }
11
12    public static int productSumHelper(List<Object> array, int multiplier) {
13        int sum = 0;
14        for (Object el : array) {
15            if (el instanceof ArrayList) {
16                @SuppressWarnings("unchecked")
17                ArrayList<Object> ls = (ArrayList<Object>) el;
18                sum += productSumHelper(ls, multiplier + 1);
19            } else {
20                sum += (int) el;
21            }
22        }
23        return sum * multiplier;
24    }
25 }
26
```

Solution 1Solution 2Solution 3

```
1 import java.util.*;
2
3 class Program {
4     public static int productSum(List<Object> array) {
5         // Write your code here.
6         return -1;
7     }
8 }
9
```

Run or submit code when you're ready.

Our Tests

```
1 import java.util.*;
2
3 class ProgramTest {
4     static
5     public void TestMethod() {
6         System.out.println("Test");
7     }
8 }
```