Practice > Algorithms > Warmup > A Very Big Sum

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In this challenge, you are required to calculate and print the sum of the elements in an array, keeping in mind that some of those integers may be quite large.

Function Description

Complete the aVeryBigSum function in the editor below. It must return the sum of all array elements.

aVeryBigSum has the following parameter(s):

- int ar[n]: an array of integers .

Return

- long: the sum of all array elements

Input Format

The first line of the input consists of an integer n.

The next line contains n space-separated integers contained in the array.

Output Format

Return the integer sum of the elements in the array.

Constraints

$1 \leq n \leq 10$

$0 \leq ar[i] \leq 10^{10}$

Sample Input

```
5
1000000001 1000000002 1000000003 1000000004 1000(
```

Output

```
5000000015
```

Note:

The range of the 32-bit integer is

$(-2^{31})\ to\ (2^{31} - 1)\ or\ [-2147483648, 2147483647]$.

When we add several integer values, the resulting sum might exceed the above range. You might need to use long int

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```java
1   import java.io.*;
2   import java.math.*;
3   import java.security.*;
4   import java.text.*;
5   import java.util.*;
6   import java.util.concurrent.*;
7   import java.util.regex.*;
8
9   public class Solution {
10
11      // Complete the aVeryBigSum function below.
12      static long aVeryBigSum(long[] ar) {
13
14          long sum = 0L;
15          for (long l : ar) {
16              sum += l;
17          }
18          return sum;
19
20      }
```

Line: 50 Col: 1

⬆ Upload Code as File
☐ Test against custom input

Run Code   **Submit Code**

You have earned 10.00 points!
You are now 60 points away from the 2nd star for your problem solving badge.

14%   40/100

Problem Solving
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Congratulations

You solved this challenge. Would you like to challenge your friends?

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