LACS-Elite-Combination-Part001

Solved Challenges 1/2

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Combination Zero Sum

ID:11076 **Solved By 693 Users**

The program must accept **N** integers as the input. The program must print the number of combinations of the integers (among the N integers) which add up to 0 as the output.

Boundary Condition(s):
2 <= N <= 15
-100 <= Each integer value <= 100

Input Format:
The first line contains N.
The second line contains N integers separated by a space.

Output Format:
The first line contains the number of combinations of the integers (among the N integers) which add up to 0.

Example Input/Output 1:
Input:
5
10 -5 5 -15 20

Output:
3

Explanation:
The three combinations which add up to 0 are
10, 5, -15
20, -5, -15
-5, 5

Example Input/Output 2:
Input:
7
10 -5 5 -15 20 5 10

Output:
10

Max Execution Time Limit: 500 millisecs

Ambiance

Java (12.0)

Reset

```
import java.util.*;
public class Hello {

    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);
        int N = in.nextInt();
        Integer arr[] = new Integer[N];

        for(int index=0;index<N;index++)
        {
            arr[index] = in.nextInt();
        }
        int counter = 0;
        for(int ctr=1;ctr<(1<<N);ctr++)
        {
            int sum = 0;
            for(int bmi=0;bmi<N;bmi++)
            {
                if((ctr & (1<<bmi)) !=0)
                {
                    sum = sum + arr[bmi];
                }
            }
            if(sum == 0)
            counter++;
        }
        System.out.println(counter);
    }
}
```

Custom test case has passed.

SUCCESS

You have executed a custom test case. Kindly un-check "Run with a custom test case (Input/Output)" to execute challenge test cases.

Save Run

☑ Run with a custom test case (Input/Output)

Your input

```
2
5 -5
```

Your expected output

```
1
```