



STUDENT REPORT

DETAILS

Name

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EXPERIMENT

Title

PREFIX-SUFFIX BALANCE

Description

You are given an array A of N integers. The array A can be divided into two parts: the first part consists of the first 'i' elements of A (where i ranges from 1 to N), and the second part consists of the last (N-i) elements of A

Your task is to find and return a new array named result of the same size as A, where each element of result[i] represents the absolute difference between the sum of the elements in the first part of A and the sum of the elements in the second part of A

Note: For i = N, N-i = 0. So, consider the sum of last N-i integers as 0 in this case

Input Specifications:

input1: An integer value representing the size of the array A.

input2: An integer array A.

Output Specification:

Return a new integer array named result of the same size as A, where each element of result[i] represents the absolute difference between the sum of the elements in the first part A and the sum of the elements in the second part of A

Sample Input:

5

1 2 3 4 5

Sample Output:

[13, 9, 3, 5, 15]

Source Code:

```
def prefix_suffix(a,n):  
    result=[]  
    for i in range(n):  
        first=a[:i+1]  
        second=a[i+1:]  
        diff=abs(sum(first)-sum(second))  
        result.append(diff)  
    return result  
n=int(input())  
a=list(map(int,input().split()))  
print(prefix_suffix(a,n))
```

RESULT

5 / 5 Test Cases Passed | 100 %