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Programming Assignment-1: Loops ,List and Sum

Due on 2020-02-20, 23:59 IST

You all have seen how to write loops in python. Now is the time to implement what you have learned.

Given an array **A** of **N** numbers (integers), you have to write a program which prints the sum of the elements of array **A** with the corresponding elements of the reverse of array **A**.
If array **A** has elements **[1,2,3]**, then reverse of the array **A** will be **[3,2,1]** and the resultant array should be **[4,4,4]**.

Input Format:

The first line of the input contains a number N representing the number of elements in array A.
The second line of the input contains N numbers separated by a space. (after the last elements, there is no space)

Output Format:

Print the resultant array elements separated by a space. (no space after the last element)

Example:

Input:
4
2 5 3 1

Output:
3 8 8 3

Explanation:
Here array A is [2,5,3,1] and reverse of this array is [1,3,5,2] and hence the resultant array is [3,8,8,3]

Sample Test Cases

	Input	Output
Test Case 1	6 9 9 1 9 3 2	11 12 10 10 12 11
Test Case 2	5 4 3 2 1 3	7 4 4 4 7
Test Case 3	8 1 1 11 1 1 1 1 1	2 2 12 2 2 12 2 2
Test Case 4	1 1	2
Test Case 5	4 1 2 3 4	5 5 5 5

Test Case 6	6 1 3 5 7 9 11	12 12 12 12 12 12
Test Case 7	3 9 2 3	12 4 12
Test Case 8	4 6 2 3 4	10 5 5 10

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.
Sample solutions (Provided by instructor)

```
N = int(input())
A = [int(i) for i in input().split(" ")]
B = []
for i in range(len(A)-1, -1,-1):
    B.append(A[i])
C = []
for i in range(len(B)):
    C.append(A[i]+B[i])
for i in range(len(C)):
    if(i==len(C)-1):
        print(C[i])
    else:
        print(C[i],end=" ")
```