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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » **The Joy of Computing using Python (course)**

Announcements (announcements)

About the Course (https://swayam.gov.in/nd1_noc20_cs35/preview) Ask a Question (forum)

Progress (student/home) Mentor (student/mentor)

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

- ☒ Lists Part 1 :
Introduction
(unit?
unit=39&lesson=40)
- ☐ Lists Part 2 :
Manipulation
(unit?
unit=39&lesson=41)
- ☐ Lists Part 3 :
Operations
(unit?
unit=39&lesson=42)
- ☒ Lists Part 4 :
Slicing (unit?
unit=39&lesson=43)

Programming Assignment-1: Loops ,List and Sum

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

- Loops and Conditionals : Fizzbuzz 01 (unit? unit=39&lesson=44)
- Loops and Conditionals : Fizzbuzz 02 (unit? unit=39&lesson=45)
- Crowd Computing - Just estimate 01 (unit? unit=39&lesson=46)
- Crowd Computing - Just estimate 02 (unit? unit=39&lesson=47)
- Crowd Computing - Just estimate 03 (unit? unit=39&lesson=48)
- Crowd Computing - Just estimate 04 (unit? unit=39&lesson=49)
- Crowd Computing - Just estimate 05 (unit? unit=39&lesson=50)
- Crowd Computing - Just estimate 06 (unit? unit=39&lesson=51)
- Permutations - Jumbled Words 01 (unit? unit=39&lesson=52)
- Permutations - Jumbled Words 02 (unit? unit=39&lesson=53)
- Permutations - Jumbled Words 03

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

<input type="radio"/> (unit? unit=39&lesson=54) <input type="radio"/> Theory of Evolution 01 (unit? unit=39&lesson=55) <input type="radio"/> Theory of Evolution 02 (unit? unit=39&lesson=56) <input type="radio"/> Theory of Evolution 03 (unit? unit=39&lesson=57) <input type="radio"/> Theory of Evolution 04 (unit? unit=39&lesson=58) <input type="radio"/> Quiz : Assignment 3 (assessment? name=262) <input type="radio"/> Programming Assignment- 1: Loops ,List and Sum (/noc20_cs35/progassignment? name=273) <input type="radio"/> Programming Assignment-2: Max and Min (/noc20_cs35/progassignment? name=274) <input type="radio"/> Programming Assignment-3: Multiple of 5 (/noc20_cs35/progassignment? name=275) <input type="radio"/> Week 3 Feedback (unit? unit=39&lesson=278)	Test Case 6	<div>6</div> <div>1 3 5 7 9 11</div>	<div>12 12 12 12 12 12</div>
	Test Case 7	<div>3</div> <div>9 2 3</div>	<div>12 4 12</div>
	Test Case 8	<div>4</div> <div>6 2 3 4</div>	<div>10 5 5 10</div>
	<p>The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Sample solutions (Provided by instructor)</p> <pre> 1 N = int(input()) 2 A = [int(i) for i in input().split(" ")] 3 B = [] 4 for i in range(len(A)-1, -1, -1): 5 B.append(A[i]) 6 C = [] 7 for i in range(len(B)): 8 C.append(A[i]+B[i]) 9 for i in range(len(C)): 10 if(i==len(C)-1): 11 print(C[i]) 12 else: 13 print(C[i],end=" ") </pre>		
week 4			
Week 5			
Week 6			
Week 7			
Week 8			

Week 9

Week 10

Week 11

Week 12

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