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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Problem Solving Through Programming In C (course)



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Course outline

How does an NPTEL online course work? ()

Week 0 : ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 12 : Programming Assignment 4

Due on 2023-10-19, 23:59 IST

Write a C program to find the sum of two 1D integer arrays 'A' and 'B' of same size and store the result in another array 'C', where the size of the array and the elements of the array are taken as input.

In the Test case the input is given as follows

5
10
20
30
40
50
1
2
3
4
5

So the output will be displayed as

Result is

11
22
33
44
55

Write the program accordingly. Use dynamic memory allocation.

Your last recorded submission was on 2023-10-11, 13:41 IST

Select the Language for this assignment. C ▾

```
1 #include<stdio.h>
2 #include<stdlib.h>
3
```



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```

4 void main()
5 {
6     int i,n;
7
8     //The number of elements in each array is taken from test case data
9
10    scanf("%d", &n);

11    int *a,*b,*c;
12    a = (int *) malloc(n*sizeof(int));
13    b = (int *) malloc(n*sizeof(int));
14    c = (int *) malloc(n*sizeof(int));
15
16    // Input Elements of First List;
17    for(i=0;i<n;i++)
18    {
19        scanf("%d",a+i);
20    }
21
22    //Input Elements of Second List;
23    for(i=0;i<n;i++)
24    {
25        scanf("%d",b+i);
26    }
27
28    for(i=0;i<n;i++)
29    {
30        *(c+i) = *(a+i) + *(b+i);
31    }
32
33
34    printf("Result is\n");
35
36    for(i=0; i<n; i++)
37    {
38        printf("%d\n",*(c+i));
39    }
40
41 }

```

You may submit any number of times before the due date. The final submission will be considered for grading.

This assignment has Public Test cases. Please click on "Compile & Run" button to see the status of Public test cases. Assignment will be evaluated only after submitting using Submit button below. If you only save as or compile and run the Program , your assignment will not be graded and you will not see your score after the deadline.

[Save as Draft](#)[Compile & Run](#)[Subit](#)[Reset](#)

Sample Test Cases

Input

Output



Test Case 1	5 10 20 30 40 50 1 2 3 4 5	Result is 11 22 33 44 55
Test Case 2	4 100 200 300 400 400 300 200 100	Result is 500 500 500 500

