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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 : Programming Assignment 3

Due on 2023-09-07, 23:59 IST

Write a C program to read Two One Dimensional Arrays of same data type (integer type) and merge them into another One Dimensional Array of same type.

Your last recorded submission was on 2023-08-30, 21:04 IST

Select the Language for this assignment. C ▾

```

1 #include<stdio.h>
2 int main()
3 {
4     int arr1[20], arr2[20], array_new[40], n1, n2, size, i;
5     /*n1 size of first array (i.e. arr1[]), n2 size of second array(i.e. arr
6     size is the total size of the new array (array_new[]) */
7
8     scanf("%d", &n1); //Get the size of first array from test data and sto
9
10    for (i = 0; i < n1; i++)
11        scanf("%d", &arr1[i]); //Accepts the values for first array
12
13    scanf("%d", &n2); //Get the size of second array from test data and st
14
15    for (i = 0; i < n2; i++)
16        scanf("%d", &arr2[i]); //Accepts the values for second array
17
18    //Marge two arrays
19
20    size=n1+n2;
21    int c=0;
22    for(int i=0;i<n1;i++)
23    {
24        array_new[i]=arr1[i];
25        c++;
26    }
27    int k=0;
28    for(int j=c;j<size;j++)
29    {
30        array_new[j]=arr2[k];
31        k++;
32    }
33
```

Week 6 ()

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```
0 //Printing after merging
1
2 for (i = 0; i < size; i++) {
3     printf("%d\n", array_new[i]);
4 }
5
6 }
```

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

Submit

Reset

Sample Test Cases		
	Input	Output
Test Case 1	3	10 20 30 40 50 60 70
	10	
	20	
	30	
	4	
	40	
	50	
	60	
Test Case 2	70	9 7 6 5 30 50
	4	
	9	
	7	
	6	
	5	
	2	
	30	
	50	

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