

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.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	3			Passed
	15	15\n	15\n	
	45	45\n	45\n	
	25	25\n	25\n	
	3	60\n	60\n	
	60	70\n	70\n	
	70	80	80\n	
	80			
Test Case 2	4			Passed
	90	90\n	90\n	
	80	80\n	80\n	
	10	10\n	10\n	
	30	30\n	30\n	
	2	25\n	25\n	
	25	75	75\n	
	75			

Assignment submitted on 2023-09-06, 22:04 IST

Your last recorded submission was :

```
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. arr2[]),
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 store it in n1.
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 store it in n2.
14
15    for (i = 0; i < n2; i++)
16        scanf("%d", &arr2[i]); //Accepts the values for second array
17
18    //Merge two arrays
19    size = n1+n2;
20    int j;
21    for (i = 0; i < n1; i++){
22        array_new[i]=arr1[i];
23    }
24
25    for(i=0,j=n1; j<size && i<n2; i++,j++){
26        array_new[j] = arr2[i];
27    }
28
29
30    //Printing after merging
31
32    for (i = 0; i < size; i++) {
33        printf("%d\n", array_new[i]);
34    }
35
36 }
```