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

Week 9 : Programming Assignment 4

Due on 2023-09-28, 23:59 IST

Write a C program to reverse an array by swapping the elements and without using any new array.

Your last recorded submission was on 2023-09-25, 22:03 IST

Select the Language for this assignment. C

```
1 #include <stdio.h>
2 int main() {
3     int array[100], n, c;
4     scanf("%d", &n); // n is number of elements in the array.
5     for (c = 0; c < n; c++) {
6         scanf("%d", &array[c]);
7     }
8     int a;
9     for (c = 0; c < n/2; c++)
10    {
11        a=array[c];
12        array[c]=array[n-c-1];
13        array[n-c-1]=a;
14    }

0 printf("Reversed array elements are:\n");
1
2     for (c = 0; c < n; c++) {
3         printf("%d\n", array[c]);
4     }
```

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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 8 ()****Week 9 ()**

- ☐ Lecture 41: Substitution of # include and Macro (unit? unit=85&lesson=86)
- ☐ Lecture 42: "search" as a function (unit? unit=85&lesson=87)
- ☐ Lecture 43: Binary Search (unit? unit=85&lesson=88)
- ☐ Lecture 44: Binary Search (Contd.) (unit? unit=85&lesson=89)
- ☐ Lecture 45: Sorting Methods (unit? unit=85&lesson=90)
- ☒ Quiz: Week 9 : Assignment 9 (assessment? name=260)
- ☒ Week 9 : Programming Assignment 1 (/noc23_cs121/progassignment? name=262)
- ☒ Week 9 : Programming Assignment 2 (/noc23_cs121

```
5 | return 0;
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 DraftCompile & RunSubmitReset**Sample Test Cases**

	Input	Output
Test Case 1	4	Reversed array elements are:
	10	40
	20	30
	30	20
	40	10
Test Case 2	5	Reversed array elements are:
	50	20
	60	30
	40	40
	30	60
	20	50

/progassignment?
name=263)

● Week 9 :
Programming
Assignment 3
(/noc23_cs121
/progassignment?
name=264)

● **Week 9 :
Programmin
g Assignment
4
(/noc23_cs12
1/progassign
ment?
name=265)**

○ Feedback
Form of Week
9 (unit?
unit=85&lesso
n=266)

Week 10 ()

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Solving
Session -
July 2023 ()**