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

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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.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	7 8 9 10 6 4 7 11	Reversed array elements are:\n 11\n 7\n 4\n 6\n 10\n 9\n 8	Reversed array elements are:\n 11\n 7\n 4\n 6\n 10\n 9\n 8\n	Passed

The due date for submitting this assignment has passed.
1 out of 1 tests passed.
You scored 100.0/100.

Assignment submitted on 2023-09-28, 22:05 IST
Your last recorded submission was :

```
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 temp=0;
9  for(c=0;c<n/2;c++)
10 {
11   temp=array[c];
```

```
12    array[c]=array[n-1-c];
13    array[n-1-c]=temp;
14
15
16 }
17
18 printf("Reversed array elements are:\n");
19
20    for (c = 0; c < n; c++) {
21      printf("%d\n", array[c]);
22    }
23    return 0;
24 }
```

Sample solutions (Provided by instructor)

```
 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 temp, end;
 9   end = n - 1;
10   for (c = 0; c < n/2; c++) {
11     temp      = array[c];
12     array[c]   = array[end];
13     array[end] = temp;
14
15     end--;
16   }
17 printf("Reversed array elements are:\n");
18
19   for (c = 0; c < n; c++) {
20     printf("%d\n", array[c]);
21   }
22   return 0;
23 }
```