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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 8: Programming Assignment 4

Due on 2023-09-21, 23:59 IST

Write a C Program to reverse a given word using function. e.g. INDIA should be printed as AIDNI

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	INDIA	The string after reversing is: AIDNI	The string after reversing is: AIDNI	Passed
Test Case 2	DELHI	The string after reversing is: IHLED	The string after reversing is:	Passed

The due date for submitting this assignment has passed.

2 out of 2 tests passed.

You scored 100.0/100.

Week 2 ()

Week 3 ()

Week 0:()

Week 1 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Assignment submitted on 2023-09-21, 20:46 IST

Your last recorded submission was :

```
1 #include<stdio.h>
 2 #include<string.h>
   void reverse(char[], int, int);
        int main()
            char str1[20];
            scanf("%s", str1); //The string is taken as input form the test data.
10 /* Complete the program to print the string in reverse order using the functi
11 void reverse(char[], int, int);
12 Use the printf statement as 13 printf("The string after reversing is: %s\n", str1);
14 You can use different variable also.
```

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

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```
15 | */
16
      int length=strlen(str1);
      reverse(str1,0,length-1);
printf("The string after reversing is: %s",str1);
17
18
      return 0;
19
20
21
22
      void reverse(char str[],int start,int end)
23
                 while(start<end)</pre>
24
25
                   char temp=str[start];
26
                   str[start]=str[end];
27
                   str[end]=temp;
28
                   start++;
29
                   end--;
30
                 }
31
               }
```

Sample solutions (Provided by instructor)

```
1 #include<stdio.h>
 2 #include<string.h>
   void reverse(char[], int, int);
 5
        int main()
 6
7
        {
             char str1[20];
 8
             scanf("%s", str1); //The string is taken as input form the test data.
   /st Complete the program to print the string in reverse order using the functi
10
   void reverse(char[], int, int);
11
   Use the printf statement as printf("The string after reversing is: %s\n", str1);
12
   You can use different variable also.
15
   int size;
16
        size = strlen(str1);
17
             reverse(str1, 0, size - 1);
printf("The string after reversing is: %s", str1);
18
19
20
             return 0;
21
        }
22
23
        void reverse(char str1[], int index, int size)
24
25
26
             char temp;
temp = str1[index];
27
             str1[index] = str1[size - index];
28
29
             str1[size - index] = temp;
if (index == size / 2)
30
             {
31
                  return;
32
33
             reverse(str1, index + 1, size);
        }
34
```

