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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 7 : Programming Assignment 4

Due on 2023-09-14, 23:59 IST

Write a C program to print Largest and Smallest Word from a given sentence. If there are two or more words of same length, then the first one is considered. A single letter in the sentence is also consider as a word.

Your last recorded submission was on 2023-09-06, 14:54 IST

Select the Language for this assignment. C ⌄

```
1  #include<stdio.h>
2  #include<string.h>
3  int main()
4  {
5      char str[100]={0},substr[100][100]={0};
6  //str[100] is for storing the sentence and substr[50][50] is for storing
7
8  scanf("%[^\n]s", str); //Accepts the sentence from the test case data.
9
10 /* Complete the program to get the desired output.
11 The print statement should be as below
12
13 printf("Largest Word is: %s\nSmallest word is: %s\n", -------,-------);
14
15 */
```

```
16 int k=0;
17 int j=0;
18 int i=0;
19 for(i=0;str[i]!='\0';i++)
20 {
21     if(str[i]!=' ' &&str[i]!='\0' && str[i]!='.')
22     {
23       substr[k][j]=str[i];
24       j++;
25     }
26     else
27     {
28       substr[k][j]='\0';
29       k++;
30       j=0;
31     }
32 }
33
```

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```
34  int max_index=0;
35  int min_index=0;
36  int max=strlen(substr[0]);
37  int min=strlen(substr[0]);
38  int len=k;
```

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 **D**raft | **Compile & Run** | **S**ubmit | **R**eset |

Sample Test Cases

	Input	Output
Test Case 1	Problem Solving through Programming in C.	Largest Word is: Programming Smallest word is: C
Test Case 2	NPTEL is a joint initiative of the IITs and IISc.	Largest Word is: initiative Smallest word is: a