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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 1

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

Write a C Program to Count Number of Uppercase and Lowercase Letters in a given string. The given string may be a word or a sentence.

Private Test cases used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	`Problem Solving through Programming in C.`	`Uppercase Letters : 4\n Lowercase Letters : 31`	`Uppercase Letters : 4\n Lowercase Letters : 31`	Passed
Test Case 2	`AICTE Approved FDP Course`	`Uppercase Letters : 10\n Lowercase Letters : 12`	`Uppercase Letters : 10\n Lowercase Letters : 12`	Passed

The due date for submitting this assignment has passed.
2 out of 2 tests passed.
You scored 100.0/100.

Assignment submitted on 2023-09-02, 23:24 IST

Your last recorded submission was :

```
1 #include<stdio.h>
2 int main() {
3    int upper = 0, lower = 0;
4    char ch[100];
5    scanf(" %[^\n]s", ch);  /*A word or a sentence is accepted from test case
6
7 /* Complete the remaining part of the code to store number of uppercase lette
8 in the variable upper and lowercase letters in variable lower.
9 The print part of already written. You can declare any variable if necessary
```

```
for(int i=0;ch[i]!='\0';i++)
{
  if(ch[i]>='A' && ch[i]<='Z')
    upper++;
  else if(ch[i]>='a' && ch[i]<='z')
    lower++;
}
printf("Uppercase Letters : %d\n", upper); /*prints number of uppercase lette
   printf("Lowercase Letters : %d", lower); /*prints number of lowercase lett

   return (0);
}
```

Sample solutions (Provided by instructor)

```
#include<stdio.h>
int main() {
   int upper = 0, lower = 0;
   char ch[100];
   scanf(" %[^\n]s", ch);  /*A word or a sentence is accepted from test case

/* Complete the remaining part of the code to store number of uppercase lette
in the variable upper and lowercase letters in variable lower.
The print part of already written. You can declare any variable if necessary
int i = 0;
   while (ch[i] != '\0') {
      if (ch[i] >= 'A' && ch[i] <= 'Z')
         upper++;
      if (ch[i] >= 'a' && ch[i] <= 'z')
         lower++;
      i++;
   }
printf("Uppercase Letters : %d\n", upper); /*prints number of uppercase lette
   printf("Lowercase Letters : %d", lower); /*prints number of lowercase lett

   return (0);
}
```