

longWordLength

Write a C function that accepts an English sentence as parameter, and returns the length of the longest word in the sentence. For example, if the sentence is "I am happy.", then the length of the longest word "happy" in the sentence 5 will be returned. Assume that each word is a sequence of English letters. The function prototype is given as follows:

```
int longWordLength(char *s);
```

A sample template for the program is given below:

```
#include <stdio.h>
#include <string.h>
int longWordLength(char *s);
int main()
{
    char str[80], *p;

    printf("Enter a string: \n");
    fgets(str, 80, stdin);
    if (p=strchr(str,'\n')) *p = '\0';
    printf("longWordLength(): %d\n", longWordLength(str));
    return 0;
}
int longWordLength(char *s)
{
    /* Write your code here */
}
```

```
int longWordLength(char *s)
{
    int count= 0;
    int i;
    int max = 0;

    for(i=0;s[i]!='\0';i++)
    {
        if(s[i]!=' '&& s[i]!='.')
        {
            count++;
        }
        if(count>max)
        {
            max = count;
        }
        if(s[i]==' ')
        {
            count=0;
        }
    }
    return max;
}
```

Some test input and output sessions are given below:

- (1) Test Case 1:
Enter a string:
I am happy.
longWordLength(): 5
- (2) Test Case 2:
Enter a string:
There are forty students in the class.
longWordLength(): 8
- (3) Test Case 3:
Enter a string:
Good day!
longWordLength(): 4
- (4) Test Case 4:
Enter a string:
Hello
longWordLength(): 5

