

countSubstring

Write a C function `countSubstring()` that takes in two parameters ***str*** and ***substr***, and counts the number of substring ***substr*** occurred in the character string ***str***. If the ***substr*** is not contained in ***str***, then it will return 0. Note that you do not need to consider special test cases such as `str = "aooob"` and `substr = "oo"`. Please follow the test samples for your implementation.

A sample program template is given below:

```
#include <stdio.h>
#include <string.h>
int countSubstring(char str[], char substr[]);
int main()
{
    char str[80], substr[80];
    int result;

    printf("Enter the string: \n");
    scanf("%s",str);
    printf("Enter the substring: \n");
    scanf("%s",substr);
    result = countSubstring(str, substr);
    printf("countSubstring(): %d\n", result);
    return 0;
}
int countSubstring(char str[], char substr[])
{
    /* Write your code here */
}
```

Some test input and output sessions are given below:

(1) Test Case 1:

```
Enter the string:
abcdef
Enter the substring:
dd
countSubstring(): 0
```

(2) Test Case 2:

```
Enter the string:
abcabcabc
Enter the substring:
abc
countSubstring(): 3
```

(3) Test Case 3:

```
Enter the string:
babababaabf
Enter the substring:
```

ab

countSubstring(): 4

```
#include <stdio.h>
#include <string.h>
#define INIT_VALUE -1
int countSubstring(char str[], char substr[]);
int main()
{
    char str[80], substr[80], *p;
    int result=INIT_VALUE;

    printf("Enter the string: \n");
    fgets(str, 80, stdin);
    if (p=strchr(str,'\n')) *p = '\0';
    printf("Enter the substring: \n");
    fgets(substr, 80, stdin);
    if (p=strchr(substr,'\n')) *p = '\0';
    result = countSubstring(str, substr);
    printf("countSubstring(): %d\n", result);
    return 0;
}
int countSubstring(char str[], char substr[])
{
    int count=0;
    int i,j,k;

    for(i=0;str[i]!='\0';i++)
    {
        for(j=i,k=0;str[j]==substr[k];j++,k++)
        {
            if(substr[k+1]=='\0')
            {
                count+=1;
                break;
            }
        }
    }
    return count;
}
```

the condition is when the str character same as substr character

when the substr ends