

C# string, for, while 基础练习

Only Console Application for all

C# for/while loop练习

Due by 01-16-2017 11:00pm

For, while 循环是所有程序的基础。我们需要不断练习，学会马上将自己的思维转化到for, while 的程序表达思维。

1, write a for loop to get the sum from 1 to n. n is an input integer from console.

2, 要求用户输入username 和 password; 只要 username 不是 “hello” password 不是 “123” 就一直重复要求用户输入username and password

3, 不断要求用户输入一个正整数 or “end”. 当用户输入”end” 时候，返回刚才输入数字中的最大值

Hint: define a variable int max. And max should be initial to be 0. After getting each integer from console, you can compare the max with the input integer and update max to be the larger one.

4, Fibonacci: write a function to calculate the nth fibonacci number

Hint: **斐波纳契数列**，又称黄金分割数列，指的是这样一个数列：1、1、2、3、5、8、13、21、.....在数学上，斐波纳契数列以如下被以递归的方法定义：F0=0，F1=1， $F_n = F_{(n-1)} + F_{(n-2)}$ ($n \geq 2, n \in \mathbb{N}^*$)。

C# string 练习

Due by 01-17-2017 11:00pm

C# string 里面已经有很多已经写好的方法。大家不需要背下来常用方法。但，需要在实际运用中快速搜索，比如 search “how to get a sub string from whole string in C#” in google, you need to know how to use Substring in C#.

1. Get the string from console input. Reverse the input string.

E.g . “abc” → “cba”

2. Get a sentence from console input. Reverse the sentence.

E.g. “I love you” -> “you love I”

3. Extract username and domain name from email address

E.g. “abc@gmail.com” ---> output: “user name is abc. Domain name is gmail”

Hint: try to search how to use IndexOf and substring methods in string class in C#

You may need to use IndexOf method to get the position of ‘@’ and then use Substring method

- 4, Convert all numeric character in an input string to respective word;

E.g. “123”--> “onetwothree” ; “1qw!” → “oneqw!”

Hint: In this problem, you need to use a “for” loop and switch case statement.