Dashbo... / My cour... / CS23331-DAA-2023-... / Finding Time Complexity of Algorit... / Problem 1: Finding Complexity using Counter Me...

Started on	Tuesday, 20 August 2024, 1:34 PM
State	Finished
Completed on	Tuesday, 20 August 2024, 1:37 PM
Time taken	3 mins 32 secs
Marks	1.00/1.00
Grade	<b>10.00</b> out of 10.00 ( <b>100</b> %)

```
Question 1
Correct
Mark 1.00 out of 1.00
```

```
Convert the following algorithm into a program and find its time complexity using the counter method.

void function (int n)
{
   int i= 1;
```

```
int s =1;

while(s <= n)
{
    i++;
    s += i;
}

Note: No need of counter increment for declarations and scanf() and count variable printf() statements.

Input:
A positive Integer n
Output:
Print the value of the counter variable</pre>
```

## For example:

Input	Result		
9	12		

Answer: (penalty regime: 0 %)

Ace editor not ready. Perhaps reload page?

Falling back to raw text area.

```
#include<stdio.h>
int main(){
    int n;
    scanf("%d",&n);
    int counter =1;
    int i=1;
    counter++;
    int s=1;
    counter++;
    while(s\leqn){
        counter++;
       i++;
        counter++;
        s=s+i;
        counter++;
    printf("%d",counter);
```

		Input	Expected	Got	
~	•	9	12	12	<b>~</b>

		Input	Expected	Got	
•	~	4	9	9	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

## **■** BASIC C PROGRAMMING-PRACTICE

Jump to...

Problem 2: Finding Complexity using Counter method ►