Started on	Friday, 9 August 2024, 2:07 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:12 PM
Time taken	4 mins 48 secs
Marks	1.00/1.00
Grade	**10.00** out of 10.00 (**100**%)

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

For example:

Input	Result
9	12

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
    int c=0;
    int n;
    scanf("%d",&n);
    int i=1;
    c++;
    int s=1;
    c++;
```

```
    while(s<=n)
    {
        c++;
        i++;
        c++;
        s+=i;
        c++;
    }
    c++;
    printf("%d",c);
}
```

	Input	Expected	Got	
✔	9	12	12	✔
✔	4	9	9	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Jump to...

Problem 2: Finding Complexity using Counter method ▶