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Started on	Tuesday, 13 August 2024, 2:22 PM
State	Finished
Completed on	Tuesday, 13 August 2024, 2:34 PM
Time taken	12 mins 2 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 %)

```
1 #include<stdio.h>
2 int main(){
3     int n;
4     scanf("%d",&n);
5     int c=1;
6     int i=1; c++;
7     int s=1; c++;
8     while(s<=n){
9         c++;
10        i++;
11        c++;
12        s+=i;
13        c++;
14    }
15    printf("%d",c);
16 }
```

	Input	Expected	Got	
✓	9	12	12	✓
✓	4	9	9	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

◀ BASIC C PROGRAMMING-PRACTICE

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Problem 2: Finding Complexity using Counter method ▶