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Started on	Thursday, 8 August 2024, 11:10 AM
State	Finished
Completed on	Thursday, 8 August 2024, 11:28 AM
Time taken	17 mins 40 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 s,i,n,c=0;
4     scanf("%d",&n);
5     i=1;
6     c++;
7     s=1;
8     c++;
9     while(s<=n)
10    {
11        c++;
12        i++;
13        c++;
14        s += i;
15        c++;
16    }c++;
17    printf("%d",c);
18
19 }
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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[Problem 2: Finding Complexity using Counter method](#) ►