CS23331-DAA-2024-CSE / Problem 1: Finding Complexity using Counter Method

☑ Problem 1: Finding Complexity using Counter Method

Started on	Tuesday, 30 September 2025, 9:44 PM
State	Finished
Completed on	Tuesday, 30 September 2025, 9:47 PM
Time taken	2 mins 55 secs
Marks	1.00/1.00
Grade	**10.00** out of 10.00 (**100**%)

Question 1 | Correct   Mark 1.00 out of 1.00   ⚑ Flag question

```
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 %)

```c
#include<stdio.h>
int main(){
    int n;
    int count =0;

    scanf("%d",&n);
    int i=1;
    count ++;
    int s=1;
    count++;
    while(s<=n){
        count++;
        i++;
        count++;
        s+=i;
        count++;
    }
    count++;
    printf("%d\n",count);
    return 0;
}
```

	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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