Started on	Friday, 9 August 2024, 2:05 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:35 PM
Time taken	30 mins
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>
void function (int n)
{
    int c=0;
    int i= 1;
    c++;
    int s =1;
    c++;
    while(s <= n)
    {
        c++;
        i++;
        c++;
        s += i;
        c++;
    }
    printf("%d",++c);
}
int main(){
    int n;
    scanf("%d",&n);
    function(n);
}
```

	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 ►