**RAJALAKSHMI
ENGINEERING
COLLEGE**

Started on	Wednesday, 20 August 2025, 8:24 AM
State	Finished
Completed on	Wednesday, 20 August 2025, 8:40 AM
Time taken	16 mins 1 sec
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 %)

```c
1  #include<stdio.h>
2  int main(){
3      int n,count=0;
4      int s=1;count++;
5      int i=1;count++;
6      scanf("%d",&n);
7      while(s<=n){
8          count++;
9          i++;
10         count++;
11         s+=i;
12         count++;
13     }
14     count++;
15     printf("%d",count);
16 }
```

	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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