Started on	Monday, 4 August 2025, 3:12 PM
State	Finished
Completed on	Monday, 4 August 2025, 3:40 PM
Time taken	27 mins 13 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 %)

Reset answer

```
#include<stdio.h>
int function(int n)
{
    int counter =0;
    int i=1,s=1;
    counter++;
    while(s <=n)
    {
        counter++;
        i++;
        counter++;
        s+=i;
        counter++;
    }
    counter++;
    counter++;
    return counter;
}
int main()
{
    int n;
    scanf("%d",&n);
    int ans = function(n);
    printf("%d",ans);
}
```

	Input	Expected	Got	
✔	9	12	12	✔
✔	4	9	9	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.