



<b>Started on</b>	Sunday, 17 August 2025, 7:22 PM
<b>State</b>	Finished
<b>Completed on</b>	Sunday, 17 August 2025, 7:32 PM
<b>Time taken</b>	9 mins 39 secs
<b>Marks</b>	1.00/1.00
<b>Grade</b>	<b>10.00</b> 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 void function (int n)
3 {
4     int c=0;
5     int i= 1;
6     c++;
7     int s =1;
8     c++;
9     while(s <= n){
10         c++;
11         i++;
12         c++;
13         s += i;
14         c++;
15     }
16     c++;
17     printf("%d",c);
18 }
19 int main(){
20     int n;
21     scanf("%d",&n);
22     function(n);
23 }
```

	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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