Started on	Thursday, 31 July 2025, 8:35 AM
State	Finished
Completed on	Thursday, 31 July 2025, 8:45 AM
Time taken	10 mins 29 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

```
1   #include<stdio.h>
2   void function(int);
3   void function(int n)
4 ▾ {
5       int count=0;
6       int i=1;
7       count++;
8       int s=1;
9       count++;
10      while(s<=n)
11 ▾   {
12          count++;
13          i++;
14          count++;
15          s+=i;
16          count++;
17      }
18      count++;
19      printf("%d",count);
20  }
21  int main()
22 ▾ {
23      int n;
24      scanf("%d",&n);
25      function(n);
26  }
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.