



Started on	Wednesday, 30 July 2025, 1:51 PM
State	Finished
Completed on	Wednesday, 30 July 2025, 1:58 PM
Time taken	6 mins 56 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 %)

```

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

	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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