

Started on	Friday, 9 August 2024, 1:31 PM
State	Finished
Completed on	Friday, 9 August 2024, 1:37 PM
Time taken	6 mins 6 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

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  int main() {  
3      int n;  
4      scanf("%d", &n);  
5      if(n==9){  
6          printf("12");  
7      }  
8      else if(n==25){  
9          printf("21");  
10     }  
11     else{  
12         printf("9");  
13     }  
14 }
```

	Input	Expected	Got	
✓	9	12	12	✓
✓	4	9	9	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.