Dashbo... / My cour... / CS23331-DAA-2023-... / Finding Time Complexity of Algorit... / Problem 1: Finding Complexity using Counter Me...

Started on	Friday, 9 August 2024, 1:53 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:03 PM
Time taken	10 mins 17 secs
Marks	1.00/1.00
Grade	<b>10.00</b> out of 10.00 ( <b>100</b> %)

```
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;

    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</pre>
```

## For example:

Input	Result
9	12

## Answer: (penalty regime: 0 %)

```
1
    #include<stdio.h>
 2
 3
    void function (int n)
 4 ₹ {
 5
        int c=0;
        int i= 1;
 6
 7
        C++;
        int s =1;
 8
        c++;
9
        while(s <= n)</pre>
10
11
12
             c++;
13
             i++;
14
             C++;
15
             s += i;
16
             C++;
17
         }
18
        C++;
        printf("%d",c);
19
20
21
22 v int main(){
23
        int n;
        scanf("%d",&n);
24
25
        function(n);
26
    }
27
```

Correct

Marks for this submission: 1.00/1.00.

Jump to... \$

Problem 2: Finding Complexity using Counter method ►