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

Started on	Tuesday, 13 August 2024, 2:36 PM
State	Finished
Completed on	Tuesday, 13 August 2024, 2:45 PM
Time taken	9 mins 5 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</pre>
```

For example:

Input	Result	
9	12	

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
 1
 2 v int main(){
3
        int n;
        scanf("%d",&n);
 4
        int i=1;
5
        int s=1;
 6
7
        int counter=2;
8
        while(s<=n)</pre>
9
10
             i++;
             s+=i;
11
12
             counter+=3;
13
14
        counter++;
15
        printf("%d\n", counter);
16
        return 0;
17
18
19
```

		Input	Expected	Got	
ſ	~	9	12	12	~
ľ	~	4	9	9	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

■ Model exam DAA (B,D,E)

Jump to...

Problem 2: Finding Complexity using Counter method ►