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

Started on	Friday, 9 August 2024, 2:01 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:08 PM
Time taken	7 mins 23 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
 3
    void function (int n)
 4 ▼ {
 5
         int count =0;
         int i= 1;
 6
        count++;
 7
        int s =1;
 8
 9
        count++;
10
         while(s <= n)</pre>
11
12 •
              count++;
13
14
              i++;
15
              count++;
16
              s += i;
17
              count++;
18
         count++;
19
          printf("%d",count);
20
21
22
23
   int main()
24 ▼ {
25
         int n;
         scanf("%d",&n);
26
27
         function(n);
28
29
```

	Input	Expected	Got	
~	9	12	12	~
~	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 ►