Dashbo... / My cour... / CS23331-DAA-2023-... / Finding Time Complexity of Algorit... / Problem 2: Finding Complexity using Counter me...

Started on	Friday, 9 August 2024, 2:09 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:12 PM
Time taken	3 mins 20 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 func(int n)
    if(n==1)
    {
     printf("*");
    }
    else
    {
     for(int i=1; i<=n; i++)
       for(int j=1; j<=n; j++)</pre>
          printf("*");
          printf("*");
          break;
      }
     }
  }
 }
Note: No need of counter increment for declarations and scanf() and count variable printf() statements.
A positive Integer n
Output:
Print the value of the counter variable
```

Answer: (penalty regime: 0 %)

```
1
    #include<stdio.h>
 2
    void func(int n)
 3 ▼ {
 4
         int c=0;
 5
         if(n==1)
 6 ▼
 7
           C++;
 8
           //printf("*");
 9
           C++;
10
         }
11
         else
12 •
13
          for(int i=1; i<=n; i++)</pre>
14
15
16
            for(int j=1; j<=n; j++)</pre>
17
18
                C++;
19
               //printf("*");
20
               C++;
               //printf("*");
21
22
               C++;
23
               break;
24
            }
25
            C++;
26
27
          C++;
28
        }
29
       C++;
30
       printf("%d",c);
31
   int main()
```

11/18/24, 8:43 PM

	Input	Expected	Got	
~	2	12	12	~
~	1000	5002	5002	~
~	143	717	717	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

→ Problem 1: Finding Complexity using Counter Method

Jump to...

Problem 3: Finding Complexity using Counter Method ►