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

Started on	Thursday, 8 August 2024, 11:18 AM
State	Finished
Completed on	Thursday, 8 August 2024, 11:41 AM
Time taken	23 mins 1 sec
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
Print the value of the counter variable
```

Answer: (penalty regime: 0 %)

```
1
    #include<stdio.h>
 2 v int f(int n){
 3
        int c=0;
 4
        c++;//for if statement;
 5 ▼
        if(n==1){
            /*printf("*");*/c++;
 6 ▼
 7 🔻
        }else{
 8 🔻
         for(int i=1; i<=n; i++){
 9 🔻
            for(int j=1; j <= n; j++){
            //printf("*");
10
11
             C++;
12
            //printf("*");
13
             C++;
14
             c++;//lin
15
             break;
16
17
           c++;//lout
18
          C++;
19
20
      c++;//return st
21
22
      return c;
23
24 ▼
    int main(){
25
        int n;
        scanf("%d",&n);
26
        printf("%d",f(n));
27
28
```

	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 ►