



CS23331-DAA-2024-CSE / Problem 2: Finding Complexity using Counter method



Problem 2: Finding Complexity using Counter method

Started on	Sunday, 24 August 2025, 7:42 PM
State	Finished
Completed on	Sunday, 24 August 2025, 8:02 PM
Time taken	19 mins 28 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

Question 1 | Correct Mark 1.00 out of 1.00 [Flag question](#)

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++)
        {
            printf("*");
            printf("*");
            break;
        }
    }
}
```

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
```

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2 int count=0;
3 void func(int n){
4     if(n==1){
5         count++;
6     }
7     else{
8         count++;
9         for(int i=1;i<=n;i++){
10             count++;
11             count++;
12             for(int j=1;j<=n;j++){
13                 count++;
14                 count++;
15                 break;
16             }
17         }
18     }
19 }
```

```

18         count++;
19     }
20     count++;
21 }
22 printf("%d",count);
23 }
24 int main(){
25     int n;
26     scanf("%d",&n);
27     func(n);
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.

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