

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

Started on	Tuesday, 13 August 2024, 2:09 PM
State	Finished
Completed on	Tuesday, 13 August 2024, 2:38 PM
Time taken	28 mins 34 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++)
            {
                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 main(){
3     int n,a=0;
4     scanf("%d",&n);
5     if(n==1){
6         a++;
7         //printf("*");
8     }
9     else{
10        a++;
11        for(int i=1;i<=n;i++,a++){
12            a++;
13            a++;
14            for(int j=1;j<=n;j++,a++){
15                a++;
16                //printf("*");
17                //printf("*");
18                break;
19                a++;
20            }
21            a++;
22        }
23        a++;
24    }
25    printf("%d",a);
26 }
```

	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 ▶](#)