

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

<b>Started on</b>	Tuesday, 20 August 2024, 1:57 PM
<b>State</b>	Finished
<b>Completed on</b>	Tuesday, 20 August 2024, 2:11 PM
<b>Time taken</b>	14 mins 23 secs
<b>Marks</b>	1.00/1.00
<b>Grade</b>	<b>10.00</b> out of 10.00 ( <b>100%</b> )

## 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  void func(int n)
3  {int count=0;
4      if(n==1)
5      {
6          //printf("*");
7          count++;
8      }
9      else
10     {count++;
11         for(int i=1; i<=n; i++)
12         { count++;
13             for(int j=1; j<=n; j++)
14             { count++;
15                 //printf("*");
16                 //printf("*");
17                 count++;
18                 count++;
19                 break;
20             }count++;
21         }count++;
22     }printf("%d",count);
23 }
24 int main()
25 {
26     int n;
27     scanf("%d",&n);
28     func(n);
29 }
```

	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 ▶](#)