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<b>Started on</b>	Friday, 9 August 2024, 2:48 PM
<b>State</b>	Finished
<b>Completed on</b>	Friday, 9 August 2024, 2:48 PM
<b>Time taken</b>	45 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  {
4      int c=0;
5      c++;
6      if(n==1)
7
8      {
9          c++;
10         c++;
11     }
12     else
13     {
14         for(int i=1; i<=n; i++)
15         {
16             c++;
17             for(int j=1; j<=n; j++)
18             {
19                 c++;
20                 c++;
21                 c++;
22                 break;
23             }
24             c++;
25         }
26         c++;
27     }
28     c++;
29
30 }
31
32 printf("%d",c);
```

```
33 |
34 | }
35 | int main(){
36 |     int n;
37 |     scanf("%d",&n);
38 |     func(n);
39 |
40 | }
```

	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

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Problem 3: Finding Complexity using Counter Method ▶