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Started on	Tuesday, 20 August 2024, 1:59 PM
State	Finished
Completed on	Tuesday, 20 August 2024, 2:00 PM
Time taken	1 min 13 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
3 int main()
4
5 {
6
7     int count=0;
8
9     int n;
10
11     scanf("%d",&n);
12
13     if(n==1)
14     { count++;
15
16         printf("*");
17     }
18
19     else
20
21     { count++;
22
23         for(int i=1; i<=n; i++)
24
25         { count++;
26
27             for(int j=1; j<=n; j++)
28
29             {
30
31                 count++;
32
33                 count++;
34
35                 count++;
36
37                 break;
38
39             }
40         }
41     }
```

```
40  
41     } count++;  
42  
43     } count++;  
44  
45 }  
46  
47 printf("%d",count);  
48  
49 }
```

	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 ▶