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Started on	Tuesday, 20 August 2024, 1:39 PM
State	Finished
Completed on	Tuesday, 20 August 2024, 2:04 PM
Time taken	24 mins 33 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  void func(int n)
3  {
4      int count=0;
5      if(n==1)
6      {
7          //printf("*");
8          count++;
9      }
10     else
11     {
12         count++;
13         for(int i=1; i<=n; i++)
14         {
15             count++;
16             for(int j=1; j<=n; j++)
17             {
18                 count++;
19                 //printf("*");
20                 //printf("*");
21                 count++;
22                 count++;
23                 break;
24             }
25             count++;
26         }
27         count++;
28     }
29 }
30 printf("%d",count);
31 }
32 int main(){
```

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

	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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