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

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

	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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