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

	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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