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Started on	Tuesday, 13 August 2024, 2:24 PM
State	Finished
Completed on	Tuesday, 13 August 2024, 2:31 PM
Time taken	7 mins 44 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 c=0;
5      if(n==1)
6      {
7          c++;
8          //printf("*");
9          c++;
10     }
11     else
12     {
13         c++;
14         for(int i=1; i<=n; i++)
15         { c++;
16             for(int j=1; j<=n; j++)
17             { c++;
18                 //printf("*");
19                 c++;
20                 //printf("*");
21                 c++;
22                 break; c++;
23             }
24             c++;
25         }
26         c++;
27     }
28     printf("%d",c);
29 }
30 int main()
31 {
32     int n;
```

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