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Started on	Saturday, 14 September 2024, 9:09 AM
State	Finished
Completed on	Saturday, 14 September 2024, 9:14 AM
Time taken	4 mins 21 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  void func(int n)
4  {
5      int c=0;
6      if(n==1){
7          printf("*");
8          c++;
9      }
10     else{
11         c++;
12         for(int i=1; i<=n; i++)
13         {
14             c++;
15             for(int j=1; j<=n; j++)
16             {
17                 c++;
18                 c+=2;
19                 //printf("*");
20                 //printf("*");
21                 break;
22             }
23             c++;
24         }
25         c++;
26     }
27     printf("%d",c);
28 }
29
30 int main(){
31     int n;
32     scanf("%d",&n);
33     func(n);
34 }
```

	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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