

CHANDRU G S 2024-CSE ▾**C2****Started on** Sunday, 31 August 2025, 9:55 AM**State** Finished**Completed on** Sunday, 31 August 2025, 10:17 AM**Time taken** 21 mins 52 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);
3 int main(){
4     int n;
5     scanf("%d",&n);
6     func(n);
7 }
8
9
10
11 void func(int n)
12 {
13     int c=0;
14     c++;
15     if(n==1)
16     {
17         //printf("*");
18         c++;
19     }
20     else
21     {
22         for(int i=1; i<=n; i++)
23         {
24             for(int j=1; j<=n; j++)
25             {
26                 c+=1;
27                 //printf("*");
28                 //printf("*");
29             }
30         }
31     }
32 }
```

```
29     break;
30 }c+=2;
31 }c++;
32 }
33 printf("%d",c);
34 }
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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