

Started on Thursday, 31 July 2025, 8:30 AM

State Finished

Completed on Thursday, 31 July 2025, 8:48 AM

Time taken 17 mins 54 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 %)[Reset answer](#)

```
1 #include<stdio.h>
2 void func(int);
3 int main()
4 {
5     int n;
6     scanf("%d",&n);
7     func(n);
8 }
9 void func(int n)
10 {
11     int count=0;
12     //count++;
13     if(n==1)
14     {
15         count++;
16         printf("*");
17         count++;
18     }
19     else
20     {
21         count++;
22         for(int i=1;i<=n;i++)
23         {
24             count++;
25             for(int j=1;j<=n;j++)
26             {
27                 count++;
28                 // printf("*");
29                 count++;
30                 //printf("*");
31                 count++;
32                 break;
33             }
34         }
35     }
36 }
```

```
36 }  
37     count++;  
38 }  
39 printf("%d",count);  
40 }
```

	Input	Expected	Got	
✓	2	12	12	✓
✓	1000	5002	5002	✓
✓	143	717	717	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.