

Started on Thursday, 31 July 2025, 8:58 AM

State Finished

Completed on Thursday, 31 July 2025, 9:09 AM

Time taken 11 mins 9 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 n)
3 {
4     int count=0;
5     if(n==1)
6     {
7         count++;
8         count++;
9         printf("*");
10    }
11    else
12    {
13        count++;
14        for(int i=1;i<=n;i++)
15        {
16            count++;
17            for(int j=1;j<=n;j++)
18            {
19                count++;
20                count++;
21                //printf("*");
22                count++;
23                //printf("*");
24                break;
25                count++;
```

```
26         }
27         count++;
28     }
29 }
30 count++;
31 printf("%d",count);
32 }
33 int main()
34 {
35     int n;
36     scanf("%d",&n);
37     func(n);
38 }
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.