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**Started on** Monday, 4 August 2025, 3:50 PM

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**State** Finished

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**Completed on** Monday, 4 August 2025, 4:08 PM

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**Time taken** 18 mins 49 secs

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**Marks** 1.00/1.00

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

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.