

KARTHIK J 2024-IT ▾**K2****Started on** Wednesday, 30 July 2025, 2:00 PM**State** Finished**Completed on** Wednesday, 30 July 2025, 2:17 PM**Time taken** 17 mins 37 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 n)
3 {
4     int c=0;
5     if(n==1)
6     {
7         c++;
8     }
9     else
10    {
11        for(int i=1; i<=n; i++)
12        {
13            c++;
14            for(int j=1; j<=n; j++)
15            {
16                c++;
17                c++;
18                c++;
19                c++;
20                break;
21            }
22            c++;
23        }
24        printf("%d",c+1);
25    }
26    int main()
27    {
28        int n:
```

```
29     ...  
30     scanf("%d",&n);  
31 }
```

	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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