



THIVYASRI T 2024-CSE

T2

Started on Monday, 18 August 2025, 7:47 AM**State** Finished**Completed on** Monday, 18 August 2025, 8:13 AM**Time taken** 26 mins 18 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     int count = 0;
4     if(n == 1){
5         count++;
6         count++;
7     }
8     else{
9         count++;
10        for(int i = 1 ; i <= n ; i++){
11            count++;
12            for(int j = 1 ; j <= n ; j++){
13                count++;
14                count++;
15                count++;
16                count++;
17                break;
18            }
19            count++;
20        }
21        count++;
22    }
23    printf("%d",count);
24 }
25 int main(){
26     int n;
27     scanf("%d",&n);
28     func(n);
29 }
30 }
```

	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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