



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 |
3 | void func(int n){
4 |     int count = 0;
5 |     if(n == 1){
6 |         count ++;
7 |         count ++;
8 |     }
9 |     else{
10 |         count ++;
11 |         for(int i = 1 ; i <= n ; i++){
12 |             count ++;
13 |             for(int j = 1 ; j <= n ; j++){
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.

[Back to Course](#)