



RAKSHITA N 2024-IT ▾

R2

Started on	Tuesday, 18 November 2025, 10:39 AM
State	Finished
Completed on	Tuesday, 18 November 2025, 3:20 PM
Time taken	4 hours 40 mins
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  int main() {
4      int n;
5      scanf("%d", &n);
6
7      long long counter = 0;
8
9      if (n == 1) {
10
11         counter += 1;
12     }
13     else {
14         counter += 2;
15         for (int i = 1; i <= n; i++) {
16             counter += 5;
17         }
18     }
19
20     printf("%lld", counter);
21     return 0;
22 }
23
24
```

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

	Input	Expected	Got	
✓	143	717	717	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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