

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 }
```

	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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