



## Problem 2: Finding Complexity using Counter method

Started on	Wednesday, 6 August 2025, 8:30 AM
State	Finished
Completed on	Wednesday, 6 August 2025, 8:40 AM
Time taken	9 mins 57 secs
Marks	1.00/1.00
Grade	<b>10.00</b> out of 10.00 ( <b>100%</b> )

### 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("*");
            }
        }
    }
}
```

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```

        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 counter = 0;
4     counter++;
5
6     if (n == 1) {
7         } else {
8             counter += (n + 1);
9             counter += n;
10            counter += n;
11            counter += n;
12            counter += n;
13        }
14
15     printf("%d\n", counter);
16 }
17
18 int main() {
19     int n;
20     scanf("%d", &n);
21     func(n);
22     return 0;
23 }
24
25
26

```

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

✓	143	717	717	✓
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Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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Data retention summary