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## Problem 2: Finding Complexity using Counter method

Started on	Tuesday, 30 September 2025, 9:47 PM
State	Finished
Completed on	Tuesday, 30 September 2025, 9:52 PM
Time taken	4 mins 49 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

**Question 1** | Correct | Mark 1.00 out of 1.00 | [Flag question](#)

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  int main(){
3      int n;
4      scanf("%d",&n);
5      int counter = 0;
6      counter++;
7      if(n!=1){
8          for(int i=1;i<=n;i++){
9              counter++;
10             counter++;
11             counter++;
12             counter++;
13             counter++;
14         }
15         counter++;
16     }
17     printf("%d",counter);
18     return 0;
19 }

```

	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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