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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

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.

Finish review

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Data retention summary