



Problem 2: Finding Complexity using Counter method

Started on	Thursday, 21 August 2025, 8:43 PM
State	Finished
Completed on	Thursday, 21 August 2025, 8:52 PM
Time taken	8 mins 59 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

~ . . .

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Output:

Print the value of the counter variable

Answer: (penalty regime: 0 %)

```
1 #include <stdio.h>
2
3 int main(void) {
4     long long n, cnt = 0;
5     if (scanf("%lld", &n) != 1) return 0;
6
7     cnt++;
8     if (n == 1) {
9         cnt++;
10    } else {
11        long long i, j;
12        for (i = 1; (cnt++, i <= n); i++) {
13            for (j = (cnt++, 1); (cnt++, j <= n); j++) {
14                cnt++;
15                cnt++;
16                break;
17            }
18        }
19    }
20
21    printf("%lld", cnt);
22    return 0;
23 }
24
```

	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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