

CS23331-DAA-2024-CSE / Problem 2: Finding Complexity using Counter method

Problem 2: Finding Complexity using Counter method

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Started on Monday, 18 August 2025, 12:56 AM
Completed on Monday, 18 August 2025, 1:03 AM
  Time taken 6 mins 54 secs
       Marks 1.00/1.00
       Grade 10.00 out of 10.00 (100%)
```

Question 1 | Correct Mark 1.00 out of 1.00 \mathbb{F} Flag question

```
Convert the following algorithm into a program and find its time complexity using the counter method.
   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 %)

```
#include<stdio.h>
             int counter=0;
if(n==1){
    counter++;
                  counter++;
return counter;
else{
| for(int i=1;i<=n;i++){
| ten++:
                       counter++;
for(int j=1;j<=i;j++){</pre>
                          counter++;
counter++;
              return counter;
             int n;
scanf("%d",&n);
printf("%d",func(n));
```

	Input	Expected	Got	
~	2	12	12	~
~	1000	5002	5002	~

