🔔⁷ **SWETHA VEERAMANI 2024-AIML** ⌄ **S2**

Started on	Tuesday, 26 August 2025, 1:37 PM
State	Finished
Completed on	Tuesday, 26 August 2025, 1:43 PM
Time taken	5 mins 56 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  void func(int n){
3      int counter=0;
4      if(n==1){
5          printf("*\n");
6      }else{
7          for(int i=1;i<=n;i++){
8              counter++;
9              for(int j=1;j<=n;j++){
10                 counter++;
11                 counter++;
12                 counter++;
13                 counter++;
14                 break;
15             }
16         }
17         counter++;
18         counter++;
19     }
20     printf("%d\n",counter);
21 }
22 int main(){
23     int n;
24     scanf("%d",&n);
25     func(n);
26     return 0;
27 }
```

	Input	Expected	Got	
✔	2	12	12	✔
✔	1000	5002	5002	✔
✔	143	717	717	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Back to Course