Started on	Tuesday, 13 August 2024, 2:48 PM
State	Finished
Completed on	Tuesday, 13 August 2024, 3:18 PM
Time taken	30 mins
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 %)

```
#include<stdio.h>
int main()
{
    int count=0;
    int n;
  scanf("%d",&n);
  if(n==1)
  {  count++;
   printf("*");
  }
  else
  { count++;
   for(int i=1; i<=n; i++)
   { count++;
    for(int j=1; j<=n; j++)
    {
        count++;
    count++;
    count++;
    break;
    } count++;
   } count++;
  }
  printf("%d",count);
 }
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

◄ Problem 1: Finding Complexity using Counter Method

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Problem 3: Finding Complexity using Counter Method ►