Started on	Friday, 9 August 2024, 2:25 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:34 PM
Time taken	8 mins 45 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 ▾ {
4      int c=0;
5      if(n==1)
6 ▾    {
7        //printf("*");
8        c++;
9      }
10     else
11 ▾   {
12
13      for(int i=1; i<=n; i++)
14 ▾    {
15          c++;
16        for(int j=1; j<=n; j++)
17 ▾      {
18          c++;
19          //printf("*");
20          c++;
21          //printf("*");
22          c++;
23          break;
24        }
25        c++;
26      }
27      c++;
28     }
29     c++;
30     printf("%d",c);
31  }
32  int main()
```

```
33 ▾   {
34         int n;
35         scanf("%d",&n);
36         func(n);
37     }
```

	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 ►