Started on	Monday, 4 August 2025, 3:48 PM
State	Finished
Completed on	Monday, 4 August 2025, 4:07 PM
Time taken	19 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 %)

Reset answer

```
 1  #include<stdio.h>
 2  void func(int n)
 3 ▾ {
 4      int c=0;
 5      c++;
 6      if(n==1)
 7 ▾    {
 8        //printf("*");
 9        c++;
10      }
11      else
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      printf("%d",c);
30    }
31 ▾ int main(){
32        int n;
33        scanf("%d",&n);
34        func(n);
35    }
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.