Started on	Monday, 4 August 2025, 3:42 PM
State	Finished
Completed on	Monday, 4 August 2025, 3:58 PM
Time taken	16 mins 16 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

```
#include<stdio.h>
int func(int n)
{
    int counter=0;
    counter++;
    if(n==1)
    {
        //printf("*");
        counter++;

    }
    else
    {
        for(int i=1;i<=n;i++)
        {
            counter++;
            for(int j=1;j<=n;j++)
            {
                counter++;
                //printf("*");
                counter++;
                //printf("*");
                counter++;
                break;
            }counter++;
```

```
        }counter++;
    }

    return counter;
}
int main()
{
    int n;
    scanf("%d",&n);
    int ans = func(n);
    printf("%d",ans);

}
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.