Started on	Monday, 11 August 2025, 3:33 PM
State	Finished
Completed on	Monday, 11 August 2025, 3:42 PM
Time taken	9 mins 32 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   //printf("*");
8   c++;
9   }
10  else
11 ▾{
12  for(int i=1;i<=n;i++)
13 ▾{
14  c++;
15  for(int j=1;j<=n;j++)
16 ▾{
17  c++;
18  //printf("*");
19  c++;
20  //printf("*");
21  c++;
22  break;
23  c++;
24  }
25  c++;
```

```
26  }
27  c++;
28  }
29  printf("%d",c);
30  }
31  int main()
32  {
33  int n;
34  scanf("%d",&n);
35  func(n);
36  }
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.