**RAJALAKSHMI
ENGINEERING
COLLEGE**

🔔 💬 **VARSHINI S 2024-CSE** ⌄   **V2**

Started on	Wednesday, 13 August 2025, 8:35 PM
State	Finished
Completed on	Wednesday, 13 August 2025, 9:17 PM
Time taken	42 mins 34 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      int count=0;
 4      if(n==1){
 5          count++;
 6      }
 7      else{
 8          for(int i=1;i<=n;i++){
 9              count++;
10              count++;
11              for(int j=1;j<=n;j++){
12                  count++;
13                  count++;
14                  break;
15              }
16              count++;
17          }
18          count++;
19      }
20      count++;
21      printf("%d",count);
22      return;
23  }
24  int main(){
25      int n;
26      scanf("%d",&n);
27      func(n);
28  }
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

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