**RAJALAKSHMI
ENGINEERING
COLLEGE**

🔔² **DEVISHREE J 2024-CSE** ˅   **D2**

Started on	Wednesday, 20 August 2025, 8:41 AM
State	Finished
Completed on	Wednesday, 20 August 2025, 9:02 AM
Time taken	21 mins 11 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  int main(){
3      int n,count=0;
4      scanf("%d",&n);
5      if(n==1){
6          count++;
7      }
8      else{
9          for(int i=1;i<=n;i++){
10             count++;
11             count++;
12             for(int j=1;j<=n;j++){
13                 count++;
14                 count++;
15                 break;
16             }
17             count++;
18         }count++;
19     }
20     count++;
21     printf("%d",count);
22     return 0;
23 }
```

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

	Input	Expected	Got	
✔	143	717	717	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

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