



Started on Friday, 1 August 2025, 2:26 PM

State Finished

Completed on Friday, 1 August 2025, 2:32 PM

Time taken 6 mins

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
3  int main(){
4      int c = 0;
5      int n;
6      scanf("%d", &n);
7      c++;
8      if(n == 1)
9      {
10         c++;
11         // printf("*");
12         c++;
13     }
14     else{
15         c++;
16         for(int i = 1; i<=n; i++){
17             c++;
18             for(int j = 1; j<=n ; j++){
19                 c++;
20                 // printf("*");
21                 c++;
22                 // printf("*");
23                 c++;
24                 break;
25                 c++;
26             }
27             c++;
28         }
```

```
29 | // c++;  
30 | }  
31 | printf("%d", c);  
32 | }
```

	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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