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[Vedhavyas Pavankalyan G L 2023-IT-A](#) ▾**V2****Started on** Saturday, 18 October 2025, 8:29 PM**State** Finished**Completed on** Sunday, 19 October 2025, 10:22 AM**Time taken** 13 hours 53 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 n, count = 0;
5
6      scanf("%d", &n);
7      count++;
8
9      if (n == 1) {
10         count++;
11     } else {
12         for (int i = 1; i <= n; i++) {
13             count++;
14             for (int j = 1; j <= n; j++) {
15                 count++;
16                 count++;
17                 count++;
18                 break;
19             }
20             count++;
21         }
22         count++;
23     }
24
25     printf("%d", count);
26     return 0;
27 }
```

	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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