



KARTHIK J 2024-IT ▾

**K2**

Started on	Wednesday, 30 July 2025, 2:00 PM
State	Finished
Completed on	Wednesday, 30 July 2025, 2:17 PM
Time taken	17 mins 37 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  {
4      int c=0;
5      if(n==1)
6      {
7          c++;
8      }
9      else
10     {
11         for(int i=1; i<=n; i++)
12         { c++;
13             for(int j=1; j<=n; j++)
14             {
15                 c++;
16                 c++;
17                 c++;
18                 c++;
19                 break;
20             }
21         }
22         c++;
23     }
24     printf("%d",c+1);
25 }
26 int main()
27 {
28     int n;
```

```
29 | scanf("%d",&n);  
30 | func(n);  
31 | }
```

	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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