

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          //printf("*");
9      }
10     else c++;
11     {
12         for(int i=1; i<=n; i++)
13         {
14             c++;
15             for(int j=1; j<=n; j++)
16             {
17                 c++;
18                 // printf("*");
19                 c++;
20                 // printf("*");
21                 c++;
22                 break;
23                 c++;
24             }c++;
25         }c++;
26     }
27     printf("%d",c);
28 }
29 int main(){
30     int n;
31     scanf("%d",&n);
32     func(n);
33 }
```

	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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