Dashbo... / My cour... / CS23331-DAA-2023-... / Finding Time Complexity of Algorit... / Problem 2: Finding Complexity using Counter me...

Started on	Friday, 9 August 2024, 2:09 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:12 PM
Time taken	3 mins 23 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++)</pre>
          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 %)

```
#include<stdio.h>
 2
    void func(int n)
 3 ▼ {
 4
         int count =0;
 5
         if(n==1)
 6
 7
           count++;
           //printf("*");
 8
 9
10
         }
11
         else
12 •
         {
13
             count++;
          for(int i=1; i<=n; i++)</pre>
14
15
16
               count++;
            for(int j=1; j<=n; j++)</pre>
17
18
19
                count++;
20
               //printf("*");
21
               count++;
               //printf("*");
22
23
               count++;
               break;
24
25
26
            count++;
27
28
         count++;
29
30
       printf("%d",count);
31
32
    int main()
33 •
34
         int n;
         scanf("%d",&n);
35
36
         func(n);
37
38
         }
```

	Input	Expected	Got	
~	2	12	12	~
~	1000	5002	5002	~
~	143	717	717	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

■ Problem 1: Finding Complexity using Counter Method

Jump to...

Problem 3: Finding Complexity using Counter Method ►