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

Started on	Friday, 9 August 2024, 2:27 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:57 PM
Time taken	30 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++)</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 c=0;
 5
         if(n==1)
 6
 7
             c++;
             printf("*");
 8
 9
             c++;
10
         }
11
         else
12 -
         {
13
             for(int i=1; i<=n; i++)</pre>
14
15
16
                  for(int j=1; j<=n; j++)</pre>
17
18
                      C++;
                      //printf("*");
19
20
                      c++;
                      //printf("*");
21
22
                      C++;
23
                      break;
24
                  }
25
                  C++;
26
             }
27
             c++;
28
         }
         printf("%d",++c);
29
30
     }
31 ▼
    int main(){
32
         int n;
         scanf("%d",&n);
33
34
         func(n);
35
    }
36
37
```

	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

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Problem 3: Finding Complexity using Counter Method ►