<u>Dashboard</u> / <u>My courses</u> / <u>CS23331-DAA-2023-CSE</u> / <u>Finding Time Complexity of Algorithms</u> / <u>Problem 2: Finding Complexity using Counter method</u>

Started on	Friday, 9 August 2024, 1:42 PM
State	Finished
Completed on	Friday, 9 August 2024, 1:59 PM
Time taken	16 mins 41 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100 %)

Question **1**

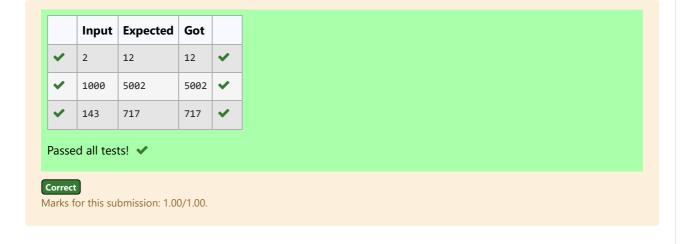
Correct

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.
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 ▼ {
          int c=0;
         if(n==1)
10
           for(int i=1; i<=n; i++)</pre>
14 <sub>v</sub>
15
16
             for(int j=1; j<=n; j++)</pre>
17 🔻
18
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23
                break;
24
             C++;
28
29
30
        printf("%d",c);
      int main(){
         int n;
scanf("%d",&n);
34
          func(n);
```



→ Problem 1: Finding Complexity using Counter Method

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Problem 3: Finding Complexity using Counter Method ►