CS23331-DAA-2024-CSE / Problem 2: Finding Complexity using Counter method

☑ Problem 2: Finding Complexity using Counter method

Started on	Tuesday, 30 September 2025, 12:27 PM
State	Finished
Completed on	Tuesday, 30 September 2025, 12:32 PM
Time taken	5 mins 1 sec
Marks	1.00/1.00
Grade	**10.00** out of 10.00 (**100**%)

Question 1 Correct Mark 1.00 out of 1.00 ⚑ Flag question
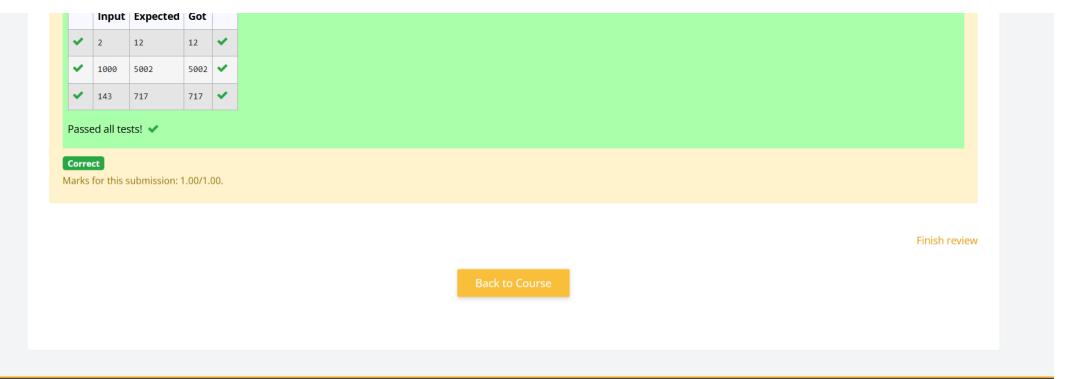
```
Convert the following algorithm into a program and find its time complexity using the counter method.
void func(int n)
{
    if(n==1)
    {
      printf("*");
    }
    else
    {
     for(int i=1; i<=n; i++)
     {
       for(int j=1; j<=n; j++)
       {
```

```
            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 %)

```c
1  #include <stdio.h>
2
3  int main() {
4      int count = 0;
5      int n;
6      count++;
7      scanf("%d", &n);
8
9      if (n == 1) {
10          count++;
11      } else {
12          for (int i = 1; i <= n; i++) {
13              count++;
14              for (int j = 1; j <= n; j++) {
15                  count++;
16                  count++;
17                  count++;
18                  count++;
19                  break;
20              }
21          }
22      }
23      count++;
24      printf("%d", count);
25
26      return 0;
27  }
28
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Finish review

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