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

Problem 2: Finding Complexity using Counter method

Started on	Sunday, 17 August 2025, 7:50 PM
State	Finished
Completed on	Sunday, 17 August 2025, 8:05 PM
Time taken	14 mins 40 secs
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 %)

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

	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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Data retention summary