Problem 2: Finding Complexity using Counter method

Started on	Thursday, 28 August 2025, 12:40 PM
State	Finished
Completed on	Thursday, 28 August 2025, 1:02 PM
Time taken	21 mins 39 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 %)

```c
#include<stdio.h>
void pattern(int n){
    int count=0;
    if(n==1){
        count++;
    }
    else{
        count++;
            for(int j=1;j<=n;j++){
                count++;
                count++;
                count++;
                count++;
                count++;
            }
            count++;
        }
        printf("%d\n",count);
    }
int main(){
```

```
    int n;
    scanf("%d",&n);
    pattern(n);
    return 0;
}
```

	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

Back to Course