RAJALAKSHMI ENGINEERING COLLEGE

4 Vedhavyas Pavankalyan G L 2023-IT-A V2

Started on	Saturday, 18 October 2025, 8:29 PM
State	Finished
Completed on	Sunday, 19 October 2025, 10:22 AM
Time taken	13 hours 53 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++)
       {
          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>

int main() {
    int n, count = 0;

    scanf("%d", &n);
    count++;

    if (n == 1) {
        count++;
    } else {
        for (int i = 1; i <= n; i++) {
            count++;
            for (int j = 1; j <= n; j++) {
                count++;
                count++;
                count++;
                break;
            }
            count++;
        }
        count++;
    }

    printf("%d", count);
    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.

Back to Course