CS23331-Design and Analysis of Algorithms-2023 Batch-CS

Quiz navigation

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Finish review

Status	Finished
Started	Sunday, 23 February 2025, 4:05 PM
Completed	Sunday, 23 February 2025, 4:07 PM
Duration	2 mins 24 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 %)

```
#include<stdio.h>
void func(int n)
{
    int count=0;
    if(n==1)
    {
        count++;
      //printf("*");
      count++;
    }
    else

    {
        count++;
     for(int i=1; i<=n; i++)

     {
         count++;
       for(int j=1; j<=n; j++)

       {
           count++;
          //printf("*");
          count++;
          //printf("*");
          count++;
        break;
        count++ ;
       }
       count++;
     }
     count++;
   }

   printf("\n%d",count);
}
   int main(){
       int n;
       scanf("%d",&n);
       func(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.

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◄ Problem 1: Finding Complexity using Counter Method

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Problem 3: Finding Complexity using Counter Method ►