Dashbo... / My cour... / CS23331-DAA-2023-... / Finding Time Complexity of Algorit... / Problem 4: Finding Complexity using Counter Me...

Started on	Thursday, 29 August 2024, 10:21 AM
State	Finished
Completed on	Thursday, 29 August 2024, 10:21 AM
Time taken	11 secs
Marks	1.00/1.00
Grade	<b>10.00</b> out of 10.00 ( <b>100</b> %)

```
Question 1
Correct
Mark 1.00 out of 1.00
```

```
Convert the following algorithm into a program and find its time
```

## **Answer:**

```
1 #include <stdio.h>
 2 v int main(){
 3
         int n;
         scanf("%d",&n);
 4
 5
         int c= 0, cnt=0;
         cnt++;
 6
 7
         for(int i=n/2; i<n; i++,cnt++){</pre>
 8
             cnt++:
 9
             for(int j=1; j<n; j = 2 * j,cnt++){</pre>
10
             cnt++;
11
                 for(int k=1; k<n; k = k * 2,cnt++){</pre>
12
                     c++;cnt++;
13
14
             }
15
         }
16
         cnt++;
         printf("%d",cnt);
17
         return 0;
18
19
20
```

	Input	Expected	Got	
~	4	30	30	~
~	10	212	212	~

## Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

## → Problem 3: Finding Complexity using Counter Method

Jump to...

Problem 5: Finding Complexity using counter method ►