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

Started on	Monday, 19 August 2024, 10:12 AM
State	Finished
Completed on	Monday, 19 August 2024, 10:19 AM
Time taken	6 mins 51 secs
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

Answer:

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

	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 ►