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

Started on	Friday, 9 August 2024, 2:49 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:49 PM
Time taken	17 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:

```
#include<stdio.h>
 2
    int main()
 3 ▼ {
 4
        int n;
        scanf("%d",&n);
 5
 6
        int count=0;
 7
        int c= 0;
 8
        count++;
 9
10
        for(int i=n/2; i< n; i++)
         {count++;
11
             for(int j=1; j < n; j = 2 * j)
12
13 🔻
             {count++;
                 for(int k=1; k < n; k = k * 2)
14
15 •
                 {count++;
                     C++;
16
17
                     count++;
18
19
                 count++;
20
             }
21
             count++;
22
         }
23
        count++;
24
        printf("%d",count);
25
```

	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 ►