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

| Started on | Friday, 4 October 2024, 2:09 PM |
|--------------|---|
| State | Finished |
| Completed on | Friday, 4 October 2024, 2:10 PM |
| Time taken | 23 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 int main()
 3 ▼ {
 4
        int n;
 5
        scanf("%d",&n);
 6
        int count=0;
 7
        int c= 0;
 8
        count++;
10
        for(int i=n/2; i<n; i++)</pre>
11 .
         {count++;
             for(int j=1; j<n; j = 2 * j)
12
13
             {count++;
                 for(int k=1; k<n; k = k * 2)
14
15
                 {count++;
16
                     C++;
17
                     count++;
18
19
                 count++;
20
             }
21
             count++;
22
        }
        count++;
23
        printf("%d",count);
24
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 ►