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

Started on	Monday, 19 August 2024, 10:10 AM
State	Finished
Completed on	Monday, 19 August 2024, 10:16 AM
Time taken	6 mins 30 secs
Marks	1.00/1.00
C . I	40.00 - 1 - 540.00 (4000)

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