## Dashb... / My cou... / CS23331-DAA-202... / Finding Time Complexity of Al... / Problem 4: Finding Complexity using Count...

Started on	Monday, 26 August 2024, 6:56 PM
State	Finished
Completed on	Monday, 26 August 2024, 7:06 PM
Time taken	9 mins 58 secs
Marks	1.00/1.00
Cuada	10.00 out of 10.00 (100%)

**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>
 1
 2
    void function(int n)
 3 ▼ {
 4
         int count=0;
 5
         int c= 0;
 6
         count++;
         for(int i=n/2; i<n; i++){</pre>
 7 ▼
             count++;
 8
 9 •
             for(int j=1; j<n; j = 2 * j){</pre>
10
                  count++;
                  for(int k=1; k < n; k = k * 2){
11 •
12
                       count++;
13
                       c++;
14
                       count++;
15
                  }
                  count++;
16
17
             }
18
             count++;
19
         }
         count++;
printf("%d",count);
20
21
22
23
    int main()
24
25 ₹ {
         int n;
scanf("%d",&n);
26
27
         function(n);
28
29 }
```

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

Passed all tests! ✓



Marks for this submission: 1.00/1.00.

■ Problem 3: Finding Complexity using Counter Method

Jump to...

Problem 5: Finding Complexity using counter method ►