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

Started on	Tuesday, 13 August 2024, 2:54 PM
State	Finished
Completed on	Friday, 16 August 2024, 11:42 AM
Time taken	2 days 20 hours
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 void function(int n)
 3 ▼ {
 4
        int c= 0;
 5 ▼
        for(int i=n/2; i<n; i++){</pre>
 6
             c++;
 7 ,
             for(int j=1; j<n; j = 2 * j){</pre>
 8
                 for(int k=1; k< n; k = k * 2){
 9
10
                     C++;C++;
11
                 }c++;
12
             }c++;
13
        }c++;
14
         C++;
        printf("%d",c);
15
16
17
    }
18 🔻
    int main(){
19
         int n;
         scanf("%d",&n);
20
21
        function(n);
22
   }
```

	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

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Problem 5: Finding Complexity using counter method ►