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

Started on	Tuesday, 20 August 2024, 2:38 PM
State	Finished
Completed on	Tuesday, 20 August 2024, 2:43 PM
Time taken	5 mins 22 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
   void function(int n)
 3 ▼ {
 4
        int c= 0;
 5
        C++;
 6
        for(int i=n/2; i<n; i++){</pre>
 7
            C++;
 8
            for(int j=1; j<n; j = 2 * j){
 9
                 C++;
                 for(int k=1; k< n; k = k * 2){
10
11
                     c++;
12
                     C++;
13
                 }
14
                 C++;
            }
15
16
            C++;
17
        }
18
        C++;
        printf("%d",c);
19
   }
20
21 v int main(){
22
        int n;
23
        scanf("%d",&n);
24
        function(n);
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 ►