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

Started on	Tuesday, 20 August 2024, 1:37 PM
State	Finished
Completed on	Tuesday, 20 August 2024, 1:57 PM
Time taken	20 mins 2 secs
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>
   void function(int n)
 2
 3 ▼ {
         int c= 0;
 4
 5
         int count=0;
 6
         count++;
 7
         int i,j,k;
         for(i=n/2; i<n; i++){</pre>
 8
 9
             count=count+1;
             for(j=1; j<n; j = 2 * j){</pre>
10
11
                  count=count+1;
                  for(k=1; k < n; k = k * 2){
12
13
                      count=count+1;
14
                      c++;
15
                      count++;
                 }
16
17
                 count++;
18
             }
19
             count++;
20
21
         count++;
22
         printf("%d",count);
23
24 v int main(){
        int n;
scanf("%d",&n);
25
26
27
         function(n);
28 }
```

	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 ►