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

Started on	Friday, 9 August 2024, 2:16 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:19 PM
Time taken	3 mins 2 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>
 void function(int n)
 3 ▼ {
         int c= 0;
 4
 5
         int count =0;
 6
         count++;
 7
         for(int i=n/2; i<n; i++)</pre>
 8
 9
             count++;
10
             for(int j=1; j<n; j = 2 * j)</pre>
11
12
                 count++;
13
                 for(int k=1; k<n; k = k * 2)</pre>
14
15
                      count++;
16
                      C++;
17
                      count++;
18
                  }
19
                 count++;
20
             }
21
             count++;
22
         }
23
         count++;
         printf("%d",count);
24
25
26
    int main()
27 ▼ {
28
         int n;
         scanf("%d",&n);
29
30
         function(n);
31
32 }
```

	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 ►