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

Started on	Tuesday, 20 August 2024, 2:46 PM
State	Finished
Completed on	Tuesday, 20 August 2024, 2:54 PM
Time taken	8 mins
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 ▼ {int count=0;
 4
        int c= 0;
 5
         count++;
 6
         for(int i=n/2; i<n; i++)</pre>
 7
            count++;
 8
             for(int j=1; j<n; j = 2 * j)</pre>
 9
                 count++;
                 for(int k=1; k<n; k = k * 2)</pre>
10
                     count++;
11 1
12
                      C++;
13
                      count++;
14
                  }count++;
15
             }count++;
         }count++;
16
17
         printf("%d",count);
18
19
   int main()
20 ▼ {
21
         int n;
         scanf("%d",&n);
22
23
         function(n);
24
```

	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 ►