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

Started on	Friday, 9 August 2024, 2:43 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:45 PM
Time taken	1 min 42 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 a= 0;
 4
 5
         int c=1;
         for(int i=n/2; i<n; i++){</pre>
 6
 7
             c++;
             for(int j=1; j<n; j = 2 * j){
 8 •
 9
                 C++;
                  for(int k=1; k<n; k = k * 2){</pre>
10
11
                      c++;
12
                      a++;
13
                      c++;
                  }
14
15
                  C++;
             }
16
17
             C++;
18
         }
         printf("%d",++c);
19
20
21 v int main(){
         int n;
scanf("%d",&n);
22
23
         function(n);
24
25
26
27
```

	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 ►