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

Started on	Tuesday, 13 August 2024, 2:55 PM
State	Finished
Completed on	Tuesday, 13 August 2024, 2:58 PM
Time taken	2 mins 36 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;c++;
 5 ▼
        for(int i=n/2; i<n; i++){c++;</pre>
 6 •
             for(int j=1; j<n; j = 2 * j){c++;
 7
                 for(int k=1; k<n; k = k * 2){c++;
 8
                     c++; }
 9
                     c++;}
10
                      c++;}
11
                      C++;
12
                      printf("%d",c);
13
14
   int main()
15
16 ▼ {
        int n;
17
        scanf("%d",&n);
18
19
        function(n);
20
   }
```

	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 ►