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

Started on	Tuesday, 13 August 2024, 2:52 PM
State	Finished
Completed on	Tuesday, 13 August 2024, 2:58 PM
Time taken	5 mins 56 secs
Marks	1.00/1.00
Grade	<b>10.00</b> out of 10.00 ( <b>100</b> %)

118.185.187.137/moodle/mod/quiz/review.php?attempt=126134&cmid=1264

```
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; c++;
 4
 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++;}
        C++;
11
12
        printf("%d",c);
13
14
   int main()
15 ▼
16
        int n;
17
        scanf("%d",&n);
18
        function(n);
19
```

	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

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Problem 5: Finding Complexity using counter method ►