<u>Dashboard</u> / <u>My courses</u> / <u>CS23331-DAA-2023-CSE</u> / <u>Finding Time Complexity of Algorithms</u> / <u>Problem 4: Finding Complexity using Counter Method</u>

Started on	Friday, 9 August 2024, 2:18 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:26 PM
Time taken	7 mins 55 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
            for(int j=1; j<n; j = 2 * j)
10 🔻
11
                C++;
12
                for(int k=1; k < n; k = k * 2)
13 🔻
14
                    C++;
                    C++;
16
17
18
19
            C++;
20
21
        printf("%d",c);
22
23 }
24 v int main(){
        scanf("%d",&n);
        function(n);
28 }
```

	Input	Expected	Got	
~	4	30	30	~
~	10	212	212	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.