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

Started on	Friday, 9 August 2024, 2:34 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:37 PM
Time taken	2 mins 52 secs
Marks	1.00/1.00
Grade	<b>10.00</b> out of 10.00 ( <b>100</b> %)

```
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 count=0;
 5
         int c = 0;
         count++;
 6
 7
         for(int i=n/2; i<n; i++)</pre>
 8
 9
             count++;
             for(int j=1; j < n; j = 2 * j)
10
11 •
12
                 count++;
13
                 for(int k=1; k < n; k = k * 2)
14 🔻
15
                      count++;
16
                      C++;
17
                      count++;
18
19
                  count++;
20
21
             count++;
22
23
         count++;
         printf("%d",count);
24
25
26
   int main()
27 ▼ {
28
         int n;
         scanf("%d",&n);
29
30
         function(n);
31
```

	Input	Expected	Got	
~	4	30	30	~

	Input	Expected	Got	
~	10	212	212	~

Passed all tests! 🗸



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 ►