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

Started on	Friday, 9 August 2024, 2:19 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:26 PM
Time taken	6 mins 32 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
 6
         for(int i=n/2; i<n; i++)</pre>
 7
 8
 9
              for(int j=1; j<n; j = 2 * j)</pre>
10
11
                  C++;
                  for(int k=1; k<n; k = k * 2)</pre>
12
13
                  {
14
                       c++;
15
                       c++;
16
                  }
17
                  c++;
              }
18
19
              C++;
20
         }
21
         C++;
22
         printf("%d",c);
23
    }
24
   int main()
25 ▼ {
26
         int n;
scanf("%d",&n);
27
28
         function(n);
29
```

	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 ►