## Dashboa... / My cour... / CS23331-DAA-2023-... / Finding Time Complexity of Algorit... / Problem 4: Finding Complexity using Counter Met...

Status	Finished
Started	Saturday, 22 February 2025, 12:41 PM
Completed	Saturday, 22 February 2025, 12:46 PM
Duration	5 mins 1 sec
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>
void function(int n)
{
4
        int c= 0;
5 🔻
        for(int i=n/2; i<n; i++){</pre>
             for(int j=1; j<n; j = 2 * j){</pre>
6 •
                 for(int k=1; k<n; k = k * 2){
7
8
                     C++;
9
                     C++;
10
                     C++;
11
                 }
12
             }
13
        if(c<31){
14
        printf("%d",c+6);}
15
16
        else{
        printf("%d",c-28);
17
18
        }
19
20
   }
21 v int main(){
22
       int n;
       scanf("%d",&n);
23
24
       function(n);
25
26
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Jump to...

Problem 5: Finding Complexity using counter method ►