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

Started on	Tuesday, 20 August 2024, 1:47 PM
State	Finished
Completed on	Tuesday, 20 August 2024, 1:58 PM
Time taken	11 mins 9 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 v int function(int n){
 3
         int count=0;
 4
         int a=0;
 5
         count++;
         for(int i=n/2;i<n;i++){</pre>
 6
7
              count++;
              for(int j=1;j<n;j=2*j){</pre>
8 •
 9
                  count++;
10
                   for(int k=1;k<n;k=k*2){</pre>
11
                       count++;
12
                       a++;
13
                       count++;
14
                   }
15
                   count++;
              }
16
17
              count++;
18
         }
19
         count++;
20
         return count;
21
22 v int main(){
23
         int b;
         scanf("%d",&b);
printf("%d",function(b));
24
25
26
```

	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 ►