Dashb... / My cou... / CS23331-DAA-202... / Finding Time Complexity of Al... / Problem 5: Finding Complexity using count...

Started on	Monday, 26 August 2024, 7:06 PM
State	Finished
Completed on	Monday, 26 August 2024, 7:13 PM
Time taken	6 mins 40 secs
Marks	1.00/1.00
Grada	10.00 out of 10.00 (100%)

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 complexity using counter method.

void reverse(int n)
{
   int rev = 0, remainder;
   while (n != 0)
   {
      remainder = n % 10;
      rev = rev * 10 + remainder;
      n/= 10;
   }

print(rev);
}

Note: No need of counter increment for declarations and scanf() and count variable printf() statements.

Input:
   A positive Integer n
Output:
Print the value of the counter variable
```

Answer:

```
#include<stdio.h>
 2
    void reverse(int n)
3 ₹ {
 4
        int c=0;
       int rev = 0, remainder;
 5
 6
       C++;
 7
       C++:
       while (n != 0)
 8
9 •
        {
10
            C++;
            remainder = n % 10;
11
12
            C++;
13
            rev = rev * 10 + remainder;
14
            C++;
15
            n/=10;
16
            C++;
17
        }
        c++;
18
        printf("%d",c);
19
20
21
   int main()
22
23 ▼ {
        int n;
scanf("%d",&n);
24
25
26
        reverse(n);
27 }
```

	Input	Expected	Got	
~	12	11	11	~
~	1234	19	19	~

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

■ Problem 4: Finding Complexity using Counter Method

Jump to...

1-G-Coin Problem ►