<u>Dashboard</u> / <u>My courses</u> / <u>CS23331-DAA-2023-CSE</u> / <u>Finding Time Complexity of Algorithms</u> / <u>Problem 5: Finding Complexity using counter method</u>

```
Started on Friday, 9 August 2024, 2:36 PM

State Finished

Completed on Friday, 9 August 2024, 2:40 PM

Time taken 4 mins

Marks 1.00/1.00

Grade 10.00 out of 10.00 (100%)
```

Question 1 Correct

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;
 5
       int rev = ∅, remainder;
 6
       C++;
       C++;
 8
       while (n != 0)
 9
            C++;
10
11
            remainder = n % 10;
            C++;
12
13
            rev = rev * 10 + remainder;
            C++;
14
            n/= 10;
15
```

```
16
              C++;
17
18
         C++;
printf("%d",c);
19
20
21
22
     int main()
23
24
         int n;
scanf("%d",&n);
25
         reverse(n);
26
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 ▶