Dashboa... / My cour... / CS23331-DAA-2023-... / Finding Time Complexity of Algorit... / Problem 5: Finding Complexity using counter me...

Started on	Tuesday, 3 September 2024, 1:57 PM
State	Finished
Completed on	Tuesday, 3 September 2024, 1:58 PM
Time taken	55 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 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>
 1
 2
   int reverse(int n)
 3 ▼ {
 4
    int c = 0;
 5
    int rev = 0, remainder;
 6
    c+=2;
 7
    while (n != 0)
 8 🔻
    { c++;
 9
      remainder = n % 10;
10
      C++;
     rev = rev * 10 + remainder;
11
12
      C++;
13
     n/= 10;
14
     c++;
15
    }
16
    C++;
17
    return c;
18
19 v int main(){
20
    int n;
    scanf("%d", &n);
21
    int tc = reverse(n);
22
    printf("%d", tc);
23
24 }
```

	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 ►