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## Problem 5: Finding Complexity using counter method

Started on	Saturday, 9 August 2025, 4:50 PM
State	Finished
Completed on	Saturday, 9 August 2025, 5:01 PM
Time taken	10 mins 27 secs
Marks	1.00/1.00
Grade	<b>10.00</b> 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:**

```
1 #include <stdio.h>
2 int reverse(int n)
3 {
4     int count = 0;
5     count++;
6     int rev = 0, remainder;
7     count++;
8     while (n != 0)
9     {
10         remainder = n % 10;
11         count++;
12         rev = rev * 10 + remainder;
13         count++;
14         n/= 10;
15         count++;
16         count++;
17
18     }
19     count++;
20     //printf(rev);
21
22
23
24     return count;
25 }
26 int main(){
27     int n;
28     scanf("%d", &n);
29     int c = reverse(n);
30     printf("%d",c);
31     return 0;
32 }
```

	Input	Expected	Got	
✓	12	11	11	✓
✓	1234	19	19	✓

Passed all testcases ✓

Passed all tests.

Correct

Marks for this submission: 1.00/1.00.

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