



## Problem 5: Finding Complexity using counter method

Started on	Thursday, 21 August 2025, 8:52 PM
State	Finished
Completed on	Thursday, 21 August 2025, 8:56 PM
Time taken	4 mins 11 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

**Question 1** | Correct Mark 1.00 out of 1.00 [Flag question](#)

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>
```

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```

2
3 int main(void) {
4     long long n, cnt = 0;
5     if (scanf("%lld", &n) != 1) return 0;
6
7     long long rev, remainder;
8     rev = 0; cnt++;
9
10    while ((cnt++, n != 0)) {
11        remainder = n % 10; cnt++;
12        rev = rev * 10 + remainder; cnt++;
13        n /= 10; cnt++;
14    }
15
16    cnt++;
17    printf("%lld", cnt);
18    return 0;
19 }
20

```

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

Passed all tests! ✓

**Correct**

Marks for this submission: 1.00/1.00.

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