



Problem 5: Finding Complexity using counter method

Started on	Sunday, 17 August 2025, 8:50 PM
State	Finished
Completed on	Sunday, 17 August 2025, 8:55 PM
Time taken	4 mins 50 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>
2 int main(){
3     int count=0;
4     int n;
5     scanf("%d",&n);
6     int r=0,rem;
7     count++;
8     while(n!=0){
9         count++;
10        rem=n%10;
11        count++;
12        r=r*10+rem;
13        count++;
14        n/=10;
15        count++;
16    }
17    count++;
18    //print(r);
19    count++;
20    printf("%d",count);
21
22
23 }
```

	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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