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<b>Started on</b>	Tuesday, 13 August 2024, 2:58 PM
<b>State</b>	Finished
<b>Completed on</b>	Tuesday, 13 August 2024, 3:01 PM
<b>Time taken</b>	2 mins 38 secs
<b>Marks</b>	1.00/1.00
<b>Grade</b>	<b>10.00</b> out of 10.00 ( <b>100%</b> )

## 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 c=0;
3  void reverse(int n)
4  {
5      int rev = 0, remainder;
6      c++;
7      while (n != 0)
8      {
9          c++;
10
11         remainder = n % 10;
12         c++;
13         rev = rev * 10 + remainder;
14         c++;
15         n/= 10;
16         c++;
17     }
18     c++;
19     //print(rev);
20     c++;
21     printf("%d",c);
22
23 }
24 int main(){
25     int n;
26     scanf("%d",&n);
27     reverse(n);
28 }
```

	Input	Expected	Got	
✓	12	11	11	✓

	Input	Expected	Got	
✓	1234	19	19	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

◀ Problem 4: Finding Complexity using Counter Method

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