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       int count=0;
4       int rev=0;
5       int rem;
6       count++;
7       while(n!=0){
8           count++;
9           rem=n%10;
10          count++;
11          rev=rev*10+rem;
12          count++;
13          n/=10;
14          count++;
15      }
16      count++;
17      count++;
18      return count;
19  }
20  int main(){
21      int n;
22      scanf("%d",&n);
23      printf("%d",reverse(n));
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