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CS23331-DAA-2024-CSE / Problem 5: Finding Complexity using counter method



Problem 5: Finding Complexity using counter method

Started on	Thursday, 28 August 2025, 1:28 PM
State	Finished
Completed on	Thursday, 28 August 2025, 1:36 PM
Time taken	8 mins 12 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 void rev(int n){
3     int rev=0,rem,count=2;
4     while(n!=0){
5         count++;
6         rem=n%10;count++;
7         rev=rev*10+rem;count++;
8         n/=10;count++;
9     }
10    count++;
11    printf("%d",count);
12 }
13 int main(){
14     int n;
15     scanf("%d",&n);
16     rev(n);
17     return 0;
18 }
```

	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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