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Started on	Friday, 16 August 2024, 8:11 PM
State	Finished
Completed on	Friday, 16 August 2024, 8:17 PM
Time taken	6 mins 13 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100%)

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 main(){
3     int n;
4     scanf("%d",&n);
5     int a=0;
6     int rev=0;a++;
7     int remainder;
8     while(n!=0 && a++){
9         remainder = n%10;
10        a++;
11        rev = rev*10+remainder;
12        a++;
13        n/=10;
14        a++;
15    }
16    a++;
17    //printf(rev);
18    a++;
19    printf("%d",a);
20 }
```

	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](#)

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