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

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Problem 5: Finding Complexity using counter method

Started on	Tuesday, 30 September 2025, 12:42 PM
State	Finished
Completed on	Tuesday, 30 September 2025, 12:56 PM
Time taken	13 mins 45 secs
Marks	1.00/1.00
Grade	10.00 out of 10.00 (100 %)


```
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:

```
#include stdio.h>
vint main(){
   int count=0;
   int rev = 0, remainder,n;
   count+;
   scanf("%d",%n);
   count+;
   while (n != 0)
   {
      count+;
      remainder = n % 10;
      count+;
      remainder = n % 10;
      count+;
      rev = rev * 10 + remainder;
      in /= 10;
      count+;
      n/= 10;
      count++;
      printf("%d",count);
}
```

	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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