Started on	Thursday, 31 July 2025, 8:40 PM
State	Finished
Completed on	Thursday, 31 July 2025, 8:46 PM
Time taken	5 mins 51 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:

Reset answer

```
1  #include<stdio.h>
2  void reverse(int);
3  int main(){
4      int n;
5      scanf("%d",&n);
6      reverse(n);
7  }
8  void reverse(int n){
9      int rev=0,remainder;
10     int count=0;
11     count++;
12     count++;
13     while(n!=0){
14         count++;
15         remainder=n%10;
16         count++;
17         rev=rev*10+remainder;
18         count++;
19         n/=10;
20         count++;
21     }
22     count++;
23
24     printf("%d",count);
25 }
```

	Input	Expected	Got	
✔	12	11	11	✔
✔	1234	19	19	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.