Started on	Thursday, 7 August 2025, 11:18 PM
State	Finished
Completed on	Thursday, 7 August 2025, 11:30 PM
Time taken	12 mins 41 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);
```

```c
void reverse(int n)
{
int count=0;
int rev = 0,remainder;
count++;
   while (n != 0)
    {
        count++;
        remainder = n % 10;
        count++;
        rev = rev * 10 + remainder;
        count++;
        n/= 10;
       count++;
    }
    count++;
 //print(rev);
 count++;
 printf("%d",count);
}
 int main()
 {
     int n;
     scanf("%d",&n);
     reverse(n);
 }
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.