Started on	Thursday, 31 July 2025, 9:17 AM
State	Finished
Completed on	Thursday, 31 July 2025, 9:20 AM
Time taken	2 mins 56 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 count=0;
10      int rev = 0, remainder;
11      count++;
12      while (n != 0)
13 ▾    {
14          count++;
15          remainder = n % 10;
16          count++;
17          rev = rev * 10 + remainder;
18          count++;
19          n/= 10;
20          count++;
21          }count++;
22          //print(rev);
23          count++;
24          printf("%d",count);
25
26  }
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.