Started on	Thursday, 31 July 2025, 9:33 AM
State	Finished
Completed on	Thursday, 31 July 2025, 9:36 AM
Time taken	3 mins 18 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   void reverse(int n)
4 ▾ {
5       int count=0;
6       int rev=0,remainder;
7       count++;
8       while(n!=0)
9 ▾     {
10          count++;
11          remainder=n%10;
12          count++;
13          rev=rev*10+remainder;
14          count++;
15          n/=10;
16          count++;
17      }
18      count++;
19      //printf("%d",rev);
20      count++;
21      printf("%d",count);
22  }
23  int main()
24 ▾ {
25      int n;
26      scanf("%d",&n);
27      reverse(n);
28  }
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.