Started on	Monday, 11 August 2025, 3:56 PM
State	Finished
Completed on	Monday, 11 August 2025, 3:59 PM
Time taken	3 mins 2 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 n)
3 ▾ {
4   int c=0;
5   int rev=0,remainder;
6   c++;
7   while(n!=0)
8 ▾ {
9   c++;
10  remainder=n%10;
11  c++;
12  rev=rev*10+remainder;
13  c++;
14  n/=10;
15  c++;
16  }
17  c++;
18  //printf(rev);
19  c++;
20  printf("%d",c);
21  }
22  int main()
23 ▾ {
24  int n;
25  scanf("%d",&n);
26  reverse(n);
27  }
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.