Started on	Monday, 4 August 2025, 4:37 PM
State	Finished
Completed on	Monday, 4 August 2025, 4:43 PM
Time taken	5 mins 33 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       int c=0;
4       int rev = 0, remainder;
5       c++;
6       while (n != 0)  {
7           c++;
8           remainder = n % 10;
9           c++;
10          rev = rev * 10 + remainder;
11          c++;
12          n/= 10;
13          c++;
14      }
15      c++;
16      //printf(rev);
17      c++;
18      printf("%d",c);
19  }
20  int main(){
21      int n;
22      scanf("%d",&n);
23      reverse(n);
24  }
```

	Input	Expected	Got	
✔	12	11	11	✔

	Input	Expected	Got	
✔	1234	19	19	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.