Started on	Monday, 4 August 2025, 4:34 PM
State	Finished
Completed on	Monday, 4 August 2025, 4:40 PM
Time taken	5 mins 36 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

```c
#include<stdio.h>
int reverse(int n)
{
    int counter = 0;
    int rev = 0, remainder;
    counter++;
    while(n!=0)
    {
        counter++;
        remainder = n%10;
        counter++;
        rev=rev*10+remainder;
        counter++;
        n/=10;
        counter++;
    }counter++;
    //printf(rev);
    counter++;
    return counter;
}
int main()
{
    int n;
    scanf("%d",&n);
    int ans = reverse(n);
    printf("%d",ans);
}
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.