

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

```

	Input	Expected	Got	
✓	12	11	11	✓
✓	1234	19	19	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.