



**Started on** Friday, 8 August 2025, 1:47 PM

**State** Finished

**Completed on** Friday, 8 August 2025, 1:50 PM

**Time taken** 3 mins 6 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:**

```
1  # include <stdio.h>
2
3  int main(){
4      int count = 0;
5      int n;
6      scanf("%d", &n);
7      count++;
8      int rev = 0, remainder;
9      count++;
10 while(n!=0){
11     count++;
12     remainder = n%10;
13     count++;
14     rev = rev*10 + remainder;
15     count++;
16     n /= 10;
17     count++;
18 }
19 count++;
20 printf("%d", count);
21 }
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

[Back to Course](#)