



MONIKA R 2024-CSE ▾

## M2

**Started on** Tuesday, 26 August 2025, 8:41 AM

**State** Finished

**Completed on** Tuesday, 26 August 2025, 8:46 AM

**Time taken** 5 mins 22 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  void reverse(int n){
3      int count=0;
4      int rev=0,remainder;
5      count++;
6      while(n!=0){
7          count++;
8          remainder=n%10;
9          count++;
10         rev=rev*10+remainder;
11         count++;
12         n/=10;
13         count++;
14     }
15     count++;
16     count++;
17     printf("%d",count);
18 }
19
20 int main(){
21     int n;
22     scanf("%d",&n);
23     reverse(n);
24 }
```

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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