

VISAANTH M 2024-IT**V2****Started on** Friday, 8 August 2025, 7:12 PM**State** Finished**Completed on** Friday, 8 August 2025, 7:26 PM**Time taken** 14 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:

```
1 #include<stdio.h>
2 void reverse(int n)
3 {
4     int c=0;
5     int rev=0,remainder;
6     c++;
7     while(n!=0){
8         c++;
9         remainder=n%10;
10        c++;
11        rev=rev*10+remainder;
12        c++;
13        n/=10;
14        c++;
15    }
16    c++;
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	✓
✓	1234	19	19	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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