**RAJALAKSHMI ENGINEERING COLLEGE**

🔔 ⁸  **SRIRAM S (12/08/2006) 2024-IT** ⌄          **S2**

| | |
|---|---|
| **Started on** | Tuesday, 19 August 2025, 8:41 AM |
| **State** | Finished |
| **Completed on** | Thursday, 21 August 2025, 10:39 AM |
| **Time taken** | 2 days 1 hour |
| **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 rev=0,remainder;
 4      int count=1;
 5      while(n!=0){
 6          count++;
 7          remainder=n%10;
 8          count++;
 9          rev=rev*10+remainder;
10          count++;
11          n/=10;
12          count++;
13      }
14      count++;
15      count++;
16      printf("%d\n",count);
17  }
18  int main(){
19      int n;
20      scanf("%d",&n);
21      reverse(n);
22      return 0;
23  }
```

| | 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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