RAJALAKSHMI ENGINEERING COLLEGE

CHANDRU G S 2024-CSE C2

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| **Started on** | Sunday, 31 August 2025, 10:49 AM |
| **State** | Finished |
| **Completed on** | Sunday, 31 August 2025, 10:53 AM |
| **Time taken** | 4 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:**

```c
#include<stdio.h>

void reverse(int n)
{  int c=0;c++;
   int rev = 0, remainder;
   while (n != 0)
    {   c++;
        remainder = n % 10;c++;
        rev = rev * 10 + remainder;c++;
        n/= 10;c++;

    }c+=2;
//printf("%d",rev);
printf("%d",c);
}

int main(){
    int n;
    scanf("%d",&n);
    reverse(n);
}
```

| | 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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