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,int c)
3 ▾{
4     int rev=0, remainder;
5     while (n != 0)
6 ▾     {
7         remainder = n % 10;
8         c++;
9         rev = rev * 10 + remainder;
10        c++;
11        n/= 10;
12        c++;
13        c++;
14
15    }
16    c++;
17    c++;
18    //print(rev);
19    c++;
20    printf("%d",c);
21 }
22 int main()
23 ▾{
24     int n,c=0;
25     scanf("%d",&n);
26     reverse(n,c);
27
28 }
```

	Input	Expected	Got	
✔	12	11	11	✔

	Input	Expected	Got	
✔	1234	19	19	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

◄ Problem 4: Finding Complexity using Counter Method

Jump to...

1-G-Coin Problem ►