```
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:

```
#include<stdio.h>
 1
   int c=0;
 2
 3 void reverse(int n)
 4 ▼ {
 5
       int rev = 0, remainder;
 6
       C++;
 7
       while (n != 0)
 8
        {
 9
            c++;
10
            remainder = n % 10;
11
12
            C++;
            rev = rev * 10 + remainder;
13
14
            c++;
            n/= 10;
15
16
            C++;
17
18
        }c++;
   //print(rev);
19
20
   C++;
21
    printf("%d",c);
22
23
24 v int main(){
        int n;
scanf("%d",&n);
25
26
27
        reverse(n);
28
   }
29
```

	Input	Expected	Got	
~	12	11	11	~
~	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 ►