Started on	Tuesday, 13 August 2024, 2:58 PM
State	Finished
Completed on	Tuesday, 13 August 2024, 2:59 PM
Time taken	1 min 28 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; c++;
6      while (n != 0)
7 ▾     {c++;
8           remainder = n % 10;c++;
9           rev = rev * 10 + remainder;c++;
10          n/= 10;c++;
11
12      }c++;
13  //print(rev);
14  c++;
15  printf("%d",c);
16  }
17  int main()
18 ▾ {
19      int n;
20      scanf("%d",&n);
21      reverse(n);
22  }
```

	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 ►