Started on	Friday, 16 August 2024, 11:42 AM
State	Finished
Completed on	Monday, 19 August 2024, 8:10 AM
Time taken	2 days 20 hours
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
1   #include<stdio.h>
2   void reverse(int n)
3 ▾{ int c=0;
4       int rev = 0, remainder;c++;c++;
5       while (n != 0)
6 ▾      {c++;
7            remainder = n % 10;c++;
8            rev = rev * 10 + remainder; c++;
9            n/= 10;c++;
10
11       }c++;
12       //print(rev);
13  printf("%d",c);
14  c++;
15  }
16 ▾int main(){
17  int n;
18  scanf("%d",&n);
19  reverse(n);
20  }
```

	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 ►