Started on	Tuesday, 20 August 2024, 2:54 PM
State	Finished
Completed on	Tuesday, 20 August 2024, 2:59 PM
Time taken	5 mins 21 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 ▾{int count=0;
4      int rev = 0, remainder;
5      count++;
6      while (n != 0)
7 ▾     {count++;
8          remainder = n % 10;
9          count++;
10         rev = rev * 10 + remainder;
11         count++;
12         n/= 10;
13         count++;
14
15      }count++;
16  //print(rev);
17  count++;
18  printf("%d",count);
19  }
20  int main()
21 ▾{
22      int n;
23      scanf("%d",&n);
24      reverse(n);
25
26  }
```

	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 ►