Started on	Friday, 4 October 2024, 2:10 PM
State	Finished
Completed on	Friday, 4 October 2024, 2:10 PM
Time taken	23 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  int main()
 3 ▾{
 4      int count=0;
 5      int n;
 6      scanf("%d",&n);
 7
 8      int rev = 0, remainder;
 9      count++;
10      while (n != 0)
11 ▾     {
12          count++;
13          remainder = n % 10;
14          count++;
15          rev = rev * 10 + remainder;
16          count++;
17          n/= 10;
18          count++;
19
20      }
21      count++;
22      count++;
23      printf("%d",count);
24  }
```

	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...