Started on	Friday, 9 August 2024, 2:20 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:22 PM
Time taken	2 mins 53 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 count=0;
5      int rev = 0, remainder;
6      count++;
7      while (n != 0)
8 ▾    {
9          count++;
10          remainder = n % 10;
11          count++;
12          rev = rev * 10 + remainder;
13          count++;
14          n/= 10;
15          count++;
16      }
17      count++;
18  //print(rev);
19  count++;
20  printf("%d",count);
21  }
22  int main()
23 ▾{
24      int n;
25      scanf("%d",&n);
26      reverse(n);
27
28  }
```

	Input	Expected	Got	
✔	12	11	11	✔
✔	1234	19	19	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Jump to...

Jump to...