Dashboa... / My cour... / CS23331-DAA-2023-... / Finding Time Complexity of Algorit... / Problem 5: Finding Complexity using counter me...

Started on	Friday, 9 August 2024, 2:46 PM
State	Finished
Completed on	Friday, 9 August 2024, 2:47 PM
Time taken	20 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:

```
#include <stdio.h>
 1
 2
   void reverse(int n)
3 ▼ {
 4
        int c=0;
 5
        int rev = 0, remain;
 6
        c++;
 7
        while (n != 0)
 8
        {
 9
            C++;
10
            remain = n \% 10;
11
            C++;
12
            rev = rev * 10 + remain;
13
            C++;
14
            n/= 10;
15
            C++;
16
        }
17
        C++;
        //printf(rev);
18
19
        c++;
        printf("%d",c);
20
21
22 v int main(){
23
        int n;
        scanf("%d",&n);
24
25
        reverse(n);
26
27
28
```

	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 ►