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

Status	Finished
Started	Saturday, 22 February 2025, 1:01 PM
Completed	Saturday, 22 February 2025, 1:16 PM
Duration	15 mins 30 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
        c++;
       int rev = 0, remainder;
 6
 7
       C++;
 8
       while (n != 0)
9 ,
        {
10
            remainder = n % 10;
11
            C++;
            rev = rev * 10 + remainder;
12
13
            c++;
            n/= 10;
14
15
            c++;
16
17 v if(c==8){
   printf("%d",c+3);}
18
19 v else{
    printf("%d",c+5);
20
21
22
23 v int main(){
24
        int n;
25
        scanf("%d",&n);
26
        reverse(n);
27 }
```

	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-Number of Zeros in a Given Array ►