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Started on	Tuesday, 13 August 2024, 2:52 PM
State	Finished
Completed on	Tuesday, 13 August 2024, 2:55 PM
Time taken	3 mins 10 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.

Factor(num) {

{

for (i = 1; i <= num;++i)

{

if (num % i== 0)

{

printf("%d ", i);

}

}

Note: No need of counter increment for declarations and scanf() and counter variable printf() statement.

Input:

A positive Integer n

Output:

Print the value of the counter variable
```

Answer:

```
#include<stdio.h>
 2 void Factor(int num)
 4
         int c=0;
 5
         for (int i = 1; i \leftarrow num; ++i)
 6 🔻
 7
             C++;
 8
         if (num % i== 0)
 9
10
                 C++;
               //printf("%d ", i);
11
12
13
             }
14
            C++;
15
         } c++;
         printf("%d",c);
16
17
18 v int main(){
19
          int n;
20
          scanf("%d",&n);
21
          Factor(n);
22
      }
```

	Input	Expected	Got	
~	12	31	31	~
~	25	54	54	~
~	4	12	12	~

Passed all tests! 🗸

Correct

Marks for this submission: 1.00/1.00.

■ Problem 2: Finding Complexity using Counter method

Jump to...

Problem 4: Finding Complexity using Counter Method ►