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Started on	Tuesday, 20 August 2024, 2:06 PM
State	Finished
Completed on	Tuesday, 20 August 2024, 2:33 PM
Time taken	26 mins 39 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)
 3 ▼ {
 4
         int count=0;
 5
 6
        for (int i = 1; i <= num;++i)</pre>
 7 🔻
 8
             count++;
 9
          if (num % i== 0)
10
11
               //printf("%d ", i);
12
13
               count++;
14
15
             }
16
17
             count++;
18
         }
19
         count++;
20
         printf("%d",count);
21
      }
22 v int main(){
23
        int num;
24
        scanf("%d",&num);
25
        Factor(num);
26
```

	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 ►