



NEIL DANIEL A 2024-CSE ▾

N2

Started on	Sunday, 17 August 2025, 7:39 PM
State	Finished
Completed on	Sunday, 17 August 2025, 7:47 PM
Time taken	8 mins 38 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:

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

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

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

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