



Started on	Tuesday, 26 August 2025, 8:28 AM
State	Finished
Completed on	Tuesday, 26 August 2025, 8:34 AM
Time taken	6 mins 50 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 main(){
3     int num;
4     scanf("%d",&num);
5     int count=0;
6     for(int i=1;i<=num;i++){
7         count++;
8         if(num%i==0){
9             count++;
10            //printf("%d",i);
11        }
12        count++;
13    }
14    count++;
15    printf("%d\n",count);
16    return 0;
17 }
```

	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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