Started on	Monday, 4 August 2025, 4:17 PM
State	Finished
Completed on	Monday, 4 August 2025, 4:30 PM
Time taken	12 mins 20 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:

Reset answer

```
1  #include<stdio.h>
2  void factor(int);
3  int count=0;
```

```
int main()
{
    int n;
    scanf("%d",&n);
    factor(n);
    printf("%d",count);

}
void factor(int num)
{
    for (int i = 1; i <= num;++i)
{
    count++;
    count++;
    if(num % i== 0)
    {
       // printf("%d",i);
       count++;
    }
}count++;
}
```

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

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.