Started on	Thursday, 31 July 2025, 8:51 AM
State	Finished
Completed on	Thursday, 31 July 2025, 9:04 AM
Time taken	12 mins 54 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);
```

```c
int main()
{
    int num;
    scanf("%d",&num);
    Factor(num);
}
void Factor(int num)
{
    int count=0;
    for(int i=1; i<=num;++i)
    {
        count++;
        //count++;
        if(num%i==0)
        {
            count++;
            //printf("%d",i);
            //ount++;
        }count++;
    }
    count++;
    printf("%d",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.