Started on	Thursday, 31 July 2025, 9:20 AM
State	Finished
Completed on	Thursday, 31 July 2025, 9:34 AM
Time taken	14 mins 7 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

```c
#include<stdio.h>
void factor(int);
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){
            //printf("%d",i);
            count++;
        }
    }
    count++;
    printf("%d",count);
}
```

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

	Input	Expected	Got	
✔	4	12	12	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.