Started on	Monday, 4 August 2025, 4:08 PM
State	Finished
Completed on	Monday, 4 August 2025, 4:29 PM
Time taken	20 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:

Reset answer

```
#include<stdio.h>
int Factor(int num)
{
    int c=0;
    for (int i = 1; i <= num;++i)
    {
        c++;
        c++;
        if (num % i== 0)
        {
            //printf("%d ", i);
            c++;
        }
    }
    c++;
    return c;
}
int main(){
    int num;
    scanf("%d",&num);
    printf("%d",Factor(num));
}
```

	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.